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To: "Max L. Blosser" <m.l.blosser@larc.nasa.gov>  
From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>  
Subject: Re: FYI - News contact  
Cc: s.j.scotti@larc.nasa.gov, UherBill, SkoraMarny  
Bcc:  
X-Attachments:

---

Max:

Thanks. I'm not sure who he's talking about below, but it doesn't matter -- Mark Shuart is handling all questions about our "public domain" structures and materials work as we respond to STS-107 questions. I've asked Bill Uher of our office to work with Mark to determine if a topic is one that Mark feels comfortable with and for Bill to take care of interview logistics. In other words, Mark is not taking STS-107 questions. He's leaving those for Mark Saunders and myself. I talked with Steve Scotti about this yesterday. (When I talked with Steve we may not have had Mark Shuart lined up as spokesman at that point.)

You might consider providing Mark Shuart a little bulletized summary re ARMOR unless you think he's already got it in his head. Also, at least for now, please provide Bill Uher with whatever doc's you're emailing so he can be the point of contact with news media -- or Mark, if you think that would work better.

Please direct all media inquires to Bill, please.

Having said that, if you think this arrangement is unworkable for some reason, please give me a call at 344-7211 so we can talk about it.

Thanks.

keith

At 12:59 PM -0500 2/4/03, Max L. Blosser wrote:

Keith,

This guy (Peter Bacque) called me up wanting to do a story on TPS alternatives (He saw the space.com article on ARMOR TPS.) I referred him to you and sent him a copy of my dissertation which has a lot of TPS background info in it.

Max

From: <PBacque@timesdispatch.com>  
To: m.l.blosser@larc.nasa.gov  
Subject: RE: Metallic TPS dissertation  
Date: Tue, 4 Feb 2003 12:18:38 -0500  
X-Mailer: Internet Mail Service (5.5.2653.19)

max,

just called the lrc pao and they say the person who works "that" is out of the office.

you might want to ping the pao, tell 'em i called you, you (very professionally and entirely according to published procedures) told me to go

away, and then ask them if you could talk to me, just to speed things up.

i realize that is an aggravation, but, hey, if i wanted to win friends and influence people, i would have taken that dale carnegie course about how you should never criticize, compare or complain. instead, i went into newspapering, where all we do is criticize, compare and complain.

yours for truth and wisdom,

pb

-----Original Message-----

From: Max L. Blosser [<mailto:m.l.blosser@larc.nasa.gov>]

Sent: 2/4/2003 12:17 PM

To: Bacque, Peter J.

Subject: Metallic TPS dissertation

Peter,

Attached is a copy of my dissertation. Chapters 1-4 have background information that may be of interest.

Max

---

Max L. Blosser, PhD Phone: (757) 864-5192  
NASA Langley Research Center FAX: (757) 864-7943  
Mail Stop 396 Metals and Thermal Structures Branch  
6 East Reid Street  
Hampton, VA 23681-0001 email: [M.L.Blosser@LaRC.NASA.gov](mailto:M.L.Blosser@LaRC.NASA.gov)  
<http://smc.larc.nasa.gov/mtsb/personnel/blosser/maxb.html>

---

To: [REDACTED]  
 From: [REDACTED]  
 Subject: [REDACTED]  
 Cc: [REDACTED]  
 Bcc: [REDACTED]  
 X-Attachments:

FOIA  
 (b)(2)

[REDACTED]

FOIA  
 (b)(2)

Date: Sun, 02 Feb 2003 21:02:40 -0500  
 From: Ron Lester [REDACTED]  
 X-Accept-Language: en  
 To: h.k.henry@larc.nasa.gov  
 Subject: Info for my Senator requested

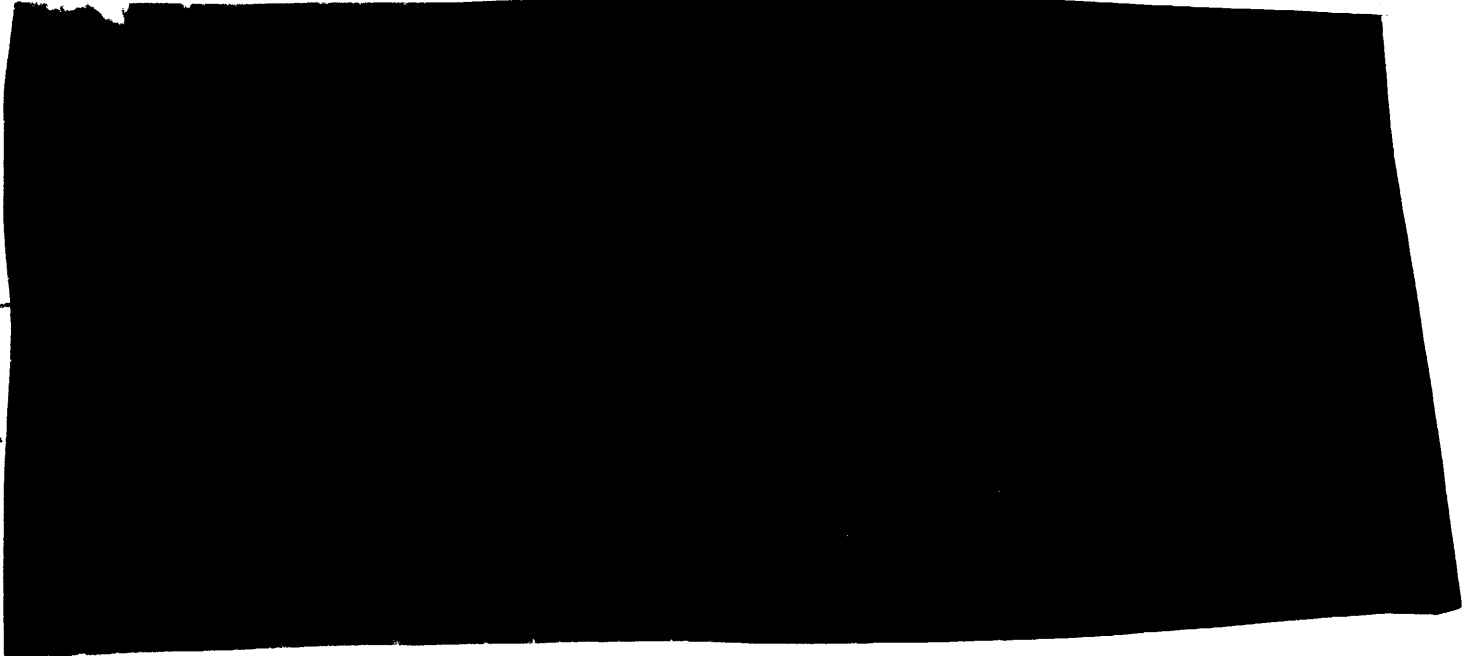
FOIA  
 (b)(6)

Why did we just loose 7 more because the tile failures of **15 years** continue? What is wrong that we have set the cart (space station) b4 the almost dead horse(shuttle)?  
 A monolithic coating with insulating ceramic foam interior over the metal wing seems proper, **Armor** seems to be the answer.

--  
 Ron Lester, retired engineer (ceramic)

To: [redacted] FOIA  
From: [redacted] (b)(2)  
Subject: [redacted]  
Cc: [redacted]  
Bcc:  
X-Attachments:

FOIA(b)(2)



← Duplicate →

Date: Sun, 02 Feb 2003 21:02:40 -0500  
From: Ron Lester <slester@intercom.net>  
X-Accept-Language: en  
To: h.k.henry@larc.nasa.gov  
Subject: Info for my Senator requested

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A monolithic coating with insulating ceramic foam interior over the metal wing seems proper, **Armor** seems to be the answer.

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Ron Lester, retired engineer (ceramic)

To: "Schleck, Dave" <DSchleck@dailypress.com>  
From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>  
Subject: Re: Fwd: TUESDAY - Follow-up questions from the Daily Press  
Cc:  
Bcc:  
X-Attachments:

Dave:

Finally! I'm getting to emails. See my responses after your questions.

keith

From: "Schleck, Dave" <DSchleck@dailypress.com>  
To: "h.k.henry@larc.nasa.gov" <h.k.henry@larc.nasa.gov>  
Cc: "c.p.rink@larc.nasa.gov" <c.p.rink@larc.nasa.gov>  
Subject: TUESDAY - Follow-up questions from the Daily Press  
Date: Mon, 3 Feb 2003 19:13:21 -0600

Keith,

Thank you for your help with the story today. I hope it is fair and accurate.

It was certainly fair. Re accuracy, I'm not sure if an increase in drag indicates an increase in tire pressure. I'm not clear on that point. I think it was a good job overall.

But I'm the last to claim perfection. Below are some questions I was left with at the end of the day. Hopefully we can work on these on Tuesday and the days following.

Sincerely,  
Dave Schleck

1. I look forward to speaking with a Langley person who investigated the O-rings - Mark Shuart. Also, is Michael Card still around (director of structures and dynamics in 1987)?

I've directed you to Card's contact info. I'll have to get back to you on who we have re O-rings. Mark Shuart may not be the right person.

2. Would it be possible for Mr. Freeman to call me after the memorial ceremony in Texas on Tuesday to talk about his reflections of the event? If not him, what about someone else from Langley who was there?

I'm looking forward to seeing Doug Dwoyer's quotes.

3. Are there any other human interest stories that are developing (Langley employees who knew the astronauts, who may heading down for "unofficial" visits to Texas/Florida, etc.?)

I'll have to get back to you on this.

4. Can you give me any more information on who (and of what Langley departments) has been contacted during "exploratory" calls for the Columbia investigation?

Sorry, can't address that right now, per our phone discussion.

Or any new, breaking information about how Langley is contributing to the investigation?

Nothing to report yet.

5. Please send me that wind-tunnel photo you mentioned, testing a 1-foot long model of the shuttle. May I speak to someone directly involved with that experiment?

Thanks for the reminder. I've identified the photo. It's from 1975 and shows "the spacecraft's flow field at hypersonic (reentry) speeds." It does not show heating or tiles, but it may still be of interest. I will request an electronic image be made. I faxed a caption and an inferior version of the image that may help you better assess if you want an interview.

6. Are there other Langley Programs (besides MISSE) that rely on space shuttle program that might be affected by this disaster?

Could be. I'll ask. Of course, that may be a function of how long it takes to fly again.

7. I'm still curious - Were NASA Langley people involved in any way with evaluating Colombia launch data and/or was there a Langley-related instrument that measures temperature aboard Colombia? I don't think you really answered this question Monday.

Another question we can't address right now.

8. Please let me know as new information develops about Langley's budget. Do you know when you'll get or release Langley's budget figures yet? Has that date (for local numbers, not NASA-wide) changed?

Please ask Marny.

9. I might want to contact Joel Levine to get a general reaction from him.

Thanks for the heads-up. I trust you are planning to possibly quote him as an individual who works at NASA Langley. He does not represent NASA on this story.

--

Chris Rink  
Office of Public Affairs  
NASA Langley Research Center  
Hampton, Va. 23681-2199  
(757) 864-6786 / fax -6166 / cel 344-7711 / Mail Stop 145 / Bldg. 1153  
<http://oea.larc.nasa.gov/>



To: SkoraMarny, RinkChris, UherBill

From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>

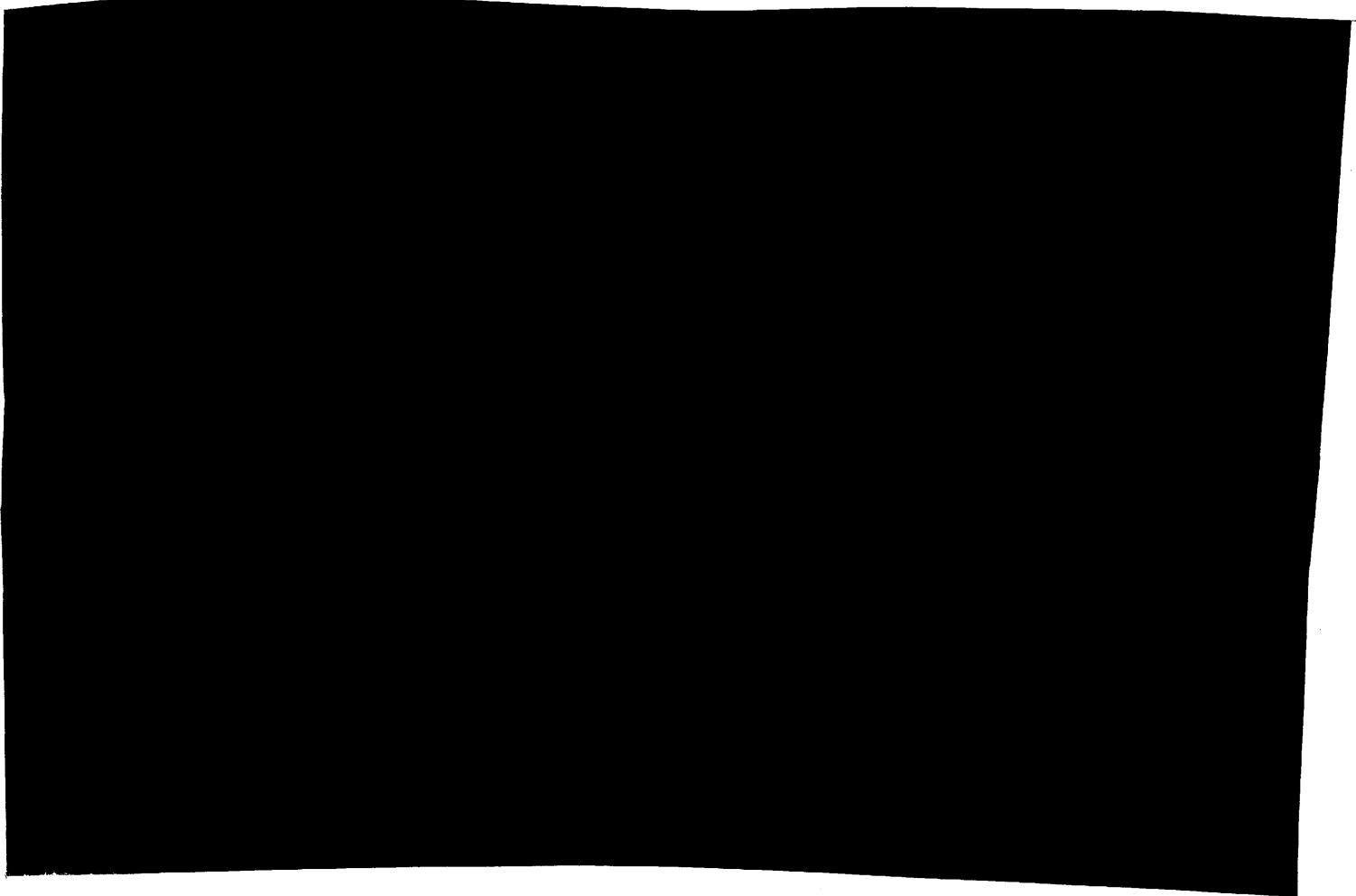
Subject: TUESDAY - Follow-up questions from the Daily Press

Cc:

Bcc:

X-Attachments:

*Foia Exemption (b)(2)*



*← Duplicate →*

Date: Tue, 4 Feb 2003 20:23:42 -0500

To: "Schleck, Dave" <DSchleck@dailypress.com>

From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>

Subject: Re: Fwd: TUESDAY - Follow-up questions from the Daily Press

Cc:

Bcc:

X-Attachments:

Dave:

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From: "Schleck, Dave" <DSchleck@dailypress.com>  
To: "'h.k.henry@larc.nasa.gov'" <h.k.henry@larc.nasa.gov>  
Cc: "'c.p.rink@larc.nasa.gov'" <c.p.rink@larc.nasa.gov>  
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Duplicate

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Thanks for the heads-up. I trust you are planning to possibly quote him as an individual who works at NASA Langley. He does not represent NASA on this story.

--

Chris Rink  
Office of Public Affairs  
NASA Langley Research Center  
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(757) 864-6786 / fax -6166 / cel 344-7711 / Mail Stop 145 / Bldg. 1153  
<http://oea.larc.nasa.gov/>

Duplicate

To: <AHostetler@timesdispatch.com>  
From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>  
Subject: Re: Langley's role  
Cc: m.p.finneran@larc.nasa.gov, m.m.skora@larc.nasa.gov  
Bcc:  
X-Attachments:

---

Hello, aj.

Nothing solid on who at Langley may participate in the investigation. I might add that it's not clear that we will identify individuals -- so you won't be surprised if it goes that way.

As you may know by now, we claim three astronauts as our own: Leland D. Melvin, Steven K. Robinson (Ph.D) and Charles J. Camarda (Ph.D.). Early indications are that active astronauts are not being made available, but here's the person to ask:

Eileen Hawley  
Newsroom Mgr  
NASA Johnson  
281-483-5111  
eileen.hawley1@jsc.nasa.gov

Let me know if you want bios. I'm not aware that we have someone who has been tapped but is still here.

keith

At 12:38 PM -0500 2/3/03, AHostetler@timesdispatch.com wrote:

Folks: Anything solid yet on who from Langley will participate in the Columbia investigation? Also, I'd like to talk to anyone at langley who has been tapped for the astronaut corps, or is in the process of applying for the corps. Any chance of that?

thanks,  
aj

A.J. Hostetler  
Science Writer  
Richmond Times-Dispatch  
P.O. Box 85333  
Richmond, VA 23293  
ahostetler@timesdispatch.com  
804-649-6355 (o)  
804-775-8059 (fax)

Attachment converted: Macintosh HD:Notebook.jpg 2 (JPEG/ogle) (000238ED)

To: Jeff Hecht <jeff@jeffhecht.com>  
From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>  
Subject: Re: 'Planetary entry radiation facility'  
Cc:  
Bcc:  
X-Attachments:

---

Jeff:

Thanks. That helps a lot. We'll check and get back to you as soon as we can puzzle it out.

keith henry

Keith

I've been told that Langley used to have a group of a dozen or more people called something like the "Planetary Entry Radiation Facility", which was discontinued about 1977. The two names I had were John T. Suttles and (James) Moss, both of whom you found in the 1979 phone directory.

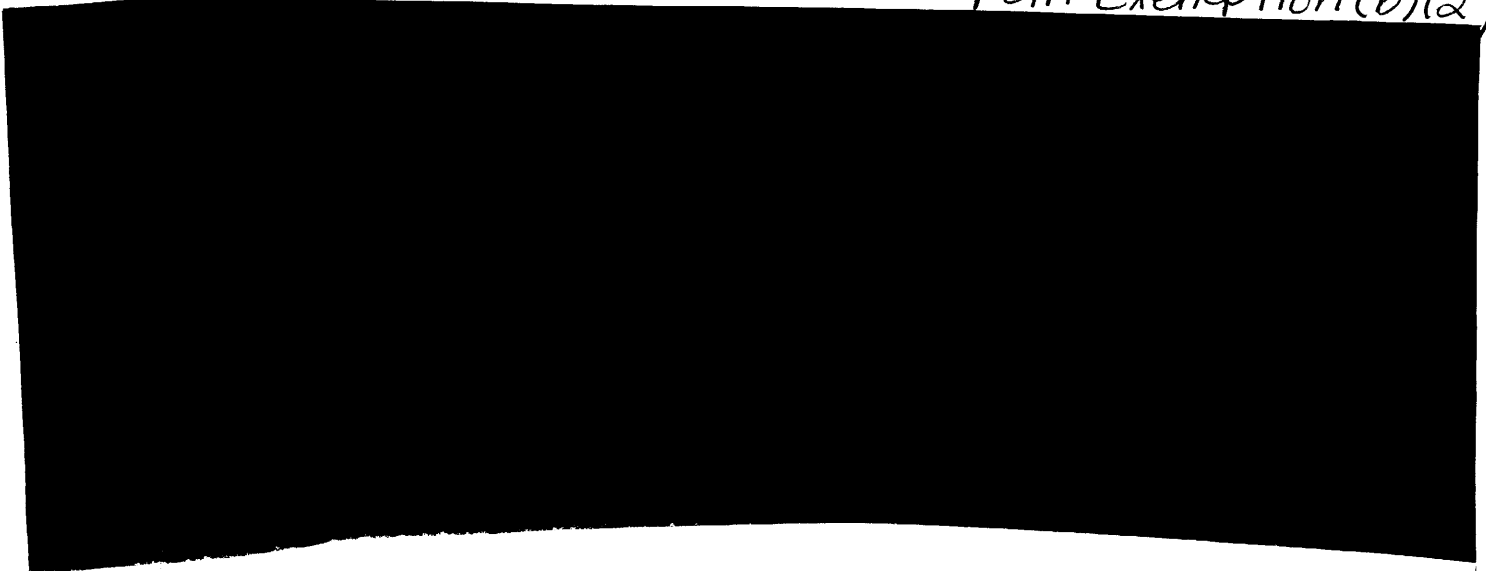
Do you know if there was such a group? Was it discontinued entirely, or were its facilities shifted to some other group? My source thought the program was entirely stopped because NASA thought it adequately understood the physics of entering planetary atmospheres. He said that NASA management at the time said it would only revive that work if they had an accident in planetary re-entry.

Thanks for your help,  
Jeff Hecht, New Scientist magazine

--  
Jeff Hecht, science & technology writer  
jeff@jeffhecht.com; <http://www.jeffhecht.com>  
Boston Correspondent: New Scientist magazine  
Contributing Editor: Laser Focus World, WDM Solutions  
525 Auburn St., Auburndale, MA 02466 USA  
v. 617-965-3834; fax 617-332-4760

To: RinkChris  
From: "H. Keith Henry" <h.k.henry@larc.nasa.gov>  
Subject: Fwd: 'Planetary entry radiation facility'  
Cc: SkoraMarny  
Bcc:  
X-Attachments:

FOIA Exemption (b)(2)



Date: Wed, 5 Feb 2003 16:20:39 -0500  
To: h.k.henry@larc.nasa.gov  
Subject: 'Planetary entry radiation facility'

Keith

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Thanks for your help,  
Jeff Hecht, New Scientist magazine

↑  
Dup.  
↓

X-Sender: m.pitts@express.larc.nasa.gov  
Date: Thu, 30 Jan 2003 10:02:06 -0500  
To: m.p.saunders@larc.nasa.gov, j.w.paulson@larc.nasa.gov  
From: Margarette Pitts <m.pitts@larc.nasa.gov>  
Subject: Fwd: 1-30-03 shuttle status  
Cc: m.m.skora@larc.nasa.gov, H.K.HENRY@larc.nasa.gov

From: "Buckingham-1, Bruce" <Bruce.Buckingham-1@nasa.gov>  
To: "1 'ksc-news\_release@kscnews.ksc.nasa.gov' (E-mail)"  
<ksc-news\_release@kscnews.ksc.nasa.gov>  
Subject: 1-30-03 shuttle status  
Date: Thu, 30 Jan 2003 09:30:14 -0500

KENNEDY SPACE CENTER  
SHUTTLE & PAYLOAD PROCESSING STATUS REPORT  
Thursday, Jan. 30, 2003 (10 a.m. EST)

For the latest Shuttle status on the web visit  
<<http://www-pao.ksc.nasa.gov/kscpao/status/stsstat/current.htm>>.  
For the latest weather forecast visit  
<<http://www-pao.ksc.nasa.gov/kscpao/status/weatstat/forecast.htm>>.  
Visit <<http://www-pao.ksc.nasa.gov/kscpao/schedule/schedule.htm>> for the latest  
schedule of future Shuttle missions. KSC press releases can be found at  
<<http://www-pao.ksc.nasa.gov/kscpao/release/release.htm>>.  
The KSC home page can be found at <<http://www.ksc.nasa.gov/>>.

MISSION STS-107 -SPACEHAB/ FREESTAR MICROGRAVITY RESEARCH MISSION

VEHICLE - Columbia/OV-102  
LAUNCH DATE: Jan. 16, 2003  
OFFICIAL LAUNCH TIME: 10:39 a.m. EST  
TARGET LANDING DATE: Feb. 1, 2003 at 9:16 a.m. EST  
MISSION DURATION: 16 days  
CREW: Husband, McCool, Anderson, Chawla, Brown, Clark, Ramon  
ORBITAL INSERTION ALTITUDE AND INCLINATION: 150 nautical miles/39 degrees

Shuttle Processing Note: Shuttle Columbia continues to perform well on its SPACEHAB microgravity research mission. On the medical research front, work with the bone and prostate cancer studies continued in the Bioreactor Demonstration System, and crewmembers participated in experiments for the Physiology and Biochemistry suite. The 16-day international science mission is scheduled to land on Feb. 1 at about 9:16 a.m. at Kennedy Space Center's Shuttle Landing Facility. Early weather forecast indicate favorable conditions for a landing on Saturday.

MISSION STS-114 -- 17TH ISS FLIGHT (ULF1) - CREW ROTATION/MULTI-PURPOSE LOGISTICS MODULE

VEHICLE: Atlantis/OV-104  
TARGET LAUNCH DATE: March 1, 2003  
TARGET LANDING DATE: March 13, 2003  
MISSION DURATION: 12 days  
SHUTTLE CREW: Collins, Kelly, Noguchi, Robinson  
ISS EXPEDITION CREW 7: Malenchenko, Kaleri, Lu  
ORBITAL ALTITUDE AND INCLINATION: 122 nautical miles, 51.6 degrees

Shuttle Processing Note: Orbiter Atlantis was mated to the Orbiter Transporter System on Tuesday and was rolled over on Wednesday to be mated to its Solid Rocket Boosters and External Tank in preparation for a launch to the International Space Station on March 1.

MISSION STS-115 -- 18th ISS FLIGHT (12A) ? P3/P4 SOLAR ARRAYS

VEHICLE - Endeavour/OV-105  
TARGET LAUNCH DATE: May 23, 2003  
TARGET LANDING DATE: June 3, 2003  
MISSION DURATION: 10 days  
CREW: Jett, Ferguson, Tanner, Burbank, MacLean, Stefanyshyn-Piper  
ORBITAL INSERTION ALTITUDE AND INCLINATION: 122 nautical miles/51.6 degrees

Shuttle Processing Note: Processing continues on schedule for the STS-115 launch to the International Space Station scheduled in May 2003. Installation of all three of Endeavour's Auxiliary Power Units is complete and the APU exhaust duct leak checks are in work. Technicians in the processing facility are preparing to remove the right-hand Orbiter Maneuvering System pod.

ORBITER MAJOR MODIFICATION PERIOD

VEHICLE: Discovery/OV-103

Shuttle Processing Note: The Orbiter Major Modification (OMM) period for Discovery continues with Avionics Bay 3A structures modifications, and Avionics Bay 1 and 2 integrated wiring modifications. Multi-Purpose Logistics Module dedicated heat exchanger and radiator isolation modifications are in work. Wire inspections and repairs are ongoing.

-- end --

\*\*\*\*\*

Margarette Pitts  
Office of External Affairs  
Building 1219, Room 304  
Mail Stop 115  
NASA Langley Research Center  
Hampton, VA 23681-2199  
757-864-6124 - Phone  
757-864-6333 - Fax



From: "Seicshnaydre, Margaret" <Margaret.Seicshnaydre@ssc.nasa.gov>  
Subject: SPACE SHUTTLE COLUMBIA TO PASS OVER LOCAL AREA DURING RE-ENTRY SA  
TURDAY MORNING  
Date: Fri, 31 Jan 2003 16:01:41 -0600

NASA News  
National Aeronautics and  
Space Administration

John C. Stennis Space Center  
Stennis Space Center, MS 39529-6000 MWS-03-012  
(228) 688-3341 Jan. 31, 2003

Lanee Cooksey For Immediate Release  
NASA News Chief  
(228) 688-3341  
SPACE SHUTTLE COLUMBIA TO PASS OVER  
LOCAL AREA DURING RE-ENTRY SATURDAY MORNING

HANCOCK COUNTY, Miss. – The Space Shuttle Columbia will fly over south Mississippi and Louisiana early Saturday morning, Feb. 1, 2003, as it prepares for landing at Kennedy Space Center in Florida. The high-speed re-entry of Columbia may also create a sonic boom that will be heard throughout the area.

Columbia, carrying the astronaut crew of STS-107, launched from Kennedy Space Center on Jan. 16. Highlights of the mission included a variety of significant microgravity and space science research projects.

The Space Shuttle will cross the horizon at approximately 7:59 a.m. heading west-northwest. The best viewing will occur at 8:02 a.m., as the shuttle moves across the sky with a maximum elevation of 41 degrees above the horizon. There is a remote possibility that the sky may be too light for the shuttle to be visible to the public, and the sonic boom will be heard approximately three minutes after this sighting.

-END-

News releases provided by NASA's Stennis Space Center are available at [www.ssc.nasa.gov/~pao/news/newsreleases/2003](http://www.ssc.nasa.gov/~pao/news/newsreleases/2003).  
For more information, call the NASA Public Affairs Office at Stennis at 1-800-237-1821 in Mississippi and Louisiana only, or (228) 688-3341.

From: "Bryant, Karen S" <Karen.Bryant@ssc.nasa.gov>  
Subject: CORRECTION: SPACE SHUTTLE COLUMBIA TO PASS OVER LOCAL AREA DURING  
RE-ENTRY SATURDAY MORNING  
Date: Fri, 31 Jan 2003 17:20:50 -0600

NASA News  
National Aeronautics and  
Space Administration

John C. Stennis Space Center  
Stennis Space Center, MS 39529-6000 MWS-03-012  
(228) 688-3341 Jan. 31, 2003

Lanee Cooksey For Immediate Release  
NASA News Chief  
(228) 688-3341

CORRECTION  
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-END-

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X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Sat, 01 Feb 2003 10:14:22 -0500  
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: Current Message  
Sender: owner-news-chiefs@lists.hq.nasa.gov

This is the message currently being posted on NASA web sites. No other details should be publicly discussed without prior coordination with HQ or JSC.

Regards,  
Bob

NASA Television reported Saturday morning that communications were lost with Shuttle Columbia at approximately 8 a.m. EST over north-central Texas. Columbia was at approximately 200,000 feet altitude. Debris has been sighted in north central Texas. Search and rescue has been dispatched in Dallas-Fort Worth area.

News media covering the Space Shuttle should stay tuned to NASA Television, which is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees West longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

New information, including the times and locations of an press briefings, will be coming later.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 10:15:16 -0500  
To: news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: advisory text  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Here's what we have. Please get your press facilities up and running per contingency.

X-Sender: bdunbar@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 10:01:52 -0500  
To: jdyson@treachery.net  
From: Brian Dunbar <bdunbar@mail.hq.nasa.gov>  
Subject: advisory text  
Cc: Robert Jacobs <rjacobs@hq.nasa.gov>, robert.mirelson@hq.nasa.gov,  
brian.Dunbar@hq.nasa.gov

Jay,

Here is the text of what we want to put on the advisory page that will reside on www.nasa.gov:

[For a banner, use the gray bar from one of the second-level pages (not including the en Espanol link). It doesn't matter if it doesn't go all the way across.]

NASA Television reported Saturday morning that communications were lost with Shuttle Columbia at approximately 8 a.m. EST over north-central Texas. Columbia was at approximately 200,000 feet altitude. Debris has been sighted in north central Texas. Search and rescue has been dispatched in Dallas-Fort Worth area.

News media covering the Space Shuttle should stay tuned to NASA Television, which is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees West longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

New information, including the times and locations of press briefings, will be posted to this page.

<LINK>NASA Home Page</a>

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 10:55:07 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: STS 107 release #1

Sender: owner-news-chiefs@lists.hq.nasa.gov

Cleared for use.



STS107Release1.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 1, 2003

RELEASE: 03-030

### **NASA STATEMENT ON LOSS OF COMMUNICATIONS WITH COLUMBIA**

A Space Shuttle contingency has been declared in Mission Control, Houston, as a result of the loss of communication with the Space Shuttle Columbia at approximately 9 a.m. EST Saturday as it descended toward a landing at the Kennedy Space Center, Fla. It was scheduled to touchdown at 9:16 a.m. EST.

Communication and tracking of the shuttle was lost at 9 a.m. EST at an altitude of about 203,000 feet in the area above north central Texas. At the time communications were lost. The shuttle was traveling approximately 12,500 miles per hour (Mach 18). No communication and tracking information were received in Mission Control after that time.

Search and rescue teams in the Dallas-Fort Worth and in portions of East Texas have been alerted. Any debris that is located in the area that may be related to the Space Shuttle contingency should be avoided and may be hazardous as a result of toxic propellants used aboard the shuttle. The location of any possible debris should immediately be reported to local authorities.

Flight controllers in Mission Control have secured all information, notes and data pertinent to today's entry and landing by Space Shuttle Columbia and continue to methodically proceed through contingency plans.

More information will be released as it becomes available.

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 11:23:39 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pcleget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Fwd: Columbia Facts

Sender: owner-news-chiefs@lists.hq.nasa.gov

STS 107 basic facts.

X-Sender: egoldste@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 11:12:05 -0500  
To: rmirelso@mail.hq.nasa.gov;; rjacobs@hq.nasa.gov  
From: Edward Goldstein <egoldste@hq.nasa.gov>  
Subject: Columbia Facts

Bob, Doc: Here's a first cut on Columbia facts.

Ed G

 columbia.doc

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

## Space Shuttle Columbia

- **STS-107 Flight: January 16-February 1, 2003**
- **Crew: Commander Rick D. Husband (second flight), Pilot William C. McCool (first flight), Payload Specialist Michael P. Anderson (second flight), Mission Specialist Kalpana Chawla (second flight), Mission Specialist David M. Brown (first flight), Mission Specialist Laurel B. Clark (first flight), Payload Specialist Ilan Ramon, Israel (first flight)**
- **Payload: First flight of SPACEHAB Research Double Module; Fast Reaction Experiments Enabling Science, Technology, Applications and Research (FREESTAR); first Extended Duration Orbiter (EDO) mission since STS-90. This 16-day mission is dedicated to research in physical, life, and space sciences, to be conducted in approximately 80 separate experiments, comprised of hundreds of samples and test points. The seven astronauts worked 24 hours a day, in two alternating shifts.**
- **28 flights 1981-2003.**
- **First flight: April 12-14, 1981 (Crew—John W. Young and Robert Crippen)**
- **Most recent flight: STS-109, March 1-12, 2002—Hubble Space Telescope Servicing Mission**
- **Other notable missions: STS-1 through 5, 1981-1982—first flights of Space Shuttle. STS-9, November-December, 1983—first flight of European Space Agency built Spacelab. STS-50, June 25-July 9, 1992—first extended-duration Space Shuttle mission. STS-93, July 1999—placement in orbit of Chandra X-Ray Observatory.**
- **Past mission anomaly: STS-83, April 4-8, 1997. Mission was cut short by Shuttle managers due to a problem with fuel cell No. 2, which displayed evidence of internal voltage degradation after the launch.**



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 11:53:32 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: AOK Statement

Sender: owner-news-chiefs@lists.hq.nasa.gov

NASA Administrator will do a press statement at KSC 1 p.m. EST at KSC. live on NASA TV. This is releasable.

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sat, 1 Feb 2003 13:00:30 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA STATEMENT ON LOSS OF COMMUNICATIONS WITH COLUMBIA  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington Feb. 1, 2003  
(Phone: 202/358-1600)

RELEASE: 03-030

NASA STATEMENT ON LOSS OF COMMUNICATIONS WITH COLUMBIA

A Space Shuttle contingency has been declared in Mission Control, Houston, as a result of the loss of communication with the Space Shuttle Columbia at approximately 9 a.m. EST Saturday as it descended toward a landing at the Kennedy Space Center, Fla. It was scheduled to touchdown at 9:16 a.m. EST.

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More information will be released as it becomes available.

-end-

*Duplicate*

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will

reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 13:19:22 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbearley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: STS 107 Release #2  
Sender: owner-news-chiefs@lists.hq.nasa.gov

 03-031PressConference.doc

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 1, 2003  
1:15 p.m. EST

RELEASE: 03-031

### **NASA PRESS CONFERENCE ANNOUNCED**

A press conference by Space Shuttle Program Manager Ron Dittmore and Chief Flight Director Milt Heflin will take place from NASA's Johnson Space Center, Houston, beginning at 3 p.m. EST today. The briefing will be carried on NASA TV with two-way question and answer capability from other agency centers.

A Space Shuttle contingency was declared earlier this morning in Mission Control when communication was lost with the Space Shuttle Columbia during its return to Earth following a 16-day mission.

Communication and tracking of the shuttle was lost at 9 a.m. at an altitude of about 203,000 feet above north central Texas while traveling approximately 12,500 miles per hour (Mach 18). No communication and tracking information was received in Mission Control after that time.

Flight controllers in Mission Control immediately began the process of securing all information, notes and data pertinent to today's reentry and landing.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees West longitude, 3880 MHz, with audio at 6.8 MHz.

More information will be released as it becomes available. NASA information is available on the Internet at:

**[www.nasa.gov](http://www.nasa.gov)**

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sat, 1 Feb 2003 13:31:39 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA PRESS CONFERENCE ANNOUNCED  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington Feb. 1, 2003  
(Phone: 202/358-1600) 1:15 p.m. EST

RELEASE: 03-031

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www.nasa.gov

-end-

\* \* \*

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the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 14:59:35 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: STS-107 debris  
Sender: owner-news-chiefs@lists.hq.nasa.gov

For your use:

If material believed to be from Space Shuttle Columbia is found, call the Johnson Space Center Emergency Operations Center at: 281/483-3388.  
Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 15:47:14 -0500

To: adiaz@mail.hq.nasa.gov, abutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mnotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: STS-107 release #3

Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI. You all are doing wonders. Much appreciated.



03-032AOKStatement.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 1, 2003  
4 p.m. EST

RELEASE: 03-032

**STATEMENT BY NASA ADMINISTRATOR SEAN O'KEEFE**

"This is indeed a tragic day for the NASA family, for the families of the astronauts who flew on STS-107, and likewise is tragic for the Nation.

"Immediately upon indication of a loss of communications from STS-107, at a little after 9:00 a.m. this morning, we began our contingency plan to preserve all the information relative to the flight activities.

"I immediately advised the President and the Secretary of Homeland Security, Tom Ridge, at the point after landing was due to have occurred at 9:16 a.m., and spoke to them very briefly to advise them that we had lost contact with the Shuttle orbiter, Columbia, and STS-107 crew. They offered, the President specifically offered, full and immediate support to determine the appropriate steps to be taken.

"We then spent the next hour and a half working through the details and information of what we have received and Bill Readdy, Associate Administrator for the NASA Office of Space Flight, will walk you through the specifics of those operational and technical issues.

"We met with the family members of the astronauts who were here at the Kennedy Space Center and are soon to be departing back to the Johnson Space Center in Houston. The President has called and spoken to the family members to express our deepest national regrets. We have assured them that we will begin the process immediately to recover their loved ones and understand the cause of this tragedy.

"We have no indication that the mishap was caused by anything or anyone on the ground.

-more-

"We assembled a Mishap Investigation Team at a point past the stage that the orbiter was to have landed here at Kennedy Space Center a little after 9:30. That team, in turn, is coordinating on a regular basis on all the facts that are pertaining to this from the Johnson Space Center with help from a Rapid Response Team from here at the Kennedy Space Center, as well participants from the Marshall Space Flight Center in Huntsville, Alabama.

"In addition to these internal efforts, we have appointed a Mishap Investigation Board, an external group of people who are independent from NASA who will be charged with the responsibility to look at all the information that was immediately locked down right after the absence of communications.

"Each of these individuals are Safety and Mission Assurance related officials in other departments of the Federal government, from the Air Force, the Navy, the Department of Transportation, and across the federal expanse. This Investigation Team will be chaired by an individual who is external to the federal agencies and will have the responsibility to coordinate all the information from an external view.

"So we'll be conducting both the internal activity as well as the external review immediately to ascertain the causes and circumstances under which this tragedy occurred.

"We have pulled together all the federal agencies and local governments as well. I have been in discussion several times this morning with Secretary Tom Ridge. The effort is under way to coordinate an understanding of exactly where the orbiter path had taken it from West Texas towards the Kennedy Space Center here in Florida and to make sure that the material on the ground is secured so that the investigation can begin promptly.

"We would urge people who believe they have found any material to stay away from it and to please contact local officials. The local first responder groups for emergency services have been authorized and directed by Secretary Tom Ridge to assist in any way. The Federal Emergency Management Agency is coordinating that effort on behalf of the Department of Homeland Security.

"I was here this morning with the families of the astronauts and their friends. It started out as a pretty happy morning, as we awaited the landing of STS-107. We had highly anticipated their return because we couldn't wait to congratulate them for their extraordinary performance and their excellent effort on this very important science mission.

"They dedicated their lives to pushing scientific challenges for all of us here on Earth. They dedicated themselves to that objective and did it with a happy heart, willingly and with great enthusiasm.

"The loss of this valued crew is something we will never be able to get over. We have assured the families that we will do everything, everything we can possibly do to guarantee that we work our way through this horrific tragedy. We ask the members of the media to honor that too. Please respect their privacy and please understand the tragedy that they are going through at this time. We will help the media assure that this will be the case as well.

"We trust the prayers of the Nation will be with them and with their families. A more courageous group of people you could not have hoped to know— an extraordinary group of astronauts who gave their lives—and the families of these crewmembers. They knew exactly the risks. And never, ever did we want to see a circumstance in which this could happen.

"We diligently dedicate ourselves every single day to assuring these things don't occur. And when they do we have to act responsibly, accountably and that is exactly what we will do."

For more information on the Internet:

**[www.nasa.gov](http://www.nasa.gov)**

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sat, 1 Feb 2003 16:10:34 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: STATEMENT BY NASA ADMINISTRATOR SEAN O'KEEFE  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)  
Feb. 1, 2003  
4 p.m. EST

RELEASE: 03-032

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"This is indeed a tragic day for the NASA family, for the families of the astronauts who flew on STS-107, and likewise is tragic for the Nation.

"Immediately upon indication of a loss of communications from STS-107, at a little after 9:00 a.m. this morning, we began our contingency plan to preserve all the information relative to the flight activities.

"I immediately advised the President and the Secretary of Homeland Security, Tom Ridge, at the point after landing was due to have occurred at 9:16 a.m., and spoke to them very briefly to advise them that we had lost contact with the Shuttle orbiter, Columbia, and STS-107 crew. They offered, the President specifically offered, full and immediate support to determine the appropriate steps to be taken.

"We then spent the next hour and a half working through the details and information of what we have received and Bill Readdy, Associate Administrator for the NASA Office of Space Flight, will walk you through the specifics of those operational and technical issues.

"We met with the family members of the astronauts who were here at the Kennedy Space Center and are soon to be departing back to the Johnson Space Center in Houston. The President has called and spoken to the family members to express our deepest national regrets. We have assured them that we will begin the process immediately to recover their loved ones and understand the cause of this tragedy.

"We have no indication that the mishap was caused by anything or anyone on the ground.

"We assembled a Mishap Investigation Team at a point past the stage that the orbiter was to have landed here at Kennedy Space Center a little after 9:30. That team, in turn, is coordinating on a regular basis on all the facts that are pertaining to this from the Johnson Space Center with help from a Rapid Response Team from here at the Kennedy Space



*Dup*

Center, as well participants from the Marshall Space Flight Center in Huntsville, Alabama.

"In addition to these internal efforts, we have appointed a Mishap Investigation Board, an external group of people who are independent from NASA who will be charged with the responsibility to look at all the information that was immediately locked down right after the absence of communications.

"Each of these individuals are Safety and Mission Assurance related officials in other departments of the Federal government, from the Air Force, the Navy, the Department of Transportation, and across the federal expanse. This Investigation Team will be chaired by an individual who is external to the federal agencies and will have the responsibility to coordinate all the information from an external view.

"So we'll be conducting both the internal activity as well as the external review immediately to ascertain the causes and circumstances under which this tragedy occurred.

"We have pulled together all the federal agencies and local governments as well. I have been in discussion several times this morning with Secretary Tom Ridge. The effort is under way to coordinate an understanding of exactly where the orbiter path had taken it from West Texas towards the Kennedy Space Center here in Florida and to make sure that the material on the ground is secured so that the investigation can begin promptly.

"We would urge people who believe they have found any material to stay away from it and to please contact local officials. The local first responder groups for emergency services have been authorized and directed by Secretary Tom Ridge to assist in any way. The Federal Emergency Management Agency is coordinating that effort on behalf of the Department of Homeland Security.

"I was here this morning with the families of the astronauts and their friends. It started out as a pretty happy morning, as we awaited the landing of STS-107. We had highly anticipated their return because we couldn't wait to congratulate them for their extraordinary performance and their excellent effort on this very important science mission.

"They dedicated their lives to pushing scientific challenges for all of us here on Earth. They dedicated themselves to that objective and did it with a happy heart, willingly and with great enthusiasm.

"The loss of this valued crew is something we will never be able to get over. We have assured the families that we will do everything, everything we can possibly do to guarantee

*Dup.*

that we work our way through this horrific tragedy. We ask the members of the media to honor that too. Please respect their privacy and please understand the tragedy that they are going through at this time. We will help the media assure that this will be the case as well.

"We trust the prayers of the Nation will be with them and with their families. A more courageous group of people you could not have hoped to know- an extraordinary group of astronauts who gave their lives-and the families of these crewmembers. They knew exactly the risks. And never, ever did we want to see a circumstance in which this could happen.

"We diligently dedicate ourselves every single day to assuring these things don't occur. And when they do we have to act responsibly, accountably and that is exactly what we will do."

For more information on the Internet:

[www.nasa.gov](http://www.nasa.gov)

*Dup.*

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: k.w.land@express.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Sat, 1 Feb 2003 17:32:43 -0400  
To: Don Savage <dsavage@mail.hq.nasa.gov>  
From: "Kimberly W. Land" <k.w.land@larc.nasa.gov>  
Subject: Media inquiry...  
Cc: Marny Skora <m.m.skora@larc.nasa.gov>

Hi Don,  
The following media outlet wishes to speak to someone regarding today's tragedy.

Imad Musa  
AL JAZERA Television  
202-393-1333

Thanks,  
~ Kimberly  
--

Kimberly W. Land  
Public Affairs Specialist, Office of Public Affairs  
NASA Langley Research Center  
Bldg 1219/Mail Stop 115, Hampton, VA 23681  
Office (757) 864-9885/Fax -6333; cell (757) 344-8611  
<http://www.larc.nasa.gov>

Have a Blessed Day!



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 16:33:40 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: STS-107 Programming  
Sender: owner-news-chiefs@lists.hq.nasa.gov

This may change. Best I know now.

X-Sender: fbrown1@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 15:20:12 -0500  
To: rmirelso@hq.nasa.gov, rjacobs@hq.nasa.gov  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: STS-107 Programming  
Cc: karl bennett <kbennett@hq.nasa.gov>, julie Barry <jbarry@mail.hq.nasa.gov>

Doc-

Here is the NASA TV schedule for Saturday and Sunday:

February 1, Saturday  
STS-107 Crew Photo  
Statement from NASA Administrator Sean O'Keefe  
Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
STS-107 Crew Interviews  
STS-107 Crew Training  
STS-107 Walk out and Suit up  
STS-107 Launch (Replay)  
Individual Photos of STS-107 Crew

February 2, Sunday  
STS-107 Crew Photo  
Statement from NASA Administrator Sean O'Keefe  
Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
STS-107 Crew Interviews  
STS-107 Crew Training  
STS-107 Walk out and Suit up  
STS-107 Launch (Replay)  
Individual Photos of STS-107 Crew

I'll give you the scheduled times as soon as the JSC Briefing ends. Immediately following the Briefing we will put up a memorial graphic and begin playing the scheduled programming approximately 30 minutes later.

Fred

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 16:35:33 -0500  
To: news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: possible language  
Cc: abeutel@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, dbearley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, elvia.thompson@hq.nasa.gov, afeinber@mail.hq.nasa.gov, kherring@mail.hq.nasa.gov, mnotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, rjuhans@hq.nasa.gov, tpengra@mail.hq.nasa.gov  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

X-Sender: rcobb@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 12:48:11 -0500  
To: Doc Mirelson <rmirelso@mail.hq.nasa.gov>  
From: Robert Cobb <rcobb@hq.nasa.gov>  
Subject: possible language

All debris is United States Government property and is critical to the investigation of the shuttle accident. Any and all debris from the accident is to be left alone and reported to Government authorities. Unauthorized persons found in possession of accident debris will be prosecuted to the full extent of the law.

(I know that similar language has already been reported on the news.)

Robert W. Cobb  
Inspector General  
National Aeronautics and Space Administration  
300 E Street, S.W.,  
Washington, DC 20546  
phone: 202-358-1220  
fax: 202-358-2767

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
 X-Sender: fbrown1@mail.hq.nasa.gov  
 X-Priority: 1 (Highest)  
 Date: Sat, 01 Feb 2003 17:02:58 -0500  
 To: code-p@lists.hq.nasa.gov, news-chiefs@lists.hq.nasa.gov,  
 glenn.mahone@hq.nasa.gov, rjacobs@hq.nasa.gov,  
 dmorse@mail.arc.nasa.gov, i.gilman@larc.nasa.gov,  
 jack.dawson@jpl.nasa.gov, k.w.and@larc.nasa.gov,  
 wade.e.sisler.1@gssc.nasa.gov, dbrooks@hq.nasa.gov,  
 daniel.k.carpenter1@jsc.nasa.gov, charris@hq.nasa.gov,  
 mkostelnik@hq.nasa.gov  
 From: Fred Brown <fbrown1@hq.nasa.gov>  
 Subject: Media Services Report 2/1/03  
 Sender: owner-news-chiefs@lists.hq.nasa.gov

**Network:**

ABC News: STS-107 Loss  
 NBC News: STS-107 Loss  
 CBS News: STS-107 Loss  
 FOX News: STS-107 Loss  
 CNN: STS-107 Loss  
 CNN Headline News: STS-107 Loss

**Broadcast&Cable:**

I think I'm safe in writing that every TV station in the United States and around the World with a news operation reported on the loss of our Brothers and Sisters on Space Shuttle Columbia.

\*\*\*\*\*

FYI: February 1, Saturday  
 STS-107 Crew Photo  
 Statement from NASA Administrator Sean O'Keefe  
 Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
 STS-107 Crew Interviews  
 STS-107 Crew Training  
 STS-107 Walk out and Suit up  
 STS-107 Launch (Replay)  
 Individual Photos of STS-107 Crew

February 2, Sunday  
 STS-107 Crew Photo  
 Statement from NASA Administrator Sean O'Keefe  
 Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
 STS-107 Crew Interviews  
 STS-107 Crew Training  
 STS-107 Walk out and Suit up  
 STS-107 Launch (Replay)  
 Individual Photos of STS-107 Crew

The air times for the above will be posted shortly.

Fred

Fred Brown  
 NASA Television  
 Executive Producer

SG-28

Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 17:20:29 -0500

To: adiaz@mail.hq.nasa.gov, abutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: STS 107 release #3

Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

 03-033 ShuttleDebris.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 1, 2003  
5 p.m. EST

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281-483-5111)

RELEASE: 03-033

### **NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION**

NASA has established a telephone hotline and electronic mail address for the public to use for reporting information that may help investigators studying today's Space Shuttle mishap.

Anyone who discovers debris from the accident or who has film or video evidence that may be of value to the investigation team is urged to use these contacts. Please avoid contact with any debris, because it may be hazardous as a result of toxic propellants aboard the Shuttle.

Telephone reports should be directed to the following number:

**281/483-3388**

Text reports and images should be e-mailed to:

**[nasamitimages@jsc.nasa.gov](mailto:nasamitimages@jsc.nasa.gov)**

The e-mail address is:

**[columbiaimages@nasa.gov](mailto:columbiaimages@nasa.gov)**

All debris is U.S. Government property and is critical to the investigation of the mishap. All debris from the accident is to be left alone and reported to Government authorities. Unauthorized persons found in possession of accident debris will be prosecuted to the full extent of the law.

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f
X-Sender: fbrown1@mail.hq.nasa.gov
Date: Sat, 01 Feb 2003 17:23:40 -0500
To: rmirelso@hq.nasa.gov, rjacobs@hq.nasa.gov, news-chiefs@lists.hq.nasa.gov, pao-directors@hq.nasa.gov, rob.navias-1@nasa.gov, eileen.m.hawley@nasa.gov
From: Fred Brown <fbrown1@hq.nasa.gov>
Subject: Fwd: What's Ahead - - NASA TV Schedule 2/1/03
Sender: owner-news-chiefs@lists.hq.nasa.gov

Date: Sat, 01 Feb 2003 17:19:56 -0500
To: whats-ahead@lists.hq.nasa.gov
From: Fred Brown <fbrown1@hq.nasa.gov>
Subject: What's Ahead - - NASA TV Schedule 2/1/03

What's Ahead - NASA TV News and Special Events Schedule:

\*All Programs Are Subject To Change Without Notice/ \*\*All Times Eastern
\*\*\*Sources of NASA TV on the web: http://www.nasa.gov/ntv/ntvweb.html

NASA TV Shuttle Mission Schedule:
http://spaceflight.nasa.gov/realdata/nasatv/schedule.html

Monday - Friday

11:00 a.m. - 12:00 p.m. - Expedition/ISS Commentary - JSC
12:00 - 1:00 p.m. - NASA TV Video-File - HQ (Video-File replays at 3 hour intervals)
Hourly - NASA Vision/Mission Video - HQ

ADD:

February 1, Saturday
\*This programming will begin at 5:30 p.m. EST. and will replay every three hours until further notice.
STS-107 Crew Photo
Statement from NASA Administrator Sean O'Keefe
Shuttle Program Manager/Chief Flight Director Briefing (Replay)
STS-107 Crew Interviews
STS-107 Crew Training
STS-107 Walk out and Suit up
STS-107 Launch (Replay)
Individual Photos of STS-107 Crew

DELETE:

February 3, Monday
\*3:00 p.m. - NASA Budget Press Conference - HQ

\*\*\*\*\*
NOTE: All times Eastern. All programs may be pre-empted without advance notice.
\*\*\*\*\*

NASA TV WEB SITES:
http://www.nasa.gov/ntv/ntvweb.html (Sources of NASA TV on the web)
http://www.nasa.gov/ntv

56-30



<http://www.nasa.gov/ntv/schedule.html>

NASA TV Shuttle Mission Schedule:

<http://spaceflight.nasa.gov/realdata/nasatv/schedule.html>

NASA TV Education File Schedule:

<http://spacelink.nasa.gov/education.file>

-NASA TV-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Sat, 01 Feb 2003 17:28:14 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: STS 107 release # 4

Sender: owner-news-chiefs@lists.hq.nasa.gov

Sorry!

 03-033 ShuttleDebris.doc 1

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

*Duplicate*

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 1, 2003  
5 p.m. EST

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281-483-5111)

RELEASE: 03-033

### **NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION**

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**[nasamitimages@jsc.nasa.gov](mailto:nasamitimages@jsc.nasa.gov)**

The e-mail address is:

**[columbiaimages@nasa.gov](mailto:columbiaimages@nasa.gov)**

All debris is U.S. Government property and is critical to the investigation of the mishap. All debris from the accident is to be left alone and reported to Government authorities. Unauthorized persons found in possession of accident debris will be prosecuted to the full extent of the law.

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sat, 1 Feb 2003 17:30:31 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington Feb. 1, 2003  
(Phone: 202/358-1600) 5 p.m. EST

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281-483-5111)

RELEASE: 03-033

NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION

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The e-mail address is:  
columbiaimages@nasa.gov

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-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type

*Handwritten note:* Dup.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 22:50:59 -0500  
To: news-chiefs@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: Live Shot Line Up  
Cc: pao-directors@hq.nasa.gov  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

X-Sender: fbrown1@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 22:43:44 -0500  
To: glenn.mahone@hq.nasa.gov, pclegget@hq.nasa.gov, rjacobs@hq.nasa.gov  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: Live Shot Line Up  
Cc: rmirelso@hq.nasa.gov, Trish Pengra <tpengra@hq.nasa.gov>, karl bennett <kbennett@hq.nasa.gov>, julie Barry <jbarry@mail.hq.nasa.gov>

Glenn-

Attached is the latest line-up for Sunday and Saturday. I'm still waiting on a call back from CBS to schedule an interview on Face The Nation and any special programming they are doing with Dan Rather.

Fred  
Fred Brown  
NASA Television  
Executive Producer  
Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell

 STS-107 Loss Live-Shots.doc

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

## **STS-107 CREW LOSS LIVE-SHOT LINE UP**

### **Sunday Feb. 2**

**8:04 – 8:15 a.m. (Sean O’Keefe)**

**NBC Sunday Today**

**Either David Bloom or Soledad O’Brien will conduct interview**

**Producer Amy Chiaro**

**Control Room 212 664-3009**

**8:25 – 8:35 a.m. (Sean O’Keefe)**

**ABC This Week with George Stephanopolis (Pre-Tape)**

**Producer Andrea Owen or John O’Leary**

**Control Room 202/222-3700 or 202/222-7100**

**8:35 – 8:45 a.m. (Sean O’Keefe)**

**Fox News Sunday with Tony Snow (Pre-Tape)**

**Producer Rick Dibella**

**Control Room 202/824-6449**

**IFB 202/824-6430**

**8:45 – 9:00 a.m. (Sean O’Keefe)**

**CNN with Miles O’Brien**

**Producer Dave Santucci 404-272-0842**

**Control Room 404/827-1411**

**IFB 404/827-3581**

**9:00 – 9:25 a.m. (Sean O’Keefe)**

**NBC Meet the Press with Tim Russet**

**Producer Betsy Smith**

**Control Room 202/885-4390**

**11:30 a.m. (Sean O’Keefe (Back-up Bill Readdy and/or Fred Gregory)**

**60 Minutes (Pre-Tape)**

**Producer Harry Radcliffe 917/208-5880**

**Control Room**

**5:30 p.m. (Fred Gregory and Bill Readdy)**

**Fox News Channel**

**Producer Elizabeth Rhodes 202/824-6544**

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**Control Room 888 364-3342 pin#3471  
IFB 888/369-0774  
Sunday Evening Feb. 2**

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**9:00 p.m. (Fred Gregory and Bill Readdy)  
CNN Larry King Live (Hugh Downs)  
Producer Barbara Berti**

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**Control Room 202/236-0407 (Magritte Thompson)**

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**Monday Feb. 3**

**6:45 – 6:55 a.m. (Sean O’Keefe)  
NBC Today Show (Pre-Tape)  
Producer Chad Parks  
Control Room 885-4390**

**7:05 – 7:15 a.m. (Sean O’Keefe)  
ABC’s Good Morning America  
Interview will be conducted by Charles Gibson in Houston or Dianne  
Sawyer in New York  
Producer Melinda Aarons  
Control Room 212/930-7900**

**9:30 a.m. (Fred Gregory)  
Fox News Channel  
Producer Elizabeth Rhodes 202/824-6544  
Satellite Scheduling 212/301-3400  
Booking Eric Spinapo 212/301-5155**

**1:35 p.m. (Bill Readdy)  
Fox News Channel  
Producer Elizabeth Rhodes 202/824-6544  
Satellite Scheduling 212/301-3400  
Booking Eric Spinapo 212/301-5155**

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the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.



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X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sat, 01 Feb 2003 23:59:25 -0500  
To: news-chiefs@hq.nasa.gov, abeutel@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, elvia.thompson@hq.nasa.gov, afeinber@mail.hq.nasa.gov, kherring@mail.hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, rjuhans@hq.nasa.gov, tpengra@mail.hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: Bios  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

X-Sender: rjacobs@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 01 Feb 2003 23:56:21 -0500  
To: Jennifer Wood <jwood@hq.nasa.gov>, Robert Mirelson <rmirelso@hq.nasa.gov>  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: Bios



Mishap Bios 0202.doc

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

## SPACE SHUTTLE ACCIDENT INVESTIGATION BOARD

**Admiral Harold W. Gehman, Jr.**, U.S. Navy retired, completed more than 35 years of active duty in October 2000. His last assignment was as NATO's Supreme Allied Commander, Atlantic, and as the Commander in Chief of the U.S. Joint Forces Command, one of the five U.S. Unified Commands.

Immediately after retiring, Admiral Gehman served as Co-chairman of the department of Defense review of the terrorist attack on the USS Cole. Admiral Gehman graduated from Pennsylvania State University with a BS in Industrial Engineering and a commission in the Navy from the Naval ROTC program. He served at all levels of leadership and command and was promoted to four-star admiral in 1996. He became the 29<sup>th</sup> Vice Chief of Naval Operations in Sept. 1996. As Vice Chief he was a member of the Joint Chiefs of Staff, he formulated the Navy's \$70 billion budget and developed and implemented policies governing the navy's 375,000 personnel.

**Rear Admiral Stephen A. Turcotte** is the Commander, Naval Safety Center, Norfolk, Va. Rear Admiral Turcotte was born in Patuxent River, Md. and grew up in Grand Rapids, Mich. He graduated from Marquette University NROTC with a Bachelor of Science degree in Political Science in December 1975. He received his commission upon graduation, was ordered to flight training, and was designated a Naval Aviator in June 1977. Admiral Turcotte was then assigned to VS-41 at NAS North Island, Calif., for replacement training in the S-3A "Viking." He next reported to VS-21 at NAS North Island and deployed to the Western Pacific/Indian Ocean aboard USS KITTY HAWK (CV-63) during the Iranian Hostage Crisis.

**Maj. Gen. John L. Barry** is Director, Plans and Programs, Headquarters Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio. General Barry is a 1973 honor graduate of the U.S. Air Force Academy. He graduated from Fighter Weapons School, and was a test and evaluation pilot at Nellis Air Force Base, Nev. He was selected as a White House fellow at NASA during the Challenger mishap, and he served as the Military Assistant to the Secretary of Defense during operations Desert Shield and Desert Storm, and during the dissolution of the Soviet Union. He has commanded an Air Force fighter squadron, and in a combat zone, a fighter operations group and a composite wing. He served as commander of Air Force units, where he led the recovery of a wing following the Blackhawk helicopter shoot down at Incirlik Air Base, Turkey.

**Maj. Gen. Kenneth W. Hess** is the Air Force Chief of Safety, Headquarters U.S. Air Force, Washington, D.C., and Commander, Air Force Safety Center, Kirtland Air Force Base, N.M. General Hess entered the Air Force in 1969 through Officer Training School at Lackland Air Force Base, Texas, and has extensive staff experience at Headquarters U.S. Air Force, the Joint Staff and U.S. Pacific Command. He has commanded three Air Force wings: 47th Flying Training Wing, 374th Airlift Wing and 319th Air Refueling Wing. Prior to assuming his current position, General Hess was Commander of 3rd Air Force, Royal Air Force Base, Mildenhall, England. He is a command pilot with more than 4,200 hours in various aircraft.

**Dr. James N. Hallock Chief**, Aviation Safety Division. The Aviation Safety Division was created within the Transportation Safety Institute in 1963 to support the national program efforts and initiatives of the Federal Aviation Administration (FAA). The Aircraft Accident Investigation and Aviation Safety training programs promote aviation safety by training accident investigators and aviation safety professionals. The Institute supports FAA, Department of Defense, International countries, and the Interagency Committee for Aviation Policy's efforts to reduce death, injury, and property damage caused by aircraft accidents and incidents.

**Steven Wallace** is the Director of Accident Investigation for the FAA. Wallace oversees all FAA aircraft accident investigations and all activities related to the National Transportation Safety Board. Wallace has been a licensed pilot since 1977.

**Bryan D. O'Connor**, Associate Administrator for Safety and Mission Assurance, has functional responsibility for the safety, reliability, maintainability and quality assurance of all NASA programs. After the Challenger was lost, O'Connor was given a number of safety and management assignments over the next three years as the Space Agency recovered from the disaster. As a member of the Astronaut Corps, he has 386 hours in space covering nearly six million miles in 253 orbits of the earth.

**Theron M. Bradley Jr.**, NASA Chief Engineer, is responsible for the overall review and technical readiness of all NASA programs. Bradley develops efforts and mission operations planned and conducted on a sound engineering basis and provides an integrated focus for agency-wide engineering policies, standards and practices.

**Scott Hubbard**, NASA Ames Research Center Director, is responsible for the organization and oversight of Ames' research efforts. Hubbard has been a contributor to, and the developer of, space research missions since 1974.

**Brig. Gen. Duane W. Deal** is Commander, 21st Space Wing, Peterson Air Force Base, Colo. The Air Force's largest wing geographically and organizationally, the wing consists of a work force of more than 6,000 officer, enlisted, civilian and contract employees. This work force provides missile warning and space control for combat forces and the governments of the United States, Canada and the United Kingdom through its 35 units operating 14 space weapon systems at 20 worldwide locations in six countries spread across 10 time zones.

Date: Sun, 2 Feb 2003 01:47:02 -0500 (EST)  
From: Aviation Week BIS <intelligence@aviationnow.com>  
To: m.m.skora@larc.nasa.gov  
Subject: Aerospace Daily (ASCII) - Feb 1, 2003

Aviation Week's AEROSPACE DAILY SPACE SHUTTLE SPECIAL LINK  
February 1, 2003  
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Aerospace Daily subscribers: Aviation Week's AviationNow.com is publishing a special report on the loss of the Space Shuttle Columbia, including information on the shuttle and a look at the ramifications for the nation's space program and the International Space Station. To see the report, please go to <http://www.AviationNow.com/sts107>.

Further reports on the tragedy and its aftermath will appear in Aerospace Daily, beginning with the issue dated Feb. 4. Meanwhile, on Monday, Feb. 3, Aerospace Daily's regular edition appears, along with a six-page special report prepared over the weekend on the federal budget. This schedule was developed to accommodate the public release of the federal budget, which is set for 9 a.m. EST Feb. 3.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sun, 02 Feb 2003 07:29:58 -0500  
To: news-chiefs@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: 2/1/03, STS107 activities NASA HQ - Images Posted  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

X-Sender: bingalls@mail.hq.nasa.gov  
Date: Sun, 2 Feb 2003 01:41:26 -0500  
To: Recipient List Suppressed;  
From: Bill Ingalls <bingalls@hq.nasa.gov>  
Subject: 2/1/03, STS107 activities NASA HQ - Images Posted

Images have been posted from NASA Headquarters - February 1, 2003

All captions are embedded in each high resolution file. Please check that file info for caption and credit line.

Images are posted at:

[ftp://ftp.hq.nasa.gov/pub/pao/images/paoimages/sts\\_107/20030201\\_sts107\\_nasahq/](ftp://ftp.hq.nasa.gov/pub/pao/images/paoimages/sts_107/20030201_sts107_nasahq/)

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Please direct any questions about these directories to me.

Thank You -  
Bill  
202.358.1742  
--

Bill Ingalls  
Project Lead/Photographer

NASA Headquarters, Code PM  
300 E ST., SW  
Washington, DC 20546

phone: 202.358.1742  
fax: 202.358.4333  
email: bingalls@hq.nasa.gov

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sun, 2 Feb 2003 08:40:36 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA ANNOUNCES SPACE SHUTTLE COLUMBIAACCIDENT INVESTIGATION BOARD (THE GEHMAN BOARD)  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington February 2, 2003  
(Phone: 202/358-1898/1600)

RELEASE: 03-034

NASA ANNOUNCES SPACE SHUTTLE COLUMBIA  
ACCIDENT INVESTIGATION BOARD (THE GEHMAN BOARD)

NASA Administrator Sean O'Keefe today announced the members of the Space Shuttle Mishap Interagency Investigation Board, which will provide an independent review of the events and activities that led up to the tragic loss of the seven astronauts Saturday on board the Space Shuttle Columbia.

The board's first meeting is scheduled for tomorrow at Barksdale Air Force Base in Louisiana.

Retired U.S. Navy Admiral Harold W. Gehman, Jr., who co-chaired the independent commission that investigated the attack on the U.S.S. Cole in Aden, Yemen, Oct. 12, 2000, and once served as the commander-in-chief of U.S. Joint Forces Command, will chair the panel.

"While the NASA family and the entire world mourn the loss of our colleagues, we have a responsibility to quickly move forward with an external assessment to determine exactly what happened and why," said Administrator O'Keefe. "We're honored to have such a distinguished panel of experts, led by Admiral Gehman."

Other members of the investigative board includes:

- \* Rear Admiral Stephen Turcotte, Commander, U.S. Naval Safety Center, Norfolk, Va.
- \* Major General John L. Barry, Director, Plans and Programs, Headquarters Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio
- \* Major General Kenneth W. Hess, Commander, U.S. Air Force Chief of Safety, Kirtland Air Force Base, N.M.
- \* Dr. James N. Hallock, Aviation Safety Division Chief, U.S. Department of Transportation, Cambridge, Mass.
- \* Steven B. Wallace, Director of Accident Investigation, Federal Aviation Administration, Washington
- \* Brigadier General Duane Deal, Commander 21st Space Wing, Peterson Air Force Base, Colo.

Several senior NASA leaders also will be a part of the panel, including G. Scott Hubbard, Director, NASA Ames Research Center, Moffett Field, Calif. Bryan D. O'Connor, NASA Associate Administrator and former astronaut, Office of Safety and Mission Assurance, Headquarters, will serve as Ex-Officio Member, and Theron Bradley, Jr., NASA Chief Engineer, NASA Headquarters, Washington, will be Executive Secretary.

"We need to be responsible, accountable, and extremely thorough in this investigation," added Administrator O'Keefe. "This panel is charged with a most difficult task, but I am confident in their ability, their integrity, and their dedication to doing what's right. Their findings will help push America's space program successfully into the future."

"Currently, NASA is beginning an internal investigation, drawing on the extensive expertise throughout the agency. Public officials for NASA, the Federal Emergency Management Agency, and other federal, state, and local entities are coordinating talents to help find the cause of this tragedy," concluded Administrator O'Keefe

Additional information about the investigation and the STS-107 mission is available on the Internet at:

<http://www.nasa.gov>

<http://spaceflight.nasa.gov>

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

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Date: Sun, 02 Feb 2003 08:45:03 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: STS 107 release #5

Sender: owner-news-chiefs@lists.hq.nasa.gov

Mishap board info. Released 08:30 a.m.



03-034 Mishap Board.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600



Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1898/1600)

*Duplicate*

February 2, 2003

RELEASE: 03-034

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- Major General Kenneth W. Hess, Commander, U.S. Air Force Chief of Safety, Kirtland Air Force Base, N.M.
- Dr. James N. Hallock, Aviation Safety Division Chief, U.S. Department of Transportation, Cambridge, Mass.
- Steven B. Wallace, Director of Accident Investigation, Federal Aviation Administration, Washington
- Brigadier General Duane Deal, Commander 21<sup>st</sup> Space Wing, Peterson Air Force Base, Colo.

-more-

*Duplicate*

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<http://www.nasa.gov>

<http://spaceflight.nasa.gov>

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
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 X-Priority: 1 (Highest)  
 Date: Sun, 02 Feb 2003 09:58:38 -0500  
 To: code-p@lists.hq.nasa.gov, news-chiefs@lists.hq.nasa.gov, glenn.mahone@hq.nasa.gov, rjacobs@hq.nasa.gov, dmorse@mail.arc.nasa.gov, i.gilman@larc.nasa.gov, jack.dawson@jpl.nasa.gov, k.w.and@larc.nasa.gov, wade.e.sisler.1@gssc.nasa.gov, dbrooks@hq.nasa.gov, daniel.k.carpenter1@jsc.nasa.gov, charris@hq.nasa.gov, mkostelnik@hq.nasa.gov  
 From: Fred Brown <fbrown1@hq.nasa.gov>  
 Subject: Media Services Report 2/2/03  
 Sender: owner-news-chiefs@lists.hq.nasa.gov

**Network:**

ABC News: STS-107 Loss  
 NBC News: STS-107 Loss  
 CBS News: STS-107 Loss  
 FOX News: STS-107 Loss  
 CNN: STS-107 Loss  
 CNN Headline News: STS-107 Loss

**Broadcast&Cable:**

No change from yesterday. Channel to channel coverage. Also, in scheduling Live-Shots many of our broadcast clients have expressed their condolences.

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FYI: washingtonpost.com  
 Networks Struggle With Another Day of Anguish  
 By Tom Shales

Sunday, February 2, 2003; Page A03

By early yesterday afternoon, TV pictures showing the last moments of the space shuttle Columbia had been shown over and over again, too many times to count -- but such is the tradition of national tragedies covered on live television. It's as if the images have to be seen repeatedly to be believed.

"They now go into the national archive if you will, into the museum of our minds," said Dan Rather of CBS News as the pictures were replayed. "These images become part of our national history, part of our national memory."

This was the most traumatic day for America and American television since the terrorist attacks of Sept. 11, 2001, but it was more likely to evoke memories of the Challenger disaster of 1986.

When the Challenger exploded shortly after takeoff, live TV cameras clearly showed the spacecraft exploding and becoming a ball of fire. But most video of the Columbia was from a great distance and showed mainly a vapor trail across the sky, with the Columbia suddenly growing eerily bright, like a star, as pieces of it flew off into the air.

On a day when the network news departments were at low manpower levels, they were nevertheless forced by precedent to go into marathon coverage once it was realized the Columbia was in peril. Scrambling for video when little was available, the

59-42

networks played what tape they did have ad nauseam, even though anchor Peter Jennings of ABC News told viewers his network would try not to "exploit" the tragedy with excessive repetition.

As the day wore on, the networks called in correspondents, eyewitnesses and assorted experts and used models and graphics to tell the story -- sometimes enterprising, sometimes desperate, sometimes insensitive.

Rather was the first of the "big three" anchors to show up on the air, just before 10:30 a.m., when he joined "Early Show" co-anchor Russ Mitchell. Surprisingly, though, CBS was also the first to end coverage. At 4 p.m., to Rather's seeming displeasure, the network cut away from a NASA press briefing to carry the scheduled Bob Hope Chrysler Golf Classic.

CBS opted out of public service to honor its contract with the Professional Golfers' Association. And commercials, which had been suspended all day, poured forth.

A PGA statement expressing "grief for today's tragic loss of the Columbia crew" was posted perfunctorily on the screen at the start of the broadcast. Then sports anchor Bill Macatee fatuously told viewers, "It's almost fitting that we will spend the next couple of hours at an event that bears the name of a legendary entertainer who saw us through so many difficult times during his marvelous career, Bob Hope."

His partner Lanny Wadkins said each golfer would be playing "with a heavy heart." And for a hefty purse. It was a big black eye for CBS.

The first televised hint that something was amiss with the shuttle's reentry after 16 days in orbit may have been seen on MSNBC, the cable channel that was apparently the only network planning to cover the landing live. An MSNBC reporter waiting at the Florida landing site was probably the first to tell viewers that communication with the shuttle had been lost.

Jennings had to travel by car from a distant point on Long Island to ABC News headquarters in New York and appeared on the air just before noon. Bill Blakemore, the correspondent who filled in, was not up to the job, peering at viewers over his reading glasses.

Tom Brokaw of NBC News, vacationing in the Bahamas, was expected to fly back to anchor the network's evening coverage.

Meanwhile, Brian Williams, heir apparent to Brokaw as NBC anchor, did a first-rate job of heading up NBC coverage through much of the day. Williams was the most dramatic -- sometimes melodramatic -- of the anchors. Jennings was the driest and, in his shirtsleeves, the most casual. Rather was, not unpredictably, the most emotional, his voice breaking and his eyes misting when, just after 11:30 a.m., he quoted an unnamed senior White House official as saying the Columbia was definitely lost and that there was "no hope" any of its seven-member crew had survived.

Rather called for a moment of silence, and CBS cut to a still photo of the Columbia crew, smiling and suited up for the adventure that would end in catastrophe. Until that moment, no network quite wanted to come right out and say definitively that the Columbia had vanished; there was no official word from NASA, which announced an 11:30 press conference that didn't begin until after 1 p.m. Until the official word came from the agency, NBC ran such cautious captions on the screen as "NASA loses contact with Space Shuttle Columbia" and "NASA Declares Emergency." A

typical CBS caption: "Debris Found in Texas."

But the Fox News Channel (FNC) headlined the story "Space Shuttle Apparently Disintegrates over Texas." Fox was guilty of re-running the shuttle footage the most times of any network, over and over throughout the morning until it became video "wallpaper." Few correspondents were seen on the air, and it looked as if the network had been caught short and was unable to get its cameras running. It was not competitive with its chief rival, the older and more respected CNN.

One of Fox's resident pundits, Tony Snow, took a moment to praise President Bush two hours before Bush made his brief address to the nation. "This is a man who feels the pangs of human tragedy very deeply," Snow declared, calling Bush "someone who does have a very good sense of how to minister to people in a time like this." Snow even compared Bush to the great communicator, Ronald Reagan, whose memorable remarks after the Challenger were quoted on all the networks yesterday.

Bush appeared just after 2 p.m., grim and grave, to tell viewers: "The Columbia is lost. There are no survivors." He spoke solemnly of the tragedy and said that although the crew did not return to Earth, "they are all safely home." Even Jennings, who almost never shows emotion on the air, appeared touched by the president's remarks. In contrast to Bush's words of solace and reassurance, Rather quoted reactions from citizens of Baghdad, some of whom he said expressed happiness over the tragedy, calling it "God's retribution on Americans."

Over on CNN, at about the same time, Judy Woodruff was trumpeting the imminent arrival of Walter Cronkite, who preceded Rather in the CBS anchor chair and covered early space missions for the network. "His name literally became synonymous with NASA," Woodruff said.

But Cronkite never appeared. Only his voice was heard via telephone hook-up. "We're committed to space," he said. Most anchors and correspondents refrained from premature criticism of NASA or conjecture about the agency's future, but Lynn Sher of ABC News said, "It's another chink in our armor," and asked rhetorically, "How do we get back to where we have faith in the program again?" Whose faith was she talking about -- hers?

Other correspondents and NASA spokesmen pointed out that the agency's safety record is actually quite good considering the number of missions flown. Americans only seem to notice the missions that end in tragedy.

But then those are the ones that get the marathon coverage on television. Sen. Kay Bailey Hutchison (R-Tex.) happened to hear the sonic booms from the Columbia's disintegration and spoke on more than one network. She ended her interview with Rather on CBS by commending him: "Dan, thank you for the coverage. We certainly appreciate all you are going through and appreciate what you're doing."

Earlier in the day, however, Rather suffered the indignity of an insult from a crank caller pretending to be an eyewitness to the tragedy. After describing sights that could have been seen on TV, the caller suddenly said, "You're a real idiot, you know that?" CBS cut him off. Unflappably, Rather said, "It is true I'm an idiot, but that's beside the point," and then apologized to viewers for allowing the caller to get through. "It was a mistake on our part," he said, then without a blink went on with his coverage.

ABC News was making plans for an expanded, two-hour edition of its Sunday morning "This Week" show, and also, a spokesman said, summoning the cast and crew of "Good

Morning, America" back from Turkey, where GMA had planned to originate starting Monday morning. Instead, Charles Gibson will report from Houston and Diane Sawyer from New York.

There were technical glitches and awkward pauses on all the networks during yesterday's coverage, but it was another case of the networks rising to the challenge of informing and in some ways comforting a nation during a day of national anguish -- the kind of day that seems to arrive with increasing, and dismaying, frequency. There is, perhaps, a down side to being the best-informed people on the face of the Earth.

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Fred Brown  
NASA Television  
Executive Producer  
Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sun, 2 Feb 2003 11:00:40 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: FY 2004 BUDGET PRESS BRIEFING POSTPONED  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson/Sarah Keegan  
Headquarters, Washington February 2, 2003  
(Phone: 202/358-1600)

RELEASE: 03-035

FY 2004 BUDGET PRESS BRIEFING POSTPONED

As a result of the events involving the tragic loss of the Space Shuttle Columbia (STS-107) crew, the press briefing scheduled for the rollout of the new Fiscal Year (FY) 2004 budget, is postponed to a later date.

The budget press conference was originally scheduled for 3 p.m. EST, Monday, Feb. 3, at NASA Headquarters in Washington. A new briefing date has not been set.

However, supporting materials for NASA's FY2004 Budget proposal will be available via links on the Internet after 3 p.m. EST on Feb. 3 at:

<http://www.nasa.gov>

or

Detailed budget information will be directly available at:

<http://www.nasa.gov/about/budget/>

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second

SG-43

automatic message will include additional information on the service.  
NASA releases also are available via CompuServe using the command  
GO NASA. To unsubscribe from this mailing list, address an E-mail  
message to domo@hq.nasa.gov, leave the subject blank, and type only  
"unsubscribe press-release" (no quotes) in the body of the message.



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
Date: Sun, 02 Feb 2003 11:00:59 -0500  
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: Fwd: RE: PAO for Investigations Board  
Sender: owner-news-chiefs@lists.hq.nasa.gov

I've asked JSC to pull together a short info and contact sheet of the two field locations being used by the investigative bodies.

Ed Campion, if you could include this contact information as part of that sheet, it would be greatly appreciated.

bj

From: Hudkins Teresa GS-14 NORAD/USNORTHCOM/PA  
<Teresa.Hudkins@PETERSON.af.mil>  
To: "'Robert Jacobs'" <rjacobs@hq.nasa.gov>  
Cc: Newberry Stan SES AFSPC/NASA <Stan.Newberry@PETERSON.af.mil>  
Subject: RE: PAO for Investigations Board  
Date: Sun, 2 Feb 2003 15:57:04 -0000  
X-Mailer: Internet Mail Service (5.5.2653.19)

Hi Bob,

Col Bob Williams, PA director for Air Combat Command, headquartered at Langley AFB, has responsibility for Barksdale AFB. His contact info is robert.williams@langley.af.mil; (757) 764-5471.

Tech. Sgt. Barb Levine is PAO at Barksdale, (318) 456-1378.

If you need anything, give us a call.

-t.

-----Original Message-----

From: Robert Jacobs [<mailto:rjacobs@hq.nasa.gov>]  
Sent: Sunday, February 02, 2003 8:34 AM  
To: Hudkins Teresa GS-14 NORAD/USNORTHCOM/PA  
Subject: Re: PAO for Investigations Board

Dwayne Brown. He's on his way to Barksdale.

At 03:29 PM 2/2/2003 +0000, you wrote:

>Hi Bob, when you "come up for air" please let me know who is PAO for  
>investigation board. We're identifying the PAO for DoD side. thanks,  
>--Terri

>-----Original Message-----

>From: Robert Jacobs [<mailto:rjacobs@hq.nasa.gov>]

>Sent: Sunday, February 02, 2003 6:48 AM  
>To: Teresa.Hudkins@PETERSON.af.mil  
>Subject: Fwd: STS 107 release #5  
>  
>  
>  
> >X-Sender: rmirelso@mail.hq.nasa.gov  
> >X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
> >Date: Sun, 02 Feb 2003 08:45:03 -0500  
> >To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov,  
> > rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov,  
> > rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov,  
> > dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov,  
> > elvia.thompson@hq.nasa.gov,  
> > ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov,  
>fbrown1@hq.nasa.gov,  
> > gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov,  
> > hprince@hq.nasa.gov, jwood@hq.nasa.gov,  
kbennett@mail.hq.nasa.gov,  
> > kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov,  
> > mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov,  
> > news-chiefs@hq.nasa.gov,  
> > pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov,  
> > pclegget@hq.nasa.gov,  
> > rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
> >From: Robert Mirelson <rmirelso@hq.nasa.gov>  
> >Subject: STS 107 release #5  
> >  
> >Mishap board info. Released 08:30 a.m.  
> >  
> >  
> >Doc Mirelson  
> >Chief, NASA News & Imaging  
> >(202) 358-4495/1600

X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sun, 02 Feb 2003 11:45:24 -0500  
To: Marny Skora <m.m.skora@larc.nasa.gov>  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Re: PAO COORD

I don't believe so. i am looking at doing a telecon daily if necessary.  
At 11:25 2/2/2003 -0500, you wrote:

Doc--

We are here and willing to help in any way we can. LaRC is not on PAO Coord, but we are need to know the latest. Can we call in to the tag-up?

marny

Pending meeting lengths, we're shooting for a PA COORD tag up today at noon EST.  
JSC will update us on activities, and we will look at staffing.

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sun, 2 Feb 2003 13:10:30 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA PRESS CONFERENCES ANNOUNCED  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington Feb. 2, 2003  
(Phone: 202/358-1600) 1:00 p.m. EST

RELEASE: 03-036

NASA PRESS CONFERENCES ANNOUNCED

A press conference by Space Shuttle Program Manager Ron Dittmore and the Director of Flight Crew Operations, Bob Cabana will take place from NASA's Johnson Space Center, Houston, at 4:30 p.m. EST today. The briefing will be carried on NASA TV with limited two-way question and answer capability from other agency centers.

NASA is planning two-per-day press briefings starting Monday, Feb. 3, 2003. There will be a daily press briefing from NASA Headquarters, 300 E Street SW, Washington, at 11:30 a.m. EST and at 4:30 p.m. EST from the Johnson Space Center. Senior NASA officials will participate in the press briefings.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

More information will be released as it becomes available. NASA information is available on the Internet at:

[www.nasa.gov](http://www.nasa.gov)

-end-

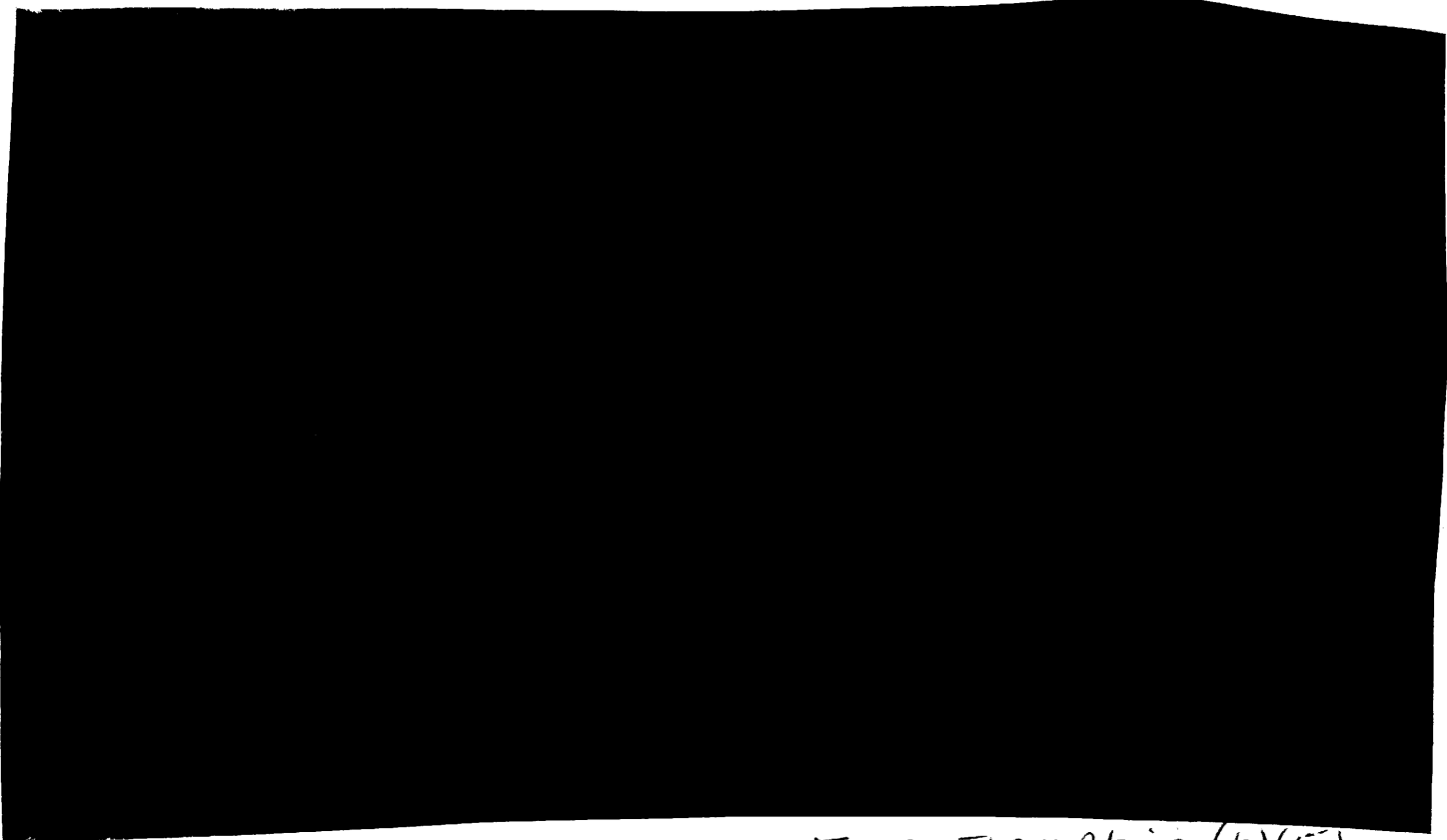
\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

To: d.c.freeman@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Suggested words of condolence  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

---



FOIA Exemption (b)(5)

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Sun, 2 Feb 2003 15:23:01 -0500  
To: ethames <ethames@mail.hq.nasa.gov>  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Astronaut Memorial Services  
Cc: M.P.FINNERAN@larc.nasa.gov, Marny Skora <M.M.SKORA@larc.nasa.gov>, M.PITTS@larc.nasa.gov

Evelyn Thames, Director Public Services Division, HQ Office of Public Affairs / Code P, 202-358-1719

Evelyn,

Thanks for offering to call me back after your 4 p.m. telecon today. Following are the e-mailed questions as you suggested.

Do you plan any type of memorial for all NASA employees? Among possible options might be if you plan to televise the Washington Cathedral Service to all NASA centers so that they could watch or remotely participate.

Do you plan to televise the Thursday service to all centers?

Do you plan any permanent memorial (perhaps too early to plan given the coming services)?

Do you plan, when, will you release an outline of the planned events: JSC and HQ?

Thus far, I understand:

Tuesday: JSC service on JSC property. Probably outside.

Thursday: Washington Cathedral service. Either nondenominational or having representatives of all three faiths (Hindu, Christian, Jewish). Open to all badged NASA employees (no retirees, no families), Presidents/CEO's of the aerospace community and some # of employees per company or organization, Congress, the White House, and International Community such as ambassadors and heads of space agencies. No event planned jointly with the community. NASA HQ will plan this event and invite others as just noted.

Please correct and let me know anything else that might help us in determining what we do at LaRC.

Thanks Evelyn,

Karen

--  
\*\*\*\*\*  
Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

Launch Package Manager - JSC  
12:00 - 12:30 p.m. - NASA TV Video-File - HQ  
12:30 - 1:30 p.m. - EVA Briefing W/Glenda Laws, STS-114 Lead EVA Officer - JSC  
1:30 - 2:30 p.m. - Expedition 7 Increment Overview W/Merri Sanchez, Expedition 7 Increment Manager Vic Cooley, Expedition 7 Increment Scientist, Carmen Price, MSFC Payload Operations Director - JSC  
2:30 - 3:30 p.m. - Expedition 7 Increment Crew News Conference W/Yuri Malenchenko, Expedition 7 Commander Ed Lu, Expedition 7 ISS Science Officer Alexander Kaleri, Expedition 7 Flight Engineer - JSC  
3:30 - 4:30 p.m. - STS-113/Expedition 7 Mission Crew News Conference W/Eileen Collins, Commander Jim Kelly, Pilot Soichi Noguchi, Mission Specialist 1 Steve Robinson, Mission Specialist 2 Yuri Malenchenko, Expedition 7 Commander Ed Lu, Expedition 7 ISS Science Officer Alexander Kaleri, Expedition 7 Flight Engineer - JSC

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This Week:

February 2, Sunday

\*4:30 p.m. - Shuttle Program Manager/Chief Flight Director Briefing - JSC  
\*5:30 p.m. - Live Interview from NASA Headquarters - HQ  
\*6:00 p.m. - STS-107 Special Programming (replays every three hours) - HQ  
STS-107 Crew Photo  
Statement from NASA Administrator Sean O'Keefe  
Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
STS-107 Crew Interviews  
STS-107 Crew Training  
STS-107 Walk out and Suit up  
STS-107 Launch (Replay)  
Individual Photos of STS-107 Crew  
\*9:00 p.m. - Live Interview from NASA Headquarters - HQ

February 3, Monday

\*6:00 - 10:00 a.m. - Live Interviews from NASA Headquarters - HQ  
\*11:30 a.m. - NASA Headquarters STS-107 Daily Press Briefing (briefing will be held daily until further notice) - HQ  
\*4:30 p.m. - NASA STS-107 Daily Press Briefing from the Johnson Space Center (briefing will be held daily until further notice) - JSC

February 4, Tuesday

9:00 a.m. - Progress 10 Docking to ISS Coverage - JSC

February 6, Thursday

TBD - NASA Education Program Special Event - HQ  
1:00 p.m. - Space Science Update - HQ

February 7, Friday

5:00 -10:00 a.m. - Live Interviews on "MAP" - GSFC  
3:00 - 7:00 p.m. - Live Interviews on "Black History Month On Mars" - JPL

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Future Programs:

February 12, Wednesday

3:00 - 7:00 p.m. - Live Interviews on the "Dinosaur Asteroid Crater 3-D Image" - JPL

February 13, Thursday

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-whats-ahead using -f  
X-Sender: fbrown1@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Sun, 02 Feb 2003 15:41:02 -0500  
To: whats-ahead@lists.hq.nasa.gov  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: What's Ahead - - NASA TV Schedule 2/2/03  
Sender: owner-whats-ahead@lists.hq.nasa.gov

**What's Ahead - NASA TV News and Special Events Schedule:**

\*All Programs Are Subject To Change Without Notice/ \*\*All Times Eastern  
\*\*\*Sources of NASA TV on the web: <http://www.nasa.gov/ntv/ntvweb.html>

NASA TV Shuttle Mission Schedule:  
<http://spaceflight.nasa.gov/realdata/nasatv/schedule.html>

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Monday - Friday

**11:00 a.m. - 12:00 p.m.** - Expedition/ISS Commentary - JSC  
**12:00 - 1:00 p.m.** - NASA TV Video-File - HQ (Video-File replays at 3 hour intervals)  
**Hourly** - NASA Vision/Mission Video - HQ

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ADD:

February 2, Sunday

\*4:30 p.m. - Shuttle Program Manager/Chief Flight Director Briefing - JSC  
\*5:30 p.m. - Live Interview from NASA Headquarters - HQ  
\*6:00 p.m. - STS-107 Special Programming (replays every three hours as time permits) - HQ  
STS-107 Crew Photo  
Statement from NASA Administrator Sean O'Keefe  
Shuttle Program Manager/Chief Flight Director Briefing (Replay)  
STS-107 Crew Interviews  
STS-107 Crew Training  
STS-107 Walk out and Suit up  
STS-107 Launch (Replay)  
Individual Photos of STS-107 Crew  
\*9:00 p.m. - Live Interview from NASA Headquarters - HQ

February 3, Monday

\*6:00 - 10:00 a.m. - Live Interviews from NASA Headquarters - HQ  
\*11:30 a.m. - NASA STS-107 Daily Press Briefing (briefing will be held daily until further notice) - HQ  
\*4:30 p.m. - NASA STS-107 Daily Press Briefing from the Johnson Space Center (briefing will be held daily until further notice) - JSC

DELETE:

February 14, Friday

STS-114 Briefings:  
8:30 - 9:30 a.m. - ISS Overview W/Bill Gerstenmaier, ISS Program Manager - JSC  
9:30 - 11:00 a.m. - Mission Overview W/Bryan Austin, Lead STS-114 Shuttle Flight Director Mark Ferring, Lead STS-114 ISS Flight Director - JSC  
11:00 a.m. - 12:00 p.m. - ULF-1 Launch Package Overview W/Floyd Booker, STS-114



3:00 - 7:00 p.m. - Live Interviews on "JPL's Mechanical Woman" with Dr. Ayanna Howard  
-- JPL

February 19, Wednesday

3:00 - 7:00 p.m. - Live Interviews on "Biologically Inspired Intelligent Robots" -  
JSC

-----  
March

TBD - SIRTf mission & science press briefing - HQ  
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April 14, Monday

TBD - SIRTf pre-launch Press Briefing - KSC

April 15, Tuesday

TBD - SIRTf Launch Coverage - KSC

April 25, Friday

8:00 a.m. - 4:00 p.m. - STS-115 Preflight Briefings - JSC  
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\*\*\*\*\*  
NOTE: All times Eastern. All programs may be pre-empted without advance notice.  
\*\*\*\*\*

NASA TV WEB SITES:

<http://www.nasa.gov/ntv/ntvweb.html> (Sources of NASA TV on the web)

<http://www.nasa.gov/ntv>

<http://www.nasa.gov/ntv/schedule.html>

NASA TV Shuttle Mission Schedule:

<http://spaceflight.nasa.gov/realdata/nasatv/schedule.html>

NASA TV Education File Schedule:

<http://spacelink.nasa.gov/education.file>

-NASA TV-

Fred Brown  
NASA Television  
Executive Producer  
Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Sun, 2 Feb 2003 16:03:05 -0500  
To: M.PITTS@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,  
Marny Skora <M.M.SKORA@larc.nasa.gov>  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: JSC Memorial Service  
Cc: k.r.credeur@larc.nasa.gov

I talked with Dan Carpenter, Director, Public Affairs, JSC (Mike's counterpart, JSC's organization is called Public Affairs instead of External Affairs) 281-483-3671, 281-483-5111.

They are meeting at 5 p.m. today (Sunday) to plan their Tuesday program. Meeting will last a good hour. He suggested I call back about 6:30 CDT (7:30 EST). Thus far, he can say the following:

The program will be roughly 11:45 a.m. or noon on Tuesday. Modeled after Challenger program. 20-30 minutes max. President Bush and the Administrator will speak, unsure yet about whether any one else. A missing-man formation will pass overhead. The program will be televised to all centers.

--

\*\*\*\*\*  
Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov  
\*\*\*\*\*

SG-52

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sun, 2 Feb 2003 16:40:32 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA MEMORIAL SERVICE SCHEDULED AT JOHNSON SPACE CENTER  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington February 2, 2003  
(Phone: 202/358-1898/1600)

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

RELEASE: 03-37

**NASA MEMORIAL SERVICE SCHEDULED AT JOHNSON SPACE CENTER**

The President and Mrs. George W. Bush will join NASA Administrator Sean O'Keefe Tuesday afternoon in paying tribute to the brave heroes of the Space Shuttle Columbia crew during a special memorial service at the NASA Johnson Space Center in Houston.

The ceremony to honor NASA astronauts Rick Husband, William McCool, Michael Anderson, Kalpana Chawla, David Brown, Laurel Clark, and Israeli astronaut Ilan Ramon is scheduled to begin at 12:45 p.m. EST in the Central Mall area behind Building One. Gates are scheduled to open at 10 a.m.

This is a private ceremony for family members, friends, and invited guests, along with NASA employees and contractors. The service will be carried live on NASA Television and available on the Internet at [www.nasa.gov](http://www.nasa.gov).

Media access to the memorial service will be restricted with television and still photography access provided on a pool basis.

NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees West longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about the STS-107 crew and the Space Shuttle Columbia is available on the Internet at <http://spaceflight.nasa.gov>.

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail

message to domo@hq.nasa.gov, leave the subject blank, and type only  
"unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Sun, 2 Feb 2003 17:11:34 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: HANDLE SPACE SHUTTLE DEBRIS WITH CAUTION  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington                      February 2, 2003  
(Phone: 202/358-4495)

RELEASE: 03-038

HANDLE SPACE SHUTTLE DEBRIS WITH CAUTION

Debris from the Space Shuttle Columbia may be dangerously contaminated with toxic substances and cause serious injury if handled. Individuals who think they may have come in contact with Shuttle debris should take a shower with soap and water and then seek medical attention.

Individuals are advised to avoid all additional contact with the suspected Shuttle material. Clothing that may have come in contact with the suspected debris should be removed with care to avoid skin contact with cloth that may have been contaminated. Place the clothing in a plastic bag for later analysis.

If your physician has any questions, please have him or her contact the NASA Emergency Action Center at 281/483-3388.

More information is available on the Internet at:

<http://www.nasa.gov/columbia/>

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Sun, 2 Feb 2003 17:47:19 -0500  
To: <AHostetler@timesdispatch.com>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: STS-114 and Stephen Robinson  
Cc: m.m.skora@larc.nasa.gov

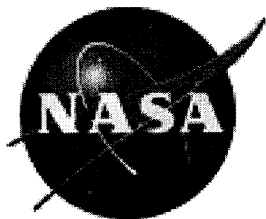
AJ, I don't think so. Marny do you have anything to add? Typically when someone from a center goes into the astronaut corps they leave their old life behind, except for friends, etc. They move to Houston and take it from there. If they are payload or mission specialists they would continue to draw on the experience and professional network that qualified them, so there could well be continued contact professionally. It would depend, too, on who it was, what their expertise was, etc. So I guess it depends on what you mean by "connections."

Mike

At 10:44 PM -0500 2/1/03, <AHostetler@timesdispatch.com> wrote:

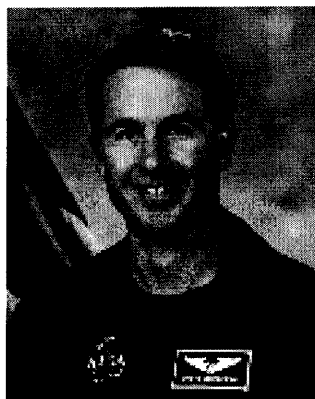
Marny, Mike: Does Stephen Robinson still have connections with Langley?

Thanks,  
A.J. Hostetler  
Science Writer  
Richmond Times-Dispatch  
P.O. Box 85333  
Richmond, VA 23293  
[ahostetler@timesdispatch.com](mailto:ahostetler@timesdispatch.com)  
804-649-6355 (o)  
804-775-8059 (fax)



National Aeronautics and Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas 77058



**Biographical Data**

**STEPHEN K. ROBINSON (PH.D.)**  
**NASA ASTRONAUT**

**PERSONAL DATA:** Born October 26, 1955, in Sacramento, California. Unmarried. Enjoys flying, antique aircraft, swimming, canoeing, hiking, music, art, and stereo photography. Plays lead guitar in Max Q, a rock-n-roll band. His parents, William and Joyce Robinson, reside in Moraga, California.

**EDUCATION:** Graduated from Campolindo High School, Moraga, California, 1973; Bachelor of Science degree in mechanical/aeronautical engineering from University of California at Davis, 1978; Master of Science degree in mechanical engineering from Stanford University, 1985; Doctorate in mechanical engineering, with a minor in aeronautics and astronautics from Stanford University, 1990.

**ORGANIZATIONS:** American Institute of Aeronautics and Astronautics, Aerospace Medical Association, Experimental Aircraft Association.

**SPECIAL HONORS:** NASA Ames Honor Award for Scientist (1989); American Institute of Aeronautics and Astronautics Outstanding Technical Paper Award for Applied Aerodynamics (co-author) (1992); NASA/Space Club G.M. Low Memorial Engineering Fellowship (1993).

**EXPERIENCE:** Robinson started work for NASA in 1975 as a student co-op at NASA's Ames Research Center in Mountain View, California. After graduation from University of California at Davis, he joined NASA Ames in 1979 as a research scientist in the fields of fluid dynamics, aerodynamics, experimental instrumentation, and computational scientific visualization. While at Ames, Robinson earned masters and doctorate degrees in mechanical engineering at Stanford University, with research emphasis in turbulence physics, and additional research in human eye dynamics. In 1990, Robinson was selected as Chief of the Experimental Flow Physics Branch at NASA's Langley Research Center in Hampton, Virginia, where he led a group of 35 engineers and scientists engaged in aerodynamics and fluid physics research. In 1993, Robinson was awarded the NASA/Space Club Low Memorial Engineering Fellowship, and was assigned for 15 months to the Massachusetts Institute of Technology (MIT) as Visiting Engineer in the Man Vehicle Laboratory (MVL). As an MVL team-member, he conducted neurovestibular research on astronauts on the Spacelab Life Sciences 2 Shuttle mission (STS-58). Other MIT research included EVA dynamics for satellite capture and space construction. While in Cambridge, Massachusetts, Robinson was also a visiting scientist at the U.S. Department of Transportation's Volpe National Transportation Systems Center, doing research on environmental modeling for flight simulation, cockpit human factors for GPS-guided instrument approach procedures, and moving-map displays. Robinson returned to NASA Langley in September 1994, where he accepted a dual assignment as research scientist in the Multidisciplinary Design Optimization Branch, and as leader of the Aerodynamics and Acoustics element of NASA's General Aviation Technology program. Robinson has logged over 1400 hours in aircraft ranging from antique taildraggers to NASA jets.

**NASA EXPERIENCE:** Dr. Robinson was selected as an astronaut in December 1994, and reported to the Johnson Space Center in March 1995. He completed a year of training and evaluation and was assigned to test space shuttle control software in the Shuttle Avionics Integration Laboratory (SAIL).

In September 1996, Dr. Robinson was assigned to begin training for shuttle mission STS-85 as Mission Specialist #3. STS-85 (August 7-19, 1997) was a 12-day mission during which the crew deployed and retrieved the CRISTA-SPAS payload, operated the Japanese Manipulator Flight Demonstration (MFD) robotic arm, studied changes in the Earth's atmosphere and tested technology destined for use on the future International Space Station. Robinson's responsibilities on STS-85 included flying both the shuttle robot arm and the experimental Japanese robot arm, and serving as a contingency EVA crewmember. The mission was accomplished in 189 Earth orbits, traveling 4.7 million miles in 284 hours and 27 minutes.

In September 1997, Dr. Robinson was assigned for two months as Astronaut Office representative for flight crew equipment. Robinson was then assigned to the Computer Support Branch of the Astronaut Office, with responsibility for new projects, including a kneeboard computer for ascent/entry use.

In January 1997, Robinson was assigned to mission STS-95 as Payload Commander. STS-95 (October 29 to November 7, 1998) was a 9-day science mission during which the crew supported over 80 payloads,

including deployment of the Spartan solar-observing spacecraft, the Hubble Space Telescope Orbital Systems Test Platform, and investigations on space flight and the aging process with crew member John Glenn. As prime operator of the shuttle's robot arm, Robinson deployed and retrieved the Spartan satellite. The mission was accomplished in 134 Earth orbits, traveling 3.6 million miles in 213 hours and 44 minutes.

In February 1999, Robinson was assigned as the Astronaut Office representative for the Space Station Robot Arm and also as a Capcom (Capsule Communicator), functioning as the voice link between space shuttle crews and Mission Control.

In July 1999, Robinson was assigned as backup crew member for the Space Station Expedition 4 crew. In August 2001, he was assigned to the crew of STS-114/Utilization and Logistics Flight (ULF-1), scheduled to launch in early 2003.

Flying on STS-85 in 1997 and STS-95 in 1998, Dr. Robinson has logged over 497 hours in space.

JANUARY 2003

Attachment converted: Macintosh HD:meatball.gif (GIFf/ogle) (00030BF6)  
Attachment converted: Macintosh HD:robinson.gif (GIFf/ogle) (00030BF7)  
Attachment converted: Macintosh HD:Notebook.jpg (JPEG/ogle) (00030BF8)

--  
Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>



X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Sun, 2 Feb 2003 18:02:05 -0500  
To: m.m.skora@larc.nasa.gov  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: photos

Marny, fyi, I asked Jeff C. to take a photo of the little memorial that seems to be growing outside the front gate, for use at least in RN.

If you haven't thought of it yet you should begin lining up people who can talk (if allowed) about the following:

- Superlightweight external tank
- Composites and Materials
- Aerodynamics
- Aerothermodynamics
- Shuttle tires
- Shuttle tiles
- Role in investigation with comparison to past events such as 587, etc.
- Anything else ???

We may well not want to put these folks forward but we should be prepared, and at least have the list.

Again, you and your folks have done a GREAT job. The feedback is impressive.

Thanks.

Mike

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,  
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, j.j.meehan@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Thanks  
Cc: m.p.finneran@larc.nasa.gov, k.r.credeur@larc.nasa.gov  
Bcc:  
X-Attachments:

---

Thanks to all who helped us get through this difficult event -- those who came in over the weekend as well as those of you who offered to help. Everyone played a role -- either on Center or by telephone.

Keith has done a masterful job as Center spokesperson --both explaining the Center's contributions to Shuttle and current capabilities as well as assisting Mark Saunders in explaining technical issues for our questioning media.

Thanks to Margarette for coming in to manage the telephones and for providing information as it became available. Without her organization and communication skills in seeing to contingency details for each and every mission, we would not have been prepared to respond so quickly.

Kathy has been invaluable in badging and escorting media, mining the Internet for background information, being everywhere at the same time.

Thanks to Kim for helping with the technical aspects of the news briefings and arranging for taping of news reports.

And to Jim Meehan for making his folks available if needed, for his technical expertise and for having anyone's and everyone's phone number available.

Finally, special thanks to Leslie, Wes and his folks -- but that's another e-mail.

It's not over by any means, but this office has accomplished an impressive effort. Thank you.

marny

To: L.C.ROSS@LaRC.NASA.GOV, L.D.CREWE@LaRC.NASA.GOV  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Many thanks  
Cc: m.p.finneran@larc.nasa.gov, k.r.creueur@larc.nasa.gov,  
h.k.henry@larc.nasa.gov  
Bcc:  
X-Attachments:

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Lillian and Larry--

Please forward my thanks and that of everyone in the Office of External Affairs for the support offered Saturday and today. Wes and his crew made themselves immediately available to support news events as a result of the loss of Space Shuttle Columbia.

We were able to participate in briefings and the Q&A portion was flawless.

Special thanks to Leslie Elliott who responded immediately to Saturday morning's call, opened the Reid Conference Center and brought up the appropriate electronics to support news operations.

The contract was quick to provide anything requested. Crewestone is to be congratulated for a job well done.

Many thanks,

marny

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Sun, 2 Feb 2003 19:22:37 -0500  
To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,  
Public Services Offic:Public Services Offic:@larc.nasa.gov,  
;;J.J.MEEHAN@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Update on JSC memorial

Dan Carpenter JSC Director Public Affairs (Mike's counterpart) told me the latest on the memorial service on Tuesday.

Time noon CDT (1 p.m. EST) Tuesday 2/4/03  
Planning uplink to all NASA Centers so each center can show live to employees  
Service about 20 minutes (want to keep it short)  
Order not yet decided but I will get it tomorrow afternoon 3-4:30 p.m.  
Planning AF band, Color Guard  
Planning possible Navy choral group. Ask to sign "God of our Fathers" a favorite Pres. Bush hymn  
President Bush, Administrator O'Keefe, and Kent Rominger (Head of Astronaut Corps) will speak  
Inviting White House, HQs, few from all centers, leaders from Fed., State, Community on site at JSC  
employees (CS & contractors) invited  
3 chaplains (Hindu, Christian, Jewish) if White House allows

Karen

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Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

\*\*\*\*\*

59-60

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Sun, 2 Feb 2003 19:25:11 -0500  
To: larc+colloq@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Affect Colloq Press Conf? JSC memorial  
Cc: Marny Skora <M.M.SKORA@larc.nasa.gov>, J.J.MEEHAN@larc.nasa.gov,  
Kim Land <k.w.land@larc.nasa.gov>

| The below might impact the press conference for the Colloquium Tuesday.? Karen

Date: Sun, 2 Feb 2003 19:22  
To: L.R.RICH@LaRC.NASA.GOV, M.PITTS@LaRC.NASA.GOV, Marny Skora  
<M.M.SKORA@LaRC.NASA.GOV>, M.P.FINNERAN@LaRC.NASA.GOV, Public Services  
Offic:c.w.cleghorn@larc.nasa.gov, D.E.GAUSE@LaRC.NASA.GOV,  
C.L.Hancock@LaRC.NASA.GOV, g.s.langevin@larc.nasa.gov, d.g.lawson@larc.nasa.gov,  
P.J.VERNIEL@LaRC.NASA.GOV, S.C.WEST@LaRC.NASA.GOV,  
E.E.FENNER@LaRC.NASA.GOV;J.J.MEEHAN@LaRC.NASA.GOV  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Update on JSC memorial

Dan Carpenter JSC Director Public Affairs (Mike's counterpart) told me the latest on the memorial service on Tuesday.

Time noon CDT (1 p.m. EST) Tuesday 2/4/03  
Planning uplink to all NASA Centers so each center can show live to employees  
Service about 20 minutes (want to keep it short)  
Order not yet decided but I will get it tomorrow afternoon 3-4:30 p.m.  
Planning AF band, Color Guard  
Planning possible Navy choral group. Ask to sign "God of our Fathers" a favorite Pres. Bush hymn  
President Bush, Administrator O'Keefe, and Kent Rominger (Head of Astronaut Corps) will speak  
Inviting White House, HQs, few from all centers, leaders from Fed., State, Community on site at JSC  
employees (CS & contractors) invited  
3 chaplains (Hindu, Christian, Jewish) if White House allows

*Dup.*

Karen

--  
\*\*\*\*\*  
Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov  
\*\*\*\*\*

*SG-61*

Date: Sun, 02 Feb 2003 19:30:55 -0500  
Subject: Re: Affect Colloq Press Conf? JSC memorial  
From: Duncan McIver <dmciver@teccenter.org>  
To: Karen Credeur <k.r.credeur@larc.nasa.gov>, <larc+colloq@larc.nasa.gov>  
CC: Marny Skora <M.M.SKORA@larc.nasa.gov>, <J.J.MEEHAN@larc.nasa.gov>, Kim Land <k.w.land@larc.nasa.gov>, "Arlene S. Levine" <a.s.levine@larc.nasa.gov>

Karen,

Thanks and we should also give some thought to the Sigma in the evening. I am copying Arlene on this. At least a moment of silence.

Duncan

On 2/2/03 7:25 PM, "Karen Credeur" <k.r.credeur@larc.nasa.gov> wrote:

>> The below might impact the press conference for the Colloquium  
>> Tuesday.? Karen  
>  
>  
>  
>> Date: Sun, 2 Feb 2003 19:22  
>> To: L.R.RICH@LaRC.NASA.GOV, M.PITTS@LaRC.NASA.GOV, Marny Skora  
>> <M.M.SKORA@LaRC.NASA.GOV>, M.P.FINNERAN@LaRC.NASA.GOV, Public  
>> Services Offic:c.w.cleghorn@larc.nasa.gov, D.E.GAUSE@LaRC.NASA.GOV,  
>> C.L.Hancock@LaRC.NASA.GOV, g.s.langevin@larc.nasa.gov,  
>> d.g.lawson@larc.nasa.gov, P.J.VERNIEL@LaRC.NASA.GOV,  
>> S.C.WEST@LaRC.NASA.GOV,  
>> E.E.FENNER@LaRC.NASA.GOV;J.J.MEEHAN@LaRC.NASA.GOV  
>> From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
>> Subject: Update on JSC memorial  
>>  
>>  
>> Dan Carpenter JSC Director Public Affairs (Mike's counterpart) told  
>> me the latest on the memorial service on Tuesday.  
>>  
>> Time noon CDT (1 p.m. EST) Tuesday 2/4/03  
>> Planning uplink to all NASA Centers so each center can show live to employees  
>> Service about 20 minutes (want to keep it short)  
>> Order not yet decided but I will get it tomorrow afternoon 3-4:30 p.m.  
>> Planning AF band, Color Guard  
>> Planning possible Navy choral group. Ask to sign "God of our  
>> Fathers" a favorite Pres. Bush hymn  
>> President Bush, Administrator O'Keefe, and Kent Rominger (Head of  
>> Astronaut Corps) will speak  
>> Inviting White House, HQs, few from all centers, leaders from Fed.,  
>> State, Community  
>> on site at JSC  
>> employees (CS & contractors) invited  
>> 3 chaplains (Hindu, Christian, Jewish) if White House allows  
>>  
>> Karen

*Dup.*


*SG-62*

X-Sender: m.m.skora@express.larc.nasa.gov  
Date: Wed, 5 Mar 2003 11:51:23 -0500  
To: c.w.cleghorn@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Fwd: Corrected copy

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sun, 02 Feb 2003 19:49:44 -0500  
To: news-chiefs@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Corrected copy  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

 03-039\_Claims.doc

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\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-4495)

February 24, 2003

RELEASE: 03-039

### **NASA ANNOUNCES PROCEDURE FOR FILING DAMAGE CLAIMS**

NASA is accepting claims from individuals who may have suffered damage due to the Space Shuttle Columbia mishap. NASA is coordinating with the Federal Emergency Management Agency to address claims that require immediate action. Any person desiring to file a claim should complete U.S. Government Standard Form 95, "Claim for Damage, Injury, or Death" and send it to the closest of these NASA offices:

Office of the Chief Counsel  
NASA Johnson Space Center  
Mail Code: AL  
2101 NASA Road 1  
Houston, TX 77058  
(281) 483-3021

Office of the General Counsel  
NASA Headquarters  
Mail Code: G  
300 E St., SW  
Washington, DC 20546  
(202) 358-2450

Office of Chief Counsel  
NASA Stennis Space Center  
Mail Code: CA00  
Building 1100  
Stennis Space Center, MS 39529  
(228) 688-2164

For more information on filing a claim, including downloadable forms, go to:

[www.hq.nasa.gov/ogc/general\\_law/torttext.htm](http://www.hq.nasa.gov/ogc/general_law/torttext.htm)

-end-



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Sun, 02 Feb 2003 21:27:04 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: FEMA's press release  
Sender: owner-news-chiefs@lists.hq.nasa.gov

X-Sender: tpengra@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sun, 02 Feb 2003 21:00:22 -0500  
To: rmirelso@hq.nasa.gov, rjacobs@hq.nasa.gov  
From: Trish Pengra <tpengra@hq.nasa.gov>  
Subject: FEMA's press release

From: "Kolton, Chad" <Chad.Kolton@fema.gov>  
To: "'tpengra@hq.nasa.gov'" <tpengra@hq.nasa.gov>  
Subject:  
Date: Sun, 2 Feb 2003 21:01:22 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

---

Trish Pengra  
Director, Program Operations Division  
NASA Office of Public Affairs  
Washington, DC 20546  
202 358 2585

 02-02-03 -- update fema release

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600



Federal Emergency Management Agency

# NEWS

Office of Public Affairs, Washington, D.C. 20472  
[www.fema.gov/media](http://www.fema.gov/media)

(202) 646-4600

**Media Contact:**  
**Chad Kolton, 202-646-4600**

**Release number : 02-029**  
**Release Date: February 2, 2003**

## **FEMA PUTS FEDERAL RESOURCES INTO ACTION TO ASSIST STATE AND LOCAL AUTHORITIES IN SEARCH, FIND AND SECURE MISSION FOR *COLUMBIA* DEBRIS**

Following President Bush's declaration of an emergency in Texas and Louisiana yesterday, the Federal Emergency Management Agency (FEMA) has begun coordinating the deployment of federal resources to assist state and local authorities in the search, find and secure effort for debris of the space shuttle *Columbia*.

"Our principal mission today is to assist the state and local authorities with this search, find and secure mission," said FEMA Deputy Director Michael Brown. "Federal resources will be put to use to map the debris fields and specially-trained teams will be deployed to those sites to begin collecting the debris as quickly as possible."

FEMA has coordinated the following activities:

- An Interagency Initial Operating Facility (IOF) has been established at Barksdale Air Force Base in Louisiana. Representatives from NASA, FEMA, the Federal Bureau of Investigation (FBI), the Environmental Protection Agency (EPA) and the Department of Defense have assembled there to coordinate response activities.
- FBI, EPA, the Department of Transportation, the General Services Administration and the Department of Defense have assigned liaisons to FEMA's Regional Operations Center in Denton, TX. FEMA has assigned state liaisons to the Texas State Emergency Operations Center and the State Command Post in Lufkin, TX.
- Two Disaster Field Offices (DFOs) are in the process of being established in Lufkin, Texas, and at the Barksdale Air Force Base in Louisiana. The Lufkin DFO will serve as the primary operational DFO for all operations, including staging assets and deploying field teams for search, find and secure operations. Barksdale Air Force Base in Louisiana will serve as the investigative center and storage location.
- Special Mobile Emergency Response Systems (MERS) communications equipment has been deployed to Lufkin, Texas.
- EPA has deployed HAZMAT teams to collect debris, mobilized Airborne Spectral Photo-Imaging of Environmental Contaminants Technology (ASPECT) aircraft to help locate debris using infrared sensors to detect hazardous chemicals and deployed the Trace Atmospheric Gas Analyzer Unit to provide mobile analytical support.
- The U.S. Coast Guard has deployed members of its Gulf Strike Team, based in Mobile, Alabama, to Lufkin to assist with debris recovery operations there. One of three located throughout the country, Gulf Strike Team personnel are specially trained and equipped to respond to incidents involving oil or hazardous chemical spills.

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# NASA Shuttle Status

National Aeronautics and  
Space Administration



Lyndon B. Johnson Space Center  
Houston, Texas 77058  
281/483-5111

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## **MISSION CONTROL CENTER STATUS REPORT #20 STS-107 Accident Response Sunday, Feb. 2, 2003 – 7:30 p.m. CST**

Aided by federal and local agencies, NASA stepped up its inquiry into the loss of the Space Shuttle Columbia and its seven astronauts. Multiple investigative teams continue to pore over engineering data in an effort to uncover the cause of the breakup of the orbiter over Texas on Saturday 16 minutes from landing.

Space Shuttle Program Manager Ron Dittmore told an afternoon briefing that a Mishap Response Team is gathering data from numerous engineering teams in the early stages of the investigation and is receiving assistance from the Federal Emergency Management Agency, National Transportation Safety Board, Federal Bureau of Investigation, local law enforcement agencies, and others.

Dittmore said that as Commander Rick Husband, Pilot William McCool, Mission Specialists Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Israeli Payload Specialist Ilan Ramon are mourned, the recovery of debris and human remains is being coordinated at Barksdale Air Force Base, La.

Dittmore thanked residents in the areas where debris fell after Columbia's breakup for cooperating in the recovery effort but cautioned them not to handle debris that could contain toxic substances.

Dittmore reconstructed the final minutes of Columbia's flight before communications was lost. He reiterated the failure of four temperature sensors associated with the Shuttle's left hand elevons at 7:53 a.m. CST Saturday amidst a 20-30 degree rise in left hand bondline and strut temperatures over a five-minute period near the left wheel well of the orbiter. Columbia was flying over California at the time at an altitude of about 220,000 feet traveling 21 times the speed of sound.

One minute later, over the region of eastern California and western Nevada, Columbia's mid-fuselage bondline temperatures above the left wing experienced an unusual temperature increase. It rose 60 degrees over a five-minute period. No such temperature increase was noted on the right side of Columbia or in the Shuttle's cargo bay. Columbia was about 212,000 feet above the Earth, flying at Mach 20.

NASA Johnson Space Center Mission Status Reports and other information are available automatically by sending an Internet electronic mail message to [majordomo@listserver.jsc.nasa.gov](mailto:majordomo@listserver.jsc.nasa.gov). In the body of the message (not the subject line) users should type "subscribe" (no quotes). This will add the email address that sent the subscribe message to the news release distribution list. The system will reply with a confirmation via E-mail of each subscription. Once you have subscribed you will receive future news releases via e-mail.

At 7:58 a.m. over New Mexico, telemetry showed a larger than normal drag on the left side of the Shuttle, and an indication of an increase in pressure in the left main landing gear tires. Dittmore said the data suggests the tires remained intact. Columbia's altitude was 209,000 feet.

At 7:59 a.m. over west Texas, the data showed Columbia continuing to react to an increased drag on its left side, trying to correct the movement by rolling back to the right. Dittmore said the response of the orbiter was well within its capability to handle such maneuvers.

Seconds before 8 a.m., CST, all communications was lost with Columbia as it flew at an altitude of 207,000 feet, 18 times the speed of sound.

Dittmore indicated that ground computers may contain an additional 32 seconds of data which could provide additional information in the analysis of Columbia's breakup.

He added the loss of some foam insulation from Columbia's external fuel tank, which struck the Shuttle's left wing about 80 seconds after launch, was "inconsequential" based on video imagery review conducted by engineering specialists. However, he said nothing has been ruled out as a possible cause for the accident.

Robert Cabana, the Director of Flight Crew Operations at the Johnson Space Center, relayed thanks from the families of the astronauts for the outpouring of support received from around the nation and the world.

Cabana said the Expedition 6 crewmembers aboard the International Space Station are "grieving" for the loss of Columbia's crew, but are in good spirits as they continue human spaceflight and scientific research aboard the orbital outpost. Cabana said Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit are preparing for Tuesday's arrival of a Russian Progress cargo ship. Progress-10 was launched this morning from the Baikonur Cosmodrome in Kazakhstan.

On Tuesday, Feb. 4, President and Mrs. Bush will join NASA Administrator Sean O'Keefe at the Johnson Space Center to pay tribute to Columbia's astronauts during a special memorial service. The ceremony to honor Columbia's seven crewmembers is scheduled to begin at 1 p.m. EST and will be broadcast on NASA Television. The service is not open to the public.

The next STS-107 Accident Response briefings are on Monday, Feb. 3 at NASA Headquarters in Washington at 11:30 a.m. EST and at the Johnson Space Center at 4:30 p.m. EST. Status reports will be issued as developments warrant.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Mon, 03 Feb 2003 08:17:21 -0500  
To: adiaz@mail.hq.nasa.gov, abutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mnotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: FW: For Press Release: A Message from the Families of Columbia  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI and to use as appropriate.

From: "NAVIAS, ROB (JSC-AP141) (NASA)" <rob.navias-1@nasa.gov>  
To: "'rjacobs@hq.nasa.gov'" <rjacobs@hq.nasa.gov>, "HERRING, KYLE J. (JSC-AP131) (NASA)" <kyle.j.herring@nasa.gov>, "'rmirelso@hq.nasa.gov'" <rmirelso@hq.nasa.gov>  
Subject: FW: For Press Release: A Message from the Families of Columbia  
Date: Mon, 3 Feb 2003 06:56:56 -0600  
X-Mailer: Internet Mail Service (5.5.2653.19)

> -----Original Message-----

> From: PARAZYNSKI, SCOTT E. (JSC-CB) (NASA)  
> Sent: Monday, February 03, 2003 6:47 AM  
> To: WEST, PHILIP R. (JSC-AP151) (NASA); PETERSON, DOUGLAS D. (DOUG) (JSC-CB) (NASA); HAWLEY, EILEEN M. (JSC-AP131) (NASA); NAVIAS, ROB (JSC-AP141) (NASA)  
> Subject: For Press Release: A Message from the Families of Columbia

> Phil et al,

> Here is the statement we spoke of this morning. Please distribute for the families. Feel free to contact me if you have any questions. Thanks,

> Scott

> cellular: 713-822-2559

> <<A STATEMENT FROM THE FAMILIES OF COLUMBIA.doc>>

> Scott Parazynski, MD  
> Chief, Astronaut Office EVA Branch

> NASA-Johnson Space Center

> Mail Code CB  
> Houston, TX 77058  
>  
> Building 4S/6218  
> Email: scott.e.parazynski1@jsc.nasa.gov  
> Office: 281-244-8879  
> Pager: 281-434-5387  
> Fax: 281-244-8873  
>



A STATEMENT FROM THE FAMILIES O

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

**A STATEMENT FROM THE FAMILIES OF COLUMBIA**

On January 16th, we saw our loved ones launch into a brilliant, cloud-free sky. Their hearts were full of enthusiasm, pride in country, faith in their God, and a willingness to accept risk in the pursuit of knowledge --- knowledge that might improve the quality of life for all mankind. Columbia's 16-day mission of scientific discovery was a great success, cut short by mere minutes ---- yet it will live on forever in our memories. We want to thank the NASA family and people from around the world for their incredible outpouring of love and support. Although we grieve deeply, as do the families of Apollo 1 and Challenger before us, the bold exploration of space must go on. Once the root cause of this tragedy is found and corrected, the legacy of Columbia must carry on --- for the benefit of our children and yours.

Approved by:

Robert Cabana/CA/Director, Flight Crew Operations  
Feb. 3, 2003

To: j.r.roberts@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: ACTION: Administrator's message  
Cc: h.k.henry@larc.nasa.gov, m.p.finneran@larc.nasa.gov  
Bcc:  
X-Attachments:

---

Jim--

Please post the Administrator's message to employees on RN On Line ASAP. You might run it under the crew photo.

marny

---

A MESSAGE TO THE NASA FAMILY:

The Loss of Columbia and Its Courageous Crew

The loss of the courageous crew of STS-107 and of the Space Shuttle Columbia has brought tragedy to the NASA family, to the families of these seven heroes and to our Nation.

Our thoughts and prayers are with the families of seven remarkable individuals -- Rick Husband, William McCool, Mike Anderson, Dave Brown, Kalpana Chawla, Laurel Clark and Ilan Ramon. These explorers performed magnificently and with tremendous spirit on this mission to expand our scientific horizons.

The bond between those who venture into the frontier of space, and those who make spaceflight possible is incredibly strong. Accordingly, our grief is unbearably great. But so is our resolve to do everything we possibly can for the families of the Columbia crew to find out what caused this accident, and to move on to correct what problems we find and make sure this never happens again. We owe them that.

To honor the Columbia crew and the family members who have borne their personal grief with tremendous dignity and courage, President Bush will join us for a memorial service at the Johnson Space Flight Center on Tuesday, February 4, at 12 noon. All badged NASA employees are welcome to attend this event. There will also be a memorial service on Thursday, February 6, at Washington's National Cathedral at 1:00 p.m.

Our nonstop work to recover from this terrible tragedy also honors the astronauts and their families. That work, which began the minute we realized that Columbia and its crew would not safely return home, will be NASA's chief focus in the days and weeks ahead, along with the continued safe operations of the International Space Station.

The work for the accident investigation is ongoing at many locations, and is being supported by federal, state and local government organizations who are helping us collect all the evidence. Their cooperation is greatly appreciated. To help this work we have appointed a NASA Space Shuttle Mishap Investigation Team and an independent investigation board, which will provide an objective review of the events and activities that led up to Saturday's tragedy. Retired U.S. Navy Admiral Harold W. Gehman, Jr., the former Commander in Chief of the U.S. Atlantic Command, who later led the independent commission that investigated the attack on the U.S.S. Cole, will chair the investigative board. The board has already held its first meeting at Barksdale Air Force Base in Louisiana.



In the horrible hours after the loss of Columbia, I saw countless examples of NASA employees pulling together and doing their jobs with the professionalism that the American public expects from this storied agency. And the President has asked me to pass along his appreciation and admiration for the professionalism being displayed by the entire NASA family.

As all of us strive to leave no stone unturned in the accident investigation and recovery efforts, let us also remember our responsibilities to take care of our fellow NASA family members. Our dedicated Employee Assistance professionals are on hand to help should anyone need emotional support in the days ahead. Please feel comfortable in asking for their services if the need arises.

As we search for solace in this challenging time, I have found comfort in the following verse of the Navy Hymn that was written especially for our astronauts:

Eternal Father, King of birth,  
Who didst create the heaven and earth,  
And bid the planets and the sun  
Their own appointed orbits run;  
O hear us when we seek thy grace  
For those who soar through outer space.

May God bless the crew of STS-107, their families, and the members of the NASA family.

Sean O'Keefe  
NASA Administrator

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Mon, 3 Feb 2003 09:10:30 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington                      February 3, 2003  
(Phone: 202/358-4495)

RELEASE: 03-041

**NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS**

NASA is accepting claims from individuals who may have suffered damage due to the Space Shuttle Columbia mishap. Any person desiring to file a claim should complete U.S. Government Standard Form 95, "Claim for Damage, Injury, or Death" and send it to the closest of these NASA offices.

Office of the Chief Counsel  
NASA Johnson Space Center  
Mail Code: AL  
2101 NASA Road 1  
Houston, TX 77058  
(281) 483-3021

Office of the General Counsel  
NASA Headquarters  
Mail Code: G  
300 E St., SW  
Washington, DC 20546  
(202) 358-2450

Office of Chief Counsel  
NASA Stennis Space Center  
Mail Code: CA00  
Building 1100  
Stennis Space Center, MS 39529  
(228) 688-2164

For more information on filing a claim, including downloadable forms, call any of the above offices or go to:

[www.hq.nasa.gov/ogc/general\\_law/torttext.html](http://www.hq.nasa.gov/ogc/general_law/torttext.html)

-end-

\* \* \*

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reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

Date: Mon, 3 Feb 2003 09:33:48 -0500  
To: Marny Skora <m.m.skora@larc.nasa.gov>  
From: Jim Roberts <j.r.roberts@larc.nasa.gov>  
Subject: Re: ACTION: Administrator's message

I'm on it ...

Look for it by 10 a.m.

Jim

Jim--

Please post the Administrator's message to employees on RN On Line ASAP. You might run it under the crew photo.

marny

---

A MESSAGE TO THE NASA FAMILY:  
The Loss of Columbia and Its Courageous Crew

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The bond between those who venture into the frontier of space, and those who make spaceflight possible is incredibly strong. Accordingly, our grief is unbearably great. But so is our resolve to do everything we possibly can for the families of the Columbia crew to find out what caused this accident, and to move on to correct what problems we find and make sure this never happens again. We owe them that.

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As we search for solace in this challenging time, I have found comfort in the following verse of the Navy Hymn that was written especially for our astronauts.

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Who didst create the heaven and earth,  
And bid the planets and the sun  
Their own appointed orbits run;  
O hear us when we seek thy grace  
For those who soar through outer space.

May God bless the crew of STS-107, their families, and the members of the NASA family.

Sean O'Keefe  
NASA Administrator

--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

*Duf*

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Mon, 3 Feb 2003 09:47:34 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: JOHNSON SPACE CENTER MEMORIAL TIME UPDATED  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington February 3, 2003  
(Phone: 202/358-1898/1600)

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

RELEASE: 03-042

JOHNSON SPACE CENTER MEMORIAL TIME UPDATED

The President and Mrs. George W. Bush will join NASA Administrator Sean O'Keefe Tuesday afternoon, Feb. 4, in paying tribute to the brave heroes of the Space Shuttle Columbia crew during a special memorial service at the NASA Johnson Space Center in Houston.

The ceremony to honor NASA astronauts Rick Husband, William McCool, Michael Anderson, Kalpana Chawla, David Brown, Laurel Clark, and Israeli astronaut Ilan Ramon is scheduled to begin at 1 p.m. EST in the Central Mall area behind Building One. Gates are scheduled to open at 10 a.m. EST.

This is a private ceremony for family members, friends, and invited guests, along with NASA employees and contractors. The service will be carried live on NASA Television and available on the Internet at: [www.nasa.gov](http://www.nasa.gov).

Media access to the memorial service will be restricted with television and still photography access provided on a pool basis.

NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about the STS-107 crew and the Space Shuttle Columbia is available on the Internet at:  
<http://spaceflight.nasa.gov>.

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: c.p.rink@express.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 10:45:17 -0500  
To: "SKORA, MARY M" <M.M.SKORA@larc.nasa.gov>  
From: Chris Rink <c.p.rink@larc.nasa.gov>  
Subject: Fwd: Columbia coverage by Daily Press

See questions from Schleck below; I told him we would try to get back to him by early afternoon with the more timely queries. Although I knew the answers to the CERES questions were a firm "No," I contacted Bruce Wielicki anyway. Bruce confirmed it -- no CERES involvement.

I am at the gate starting at 11 a.m., with KB.

rink

From: "Schleck, Dave" <DSchleck@dailypress.com>  
To: "'c.p.rink@larc.nasa.gov'" <c.p.rink@larc.nasa.gov>  
Subject: Columbia coverage by Daily Press  
Date: Mon, 3 Feb 2003 09:01:32 -0600  
Importance: high  
X-Priority: 1

Chris,

Please accept my condolences about Saturday's tragedy. Unfortunately, we're in professions that gives us little time to grieve.

Below are a list of questions that entered our heads as we were brainstorming for stories this morning. I'm trying to get in touch with Marny (no luck yet) to get some answers, at least to the first few questions. I don't expect to pursue answers to all these questions today. Obviously there are no answers yet to some of these questions. But any help you can provide would also be greatly appreciated.

- Dave

Any Langley people going to Texas memorial service Tuesday? Can I go with them?

Can I get in touch with three former Langley people who are in astronaut training in Texas?

Anyone at Langley personally know any of the Columbia astronauts? Can I talk with them?

Any local memorial services (Air&Space, W&M, EVMS)?

Anyone at Langley involved in analysis data at launch, we hear there some Langley connection to an instrument the measures temperature on the shuttle? Have NASA Langley people been named to be part of investigation (this may develop over course of today/this week)?

Any Langley people part of debris recovery program in Texas/Louisiana?

Can I talk to someone who was involved in investigating Challenger?

Can I get a summary of how Langley involved in investigating Challenger?

Can I get a summary of how Langley involved in developing space shuttle technology, especially how it relates to Columbia disaster (tiles,



insulation, heat-measuring equipment)?

Did CERES have any equipment on Columbia? Is there any shuttle connection to the CERES program - to the future of the program, satellites, etc?

What is Langley's involvement with the space station?

What effect did Challenger disaster have on Langley funding?

Any possible ramification for Mars plane funding?

The Apollo spacecraft that experienced fatal fire on the launch pad - is it still at Langley? Are any remnants from Challenger at Langley?

--

Chris Rink  
Office of Public Affairs  
NASA Langley Research Center  
Hampton, Va. 23681-2199  
(757) 864-6786 / fax -6166 / cel 344-7711 / Mail Stop 145 / Bldg. 1153  
<http://oea.larc.nasa.gov/>

X-Sender: n.t.davis@pop.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 03 Feb 2003 10:46:32 -0500  
To: M P Finneran <M.P.Finneran@larc.nasa.gov>, <Michael.P.Finneran@nasa.gov>, M M Skora <M.M.Skora@larc.nasa.gov>, <Mary.M.Skora@nasa.gov>  
From: Nancy Davis <n.t.davis@larc.nasa.gov>  
Subject: EAP Services  
Cc: D C Freeman <D.C.Freeman@larc.nasa.gov>, <Delma.C.Freeman@nasa.gov>, J M Laneave <J.M.Laneave@larc.nasa.gov>, <Jean.M.Laneave@nasa.gov>, "A C Mennell <A.C.Mennell@larc.nasa.gov>R C Edge" <A.C.Mennell@larc.nasa.gov>, K A Koch <K.A.Koch@larc.nasa.gov>, <Karen.A.Koch@nasa.gov>

Mike,

As a follow-on to the EAP comments during this morning's Senior Staff meeting, Ann Mennell and Jean LaNeave have asked for your assistance/permission to post a banner to @LaRC:

"A reminder in light of the Columbia tragedy that the Employee Assistance Program (EAP) is a confidential service that is equipped to provide short-term counseling at no cost to employees (1-800-950-3434 or 826-8565; 24 hours a day, 7 days a week)."

Mike, Thanks for your assistance with this.

Additional background information for all addressees: Cathy Angotti, NASA POC for Occupational Health, held a teleconference with all EAP contacts (our REACH contact, Liz Bell, participated in the teleconference) on Saturday afternoon (4 p.m.) to instruct them to "aggressively pursue and be pro-action" in working with their perspective Center Directors to provide whatever EAP services were deemed necessary. A 9:30 a.m. meeting was held this morning in the Clinic with Dr. Gross, Liz Bell, Donna Freet, Karen Koch, and me to discuss proposed strategy. Besides the @LaRC posting, we want to pass along the availability for EAP professionals to conduct Critical Incident Stress Debriefings (CISD) to any groups on an "as needed" basis.

Please contact us if we can be of assistance.

Thanks,

Nancy

Nancy T. Davis  
Management Employee Support Branch  
Office of Human Resources

Mail Stop 129  
Bus. Phone: 757-864-2686  
Fax Phone: 757-864-5040

Have feedback on OHR services? Visit <http://ohr.larc.nasa.gov/index.html>

X-Sender: k.w.land@express.larc.nasa.gov  
Date: Mon, 3 Feb 2003 13:22:04 -0400  
To: Karen Credeur <k.r.credeur@larc.nasa.gov>  
From: "Kimberly W. Land" <k.w.land@larc.nasa.gov>  
Subject: Memorial Johnson Space Center  
Cc: Andrea Carden <A.L.CARDEN@larc.nasa.gov>,  
Jim Meehan <j.j.meehan@larc.nasa.gov>,  
Marny Skora <m.m.skora@larc.nasa.gov>,  
Thomas Pinelli <t.e.pinelli@larc.nasa.gov>

Hello Karen,  
Tomorrow's memorial service will be broadcast on NASA-TV and the Reid Conference Center will be available to Center employees for viewing the 20-30 minute program, which is scheduled for 1:00 p.m. EST/noon CST.

Hope this helps.  
~ Kimberly  
--

Kimberly W. Land  
Public Affairs Specialist, Office of Public Affairs  
NASA Langley Research Center  
Bldg 1219/Mail Stop 115, Hampton, VA 23681  
Office (757) 864-9885/Fax -6333; cell (757) 344-8611  
<http://www.larc.nasa.gov>

Have a Blessed Day!

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Mon, 3 Feb 2003 12:31:41 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: STATEMENT FROM THE FAMILIES OF SPACE SHUTTLE COLUMBIA  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 3, 2003

RELEASE: 03-043

STATEMENT FROM THE FAMILIES OF SPACE SHUTTLE COLUMBIA

On January 16th, we saw our loved ones launch into a brilliant, cloud-free sky. Their hearts were full of enthusiasm, pride in country, faith in their God, and a willingness to accept risk in the pursuit of knowledge --- knowledge that might improve the quality of life for all mankind. Columbia's 16<sup>th</sup> day mission of scientific discovery was a great success, cut short by mere minutes ---- yet it will live on forever in our memories. We want to thank the NASA family and people from around the world for their incredible outpouring of love and support. Although we grieve deeply, as do the families of Apollo 1 and Challenger before us, the bold exploration of space must go on. Once the root cause of this tragedy is found and corrected, the legacy of Columbia must carry on --- for the benefit of our children and yours.

-end-

\* \* \*

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From: <AHostetler@timesdispatch.com>  
To: m.p.finneran@larc.nasa.gov, m.m.skora@larc.nasa.gov,  
h.k.henry@larc.nasa.gov  
Subject: Langley's role  
Date: Mon, 3 Feb 2003 12:38:25 -0500

Folks: Anything solid yet on who from Langley will participate in the Columbia investigation? Also, I'd like to talk to anyone at Langley who has been tapped for the astronaut corps, or is in the process of applying for the corps. Any chance of that?

thanks,  
aj

A.J. Hostetler  
Science Writer  
Richmond Times-Dispatch  
P.O. Box 85333  
Richmond, VA 23293  
[ahostetler@timesdispatch.com](mailto:ahostetler@timesdispatch.com)  
804-649-6355 (o)  
804-775-8059 (fax)

Notebook.jpg 1

To: Maria Dee <m.l.dee@larc.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: Memorial Service  
Cc:  
Bcc:

X-Attachments:

---

We will participate in the JSC Memorial service via NASA TV in the RCC. We will be putting out an @LaRC message as soon as details are available. Also will distribute the announcement via your network. Stand by.

Hi Marny,

Are we going to have a memorial service here at Langley for the Shuttle crew?

Maria

---

Maria Dee  
Information Systems Branch &  
Network & Computer Services Branch  
NASA Langley Research Center

ISB Phone: 757-864-2355  
NCSB Phone: 757-864-7190

To: Nancy Davis <n.t.davis@larc.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: EAP Services  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

Nancy --

I'll post the banner announcement now -- but I'm limited to 100 characters.

I suggest you also post an @LaRC message -- to run for the rest of the week -- that elaborates on the services offered, especially the CISD group sessions.

Or send your words to me and I will post for you.

marny

Mike,

As a follow-on to the EAP comments during this morning's Senior Staff meeting, Ann Mennell and Jean LaNeave have asked for your assistance/permission to post a banner to @LaRC:

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Thanks,

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Nancy T. Davis  
Management Employee Support Branch  
Office of Human Resources

Mail Stop 129  
Bus. Phone: 757-864-2686  
Fax Phone: 757-864-5040

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To: "Judy W. Ward" <j.w.ward@larc.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: Service  
Cc:  
Bcc:  
X-Attachments:

Judy--

We will participate in the JSC Memorial service via NASA TV in the RCC at 1 p.m. We will be putting out an @LaRC message as soon as details are available. Also will distribute the announcement via secretaries. Stand by.

marny

Hi Marny,

Regarding the message from the administrator on the memorial service for the STS-107 crew, will either of these memorial services be televised on NASA TV? If so, is the one for tomorrow 12 local or Texas time?

"To honor the Columbia crew and the family members who have borne their personal grief with tremendous dignity and courage, President Bush will join us for a memorial service at the Johnson Space Flight Center on Tuesday, February 4, at 12 noon. All badged NASA employees are welcome to attend this event. There will also be a memorial service on Thursday, February 6, at Washington's National Cathedral at 1:00 p.m."

---Judy



X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 13:40:09 -0500  
To: M.P.FINNERAN@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,  
k.r.credeur@larc.nasa.gov, g.s.langevin@larc.nasa.gov,  
"LAND, KIMBERLY W" <K.W.LAND@larc.nasa.gov>  
From: "Pamela J. Verniel" <p.j.verniel@larc.nasa.gov>  
Subject: Memorial Service  
Cc: M.PITTS@larc.nasa.gov, c.l.hancock@larc.nasa.gov, A.L.CARDEN@larc.nasa.gov

I just spoke to Karen Evans and she said that Doug Dwayer will say a few words and ask for a moment of silence tomorrow prior to the memorial service at 1 p.m. on NASA Select TV.

Pam

To: m.pitts@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Memorial announcement  
Cc: m.p.finneran@larc.nasa.gov, k.r.credeur@larc.nasa.gov  
Bcc:

X-Attachments:

---

Please distribute to all secretaries for distribution to their groups:

---

Langley civil service and contractor employees are invited to participate in a memorial service for the STS-107 crew being held at the Johnson Space Center tomorrow. Speakers will include President Bush and Administrator O'Keefe.

The memorial will be broadcast via NASA TV and be held in the Reid Conference Center.

Employees are asked to be in place by 12:50 p.m. Associate Director Douglas Dwoyer will make opening remarks on behalf of Acting Director Freeman. The service is expected to conclude about 1:30.

---

marny

X-Sender: m.pitts@express.larc.nasa.gov  
 Date: Mon, 3 Feb 2003 14:50:01 -0500  
 To: M.P.FINNERAN@larc.nasa.gov, M.M.Skora@larc.nasa.gov,  
 K.R.CREDEUR@larc.nasa.gov, a.z.parker@larc.nasa.gov,  
 r.d.allen@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
 H.K.Henry@larc.nasa.gov, C.L.HANCOCK@larc.nasa.gov,  
 L.R.RICH@larc.nasa.gov, P.J.VERNIEL@larc.nasa.gov,  
 D.E.Gause@larc.nasa.gov, M.E.WOODCOCK@larc.nasa.gov,  
 J.G.LEHMAN@larc.nasa.gov, J.C.SHANKS@larc.nasa.gov,  
 S.C.WEST@larc.nasa.gov, K.W.LAND@larc.nasa.gov,  
 T.A.DIXON@larc.nasa.gov, C.W.CLEGHORN@larc.nasa.gov,  
 D.G.Lawson@larc.nasa.gov, C.P.RINK@larc.nasa.gov,  
 J.R.ROBERTS@larc.nasa.gov, J.B.CAPLAN@larc.nasa.gov,  
 E.M.CONWAY@larc.nasa.gov, w.c.uher@larc.nasa.gov,  
 h.a.hunter@larc.nasa.gov, g.s.langevin@larc.nasa.gov,  
 g.a.banziger@larc.nasa.gov, a.l.carden@larc.nasa.gov,  
 j.d.simons@larc.nasa.gov, d.c.christensen@larc.nasa.gov,  
 j.j.meehan@larc.nasa.gov, A.N.BLACK@larc.nasa.gov,  
 D.L.BLANCHARD-GROSS@larc.nasa.gov, N.S.Friend@larc.nasa.gov,  
 K.J.EVANS@larc.nasa.gov, e.e.fenner@larc.nasa.gov  
 From: Margarette Pitts <m.pitts@larc.nasa.gov>  
 Subject: Fwd: STS-107 Memorial Service

X-Sender: m.pitts@express.larc.nasa.gov  
 Date: Mon, 3 Feb 2003 14:25:51 -0500  
 To: title=secretary@larc.nasa.gov  
 From: Margarette Pitts <m.pitts@larc.nasa.gov>  
 Subject: STS-107 Memorial Service  
 Date: Mon, 3 Feb 2003 14:25:59 -0500 (EST)

Please forward the following information to the employees in your organization:

Langley civil service and contractor employees are invited to participate in a memorial service for the STS-107 crew being held at the Johnson Space Center tomorrow. Speakers will include President Bush and Administrator O'Keefe.

The memorial will be broadcast via NASA TV and be held in the Reid Conference Center.

Employees are asked to be in place by 12:50 p.m. Associate Director Douglas Dwoyer will make opening remarks on behalf of Acting Director Freeman. The service is expected to conclude about 1:30.

\*\*\*\*\*

Margarette Pitts  
 Office of External Affairs  
 Building 1219, Room 304  
 Mail Stop 115  
 NASA Langley Research Center  
 Hampton, VA 23681-2199  
 757-864-6124 - Phone  
 757-864-6333 - Fax

\*\*\*\*\*

Margarette Pitts  
 Office of External Affairs

Building 1219, Room 304  
Mail Stop 115  
NASA Langley Research Center  
Hampton, VA 23681-2199  
757-864-6124 - Phone  
757-864-6333 - Fax

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Mon, 3 Feb 2003 15:29:24 -0500  
To: M.PITTS@larc.nasa.gov, Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Fwd: JSC Visitor Center Memorial

Date: Mon, 3 Feb 2003 14:13  
To: Duncan McIver <dmciver@teccenter.org>, tbridgfo@vasc.org, jkelly@vasc.org, khinson@vasc.org, sgates@vasc.org, nkoltun@vasc.org, bsmith@vasc.org, ahoilman@vasc.org  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: JSC Visitor Center Memorial

Todd Bridgford, Mike, Marny, PSO, others: I asked NASA Johnson Space Center (JSC) what its visitor center planned to do, if anything, for a memorial service / activity - times given are CDT; add an hour for EST, hence, 1 p.m. program:

From: "PARKER, LOUIS A. (JSC-AP161) (NASA)" <louis.a.parker@nasa.gov>  
To: "'Karen Credeur'" <k.r.credeur@larc.nasa.gov>  
Subject: RE: Visitor Center Memorial  
Date: Mon, 3 Feb 2003 12:53:45 -0600

Correct.

*Louis Parker*  
JSC Exhibits Manager  
tel 281 483 8622  
fax 281 483 4876  
e-mail [louis.a.parker@nasa.gov](mailto:louis.a.parker@nasa.gov)  
web [www.jsc.nasa.gov/programs](http://www.jsc.nasa.gov/programs)

-----Original Message-----

**From:** Karen Credeur [<mailto:k.r.credeur@larc.nasa.gov>]  
**Sent:** Monday, February 03, 2003 12:53 PM  
**To:** PARKER, LOUIS A. (JSC-AP161) (NASA)  
**Subject:** Q: Visitor Center Memorial

Lou, Thanks. So there is nothing planned for the general public other than those who happen to be at / in Space Center Houston at the right time? Thanks, Karen

Karen,

Space Center Houston is planning to show the memorial service at JSC on their big plaza screen, the screens in Mission Status Center, and on their large theater screen for employees of Boeing and others who can't get into JSC by the 11am gate-closing time. Because of the President being here, everyone who's attending the 12noon service has to be on site and in place by 11am.

*Louis Parker*  
JSC Exhibits Manager  
tel 281 483 8622  
fax 281 483 4876  
e-mail [louis.a.parker@nasa.gov](mailto:louis.a.parker@nasa.gov)  
web [www.jsc.nasa.gov/programs](http://www.jsc.nasa.gov/programs)

--

\*\*\*\*\*  
Karen R. Credeur, Ph.D.  
Head, Office of Public Services                   Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA                                   Fax:        757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001                   E-mail: k.r.credeur@larc.nasa.gov  
\*\*\*\*\*

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Mon, 3 Feb 2003 15:50:37 -0500  
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,  
;;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,  
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,  
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,  
M.M.SKORA@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ. Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500  
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107  
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,  
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

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At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since

they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

Date: Mon, 03 Feb 2003 09:33  
To: "Ronald T. Kurnik" <kurnik@alum.mit.edu>  
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
Subject: Re: Space Shuttle Columbia - Mission STS-107  
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. Kurnik

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl  
Technical Publications Manager  
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?



2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

Ronald T. Kurnik,  
kurnik@alum.mit.edu

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

--

\*\*\*\*\*  
Karen R. Credeur, Ph.D.  
Head, Office of Public Services                      Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA                                      Fax:            757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001                      E-mail: k.r.credeur@larc.nasa.gov  
\*\*\*\*\*

X-Sender: k.r.credeur@express.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 15:57:16 -0500  
To: H.K.HENRY@larc.nasa.gov, L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,  
Public Services Offic:Public Services Offic:@larc.nasa.gov,  
;;J.J.MEEHAN@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Cancel 2 wk NASA Speakers re Columbia mishap-URGENT

HQ has asked that we cancel our out-reach speakers for the next two weeks and provided directions in what to say in the future before the accident cause is officially released. Details if wished are below. Karen

Date: Mon, 3 Feb 2003 15:51  
To: K.R.Credeur@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,  
S.C.West@larc.nasa.gov  
From: Elaine Gause <D.E.Gause@larc.nasa.gov>  
Subject: Fwd: NASA Speakers and the Columbia mishap-URGENT

FYI.

Elaine

X-Sender: dmangel@mail.hq.nasa.gov  
Date: Mon, 3 Feb 2003 15:45:02 -0400  
To: sajohnson@arc.nasa.gov, lisa.mattox@dfrc.nasa.gov,  
rebecca.a.elliott.1@gssc.nasa.gov, marc.a.razze@jpl.nasa.gov,  
D.E.Gause@larc.nasa.gov, marcia.cobun@msfc.nasa.gov,  
jeanie.maxwell@ssc.nasa.gov, sallie.bilbo@ssc.nasa.gov,  
betty.flowers@gssc.nasa.gov,  
"Warren-1, Kandy" <Kathleen.Warren-1@kmail.ksc.nasa.gov>,  
Cheryl.A.McCallum@grc.nasa.gov  
From: "Diane M. Mangel" <dmangel@hq.nasa.gov>  
Subject: NASA Speakers and the Columbia mishap-URGENT

Hello All,

Many of you are already receiving requests from the public to have NASA speakers address various aspects of issues relating to the Columbia mishap. Additionally, you have speakers slated to go out in the near future and are concerned about what they can and cannot say if they are asked.

The guidance from the NASA HQ Office of Public Affairs is that you cancel your speaking event for the next 2 weeks. This has also been done for astronaut appearances.

After that time, the general message is that it is too early for anyone to speculate on the incident or on the future of the space program as a result of the incident.

NASA speakers should politely decline discussing it until further notice.

Please call me if you have any questions.

--

Diane M. Mangel  
Agency Speakers Bureau Coordinator  
Public Services Division  
Office of Public Affairs  
NASA Headquarters  
202/358-1751

--

D. Elaine Gause  
Public Affairs Specialist

NASA Langley Research Center  
Public Services Office  
Mail Stop 154  
Hampton, VA 23681-2199

Phone: 757-864-7318, Fax: 757-864-7732  
E-Mail: d.e.gause@larc.nasa.gov  
Website: www.larc.nasa.gov

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Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

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**Alicia Dwyer, 2/3/03 4:00 PM -0500, Media**

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X-Sender: a.m.dwyer@larc.nasa.gov  
Date: Mon, 03 Feb 2003 16:00:46 -0500  
To: M.M.SKORA@larc.nasa.gov  
From: Alicia Dwyer <a.m.dwyer@larc.nasa.gov>  
Subject: Media

Mary,

The gentleman who contacted was Rick Ruggels at the Omaha World Hearld. He left me a message on Saturday so he may no longer be interested but his number is [REDACTED].

Alicia

Alicia Dwyer Cianciolo  
Vehicle Analysis Branch  
NASA Langley Research Center  
Mail Stop 365  
Hampton, VA 23681  
(757) 864-8620

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Mon, 3 Feb 2003 16:10:36 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: SHUTTLE COLUMBIA ACCIDENT PRESS CONFERENCE SCHEDULE CHANGED  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington                      February 3, 2003  
(Phone: 202/3580-1600)

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

RELEASE: 03-044

SHUTTLE COLUMBIA ACCIDENT PRESS CONFERENCE SCHEDULE CHANGED

The press conference schedule for Tuesday, Feb. 4, 2003 has changed.

There will not be a NASA Headquarters press conference at 11:30 a.m. EST on Feb. 4. It has been cancelled out of respect for the Space Shuttle Columbia crew memorial service and to allow NASA employees to watch the tribute.

There will not be a 4:30 EST press conference at the Johnson Space Center tomorrow. The 4:30 EST press conference for Feb. 4, 2003 will be in the NASA Headquarters auditorium, 300 E Street SW, Washington.

The press conference will feature questions from reporters at participating NASA centers and will be broadcast live on NASA Television. There will be an 11:30 a.m. EST press conference at NASA Headquarters and a 4:30 p.m. press conference at the Johnson Space Center on Wednesday, Feb. 5, 2003.

NASA TV is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information is available on the Internet at:

<http://www.nasa.gov>

<http://spaceflight.nasa.gov>

-end-

\* \* \*

NASA press releases and other information are available automatically

by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

To: d.c.freeman@larc.nasa.gov, k.w.evans@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Draft message to Langley employees  
Cc: l.c.couch@larc.nasa.gov, m.p.finneran@larc.nasa.gov,  
k.r.credeur@larc.nasa.gov

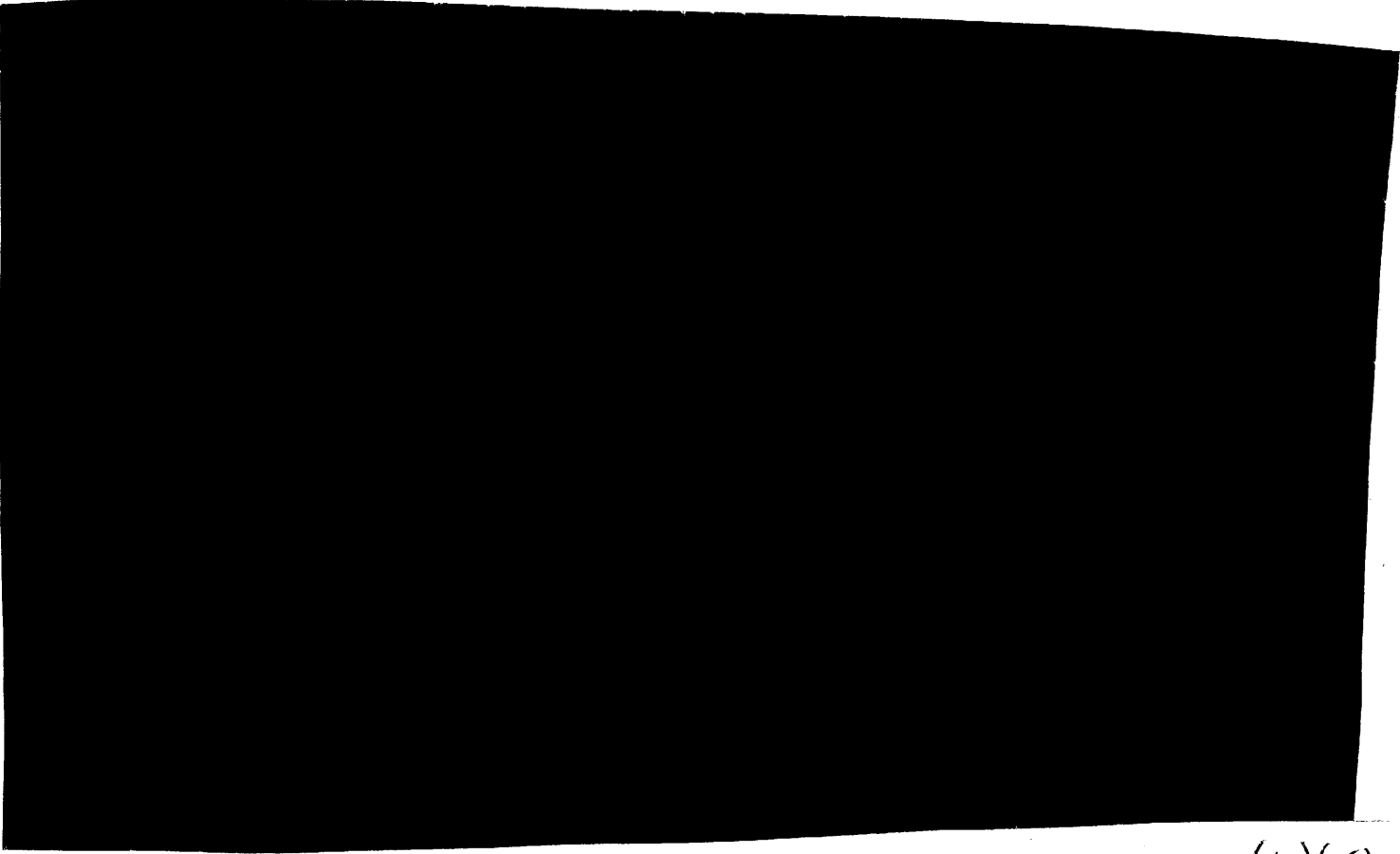
Bcc:

X-Attachments:

---

Del-

I have drafted some suggested words from you to LaRC employees. If you approve we will post on @LaRC.



FOIA Exemption (b)(5)

X-Sender: a.l.carden@larc.nasa.gov  
Date: Mon, 03 Feb 2003 16:41:30 -0500  
To: "BELCHER, RODNEY L, JR" <R.L.BELCHER@larc.nasa.gov>  
From: Andrea Carden <a.l.carden@larc.nasa.gov>  
Subject: Memorial Broadcast  
Cc: "GATES, ROBERT L" <ROBERT.L.GATES@larc.nasa.gov>,  
"MURRAY, HARVEY W, JR" <H.W.MURRAY@larc.nasa.gov>,  
<m.m.skora@larc.nasa.gov>, <l.l.elliott@larc.nasa.gov>

Gentlemen,

Per request by Marny Skora, please make arrangements to broadcast the shuttle memorial service from Johnson Space Center. The broadcast will begin at 1:00pm EST. Doug Dwoyer will say a few words at the Reid Center prior to the service. Time for that is 12:45pm.

Thank you in advance for your assistance. - Andrea



To: k.r.credeur@larc.nasa.gov, A.L.CARDEN@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Memorial Service -- all TVs  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

---

I have asked Andrea to coordinate with Bob Gates and put the JSC memorial service on all TVs on Center. You're right, we would never be able to accommodate all employees.

Tomorrow, if NASA TV is showing the arrival of guests at 12:50, we will need to have Leslie blank out the screen for Doug's welcome and the moment of silence.

I'll CC Andrea on this note and ask her to take that action.

marny

X-Sender: k.r.credeur@express.larc.nasa.gov  
 X-Priority: 1 (Highest)  
 Date: Mon, 3 Feb 2003 16:51:36 -0500  
 To: M.PITTS@larc.nasa.gov, L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,  
 H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,  
 I.GILMAN@larc.nasa.gov, K.A.BARNSTORFF@larc.nasa.gov,  
 C.P.RINK@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,  
 Public Services Offic:Public Services Offic:@larc.nasa.gov,  
 ;;A.L.CARDEN@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,  
 J.C.SHANKS@larc.nasa.gov, M.E.WOODCOCK@larc.nasa.gov,  
 J.B.CAPLAN@larc.nasa.gov, t.a.dixon@larc.nasa.gov,  
 k.w.land@larc.nasa.gov, d.c.christensen@larc.nasa.gov,  
 J.R.ROBERTS@larc.nasa.gov, W.C.UHER@larc.nasa.gov,  
 H.A.HUNTER@larc.nasa.gov, G.A.BANZIGER@larc.nasa.gov,  
 A.N.BLACK@larc.nasa.gov, J.J.MEEHAN@larc.nasa.gov,  
 J.D.SIMONS@larc.nasa.gov  
 From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
 Subject: Vigil tonight 7:30 p.m. VASC pavers court

Tonight at 7:30, several ministers and others will hold a vigil in the paver area of the VASC near the carousel. They will have nondenominational prayers, singing, and words of encouragement. Doug Dwoyer will speak on behalf of LaRC. Candles will be passed out. It has been advertised on TV Channel 3 and 13 and radio stations.

--

\*\*\*\*\*  
 Karen R. Credeur, Ph.D.  
 Head, Office of Public Services Phone: 757-864-3307  
 Dep. Head, Office of External Affairs  
 M.S. 154, NASA Fax: 757-864-7732  
 Langley Research Center  
 Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov  
 \*\*\*\*\*

SG-99

X-Sender: a.l.carden@larc.nasa.gov  
Date: Mon, 03 Feb 2003 16:58:50 -0500  
To: Marny Skora <m.m.skora@larc.nasa.gov>, k.r.credeur@larc.nasa.gov  
From: Andrea Carden <a.l.carden@larc.nasa.gov>  
Subject: Re: Memorial Service -- all TVs  
Cc: m.p.finneran@larc.nasa.gov, <robert.l.gates@larc.nasa.gov>, <l.l.elliott@larc.nasa.gov>

Marny,

The JSC memorial will broadcast throughout the center on Channel 8. Doug's welcome will not be broadcast. Leslie will handle all actions in coordinating the broadcast from JSC with real-time at the Reid. If the JSC service begins before Doug finishes, how would you like Leslie to proceed. Please advise.

Thanks - Andrea

At 04:44 PM 2/3/2003 -0500, Marny Skora wrote:

I have asked Andrea to coordinate with Bob Gates and put the JSC memorial service on all TVs on Center. You're right, we would never be able to accommodate all employees.

Tomorrow, if NASA TV is showing the arrival of guests at 12:50, we will need to have Leslie blank out the screen for Doug's welcome and the moment of silence.

I'll CC Andrea on this note and ask her to take that action.

marny  
--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

*Dog*

X-Sender: k.r.credeur@express.larc.nasa.gov  
 Date: Mon, 3 Feb 2003 17:00:09 -0500  
 To: Marny Skora <M.M.SKORA@larc.nasa.gov>,  
       Pam Verniel <P.J.VERNIEL@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,  
       M.PITTS@larc.nasa.gov, Carole Hancock <C.L.HANCOCK@larc.nasa.gov>,  
       J.J.MEEHAN@larc.nasa.gov,  
       Donna Gail Roper Lawson <d.g.lawson@larc.nasa.gov>  
 From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
 Subject: RCC side room: Memorial Service -- all TVs

Marny, Thanks. I also asked Andrea to pipe into as many of side rooms and PYT as possible. Only the Langley Room was available but that will help. Karen

X-Sender: m.m.skora@express.larc.nasa.gov  
 Date: Mon, 3 Feb 2003 16:44:43 -0500  
 To: k.r.credeur@larc.nasa.gov, A.L.CARDEN@larc.nasa.gov  
 From: Marny Skora <m.m.skora@larc.nasa.gov>  
 Subject: Memorial Service -- all TVs  
 Cc: m.p.finneran@larc.nasa.gov

I have asked Andrea to coordinate with Bob Gates and put the JSC memorial service on all TVs on Center. You're right, we would never be able to accommodate all employees.

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marny  
 --

\*\*\*\*\*  
 Marny Skora  
 Head, Office of Public Affairs  
 NASA Langley Research Center  
 Mail Stop 115, Bldg 1219, Rm 303  
 11 Langley Blvd.  
 Hampton, VA 23681  
 (757) 864-6121

*Handwritten:* } Dup.

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 \*\*\*\*\*  
 Karen R. Credeur, Ph.D.  
 Head, Office of Public Services                   Phone: 757-864-3307  
 Dep. Head, Office of External Affairs  
 M.S. 154, NASA                                   Fax:       757-864-7732  
 Langley Research Center  
 Hampton, VA 23681-0001                       E-mail: k.r.credeur@larc.nasa.gov  
 \*\*\*\*\*

*Handwritten:* SG-101

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Mon, 3 Feb 2003 17:06:03 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: HANDLE SPACE SHUTTLE DEBRIS WITH CAUTION  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Robert Mirelson  
Headquarters, Washington February 2, 2003  
(Phone: 202/358-4495)

RELEASE: 03-038

HANDLE SPACE SHUTTLE DEBRIS WITH CAUTION

Debris from the Space Shuttle Columbia may be dangerously contaminated with toxic substances and cause serious injury if handled. Individuals who think they may have come in contact with Shuttle debris should take a shower with soap and water and then seek medical attention.

Individuals are advised to avoid all additional contact with the suspected Shuttle material. Clothing that may have come in contact with the suspected debris should be removed with care to avoid skin contact with cloth that may have been contaminated. Place the clothing in a plastic bag for later analysis.

If your physician has any questions, please have him or her contact the NASA Emergency Action Center at 281/483-3388.

More information is available on the Internet at:

<http://www.nasa.gov/columbia/>

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: k.r.credeur@express.larc.nasa.gov  
 Date: Mon, 3 Feb 2003 17:12:12 -0500  
 To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
 Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,  
 J.J.MEEHAN@larc.nasa.gov, tbridgfo@vasc.org, jkelly@vasc.org,  
 khinson@vasc.org, sgates@vasc.org, nkoltun@vasc.org, bsmith@vasc.org,  
 ahoilman@vasc.org  
 From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
 Subject: GRC memorial service plans

Regarding Glenn Research Center's plans:

Its visitor center extended its hours over the weekend. Have had 4 TV stations there. GRC is having an all-hands meeting tomorrow (Tu) after showing the JSC service. GRC's prayer group is putting together the all-hands meeting. It plans to read from cards and letters GRC has received besides anything else the group plans. The Director just told John Hairston, Director of External Programs, that they now need to do a community memorial so GRC will be planning something. John expects tentatively to hold it downtown Cleveland (Ohio).

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Karen R. Credeur, Ph.D.  
 Head, Office of Public Services Phone: 757-864-3307  
 Dep. Head, Office of External Affairs  
 M.S. 154, NASA Fax: 757-864-7732  
 Langley Research Center  
 Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

\*\*\*\*\*

X-Sender: D.E.Gause@pop.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 17:21:57 -0500  
To: K.R.CREDEUR@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov,  
P.J.VERNIEL@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,  
C.W.CLEGHORN@larc.nasa.gov, S.C.WEST@larc.nasa.gov,  
C.L.HANCOCK@larc.nasa.gov, E.E.FENNER@larc.nasa.gov,  
M.P.FINNERAN@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,  
"RICH, LEE R" <L.R.RICH@larc.nasa.gov>,  
"MEEHAN, JAMES J" <J.J.MEEHAN@larc.nasa.gov>  
From: Elaine Gause <D.E.Gause@larc.nasa.gov>  
Subject: SSC Memorial Service

FYI:

Stennis Space Center plans to hold a 30-minute memorial service for SSC employees only at 7:45 a.m. on Thursday, Feb. 6. Agenda as follows:

- Welcome - Master of Ceremonies - Robert Lightfoot
- Honor Guard
- Moment of Silence - 7:59 a.m.
- Fly-Over
- Center Director Speech
- Security Officers present Columbia's flag to Center Director
- Raise American flag back to full staff during singing of Star Spangled Banner

X-Sender: k.r.credeur@express.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 17:40:06 -0500  
To: Joan Lehman <j.g.lehman@larc.nasa.gov>, L.R.RICH@larc.nasa.gov,  
M.PITTS@larc.nasa.gov, Marny Skora <M.M.SKORA@larc.nasa.gov>,  
M.P.FINNERAN@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Q: NASA Speakers and the Columbia mishap-URGENT  
Cc: j.j.meehan@larc.nasa.gov

FOIA Exemption (b)(2)

At 5:08 PM -0500 2/3/03, Joan Lehman wrote:

Karen,

I have many speaking engagements scheduled over the next two weeks. Is this the course that Langley is going to take??

Joan

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X-Sender: D.E.Gause@pop.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 3 Feb 2003 15:51:07 -0500  
To: K.R.Credeur@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,  
S.C.West@larc.nasa.gov  
From: Elaine Gause <D.E.Gause@larc.nasa.gov>  
Subject: Fwd: NASA Speakers and the Columbia mishap-URGENT

FYI.

Elaine

X-Sender: dmangel@mail.hq.nasa.gov  
Date: Mon, 3 Feb 2003 15:45:02 -0400  
To: sajohnson@arc.nasa.gov, lisa.mattox@dfrc.nasa.gov,  
rebecca.a.elliott.1@gsfc.nasa.gov, marc.a.razze@jpl.nasa.gov,  
D.E.Gause@larc.nasa.gov, marcia.cobun@msfc.nasa.gov,  
jeanie.maxwell@ssc.nasa.gov, sallie.bilbo@ssc.nasa.gov,  
betty.flowers@gsfc.nasa.gov,  
"Warren-1, Kandy" <Kathleen.Warren-1@kmail.ksc.nasa.gov>,  
Cheryl.A.McCallum@grc.nasa.gov  
From: "Diane M. Mangel" <dmangel@hq.nasa.gov>  
Subject: NASA Speakers and the Columbia mishap-URGENT

Hello All,



Many of you are already receiving requests from the public to have NASA speakers address various aspects of issues relating to the Columbia mishap. Additionally, you have speakers slated to go out in the near future and are concerned about what they can and cannot say if they are asked.

**The guidance from the NASA HQ Office of Public Affairs is that you cancel your speaking event for the next 2 weeks. This has also been done for astronaut appearances.**

After that time, the general message is that it is too early for anyone to speculate on the incident or on the future of the space program as a result of the incident.

NASA speakers should politely decline discussing it until further notice.

Please call me if you have any questions.

--

Diane M. Mangel  
Agency Speakers Bureau Coordinator  
Public Services Division  
Office of Public Affairs  
NASA Headquarters  
202/358-1751

--

D. Elaine Gause  
Public Affairs Specialist

NASA Langley Research Center  
Public Services Office  
Mail Stop 154  
Hampton, VA 23681-2199

Phone: 757-864-7318, Fax: 757-864-7732  
E-Mail: d.e.gause@larc.nasa.gov  
Website: www.larc.nasa.gov

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M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

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X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: fbrown1@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 03 Feb 2003 19:14:03 -0500  
To: code-p@lists.hq.nasa.gov, news-chiefs@lists.hq.nasa.gov,  
glenn.mahone@hq.nasa.gov, rjacobs@hq.nasa.gov,  
dmorse@mail.arc.nasa.gov, i.gilman@larc.nasa.gov,  
jack.dawson@jpl.nasa.gov, k.w.and@larc.nasa.gov,  
wade.e.sisler.1@gssc.nasa.gov, dbrooks@hq.nasa.gov,  
daniel.k.carpenter1@jsc.nasa.gov, charris@hq.nasa.gov,  
mkostelnik@hq.nasa.gov  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: Media Services Report 2/3/03  
Sender: owner-news-chiefs@lists.hq.nasa.gov

## Television

**Investigation.** CBS (2/2, story 2, Orr) reports, „Investigators now know shuttle Columbia was in trouble as it crossed the California coast, seven minutes before it disintegrated in the Texas skies. Sensors monitored by mission control showed cascading failures on the left side of the shuttle -- a loss of data from the wheel well, increased drag, and rising temperatures in the fuselage.% Shuttle program manager Ron Dittmore was shown saying, „We are talking about a temperature on the side of the vehicle, the left side vehicle above the wing, unusual temperature rise. The temperature rose 60 degrees over five minutes.% CBS adds, „More than a dozen sensors, most of them in the left wing, used to measure temperatures, hydraulics, and tire pressure, were lost one after another -- a sequential failure consistent with a catastrophic breakup. But, NASA officials caution, they've reached no conclusions.% NASA Administrator Sean O'Keefe was shown saying, „At this stage we are making sure that we don't take any pet theory or any one approach in favoring of one or another. We are making sure we look at every possible piece of evidence, every possible element of what could have gone wrong.% CBS adds, „One thing certainly did go wrong during Columbia's January 16 launch. As the shuttle lifted off, something -- foam insulation or perhaps a chunk of ice -- broke off the external fuel tank and struck the left wing. This still image, published today on the @floridatoday.com, Website, seems to show the debris striking the bottom panel of the wing. Shuttle engineers at the time saw no real danger in continuing the mission. But now investigators want to know if the debris critically damaged the heat tiles needed to protect the shuttle during its fiery reentry.% CBS consultant Bill Harwood was shown saying, „If there had been a compromise in the heat shield protection system and the heat actually got into the subsurface, underneath those tiles, that would lead to a bad day pretty quickly. Whether or not the debris that was seen after the launch contributed to that is not yet known.% CBS adds, „There are now some signs that some tiles may have broken off, but NASA wants more evidence.%

NBC (2/2, lead story, B. Williams) reports the „shuttle program% has „now suffered a second catastrophic failure. Tonight, we know more about what might have happened at that altitude, 38 miles above the US, when the shuttle went down. Here on the ground in Texas, the effort to find the pieces of wreckage scattered on the earth from the crash, and the loved ones, these seven astronauts left behind. That is why President and Mrs. Bush will head here to Houston for a memorial service on Tuesday.% NBC (Hager) adds, „Just before this accident, data now shows that there was drag on this left side of the shuttle. Something trying to bank this it this way, hold it back on this side. It could be it was shedding heat-shielding tiles. About that time, too, there were sensors flickering off in the wheel well underneath, and there was heating along this wing here. So could tiles have come off, permitting heat to damage the wheel well, maybe even dropping down the landing gear door? Investigators don't know

tonight, but there is this from shuttle program director Ron Dittmore. Dittmore was shown saying, "We had an increase in drag on the left side of the vehicle. It can be indicative of rough tile. It can be indicative for perhaps missing tile. We're not sure yet." NBC adds, "As searchers located nearly 1,000 of pieces of wreckage, the decision was made to truck anything that looked crucial to Barksdale Air Force Base in Louisiana for examination. NASA's Administrator, Sean O'Keefe, insisted on NBC's Meet the Press that a wide variety of potential causes will be considered." O'Keefe was shown saying, "We're not going to rule out any theory at all of what could possibly have caused this terrific accident. And as a result, we're going to make sure we examine all the evidence." NBC adds, "Important will be the sequence of events over the last seven minutes before the shuttle broke up. It was just at the point of maximum stress, re-entering the atmosphere, when searing temperatures on the wing and underside can reach 3,000 degrees. In those seven minutes, key sensors along the left wing began failing one-by-one, ending in some kind of catastrophe." The timing "has drawn initial attention to the shuttle's protective heat tiles, which could have been damaged when the left wing was struck by debris at liftoff. This is believed to be a picture of that moment. Tiles have caused troubles before. In 1985, after the shuttle Discovery landed, a number of tiles were found missing from one of the wings, and bad scorching of the aluminum shuttle skin underneath was clearly visible. And back when the shuttle Columbia was first being prepared for space flight in 1979, there were severe problems affixing its tiles, and the first launch had to be delayed. In the meantime, questions are being raised about what astronauts could have done if they wanted to check further and see if the tiles were damaged. There was no long mechanical arm on this flight that could have gotten a picture of the tiles, no docking mechanism to the hitch to the international space station and let the astronauts bail out there, no astronaut on the shuttle that had been trained to replace tiles in a space walk, and even if they could have, there were no replacement tiles aboard the Columbia. So some say tonight, that if the tiles had been severely damaged, the astronauts may simply have been doomed."

**O'Keefe Says Nothing Being Ruled Out As Possible Cause Of Columbia**

**Disaster.** NASA Administrator Sean O'Keefe, asked about the damage to the shuttle caused by debris on lift-off, said on CNN's "Late Edition" (2/2) "Well, there's no question, the investigation and all the evidence we're collecting is in pursuit of that theory and every other possible theory that could be out there. And we're going to collect the evidence, let the evidence speak for it, let the facts speak for themselves. And as we come to a conclusion on what the cause of this accident was, we're not ruling anything out at this juncture. So I think Daryn's commentary is exactly right. Secretary Ridge has been fantastic at making sure that all the state and local law enforcement officials, the FEMA, emergency services folks, everybody is securing the evidence. And we're going to pore over that and make sure that no--any theory is not ruled out. We're starting with the opportunity to look at every single possibility of what could have gone wrong."

NASA Administrator Sean O'Keefe, asked on ABC's "This Week" (2/2, Stephanopoulos) if the investigation is concentrating on the damaged shuttle tiles, said, "That's one of the earliest indications, it's one of the areas we're looking at first, early, to make sure that the investigative team is concentrating on that theory or that set of facts as we are starting to unfold. But there's so many elements that we're beginning to see more about as we examine the debris and the wreckage that is spread over a span of about 500 miles. So we're ruling nothing out at this stage, and we're not really concentrating on any one theory versus another. We're looking at every possible permutation of what could have caused this."

NASA Administrator Sean O'Keefe, asked on NBC's "Meet the Press" (2/2, Russert) if there was any contingency plan in place for fixing damaged shuttle tiles, said, "There's a lot of different operational approaches that would be taken, and again, I wouldn't want to speculate on which operational approach would have been taken for

which speculated set of problems. You know, there's a lot of ways to deal with this and we've certainly had lots of experience at it. This one ended tragically. We're going to make absolutely certain that we look at every possible piece of evidence that will tell us what was the cause of this incident and we're going to make sure internally we're dedicated to doing that and find out the answer to that very important question you just posed.

Asked on CNN's „Late Edition% (2/2) to describe the investigation board he is putting together, NASA Administrator Sean O'Keefe said „Well, at this juncture, we've got, you know, the internal investigation that's under way. And, again, I think, as you all have covered very, very thoroughly--and I appreciate that--all the effort going on to coordinate among all the federal agencies is working as seamlessly as we know how to do it. Having an independent objective board led by someone of the stature and standing of a four-star retired admiral, Admiral Hal Gehman, to conduct this with members who are external NASA experts looking at safety mission assurance and flight certification is our goal. That's part of our plan. That's what's been announced. Our deputy administrator, Fred Gregory, is travelling with them right now down to Shreveport, Louisiana, to assure that Admiral Gehman and his investigative board has all the support they need in order to come to conclusion on what caused this horrific accident.%

NASA administrator Sean O'Keefe said on „Fox News Sunday% (2/2) „We are in the process of collecting all the evidence necessary to determine exactly what caused this horrific incident. And it's been an accident of epic proportion. Clearly, the families have suffered tremendously. And we've communicated to them and worked with them to assure them that all the facts will be gathered. We will come to conclusion on exactly what caused this. An internal process is under way right now in the Shreveport, Louisiana, area, staged from there and east Texas and through west Louisiana, to collect up all the evidence necessary to determine exactly what caused this. We've also formed an independent external review group of objective, independent experts who will come in and make sure we're looking at every piece of evidence to find out what the cause of this tragedy was. It will be led by Admiral Harold Gehman, who was, you may recall, Tony, three years ago was the presiding officer on the USS Cole incident. And so we've asked him to lead that external investigation. So we're leaving nothing to chance. We're looking at every piece of evidence. We're securing all the debris and assuring that we look at every possible angle of what could have caused this horrible accident. Σ At this stage, you know, we are making sure that we don't take any pet theory or any one approach and favoring over one or another. We're making sure we look at every possible piece of evidence, every possible element of what could have gone wrong.%

NASA Administrator Sean O'Keefe, asked on NBC's „Meet the Press% (2/2, Russert) if budget constraints might have compromised shuttle safety, said, „I don't think so. Σ The shuttle orbiter each and every time it goes through a flight is then processed after the flight concludes. All repairs are conducted. Every three years, it's put through a major orbiter modification program. So it's essentially rebuilt in as-new condition. And remember, theΣColumbiaΣthe oldest of the orbiters at 20 years oldΣis half the age of most of the aircraft that flew over Afghanistan during the campaign a year ago . So, you know, safety of flight consideration is a thing we take very, very seriously. And we believe that the condition of the orbiters is certified for flight when we certify the launch each and every time. There is nothing that could possibly be left to chance in that case and there are no objections that are overruled of anyone who believes that there is a safety consideration. We make sure that all those are on the ground. So the condition of the orbiters is as good as we can make it and better in that respect, and they are in extremely flight-worthy status. We're going to find out what led to this incident and correct it.

NASA Administrator Sean O'Keefe was asked in an interview on CBS News, „Face the Nation% (2/2, Schieffer) if there were any preliminary indications as to what happened to cause the Columbia tragedy. O'Keefe said, „

We have begun the investigation. Late yesterday afternoon a team of investigators and technical experts from around the NASA community arrived in Shreveport, Louisiana, at Barksdale Air Force Base. They're staging there. And there are a range of federal agencies, from the Federal Emergency Management Agency, the FBI, a wide range of federal involvement, plus the state and local law enforcement officials and emergency services groups that are all helping us secure the evidence to assure that there is no tampering with that evidence so we can make a determination of exactly what did happen. We owe it to the families of the crew to determine exactly what happened, to tell them exactly what occurred, to tell the American people what occurred, correct those problems and assure that we fly safely in the future. Asked if NASA would try to reassemble Columbia as part of the investigation, O'Keefe said, "Well, we're working with the NTSB, the safety organizations and the ones that investigate accidents. We usually help with them. So in these cases, what we're doing as a team is assuring that we've gathered the evidence, that we have everything secured so we can examine it. It will not be a reconstruction of it, as you will, because it's a pattern of orbiter Columbia shuttle debris that stretched over the span of about 500 miles. So collecting each of the pieces here and making sure we understand exactly what the cause of this horrific accident was is our first and foremost objective. And the facts are being collected right now. And again, the state and local law enforcement officials have been enormously helpful. Governor Perry and Governor Foster, from Texas and Louisiana respectively, have been enormously helpful in assuring that all the evidence is preserved so we can figure out exactly what did happen. Asked if consideration should have been given to aborting the mission after Columbia's wing was struck by a piece of insulation during the launch, O'Keefe said, "Well, no. This is an incident that is not unusual, that does occur on launch on occasion. But we're not ruling this out. There is nothing we're ruling out. We're going to look at this incident; we're going to look at every other potential abnormality that occurred. There was nothing abnormal about any event before launch, during launch, during on orbit for the 16 days that Columbia spent up there and did a brilliant job on the science mission that was assigned to it. And as the crew came back through, it was only at 9:00 a.m. eastern time that it was very clear that there was beginning to be some serious problems when we lost communication. Until that time, everything was normal. So we're not ruling anything out. We're looking at every possible thing that could possibly have gone wrong. And we're locking down all the evidence, as we did right after the event, in order to make sure it's all preserved so we can examine every single detail and explore every theory."

**Former Astronaut Says Money Can't Buy "Total Safety" For Shuttle Crews.** Former astronaut Mike Mullane in an interview on CBS News "Face the Nation" (2/2, Schieffer) was asked if the astronauts on Columbia could have done a space walk to check heat tiles for damage prior to their attempted return to earth. Mullane said, "Well, we always have the capability for two members to do a contingency space walk. The problem is, there are no handholds underneath the belly of the space shuttle. It would be impossible to do a walk and maneuver yourself underneath the belly of the space shuttle to do any type of inspection or repair. We have no capability of repairing a damaged heat tile. Asked if he'd ever felt that budget cuts had made his own flights less safe, Mullane said, "I never, ever felt that there was any safety compromise on any of my missions. Again, it's not money that makes a vehicle safe like this. It's people. The people are very dedicated, they're very smart. And I always had a high degree of confidence that people were doing their absolute best to make the vehicle safe. I mean, you could give infinite money to the program, and that's not going to buy you total safety. It's the attitude of the team, it's the people, and they're very, very good." Mullane added, "By the way, on that foam (insulation) that came off (and hit the wing during the launch), I think an analogy that people ought to have in mind, when the engineers were thinking about this and dismissing it as a possible serious problem, is, imagine driving down the highway at

70 miles an hour and having a styrofoam cooler -- I mean, this insulation is very, very light -- it's mostly air, it's blown-on insulation, it's very light. And imagine, it's like styrofoam. And imagine a styrofoam cooler blowing out of a pickup truck and hitting your car as you're driving at 70 miles an hour. Would you worry about damage to your car? Would you worry that it had penetrated the steel or broken or dented? Obviously not. I could see why the gut reaction of engineers looking at that video would be that this could not have caused any significant damage to this vehicle.%

**Local TV Coverage.** WABC-TV of New York, NY (2/2, 10:04am) reports, „The shuttle Columbia was returning from its 28th mission in 22 years. It was NASA's very first shuttle. Over the years it experienced significant wear and tear and was refurbished many times. One of the questions being asked this morning, whether Columbia's age contributed to [this] tragedy and whether the shuttle program has enough funding to remain safe. Columbia was an amazing ship. It was the first space shuttle vehicle to fly into space. When it completed its first mission 22 years ago in April of 1981, the space shuttle Columbia represented the latest in American technology, the technology of the 1970s. We're really talking about 1973 to 1976 was when the technology got really put into place., But NASA administrators say age has nothing to do with what happened yesterday. but as NASA also concedes, looks can be deceiving. Columbia and other shuttles were grounded last summer when hairline cracks were discovered in the hydrogen propulsion system. Columbia was in and out of the shop all the time for a long list of safety problems, which NASA says it was able to identify in order to keep the vehicle in good repair. The question, however, is whether NASA is in good repair and they have certainly been battered by a lot of very stringent budget restrictions over the last decade or so and I think it leads to the question of whether in trying to cut costs, they've also cut corners and compromised safety. Despite an excellent safety record overall, a General Accounting Office report issued just a few weeks ago reached a scathing conclusion, that cutbacks during the Clinton administration reached the point of reducing NASA's ability to safely support the shuttle program., And that despite efforts to improve under the Bush administration little had changed. These challenges have not been mitigated.,%

KRQE-TV in Albuquerque (2/2, 5:31 pm) reports, „What took seconds to destroy, could take months to piece back together. With remnants of space shuttle Columbia scattered across a 500-mile stretch of east Texas, investigators are faced with a painstaking mission of determining just what went wrong.% NASA administrator Sean O'Keefe said, „We owe it the families of the crew, to determine exactly what happened, to tell them exactly what occurred, to tell the American people what occurred.% KRQE-TV adds, „While NASA's immediate probe focused on possible damage to the left wing during liftoff, officials stress that no theory is being ruled out. O'Keefe said they're not wasting any time trying to find out what went wrong. In a press release sent out by NASA today, O,Keefe said, We have a responsibility to quickly move forward with an external assessment to determine exactly what happened and why. We need to be responsible, accountable and extremely thorough in this investigation, this panel is charged with a most difficult task., Their findings will help push Americas space program successfully into the future.%

KTVT-TV in Dallas (2/2, 5:40 pm) reports, „The NASA briefing was a mixture of technical talk about where the investigation stands now mixed in with some very somber emotion. On the technical side NASA is now focusing on the left wheel well area and the left wing itself. New data reveals the temperature directly above the left wing jumped some 60 degrees within just five minutes. As NASA continues to sort through the debris and technical data, they are also dealing with the emotional fallout as well. Ron Dittmore, the Program Manager, went on to say that losing one heat shield tile on the left wing would not lead to the loss of the space shuttle Columbia. But in the same breath, he went on to say that the wheel well area of all space shuttles has always been, in his words, a sensitive area. Of course this is just the beginning of a long investigation. The independent review board will hold

its first hearing tomorrow in Louisiana.%

**Remains Recovered.** CBS (2/2, lead story, Rather) reports, „The search for clues to the cause of the Columbia disaster is underway in every sense tonight. At the highest levels, the official investigating commission is taking shape, while on the ground, searchers have already found wreckage in 23 counties and parishes of Texas and Louisiana, part of a debris field that stretches from the Dallas-Forth Worth area to New Orleans.% CBS (McNamara) adds from Nacogdoches, Texas, that „a large number of human remains and a sizeable portion of the front fuselage of Columbia, possibly the crew cabin, has been found in east Texas. The fuselage was found near here, Nacogdoches. It was a major development in a long day of receiving. In the brushy east Texas backcountry, volunteers on ATVs and horseback joined the massive search to track down scattered shuttle debris and the remains of the seven crewmembers.% Nacogdoches County Sheriff Thomas Keress was shown saying, „There's debris that we may have to rely on hunters or wildlife enthusiasts to help us uncover, and it may be a week or months down the road before that happens.% CBS adds, „From pebble-sized pieces to the charred evidence of a horrific fire in the sky, the hardware and even the headgear of NASA cover a debris field over hundreds of square miles that technicians map with global positioning.% Some „of the wreckage rained down on schools, and officials rushed to mark it before students return Monday.% Blackhawk helicopters „scanned the Toledo Bend Reservoir Area on the Texas-Louisiana border, where a section of shuttle debris described as the size of a compact car is submerged.% Sabine County Sheriff Tommy Maddox was shown saying, „Sonar equipment there was used. Anyway, it did reveal there was something large.% CBS adds, „It could be days before much of the wreckage is recovered and taken to a hangar at Louisiana's Barksdale Air Force base for analysis. Souvenir hunters are warned to stay away.% People „who've found debris could face more than arrest for taking it.% Keress was shown saying, „If they touch the wrong component, they could be seriously ill or possibly even die from it.% CBS adds, „People have gone to the hospital after touching the debris, but no injuries have been reported.%

NBC (2/2, story 2, B. Williams) reports, „There is so much debris on the ground here in Texas, one sheriff in the northeast part of the state said there's more debris than manpower to pick it up. The debris field is enormous. It's hundreds of miles long and several counties wide.% NBC (Avila) adds, „We are standing at the Toledo Bend Reservoir, part of the impact zone of Columbia, and here they used horses, boats, satellites even to look today for evidence, some proof of what might have happened to Columbia over the Texas woods. They came by the busload, more than 200 searchers, most volunteer firefighters or off-duty police walking 10 feet apart, some equipped with backpacks carrying GPS, some on foot, others on foot, all supervised by a NASA helicopter. 250 square miles, more than 150 pieces of debris already found over rough terrain.% From „obvious spaceship wreckage, metal five feet tall, now standing alone in the Texas woods, to an astronaut's dented helmet and a sky-blue patch -- intact, undamaged, unburned in its 39 mile fall to earth.% Columbia's „metal debris is vital to the investigation. What searchers find in the woods today may help tell the story of what happened on reentry.% Volunteers are also „looking for human tissue in the woods. More found today, remains now marked by a simple cedar cross built by Roger and Jeanie Coday.% Late today, „a setback. A recovery mission on the Toledo Bend Reservoir comes up empty when two police boats looking for the single largest piece of wreckage strike out. Fishermen gave these GPS coordinates in shallow water, but nothing was found.% So „tonight, this reservoir still holds what could be a critical, large piece of the wreckage. They'll search again tomorrow.%

NBC (2/2, story 2, B. Williams) reports, „To another Texas town now where picking up this debris was a day-long event.% NBC (Cummins) adds, „The small city of Nacogdoches, Texas% was „showered with the wreckage, more than 500 pieces inside the city limits alone, all sizes and shapes, at least 100 pieces under 24-hour military surveillance. Sometimes the debris is barely noticeable. Here on this street, a

piece of what appears to be tile landed on the road, sat here for three hours and presumably was driven over by cars. Eventually, the fire department came here and put it over here on a water meter box in this front yard. Authorities „say they are still fielding calls about shuttle debris at the rate of 25 an hour. They say at least 70 people have gone to the emergency room to be checked for contamination. So far, everyone is OK.%

WFOR-TV in Miami (2/2, 6:36 pm) reports, „Driving east through the Texas country side, you can't miss the crime scene tape surrounding the spot where chunks of wreckage are located, each guarded under the watchful eye of a Texas State Trooper. 70 miles from Palestine is Nacogdoches, the epicenter of where much of the debris has fallen. If you look in the parking lot of this bank here, you can see part of the shuttle Columbia and down here, a series of flowers and candles and flags and memory of the people lost. 50-miles down the road, search teams are busy outside, scouring a reservoir, using global positioning system, sonar, and underwater cameras, looking for a large chunk of metal about the size of a small car. The grim task continues for federal, state and local investigators. They must continue identifying the pieces of wreckage. Significant pieces will be photographed and protected, then the whole area, the 500-square mile area will be mapped and eventually begin the process of collecting what they need.%

KDFW-TV in Dallas (2/2, 5:30 pm) reports, „One of the problems in the last two days for both federal state and local officials has been finding enough people to help locate debris and then secure the sites. Volunteer firefighters gathered in San Augustine to begin searching rural areas for debris. These people are part of a special response team that spread out over San Augustine County to comb through the thick piney woods for pieces of Columbia.%

KXAS-TV of Dallas, TX (2/2, 6:31am) reports, „Incredibly, items relating to the Columbia -- but nothing from the wreck -- are appearing on eBay. More than 400 items on the site relating to Columbia including heating tiles, belt buckles and a patch for the mission up for sale, and it's gone up now to \$1,000.%

WRC-TV of Washington, DC (2/2, 6:48am) reports, „Hundreds of Columbia space shuttle collectibles were listed on eBay before the accident. Now the prices have soared to thousands of dollars for some items. As the oldest of the shuttle fleet, many items once used by Columbia are now souvenirs. The most sought after, old ceramic heat tiles that could no longer be used. Each shuttle takes off with 34,000 heat tiles in place. Also among the items on eBay, belt buckles, uniform patches, photos, and commemorative coins from earlier flights. eBay has deleted several items billed as debris from the space shuttle Columbia from its on line auction site.%

WXXA-TV of Albany, NY (2/2, 10:07pm) reports, „Items relating to the space shuttle popped up on the internet auction site eBay just hours after the tragedy. Everything from t-shirts, commemorative medals, patches, and launch autographs. Some sellers said they even had actual shuttle materials like debris, tiles, and a tail piece. Those items have been pulled from the site. Shuttle patches that couldn't fetch five dollars are now reaching bids as high as \$255.%

KPNX-TV of Phoenix, AZ (2/2, 5:47pm) reports, „NASA leaders are expressing their distaste with people, trying to sell bits and pieces of the space shuttle Columbia. eBay quickly removed auctions off its site. NASA has not verified the authenticity of the items. No one has been looting, but the FBI, we're told, is investigating.%

**Sellers Of Actual Wreckage Could Face Jail, Stiff Fines.** KUSA-TV of Denver, CO (2/2, 7:33am) reports, „Some people who posted items on e-Bay shortly after the crash -- hoping to make a quick buck -- could face federal charges. e-Bay says it yanked several items from the site that were billed as wreckage from Columbia. The sellers were reported to the FBI. Taking a part of an aircraft involved in an accident is a federal offense. If the items were authentic, the sellers could face ten years in prison and a \$250,000 fine.%

**Gehman Selection.** CBS (2/2, story 2, Rather) reports, „NASA today named retired Navy Admiral Harold Gehman to head an independent commission investigating the



disaster. The Admiral helped investigate the terrorist attack on the USS Cole. NBC (2/2, lead story, Hager) reports, "To head the investigation, NASA Administrator Sean O'Keefe today appointed retired Admiral Harold Gehman. Earlier, Gehman co-chaired an investigation of the terrorist bombing of the USS Cole two years ago. KPNX-TV in Phoenix (2/2, 5:01 pm) reports, "To head the investigation, O'Keefe today appointed retired Admiral Harold Gehman. Earlier, Gehma co-chaired an investigation of the terrorist bombing of the USS Cole two years ago. WJBK-TV in Detroit (2/2, 10:01 pm) reports, "NASA administrator Sean O'Keefe named a formal Navy Admiral to head up an independent review of the disaster and for now, any return to space is a long way down the road."

**NASA Budget Reductions.** CBS (2/2, story 3, Rather) reports, "In Washington today some tough questions were being raised over the shuttle Columbia disaster. CBS (Roberts) adds, "President Bush attended church this morning amid questions on both the shuttle program's future and whether budgetary belt-tightening may have contributed to the disaster. Florida Senator Bill Nelson, who flew aboard Columbia in 1986, has been critical of cuts that have delayed safety upgrades on the shuttle fleet. Nelson was shown saying, "They have been starving the NASA budget and delaying the safety upgrades. That, sooner or later, is going to catch up with us. CBS adds, "NASA's overall budget has been pared by 40% over last decade. Funding for the shuttle this year was cut \$64 million from 2002. Last April, the former chair of the Aerospace Safety Advisory panel told Congress, "I have never been as concerned for space shuttle safety as I am right now., NASA officials insist that safety is their primary concern, and many members of Congress believe that is true. Sen. William Frist was shown saying, "There is absolutely no evidence that I have heard to date that safety has been compromised at all by the amount of money that's been spent. CBS adds, "But Don Nelson, a retired NASA engineer who helped design the shuttle, couldn't disagree more. He claims NASA failed to respond to repeated signs that an aging shuttle fleet was heading for another disaster. Last August, he wrote President Bush, urging him to place a safety moratorium on shuttle flights, saying, "Your intervention is required to prevent another catastrophic space shuttle accident. Nelson was shown saying, "What you've got to realize is that this is a very risky business, and there has never been a launch vehicle that has gone more than 100 flights before we've had a catastrophic failure in it. CBS adds, "No one can yet say if this was the result of a lingering safety issue or a bolt out of the blue that nothing could have prevented. President Bush will propose a \$500 million increase in NASA funding in his budget to be unveiled tomorrow. But congressional leaders promised today if there was a safety issue related to funding it will be addressed aggressively."

**Frist Satisfied That NASA Puts Safety "First And Foremost. On All Space Missions.** Senate Majority Leader Bill Frist in an interview on CBS News "Face the Nation" (2/2, Schieffer) was asked if he believed that the shuttles might be getting too old and if budget cuts had put safety at risk. Frist said, "I was chairman of the Science, Technology and Space Subcommittee, which is within the Commerce Committee, chaired at that time by Chairman McCain, and he also chairs it now. And we had a whole range of hearings looking at the issues that people are beginning to talk about this morning and last night: Issues surrounding the budget, is it sufficient, the workforce, the aging workforce, the issue surrounding shuttles that were initially envisioned to have a useful life of X number of years and now being extended to 2015, 2020. Coming through those hearings -- and, again, this was several years ago, but the exact same issues that we will revisit once again -- I was satisfied, and my colleagues were satisfied in the United States Senate that in this day and time, safety is first and foremost built into the culture, built into the minds of each and every one of those individuals who are, almost by hand, putting the shuttle together and refurbishing it and modernizing it to make sure it is absolutely safe. The overall correlation with money, which will come up again and again, both in the Congress and outside, again, in terms of the priority being first and foremost

safety, over time the number of shuttle flights have been cut back instead of being on one schedule, less frequent. Why? Because you want to make absolutely sure that at the end of the day, the safety of the vehicle itself, the individuals that you place in that vehicle are first and foremost. Asked if he was satisfied that safety is put first and foremost in the space program, Frist said, "I'm satisfied that it is. And, you know, if we look back to 1986 and the investigations that were carried on then, some very pointed criticisms were made with regard to safety and certain areas, that that primary concern may have slipped. But I'm convinced -- and I, like everybody else, need to wait for the investigations -- but that safety is first and foremost and that that has been upheld."

**CBS News, Consultant Says Increased Spending Could Enhance Safety.** Bill Harwood, CBS News space consultant, was asked in an interview on CBS News, "Face the Nation" (2/2, Schieffer) if officials at NASA now believe that the piece of insulation that struck the shuttle's wing during the launch could have possibly been the cause of the disaster. Harwood said, "There was an investigation of that. When you see it, it looks dramatic, but the experts and the way the shuttle's heat protection system works deemed it safe for reentry. The flight director, Leroy Cain, said there was absolutely no reason to do anything different during Columbia's reentry. Again, I think hindsight's 20-20. They're going to have to look at it. But I would point out, in an accident this complicated, with a machine moving this fast and those kinds of temperature environments, it's really difficult to connect A to B without any direct evidence." Asked if any NASA officials had suggested that budget cuts had caused a loosening of safety measures, Harwood said, "There's a general concern with NASA and folks in the aerospace industry that there's not a political will in this country to increase the spending necessary to, A, either replace the shuttle -- and remember, this is a 30-year-old design -- or if you're not going to replace it, to implement the kinds of upgrades that you need to continuously modernize the vehicle. Now, of course NASA has done that to a large degree, putting in new glass cockpits, high-tech displays, doing structural inspections regularly, and upgrading systems as they can. But I think clearly, if the shuttle is this nation's one vehicle indefinitely, it's probably worthwhile to spend some more money to increase the safety of some of the systems on board."

NBC (2/2, story 4, B. Williams) reports, "This disaster might just force a good, hard look at NASA's operations. Cuts in money and staff have raised questions recently. Then there's the larger question. Is there still a reason to send Americans up into space, and as we now know, into great danger? Do Americans still see space as the next frontier?" NBC (Bazell) adds, "Schoolchildren love the wonder of people in space, as do most adults. NASA insists that Columbia tragedy will not detract from that goal." NASA Administration Sean O'Keefe was shown saying, "Our objective is to find out what caused this, fix it, and make sure that we support the dream, the vision, that those folks gave their lives to." NBC adds, "But for years, NASA has been facing questions about just what people are doing in space. Since the Challenger explosion, the goal has been scientific experiments and construction of the international space station to allow people to live and work in space for months. But experts like Dr. Robert Park say the science is just not that good." Park was shown saying, "I think it's fair to say that none of the science that has been done on the space shuttle or on the space station has significantly impacted any field of science. That doesn't mean it's bad research. But it's not terribly important, generally." NBC adds, "Why? The shuttle and station fly in the same orbit John Glenn achieved in his historic 1963 flight. The Russians kept the space station, Mir, aloft for years. So much that can be learned is known already. The space station was supposed to be bigger than Mir, housing 12 astronauts. But when costs climbed from \$8 billion to \$150 billion, NASA cut back so it could only house three, the same as Mir. Indeed, because of the questions about its mission, NASA lives with constant budget pressure. Many say it could threaten safety." Former Columbia pilot Guy Gardner was shown saying, "Any program where you're dealing with aging equipment,

particularly if you're putting it under the stresses that the space shuttle goes under, aging is a concern.% NBC adds, „But what about the idea that the space program has given us all sorts of products, from teflon to the artificial orange drink tang?% Park was shown saying, „It turns out that most of these things were not developed by NASA or for NASA. They were developed independently, but the makers found that it was good business to say it had been developed in the space station.% NBC adds, „Many would agree that America's space program needs a vision, one they say was lacking long before the Columbia tragedy.%

**Nelson Says Lack Of NASA Funding Increased Likelihood Of Catastrophe.**

Sen. Bill Nelson was asked on NBC's „Meet The Press% (2/2, Russert) to explain what he meant when in a congressional hearing he said: „We are starving the shuttle budget, greatly increasing the chances of catastrophic loss.% Sen. Nelson replied, „Over the past decade, NASA's budget has not increased in real spending dollars. The safety upgrades for the space shuttle have been delayed, and there have been a number of us, in NASA as well, that have been hammering on the administration to continue these upgrades. Now, I don't think that the delays of those upgrades had anything to do with yesterday's tragedy. But now, sadly, because of this tragedy, we'll get those upgrades because we're going to have to fly as safe as possible.%

Rep. Sherwood Boehlert on ABC News „This Week% (2/2) said that in the past „when people have talked in the past about Draconian cuts for NASA that just has not occurred. As a matter of fact, last year we had \$600 million more for NASA than the previous year. The previous year was \$600 million more than the previous year. In every instance, what we have continued to do, no matter what we've appropriated from Congress, is to focus on safety. Congress has driven the safety issue, constantly reminding and focusing on the importance of safety.% Asked about previous concerns raised by Richard Bloomberg, the former chairman of NASA's Aerospace Safety Advisory Panel, about safety. Boehlert said, „And the chairman, Mr. Bloomberg, pointed that out to us and we had a very spirited discussion. And our concern was evidenced by the fact that we have provided more money this year than last year. But let me point out what Bloomberg was saying. He was saying, not on current missions, he was focusing on the longer-range deterioration for future missions. And so he was saying that we have to do something about that, and we did, and we provided the extra resources. And NASA was prompted to ask for money. We provided more money in the current budget.%

**Columbia Crew Remembered.** NBC (2/2, B. Williams) reports on the „staggering loss this accident represents in human terms. These were seven extraordinary individuals. Some of America's best and brightest. They were moments away from ending what they thought would be a successful NASA mission. Few people knew their names up until yesterday.%

NBC (2/2, story 2, B. Williams) reports on „the impact right here in Houston. And you know the old-timers still call this Space City. The tight family known as NASA is hurting tonight.% NBC (O,Donnell) adds, „10,000 people earn their living inside the fences work at the Johnson Space Center. But every one you meet here claims the space program as their own. And the lives lost aboard the shuttle as a death in the family.%

NBC (2/2, story 6, B. Williams) reports, „All across the country today, you heard the same sentiment about the tragedy that brings us here to NASA in Houston. Wasn't there enough sadness already of late? Why did seven astronauts have to die?% NBC (O,Neil) adds, „The crew of Columbia remembered in prayer and song this morning in houses of worship across America, across the world.% In „big churches, little churches, all places of faith, ministers spoke of sacrifice, courage, and the faces of astronauts. Near the Kennedy space center, one pastor called the trail of smoke a glistening tear across the face of the heavens. In Rome, Pope John Paul said he will remember the astronauts in his prayers. American soldiers in Afghanistan remembered them, too, in a memorial service.%

**United Space Alliance.** KSNW-TV in Wichita (2/2, 10:05 pm) reports, „As

investigators search for a cause to the shuttle crash, they'll be getting help from Boeing. That's because the company has a huge stake in the shuttle program. Boeing did not build the shuttle Columbia, but it took over shuttle operations in the mid-90s. That's when Boeing bought into the United Space Alliance, replacing the Rockwell Company to work alongside Lockheed Martin. NASA awarded the alliance its sole contract in 1995. It is a \$12 billion deal over ten years, and much of it hinges on safety. Forty percent is an award fee, for meeting safety and quality standards. Another 40 percent is a performance incentive, for safely meeting mission and schedule deadlines. NASA administrator Sean O'Keefe said, "During the course of operations, every single issue we could think of to assure schedule deadlines. We could think of to assure course of operations, considered." KSNW-TV adds, "But congressional auditors are questioning not Boeing's safety, but NASA's, saying the agency hasn't spent enough money to stay safe." Sen. Bill Nelson, former Columbia Astronaut said, "Over the past decade, NASA's budget hasn't increased in real spending dollars. The safety upgrades for the space shuttle have been delayed." John Logsdon, space policy expert said, "The agency, for 10 years, has been asked to do more than it has been given the budget to do." KSNW-TV continues, "There will be three separate investigations into the shuttle tragedy, including one chaired by Kansas Senator Sam Brownback. With the shuttle program on temporary hold, it remains to be seen how Boeing's bottom line will be affected. The company takes in \$2 billion a year from the space program. That's about four percent of its overall business."

**ISS Crew.** NASA Administrator Sean O'Keefe, asked on NBC's "Meet the Press" (2/2, Russert) if the three astronauts aboard the ISS might return to earth in a Soyuz capsule, said, "It's too early to speculate, but yes, indeed, there is a capability to assure that the crew is returned safely. And that capability is permanently docked aboard the International Space Station. Nonetheless, the approach we always use -- that's in the most extreme of emergencies -- is to assure that the space shuttle is launched for the purpose of not only bringing home the current crew but bringing expedition seven up as soon as that's possible. They've been training for this, they're ready to go, and that crew is ready to take on that next mission and that's exactly what we are going to do as soon as we know that it can fly safely and that every operational consideration has been factored in order to assure safety of flight. That's what we are dedicated to every day. We're not going to change that now."

NASA Administrator Sean O'Keefe, asked on ABC's "This Week" (2/2, Stephanopoulos) to comment on the astronauts stuck on the ISS, said, "As it stands right now, we're put the shuttle flights on hold until we've found out what was the cause of this accident. Once we find out what that cause was, and once we correct that, we're going to fly again. And at present, matter of fact, our scheduled flight that was due to take off did, this morning, that our Russian partners in the International Space Station were planning and had sponsored, which is an unmanned flight that is full of logistics and resupply material for the International Space Station. That was part of the normal scheduling. It was due to take off today, and it did, and it's on its way to International Space Station. That'll sustain the crew there for some time ahead. And we've talked to the crew. They are in good spirits. They understand exactly what the focus is, why we're trying to figure out what we're doing, and they know we're worried about them, and they know we're focused on making sure they're fully supported, and that as early as we can possibly get back there to rotate that crew and bring them back home and send a new crew up, that's exactly what we're going to do. The current resupply material is going to extend them through at least early summer, late spring. Again, we were planning on sending a flight, as you mentioned, in early March. We'll see what the results of this investigation are. If we can ascertain the source of this particular problem, what caused it, and we can correct it, or determine exactly whether it's operationally possible to fly safely, that's our first and foremost objective each and every time. We're going to get up

there as soon as we possibly can to assure that they're brought back home safely as well.%

Fred Brown  
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X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Mon, 03 Feb 2003 19:22:12 -0500  
To: news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: Tuesday's Telecon Cancelled  
Sender: owner-news-chiefs@lists.hq.nasa.gov

The Tuesday Shuttle Mishap Press Conference is 4:30 p.m. EST at NASA HQ. DAA Kostelnik preciding.  
We'll do the next PAO telecon tag up for news chiefs at 1:30 p.m. Wednesday. Thanks for the great support and input.  
FEMA PAO POC: Chad Kolton, 202/646-4600; www.fema.gov

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-paos-hq using -f  
X-Sender: pwilliam@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Mon, 03 Feb 2003 19:09:16 -0500  
To: paos-hq@lists.hq.nasa.gov  
From: Patrice Williams <pwilliam@hq.nasa.gov>  
Subject: Tuesday's Telecon Cancelled  
Cc: patrice.williams@hq.nasa.gov  
Sender: owner-paos-hq@lists.hq.nasa.gov

The PAO telecon scheduled for Tuesday, February 4 has been cancelled due to the memorial service.

-Patrice

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Chief, NASA News & Imaging  
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**MISSION CONTROL CENTER STATUS REPORT #21**  
**STS-107 Accident Response**  
**Monday, Feb. 3, 2003 – 8:00 p.m. CST**

NASA engineers continued to review data and recover debris from the Space Shuttle Columbia today as the analysis of what caused the orbiter to break up Saturday en route to landing continued.

Space Shuttle Program Manager Ron Dittmore told an afternoon briefing that several teams of engineers are making progress in their study of data and video from Columbia's launch and entry, but cautioned that it is a "massive job" requiring round-the-clock efforts to piece together the events that led to a loss of communications with the Shuttle over north central Texas 16 minutes prior to touchdown.

Still, Dittmore said NASA would pause Tuesday for a memorial ceremony at the Johnson Space Center at 1:00 p.m. EST to honor the lives and the memory of Columbia's astronauts, Rick Husband, William McCool, Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Ilan Ramon. President and Mrs. Bush will join NASA Administrator Sean O'Keefe at JSC for the memorial which is closed to the public, but which will be broadcast on NASA Television.

Dittmore said the memorial represents an opportunity to take time to remember the sacrifice of the astronauts, to mourn them and to "remember our friends."

Dittmore offered additional and refined information regarding the timeline of events that led to Columbia's breakup on Saturday (all times CST):

- At 7:52 a.m. CST, three-left main gear brake line temperature sensors showed an unusual rise in the left wheel well area.
- At 7:53 a.m., a fourth left brake line strut actuator temperature sensor showed a 30-40 degree rise in temperature over a five-minute period, slightly higher than reported yesterday.
- At 7:55 a.m., A fifth left brake line main gear sensor showed a sharp rise in temperature.
- At 7:57 a.m., left wing temperature sensors failed "off-scale low", meaning no further data was being received on the ground.
- And at 7:59 a.m., just before communications was lost with Columbia, there was evidence of drag on the aerosurfaces of the left wing, causing two out of four yaw steering jets in that area of the Shuttle to fire for 1.5 seconds to counteract the increased drag.

Dittmore said more time will be needed to retrieve an additional 32 seconds of data acquired by ground computers after communications was lost with Columbia to see if it is useful to the inquiry. He said engineers would go directly to the Tracking and Data Relay Satellite System ground station hub in White Sands, New Mexico to collect and analyze that data in its pristine form.

Although the investigative teams have a "high interest" in the left hand wheel well area of Columbia, Dittmore cautioned that a temperature increase there does not indicate that

a structural problem occurred as a factor in the vehicle's breakup. In fact, Dittmore said the data suggests that "something else" may have been happening at the time, not indicative of a structural breach.

Responding to inquiries regarding a piece of foam insulation which fell off Columbia's external fuel tank about 80 seconds after launch that struck the left wing of the Shuttle, Dittmore said imagery analysis showed that the foam measured about 20 inches by 16 inches by 6 inches and weighed about 2.67 pounds. He reiterated that engineering analysis conducted during the flight concluded for NASA managers that although the foam might have caused some structural damage to the wing area, it would not have been sufficient to cause a catastrophic event.

"There is some other missing link contributing to this event," Dittmore said. We are extremely interested in seeing any debris that may have fallen upstream of the main impact area," referring to any additional debris which might be recovered in an area to the west of Texas.

Earlier today, former President George H.W. Bush and Mrs. Barbara Bush visited the International Space Station flight control room at the Johnson Space Center, Houston, TX to pay their respects to the flight controllers and to the Expedition 6 crew aboard the orbital complex.

The former president told Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit that President Bush relayed his "full confidence in the space program" in a conversation with the elder Bush Sunday. The former president told the crew the men and women of NASA were showing "great courage" in the wake of the accident.

Bowersox, Budarin and Pettit spent the day preparing for the docking of a Russian Progress resupply vehicle to the ISS Tuesday at 9:50 a.m. EST. The new cargo ship, which contains a ton of food, fuel and supplies for the crew, was successfully launched Sunday from the Baikonur Cosmodrome in Kazakhstan. NASA TV coverage of the Progress docking to the ISS begins at 9 a.m. CST Tuesday.

The next STS-107 Accident Response briefing will be held on Tuesday, Feb. 4 at NASA Headquarters in Washington at 4:30 p.m. EST. Status reports will be issued as developments warrant.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Mon, 03 Feb 2003 20:07:58 -0500  
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: MSNBC./Mystery Solved  
Sender: owner-news-chiefs@lists.hq.nasa.gov

In case there is any confusion... there is no secret e-mail or report.

I talked with Jay Barbaree this morning after seeing the report... and on review of the documents, the MSNBC report... which was picked up by other media outlets... is making reference to the STS-107 "TWELTH DAILY REPORT."

The quote that has everyone excited, but is apparently old news, is...

"The damage conditions include one tile missing down to the densified layer of the tile and multiple tiles missing over an area of about 7 in by 30 in. These thermal analyses indicate possible localized structural damage but no burn-through, and no safety of flight issue."

Thanks,  
Bob

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,  
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov, l.r.rich@larc.nasa.gov,  
a.z.parker@larc.nasa.gov

From: Marny Skora <m.m.skora@larc.nasa.gov>

Subject: Info on Thursday's memorial

Cc: m.p.finneran@larc.nasa.gov

Bcc:

X-Attachments:

---

All--

FYI

Bob--

Please post on @LaRC after today's ceremony and for tomorrow

marny

---

## **VICE-PRESIDENT TO HONOR COLUMBIA'S CREW AT NATIONAL CATHEDRAL**

Vice-President Richard (Dick) B. Cheney will join NASA Administrator Sean O'Keefe Thursday, Feb. 6, at the Washington National Cathedral for a private memorial service to honor the dedicated and brave crew of the Space Shuttle Columbia.

The service is scheduled to begin at 10 a.m. EST at the historic cathedral, which is known as a national house of prayer for all people. Dignitaries, community and political leaders, members of the NASA family, including current and former astronauts, all will come together to pay tribute to the crew, who died Saturday.

The ceremony can be seen on NASA Television and is available on the Internet at **[www.nasa.gov](http://www.nasa.gov)**.

NTV is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about the seven astronauts, Space Shuttle program, and the mission of STS-107 is available on the Internet at **<http://spaceflight.nasa.gov>**.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Mon, 03 Feb 2003 20:21:21 -0500


To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Memorial Service for Columbia

Sender: owner-news-chiefs@lists.hq.nasa.gov

DC memorial service.

 03-045MemorialService.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 3, 2003

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

RELEASE: 03-045

**VICE-PRESIDENT TO HONOR  
COLUMBIA'S CREW AT NATIONAL CATHEDRAL**

Vice-President Richard (Dick) B. Cheney will join NASA Administrator Sean O'Keefe Thursday, Feb. 6, at the Washington National Cathedral for a private memorial service to honor the dedicated and brave crew of the Space Shuttle Columbia.

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NTV is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about the seven astronauts, Space Shuttle program, and the mission of STS-107 is available on the Internet at <http://spaceflight.nasa.gov>.

-end-

SG-112 atk

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 08:05:53 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: JIC Open  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Joint Information Center Open.

From: "Kolton, Chad" <Chad.Kolton@fema.gov>  
Subject: JIC Open  
Date: Mon, 3 Feb 2003 21:41:53 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

This release was written when I was out and is a LITTLE short on detail. But I wanted you to know that do now have a JIC open. Sorry for the delay in getting it open and in notifying you about it. We are working with the staff there and at our Emergency Support Team facility at FEMA HQ to release search-find-secure update news releases twice a day (11 and 4). We are also having our lead official (Federal Coordinating Office, or FCO in FEMA parlance) conduct a regular on-the-record briefing on the same subject at 1pm (Lufkin time) each day. Please let me know if you have information you would like released from that location or included in the releases/briefings. Representatives at the JIC are also welcome.

Chad Kolton  
FEMA Public Affairs  
202-646-4600 main  
202-494-4899 cell

P.S. The contact number for the JIC is 936-699-1094. Best contacts are Mr. Kim Pease or Mary Hudak.

FEMA ESTABLISHES JOINT INFORMATION CENTER FOR COLUMBIA DEBRIS SEARCH, FIND, AND SECURE MISSION AT LUFKIN CIVIC CENTER

Washington, DC -Michael D. Brown, deputy director of the Federal Emergency Management Agency (FEMA), today announced the establishment of a Joint Information Center (JIC) for the space shuttle Columbia emergency response effort.

The JIC will be housed at the Lufkin Civic Center in Lufkin, Texas, and will serve as the clearinghouse for public information related to FEMA's ongoing

effort to support state and local efforts to rapidly identify and secure Columbia debris to protect the public, assist the investigation, and minimize the impact on local communities.

FEMA, the Environmental Protection Agency (EPA), NASA, the American Red Cross, the U.S. Forest Service, the U.S. Coast Guard, and the Department of Health and Human Services, and other agencies involved in the response activities will have representatives assigned to the JIC.

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> <<02-03-03 -- columbia jic release.doc>>



02-03-03 -- columbia jic releas

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 08:44:03 -0500
To: Marny Skora <M.M.SKORA@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Message of Gratitude
Cc: M.P.FINNERAN@larc.nasa.gov, M.PITTS@larc.nasa.gov

| A note from one of our past LARSS students. Karen

X-Originating-IP: [64.152.252.204]
From: [REDACTED]
To: k.r.credeur@larc.nasa.gov
Subject: Message of Gratitude
Date: Tue, 04 Feb 2003 00:33:24 +0000
X-OriginalArrivalTime: 04 Feb 2003 00:33:26.0141 (UTC) FILETIME=[07F792D0:01C2CBE5]

Dear Karen R. Credeur, Ph.D.

Space shuttle Columbia hit close to my home in Texas. Debris [REDACTED] were found twenty miles from my house. My heart goes out to those astronauts and to everyone in the space exploration community who try so hard and sacrifice so much to further our knowledge of the solar system we live in. After having an internship at NASA Langley Research Center I feel connected to the space program. Thank you for that experience.

[REDACTED]

Tired of spam? Get advanced junk mail protection with MSN 8.

--
\*\*\*\*\*
Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov
\*\*\*\*\*

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,  
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov, l.r.rich@larc.nasa.gov,  
a.z.parker@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Release -- memorial and briefings today  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:  Rel-03-011--memorial

---

All--FYI

Kim--Please distribute locally ASAP.

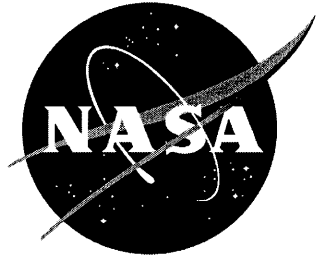
Bob--Please post.

marny

26-116



# NewsRelease



National Aeronautics and  
Space Administration

**Langley Research Center**  
Hampton, Virginia 23681-2199

Marny Skora  
Langley Research Center  
(Phone: 757/864-6121, 757/344-6111)  
[m.m.skora@larc.nasa.gov](mailto:m.m.skora@larc.nasa.gov)

For Release: Feb. 4, 2003

Megan Clark  
Virginia Air and Space Center  
(Phone: 757/722-0900, ext. 730)

RELEASE NO. 03-011

## **NO MID-DAY BRIEFING ON COLUMBIA INVESTIGATION TODAY**

The memorial service honoring the crew of space shuttle Columbia will take precedence over investigation briefings this morning. President Bush will join Administrator O'Keefe and the NASA family this afternoon in Houston to remember those lost and offer support to their families.

Local reporters who wish to cover the memorial can view the service at the Virginia Air and Space Center where it will be simulcast from Johnson Space Center at 1 p.m.

The Virginia Air and Space Center will be open to the public free of charge to enable area citizens to participate in the remembrance.

Today's Shuttle Mishap News Conference will originate from NASA Headquarters at 4:30 p.m. Deputy Associate Administrator for the Office of Space Flight Michael C. Kostelnik will preside. The 4:30 briefing will be carried live on NASA TV and will also be broadcast in the NASA Langley Research Center newsroom.

Reporters who wish to participate in the 4:30 briefing should call Margarette Pitts at 864-6124 to arrange for credentials and an escort to the newsroom.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

- end -

To: Karen Credeur <k.r.credeur@larc.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: Show in RCC: Thursday's memorial  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

[REDACTED]

[REDACTED]

FOIA Exemption (b)(5)

X-Sender: m.m.skora@express.larc.nasa.gov  
Date: Tue, 4 Feb 2003 08:26:36 -0500  
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,  
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov, M  
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,  
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Info on Thursday's memorial  
Cc: m.p.finneran@larc.nasa.gov

All--

FYI

Bob--

Please post on @LaRC after today's ceremony and for tomorrow

marny

**VICE-PRESIDENT TO HONOR  
COLUMBIA'S CREW AT NATIONAL CATHEDRAL**

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[www.nasa.gov](http://www.nasa.gov).

NTV is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about the seven astronauts, Space Shuttle program, and the mission of STS-107 is available on the Internet at <http://spaceflight.nasa.gov>.

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

\*\*\*\*\*

Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: [k.r.credeur@larc.nasa.gov](mailto:k.r.credeur@larc.nasa.gov)

\*\*\*\*\*

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 10:44:10 -0500  
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: Pool Feed from Lufkin  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Pool feed from Lufkin...

AMC-3, TRANSPONDER 18 FULL, KU-Band

11 a.m. EST

Don't know contents yet. We're recording here at HQ for video file. If you can get to it, feel free to record.

Thanks.

bj

Any questions, call me.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 12:27:39 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pcleget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: 11 AM release  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

From: "Connolly, Michael" <Michael.Connolly@fema.gov>  
To: "Boone, Morris" <Morris.Boone@fema.gov>  
Cc: "Bahamonde, Marty" <Marty.Bahamonde@fema.gov>, dconrad <dconrad@loep.state.la.us>, "Garrett, Deborah" <Deborah.Garrett@fema.gov>, "Henderson, Win" <Win.Henderson@fema.gov>, HQWEBSVCS <HQWEBSVCS@fema.gov>, "Hudak, Mary" <Mary.Hudak@fema.gov>, "Jacks, Don" <Don.Jacks@fema.gov>, James Cassella <james.cassella@osd.mil>, James Michie <james.michie@customs.treas.gov>, Joe Martyak <martyak.joe@epa.gov>, "Kolton, Chad" <Chad.Kolton@fema.gov>, McPherson <bmmcpherson@lantd5.uscg.mil>, Michael Hasbig <michael.halbig@osd.mil>, michael perini <michael.perini@peterson.af.mil>, "Moorehead, Carrie" <Carrie.Moorehead@fema.gov>, "Passey, David" <David.Passey@fema.gov>, "Pease, Kim" <Kim.Pease@fema.gov>, Pengra <tpengra@hq.nasa.gov>, "Ramsay, Cynthia" <Cynthia.Ramsay@fema.gov>, Rjacobs <rjacobs@mail.hq.nasa.gov>, rmirelso <rmirelso@mail.hq.nasa.gov>, "Suchman, Karl" <Karl.Suchman@fema.gov>, "Suchocki, Carl" <Carl.Suchocki@fema.gov>, "Wells, Scott" <Scott.Wells@fema.gov>, "Widomski, Michael" <Michael.Widomski@fema.gov>  
Subject: 11 AM release

Date: Tue, 4 Feb 2003 11:36:11 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

 02-04-03 -- 11 OCLOCK RELEASE.d

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600



Federal Emergency Management Agency

# NEWS

Office of Public Affairs, Washington, D.C. 20472  
www.fema.gov/media

(202) 646-4600

**Media Contact:**  
**Kim Pease, 936-699-1094**

**Release number: 03-034**  
**Release Date: February 4, 2003**

## **FEMA UPDATES SEARCH, FIND AND SECURE ACTIVITIES FOR *COLUMBIA* EMERGENCY**

**11:00 a.m. EST, February 4, 2003**

Washington, DC –Deputy Director Michael Brown of the Federal Emergency Management Agency (FEMA) today announced progress in the continued search, find, and secure activities in response to the loss of the space shuttle *Columbia*.

“FEMA is making significant progress in our work with federal, state and local agencies responding to the loss of *Columbia*,” Brown said. “Resources and personnel have been deployed, and we are actively working in the field to protect the public, assist the investigation, and minimize the impact on local communities.”

Brown also announced the following new information:

- The State of Texas Emergency Operations Center has identified 38 counties with debris.
- In Texas, all debris at the 17 confirmed debris locations near schools has been collected and the sites have been cleared. All schools in the State of Texas are open today.
- The State of Louisiana Emergency Operations Center has identified 37 confirmed debris sites, 22 of which are cleared of all debris.
- The Environmental Protection Agency (EPA) has collected 118 bags of non-hazardous debris from 74 locations in Texas.
- EPA and NASA are currently working to verify reported debris sites in California, Arizona, and Nevada.

Additionally, FEMA has coordinated the following activities since the emergency was declared:

- A Joint Information Center has been established at the Lufkin Civic Center in Lufkin, Texas, to coordinate public information for the agencies involved in the response effort.
- The FBI, EPA, the U.S. Department of Defense, the U.S. Department of Transportation, and the General Services Administration have assigned liaisons to FEMA’s Regional Operations Center in Denton, Texas. FEMA has assigned state liaisons to the Texas State Emergency Operations Center in Austin, Texas and the State Command Post in Lufkin.

- Disaster Field Offices (DFO) have been established in Lufkin, the Fort Worth Naval Air Station in Texas, and the Barksdale Air Force Base in Louisiana. The Lufkin DFO will serve as the primary operational DFO for all operations, including staging assets and deploying field teams for search, find and secure operations. Barksdale Air Force Base will serve as the investigative center and storage location.
- Mobile Emergency Response Support (MERS) communications equipment has been deployed to Lufkin.
- The EPA currently has 38 Debris Recovery Teams on the ground in Texas and Louisiana, and plans to deploy an additional 80 teams by the end of this week.
- The U.S. Coast Guard has deployed 36 members of its strike teams to Louisiana and Texas to assist with debris recovery operations. The strike teams are specially trained and equipped to respond to incidents involving oil or hazardous chemical spills.
- A FEMA emergency response management team is in place at Lufkin.
- Water samples in Louisiana are being collected and analyzed by the EPA's Region VI to ensure water purity.
- In Louisiana, the Louisiana State Police, the FBI and National Guard Civil Support Teams (CST) are assisting with debris collection.
- The FBI has deployed 100 members of its Evidence Recovery Team (ERT) to work with search teams dispatched to sites where debris is reported. The ERT members will ensure collection activities are consistent at every debris site.
- The Texas National Guard has provided 438 members to help expedite the retrieval of debris.
- The EPA has mobilized Airborne Spectral Photo-Imaging of Environmental Collection Technology (ASPECT) aircraft to help locate debris using infrared sensors to detect hazardous chemicals and deployed the Trace Atmospheric Gas Analyzer Unit to provide mobile analytical support.

###



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 11:12:42 -0500  
To: adiaz@mail.hq.nasa.gov, abutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: reminder about referral of Hill calls  
Sender: owner-news-chiefs@lists.hq.nasa.gov

When congress calls....

X-Sender: skeegan@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Tue, 04 Feb 2003 10:56:06 -0500  
To: Robert Mirelson <rmirelso@hq.nasa.gov>  
From: Sarah Keegan <skeegan@hq.nasa.gov>  
Subject: reminder about referral of Hill calls

Just a reminder from Code L that any calls from members of Congress, their staffs or Congressional committee staffs should be referred to the Office of Legislative Affairs (358-1055 is a good number) and NOT handled in Public Affairs. Please remind your centers to follow a similar procedure with their center legislative staffs.  
Thanks!!

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 11:34:52 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Navy News  
Sender: owner-news-chiefs@lists.hq.nasa.gov

According to Naval Academy PAO, they are doing memorial service today at 11:50 a.m. They have NBC News (Brokaw crew) at the Academy today doing a 3 minute piece with Academy potential astronaut candidates and their continuing desire to join the career corps. It will run tonight as Brokaw closing piece.

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: fbrown1@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Tue, 04 Feb 2003 11:42:18 -0500  
To: Robert Jacobs <rjacobs@hq.nasa.gov>  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: Re: Pool Feed from Lufkin  
Cc: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
Sender: owner-news-chiefs@lists.hq.nasa.gov

This feed will be the second item on todays Video-File. The Video-File begins at 12:00 p.m. EST.

Fred

At 10:44 AM 2/4/2003 -0500, Robert Jacobs wrote:

Pool feed from Lufkin...

AMC-3, TRANSPONDER 18 FULL, KU-Band

11 a.m. EST

Don't know contents yet. We're recording here at HQ for video file. If you can get to it, feel free to record.

Thanks.

bj

Any questions, call me.

Fred Brown  
NASA Television  
Executive Producer  
Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Tue, 4 Feb 2003 12:30:34 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: SPACE SHUTTLE ACCIDENT INVESTIGATION BOARD CHAIR TOURS RECOVERY AREA  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington Feb. 4, 2003  
(Phone: 202/358-1600)

Eileen Hawley  
Johnson Space Center, Houston  
(Phone: 281/481-5111)

Dwayne Brown  
Lufkin Command Center  
Lufkin, Texas  
(Phone: 936/699-1019)

RELEASE: 03-047

SPACE SHUTTLE ACCIDENT INVESTIGATION BOARD CHAIR  
TOURS RECOVERY AREA

The following is a statement from retired Admiral Harold W. Gehman, Jr., who chairs the independent Space Shuttle Accident Investigation Board. Admiral Gehman toured the recovery area today with other members of the investigative panel.

"The purpose of our visit here today is to get out and look at some of the debris recovery area. This makes the accident more personal to us and prevents it from becoming an abstract event.

"We're not going to solve this today. We're here to see what the debris looks like and to get a sense of it personally.

"There are over 20 investigatory teams working on the various aspects of the Columbia accident. The board will take supervisory authority over all these activities.

"I'd like to compliment the many agencies involved in this effort. As you know, FEMA is in charge of the recovery effort, and our hats are off to the wonderful work they are doing.

"We have no timetable, but we have two main responsibilities here. One is to future astronauts, who need to know we've done everything possible to make it safe for them to fly. The other is to the three people currently in orbit on the International Space Station, who need to have the Shuttle program fly as soon as possible."

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 13:24:41 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, mneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: Huntsville Memorial Service  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.

From: "Berg, Jerry" <Jerry.H.Berg@nasa.gov>  
To: "'rmirelso@hq.nasa.gov'" <rmirelso@hq.nasa.gov>, "'Eileen Hawley'" <eileen.hawley1@jsc.nasa.gov>  
Subject: Huntsville Memorial Service  
Date: Tue, 4 Feb 2003 12:13:49 -0600  
X-Mailer: Internet Mail Service (5.5.2653.19)

FYI -- Releases from Huntsville Mayor's office re service planned in HSV, noon Wed.

-----Original Message-----

**From:** Bullard, Melissa [<mailto:Melissa.Bullard@hsvcity.com>]  
**Sent:** Tuesday, February 04, 2003 11:19 AM  
**To:** 'tracy.l.lamm@nasa.gov'  
**Cc:** 'jerry.berg@msfc.nasa.gov'  
**Subject:** Monday's news releases

<<memorial service NR.doc>> <<memorial service NR#2.doc>>



memorial service NR.doc



memorial service NR#2.doc

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600



Contact: *Melissa Bullard, Director of Public Communications*  
*(256) 427-5000*

FOR IMMEDIATE RELEASE – February 3, 2003

## **City of Huntsville and NASA's Marshall Space Flight Center to hold public memorial service for Columbia astronauts**

The City of Huntsville and NASA's Marshall Space Flight Center will hold a public memorial service for the Space Shuttle Columbia astronauts this Wednesday. It will take place at noon in the Von Braun Center Concert Hall. The public is invited to attend.

Parking will be available at no charge in the city garage on Monroe Street. Seating inside the Concert Hall will be on a first come-first served basis.

More details regarding the memorial will be released as they become available.

#####

*Note to media: All communications and announcements regarding the memorial service will come from the Mayor's office.*

56-126 (attachmt)  
~~56-126~~



Contact: *Melissa Bullard, Director of Public Communications*  
*(256) 427-5000 business hours (256) 527-4283 cell*

FOR IMMEDIATE RELEASE – February 3, 2003

## **Stephenson, Spencer among those to speak at memorial service**

Art Stephenson, Director of NASA's Marshall Space Flight Center and Huntsville Mayor Loretta Spencer will speak at Wednesday's memorial service for the Columbia astronauts. Others confirmed to participate are: Congressman Bud Cramer, U.S. House of Representatives, and Dr. Jan Davis, Director of Flights Project Directorate at MSFC and former astronaut. In addition, local clergy from different faiths will offer words of comfort during the service.

It is likely that representatives from NASA Headquarters will also be in attendance, however this has not been confirmed.

Mayor Spencer said, "This service will be a time for our community to come together and mourn the loss of these seven brave people. They were admired for their ability and knowledge and eventually gave their lives in the name of exploration and research." "Our city's heritage is richly intertwined with that of the space program, and we are fortunate to have so many NASA employees right here who have worked extremely hard to make continued space exploration a reality," she continued. "Holding this memorial is a way to remember the seven astronauts and their families, but also to pay homage to our city's special role in the past, present, and future of our nation's accomplishments in space."

The service will be Wednesday, Feb. 5 at noon in the VBC Concert Hall. Parking will be available at no charge in the city garage on Monroe Street. Seating inside the Concert Hall will be on a first come-first served basis

#####

*Note to media: All communications and announcements regarding the memorial service will come from the Mayor's office.*

SG-126(attachment)  
~~SG-126~~



There is no

SG-127

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,  
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov, l.r.rich@larc.nasa.gov,  
a.z.parker@larc.nasa.gov

From: Marny Skora <m.m.skora@larc.nasa.gov>

Subject: Fwd: Navy News

Cc:

Bcc:

X-Attachments:

FYI

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Tue, 04 Feb 2003 11:34:52 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov,  
rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov,  
rmirelso@hq.nasa.gov, dbearley@hq.nasa.gov, dsavage@hq.nasa.gov,  
dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov,  
ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov,  
gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov,  
hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov,  
kherring@hq.nasa.gov, lcline@hq.nasa.gov, mnotiche@hq.nasa.gov,  
mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov,  
stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov,  
pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pcleget@hq.nasa.gov,  
rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Navy News

Sender: owner-news-chiefs@lists.hq.nasa.gov

According to Naval Academy PAO, they are doing memorial service today at 11:50 a.m. They have NBC News (Brokaw crew) at the Academy today doing a 3 minute piece with Academy potential astronaut candidates and their continuing desire to join the career corps. It will run tonight as Brokaw closing piece.

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

Dup

To: Robert Jacobs <rjacobs@hq.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: Spanish Speakers  
Cc: lisa.malone-1@ksc.nasa.gov, m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

Bob--

We have an employee here -- Fernando Rico-Cusi -- who recently transferred from KSC where he did Spanish commentary for the KSC newsroom. He has experienced talking with Telemundo, Univision, etc. and is willing to help with your current need.

Fernando works in our Systems Analysis Branch. As luck would have it, he called me this morning to coordinate the calls he is now getting from the former spanish contacts he made working with KSC.

I have worked it with his management that he can take time to assist you. He is willing to help from here or will come to D.C. if that is a better plan. I am willing to fund his travel.

I checked with June Malone a moment ago and she verified that he did assist her at KSC. I will CC here on this e-mail -- should she want to weigh in on his helpfulness.

marny

We need to try to identify Spanish speaking representatives who can address the major talking points of the investigation.

If we have people, let me know. There's Telemundo, Voice of America, and many other media outlets contacting us looking for native-language information.

That said, I'll explore identifying someone here at HQ with program people.

Thanks,  
bj

} pup

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Tue, 4 Feb 2003 14:50:39 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: SHUTTLE ACCIDENT BRIEFING SET FOR HEADQUARTERS  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington Feb. 4, 2003  
(Phone: 202/358-1600)

RELEASE: 03-048

SHUTTLE ACCIDENT BRIEFING SET FOR HEADQUARTERS

A press briefing is scheduled for 4:30 p.m. EST today in Washington at NASA Headquarters in connection with the investigation into the Space Shuttle Columbia accident.

Michael Kostelnik, Deputy Associate Administrator for the Space Shuttle and International Space Station programs, will conduct the briefing, which will be broadcast on NASA Television.

Reporters will be able to ask questions from participating NASA centers. Headquarters is located at 300 E Street, SW, Washington, 20456.

NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about NASA is on the Internet at [www.nasa.gov](http://www.nasa.gov).

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Tue, 4 Feb 2003 15:34:33 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: ASSISTANCE INCREASED TO AID COLUMBIA DEBRIS CLEAN-UP  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Robert Mirelson  
Headquarters, Washington Feb. 4, 2003  
(Phone: 202/358-1600)

Kim Pease  
FEMA Public Affairs  
(Phone: 936/699-1094)

Terrie Mikus  
EPA Public Affairs  
(Phone: 936/699-1094)

RELEASE: 03-049

ASSISTANCE INCREASED TO AID COLUMBIA DEBRIS CLEAN-UP

NASA, the Federal Emergency Management Agency (FEMA) and the Environmental Protection Agency (EPA) are working expeditiously to recover Space Shuttle Columbia debris. The agencies are working as rapidly as possible to protect public safety, honor the needs of astronaut families, and support the mishap investigation.

NASA is adding additional expertise and staff to support clean-up efforts in affected communities. NASA has provided guidance to EPA to enable clean-up teams to assess and recover debris when agency personnel are not available. Additional personnel trained in handling hazardous material have been added to these teams. The public is reminded not to attempt to handle Shuttle debris, but to inform local authorities when debris is found.

All agencies participating in the Space Shuttle Columbia mishap investigation deeply appreciate the caring, patience, efforts and dedication local communities have demonstrated during this difficult time.

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will

reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: m.p.finneran@pop.larc.nasa.gov  
X-Priority: 1 (Highest)  
Date: Tue, 4 Feb 2003 15:54:54 -0500  
To: Marny Skora <m.m.skora@larc.nasa.gov>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: Show in RCC: Thursday's memorial  
Cc: Karen Credeur <k.r.credeur@larc.nasa.gov>

Yes, let's do it.

At 10:42 AM -0500 2/4/03, Marny Skora wrote:

I vote yes. Let me know the final decision and I will post an announcement on @LaRC.

Mike, Marny: The RCC auditorium is available Thursday morning. Can we show the Service there for those who don't have easy access to a TV on-site? Karen

X-Sender: m.m.skora@express.larc.nasa.gov  
Date: Tue, 4 Feb 2003 08:26:36 -0500  
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,  
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov, M  
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,  
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Info on Thursday's memorial  
Cc: m.p.finneran@larc.nasa.gov

All--

FYI

Bob--

Please post on @LaRC after today's ceremony and for tomorrow

marny

**VICE-PRESIDENT TO HONOR  
COLUMBIA'S CREW AT NATIONAL CATHEDRAL**

Vice-President Richard (Dick) B. Cheney will join NASA Administrator Sean O'Keefe Thursday, Feb. 6, at the Washington National Cathedral for a private memorial service to honor the dedicated and brave crew of the Space Shuttle Columbia.

The service is scheduled to begin at 10 a.m. EST at the historic cathedral, which is known as a national house of prayer for all people. Dignitaries, community and political leaders,

DUP

members of the NASA family, including current and former astronauts, all will come together to pay tribute to the crew, who died Saturday.

The ceremony can be seen on NASA Television and is available on the Internet at [www.nasa.gov](http://www.nasa.gov).

NTV is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about the seven astronauts, Space Shuttle program, and the mission of STS-107 is available on the Internet at <http://spaceflight.nasa.gov>.

--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

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\*\*\*\*\*

Karen R. Credeur, Ph.D.  
Head, Office of Public Services Phone: 757-864-3307  
Dep. Head, Office of External Affairs  
M.S. 154, NASA Fax: 757-864-7732  
Langley Research Center  
Hampton, VA 23681-0001 E-mail: [k.r.credeur@larc.nasa.gov](mailto:k.r.credeur@larc.nasa.gov)  
\*\*\*\*\*

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Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

Dup



(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,  
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,  
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov, l.r.rich@larc.nasa.gov,  
a.z.parker@larc.nasa.gov

From: Marny Skora <m.m.skora@larc.nasa.gov>

Subject: Fwd: Shuttle Speakers

Cc:

Bcc:

X-Attachments:

Guidance from HQ . . . .

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to  
owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 14:55:30 -0500  
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: Shuttle Speakers  
Sender: owner-news-chiefs@lists.hq.nasa.gov

A quick note...

Let's be as responsive as possible, but please have your talkers coordinate messages  
with program investigators with either Dittmore's team at JSC or Michael  
Kostelnik's people here at HQ.

No other NASA officials have the authority to allow people to talk (short of Readdy  
or the Administrator).

We need to be as open as possible... but let's not blindside anyone at JSC or HQ.  
For example, you don't want to put a tile expert in front of the media without some  
prior message coordination.

For example, earlier this week... we had the program saying the Shuttle came apart  
over Texas... yet an astronomer at Cal Tech said he saw pieces coming off over  
California. That's the kind of confusing messages that can get us in trouble.

I like openness... I like communication. We're getting high marks in the public for  
doing it. Please just make sure it's coordinated.

Thanks,  
bj

Dup

X-Sender: k.r.credeur@express.larc.nasa.gov  
 Date: Tue, 4 Feb 2003 17:51:37 -0500  
 To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
       Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,  
       J.J.MEEHAN@larc.nasa.gov  
 From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
 Subject: ARC Memorial Service

Mike Mewhinney PAO 650-604-3937. Ames Research Center called its service an "Ames Family Gathering". Held it Monday 2:30. Just for employees, no media, no public. Employees were invited to be at the flag pole. In a semi-circle. Acting Director hosted. Employees invited to speak about feelings and thoughts at mikes. Mike heard about 2,000 employees came. In the program, talked more about Kalpana Chawla than other astronauts because speakers knew her. Picture of all 7. Wreaths. Quiet music. Read the poem "High Flight". Moment of silence. Are signing a book with feelings, comments, names to send to JSC. Showed JSC Memorial Service in the cafeteria and TVs today. Media asked to come out to watch and talk with some employees. ARC approved. Employees cautioned not to speculate. All worked well.

--

\*\*\*\*\*  
 Karen R. Credeur, Ph.D.  
 Head, Office of Public Services                   Phone: 757-864-3307  
 Dep. Head, Office of External Affairs  
 M.S. 154, NASA                                   Fax:       757-864-7732  
 Langley Research Center  
 Hampton, VA 23681-0001                       E-mail: k.r.credeur@larc.nasa.gov  
 \*\*\*\*\*

SG-137

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: fbrown1@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Tue, 04 Feb 2003 19:04:06 -0500  
To: code-p@lists.hq.nasa.gov, news-chiefs@lists.hq.nasa.gov,  
glenn.mahone@hq.nasa.gov, rjacobs@hq.nasa.gov,  
dmorse@mail.arc.nasa.gov, i.gilman@larc.nasa.gov,  
jack.dawson@jpl.nasa.gov, k.w.and@larc.nasa.gov,  
wade.e.sisler.1@gsfc.nasa.gov, dbrooks@hq.nasa.gov,  
daniel.k.carpenter1@jsc.nasa.gov, charris@hq.nasa.gov,  
mkostelnik@hq.nasa.gov  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: Media Services Report 2/4/03  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Network:

ABC: STS-107/Sean O'Keefe interviewed by Peter Jennings  
CBS: STS-107/Sean O'Keefe interviewed by Dan Rather  
NBC: STS-107/Sean O'Keefe interviewed  
CNN: STS-107

All Networks reported on the "Memo" uncovered by Jay Barbee in which NASA engineers calculated a high probability that launch debris had caused a gash 71/2 by 30 inches on the Shuttle's left wing.

Also reported was the NASA had "fired" members of the Aerospace Safety Advisory Panel.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f  
X-Sender: rmirelso@mail.hq.nasa.gov  
Date: Tue, 04 Feb 2003 20:21:08 -0500  
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbearley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov  
From: Robert Mirelson <rmirelso@hq.nasa.gov>  
Subject: Fwd: 4 o'clock update release  
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI.Subject: 4 o'clock update release

Date: Tue, 4 Feb 2003 17:04:58 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

 02-04-03 -- 4 OCLOCK RELEASE.do

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600



Federal Emergency Management Agency

# NEWS

Office of Public Affairs, Washington, D.C. 20472  
[www.fema.gov/media](http://www.fema.gov/media)

(202) 646-4600

**Media Contact:**  
**Kim Pease, 936-699-1094**

**Release number: 03-035**  
**Release Date: February 4, 2003**

## **FEMA UPDATES SEARCH, FIND AND SECURE ACTIVITIES FOR *COLUMBIA* EMERGENCY**

**4:00 p.m. EST, February 4, 2003**

Washington, DC –Deputy Director Michael Brown of the Federal Emergency Management Agency (FEMA) today announced progress in the continued search, find, and secure activities in response to the loss of the space shuttle *Columbia*.

“FEMA and our partner agencies at the federal, state, and local levels are making progress in our work to search, find, and secure *Columbia* debris,” Brown said. “Our teams are on the ground and in the field working to protect the public and minimize the impact on local communities.”

Brown also announced the following new information:

- U.S. Coast Guard strike team is out on a 24-foot USCG boat in the Toledo Bend Reservoir near the town of Hemphill, Texas in Sabine County today. The team is taking side-scan sonar and divers.
- FEMA photographers are capturing still photographs of the search effort and have posted them at [www.fema.gov](http://www.fema.gov). (They are available for use in accordance with the FEMA photo use agreement and will be updated regularly.)

Additionally, FEMA has coordinated the following activities since the emergency was declared:

- The State of Texas Emergency Operations Center has identified 38 counties with debris.
- In Texas, all debris at the 17 confirmed debris locations near schools has been collected and the sites have been cleared. All schools in the State of Texas are open today.
- The State of Louisiana Emergency Operations Center has identified 36 confirmed debris sites, 22 of which are cleared of all debris.
- The Environmental Protection Agency (EPA) has collected 118 bags of non-hazardous debris from 74 locations in Texas.
- EPA and NASA are currently working to verify reported debris sites in California, Arizona, and Nevada.

- A Joint Information Center has been established at the Lufkin Civic Center in Lufkin, Texas, to coordinate public information for the agencies involved in the response effort.
- The FBI, EPA, the U.S. Department of Defense, the U.S. Department of Transportation, and the General Services Administration have assigned liaisons to FEMA's Regional Operations Center in Denton, Texas. FEMA has assigned state liaisons to the Texas State Emergency Operations Center in Austin, Texas and the State Command Post in Lufkin.
- Disaster Field Offices (DFO) have been established in Lufkin, the Fort Worth Naval Air Station in Texas, and the Barksdale Air Force Base in Louisiana. The Lufkin DFO will serve as the primary operational DFO for all operations, including staging assets and deploying field teams for search, find and secure operations. Barksdale Air Force Base will serve as the investigative center and storage location.
- Mobile Emergency Response Support (MERS) communications equipment has been deployed to Lufkin.
- The EPA currently has 38 Debris Recovery Teams on the ground in Texas and Louisiana, and plans to deploy an additional 80 teams by the end of this week.
- The U.S. Coast Guard has deployed 36 members of its strike teams to Louisiana and Texas to assist with debris recovery operations. The strike teams are specially trained and equipped to respond to incidents involving oil or hazardous chemical spills.
- A FEMA emergency response management team is in place at Lufkin.
- Water samples in Louisiana are being collected and analyzed by the EPA's Region VI to ensure water purity.
- In Louisiana, the Louisiana State Police, the FBI and National Guard Civil Support Teams (CST) are assisting with debris collection.
- The FBI has deployed 100 members of its Evidence Recovery Team (ERT) to work with search teams dispatched to sites where debris is reported. The ERT members will ensure collection activities are consistent at every debris site.
- The Texas National Guard has provided 438 members to help expedite the retrieval of debris.
- The EPA has mobilized Airborne Spectral Photo-Imaging of Environmental Collection Technology (ASPECT) aircraft to help locate debris using infrared sensors to detect hazardous chemicals and deployed the Trace Atmospheric Gas Analyzer Unit to provide mobile analytical support.

###

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Tue, 4 Feb 2003 20:43:38 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: SHUTTLE ACCIDENT BRIEFINGS SET  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 4, 2003

RELEASE: 03-050

SHUTTLE ACCIDENT BRIEFINGS SET

A press briefing is scheduled for 11:30 a.m. EST Wednesday in Washington at NASA Headquarters in connection with the investigation into the Space Shuttle Columbia accident.

NASA's Associate Administrator for Space Flight Bill Readdy, Michael Kostelnik, Deputy Associate Administrator for the Space Shuttle and International Space Station programs, and Dr. Howard Ross, NASA's Acting Associate Deputy Administrator for Science for the Office of Biological and Physical Research, will discuss the status of the accident investigation and the research that was the focus of Columbia's last mission. Reporters will be able to ask questions from participating NASA centers. Headquarters is located at 300 E Street, SW, Washington, 20456.

Ron Dittmore, NASA's Space Shuttle Program Manager, will update the press on the mishap investigation at 4:30 p.m. EST from the Johnson Space Center. Reporters will be able to ask questions from participating NASA centers

The press conferences will be broadcast on NASA Television. NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about NASA is on the Internet at

[www.nasa.gov](http://www.nasa.gov)

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command



GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

To: rjacobs@mail.hq.nasa.gov, kyle.j.herring1@jsc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Thanks, story enclosed  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:  
X-Attachments:

Bob and Kyle--

Item as it appeared in today's Richmond Times-Dispatch. Thanks for defusing.

<http://timesdispatch.com/frontpage/MGB7X01USBD.html>

**Allen: Crew worried about wing damage**

BY A.J. HOSTETLER

TIMES-DISPATCH STAFF WRITER Feb 05, 2003

Columbia's crew was concerned about the possibility the shuttle was damaged in its launch, and photographed the left wing, Sen. George Allen said yesterday.

But a NASA spokesman, Bob Jacobs, said from Washington last night "at this point we believe the crew could only see the tip of the wing from the crew compartment. They could not see the leading edge. Nor could they see the bottom where the strike appears to have taken place."

Officials at Johnson Space Center earlier said the shuttle's left wing could not have been viewed from either the windows in the crew compartment or those into the payload bay area, and could not have been photographed.

In televised comments memorializing the shuttle crew, Allen, R-Va., described a telephone conversation with the brother of mission specialist David Brown, an Arlington County native.

Brown's brother Doug could not be reached for comment. Yesterday, Doug Brown sat in the first row of a national memorial at Johnson, along with his mother, father, two cousins and 22 other family members of Columbia's crew.

Just a few hours after the service, Allen spoke from the Senate floor. His comments were broadcast on C-SPAN2.

According to Allen, Doug Brown told the senator that in private e-mail messages during the mission, his astronaut brother said the crew was "concerned" about the shuttle's left wing. Allen spokeswoman Carrie Cantrell confirmed that the senator stood by his recollection of the conversation.

In the conversation, Doug Brown said the crew photographed the left wing, which was struck shortly after launch by a piece of foam insulation that fell from one of the shuttle's external fuel tanks, according to Allen.

Allen said Doug Brown told him he never received any such photos.

NASA "is trying to track what if any e-mails were sent to the family," said Jacobs. The agency is examining NASA computer equipment to see if the e-mails can be tracked, he said.

NASA officials investigating the accident have said engineers initially dismissed the insulation incident, but in hindsight are reconsidering whether it might have damaged the craft and contributed or led to the catastrophe.

Crew members were told about the insulation during the mission, according to NASA, but they were not alarmed by the falling debris, which had occurred on earlier missions.

"All indications that we had from the crew was that they were not concerned about the insulation strike and if there is new information suggesting otherwise we would be interested in hearing from the family," said Jacobs.

A spokeswoman at Johnson Space Center, Nicole Cloutier, said she could not comment about Brown's e-mails to his family. But she said that on its last mission, Columbia was not equipped with a robotic arm, which might have provided a view of the wing area.

Allen serves on the Senate Commerce, Science and Transportation Committee and its subcommittee with oversight over NASA.

Contact A.J. Hostetler at (804) 649-6355 or ahostetler@timesdispatch.com

To: d.c.freeman@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: RTD front page story  
Cc:  
Bcc:  
X-Attachments:

---

<http://timesdispatch.com/frontpage/MGB7X01USBD.html>

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Contact A.J. Hostetler at (804) 649-6355 or ahostetler@timesdispatch.com

From: "WATSON, CATHERINE E. (CATHY) (JSC-AP131) (NASA)"  
<catherine.e.watson@nasa.gov>  
To: "'Marny Skora'" <m.m.skora@larc.nasa.gov>  
Cc: AHostetler@timesdispatch.com  
Subject: RE: Info please  
Date: Wed, 5 Feb 2003 08:11:25 -0600

We don't release the names of the astronauts assisting the Columbia families, so I can't tell you who is helping Dave's family.

Every astronaut designates another astronaut to assist their family in the event of an accident. These designated astronauts are also assisted by other members of the astronaut corps as necessary.

The families have all of NASA at their disposal. If they need something, we will get it for them.

Catherine Watson  
Office of Public Affairs  
NASA Johnson Space Center  
Houston, TX 77058  
Phone: 281.483.7674 (we're on CST)  
Fax: 281.483.2000

-----Original Message-----

From: Marny Skora [<mailto:m.m.skora@larc.nasa.gov>]  
Sent: Tuesday, February 04, 2003 3:50 PM  
To: WATSON, CATHERINE E. (CATHY) (JSC-AP131) (NASA)  
Cc: AHostetler@timesdispatch.com  
Subject: Info please

Cathy--

I am -- understandably -- having a difficult time reaching you by phone today. Can you help with a media query . . .

A.J.Hostetler, Richmond Times-Dispatch, would like to do a short story on how well NASA is supporting the families of the Columbia crew.

She is especially interested in learning which astronaut has been assigned to Dorothy and Paul Brown. Are you able to release that information? And can you give her some info on the support being offered?

Thanks,

marny  
--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center

SG-148

Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.  
Hampton, VA 23681  
(757) 864-6121

X-Sender: g.s.langevin@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 09:20:11 -0500  
To: m.m.skora@larc.nasa.gov  
From: "Gail S. Langevin" <g.s.langevin@larc.nasa.gov>  
Subject: Sympathy for VA State Fair Coordinator

Marny,

I received a card from Marilyn Wetton, manager of the Commonwealth Technology Building at the VA State Fair.

The card reads

"We wish to send you and your staff and NASA family our deepest sympathy. Our thoughts and prayers are with you all and hopes for the future flights.

Yours sincerely,

Marilyn Wetton and staff at the State Fair"

\*\*\*\*\*  
Gail S. Langevin  
Public Affairs Specialist

phone 757-864-8554  
fax 757-864-7732  
e-mail g.s.langevin@larc.nasa.gov



X-Sender: c.w.cleghorn@pop.larc.nasa.gov  
X-Priority: 2 (High)  
Date: Wed, 5 Feb 2003 10:47:59 -0500  
To: r.d.allen@larc.nasa.gov, l.r.rich@larc.nasa.gov,  
k.a.barnstorff@larc.nasa.gov, m.p.finneran@larc.nasa.gov,  
i.gilman@larc.nasa.gov, h.k.henry@larc.nasa.gov,  
k.r.credeur@larc.nasa.gov, c.l.hancock@larc.nasa.gov,  
s.c.west@larc.nasa.gov, d.g.lawson@larc.nasa.gov,  
M.PITTS@larc.nasa.gov, C.P.RINK@larc.nasa.gov, m.m.skora@larc.nasa.gov,  
p.j.verniel@larc.nasa.gov, e.e.finner@larc.nasa.gov,  
c.w.cleghorn@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,  
d.e.gause@larc.nasa.gov, a.z.parker@larc.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia Condolence Cards Address/Children's Fund

Just in case you receive inquiries regarding where the public can send condolence cards regarding Columbia STS-107, the address is:

Mr. Kent Rominger  
Astronaut Office  
NASA Johnson Space Center  
2101 NASA Road 1  
Code CB  
Houston, TX 77058

**FYI! - Children's Fund**

I have received a few inquiries from the public wanting to donate money to the Columbia crew's children. Some of the inquiries mentioned a fund called the "Space Shuttle Children's Fund" which was also announced on the Larry King Live show last night with a P.O. Box address in Washington, D.C. I spoke with HQ this morning regarding this fund. HQ is looking into it, but as far as they can tell, this is not a NASA sponsored fund. They are trying to find out where it originated. HQ will call me back when they have more info on this fund or wants me to call them if I receive more info on the fund.

Cheryl

From: <AHostetler@timesdispatch.com>  
To: m.m.skora@larc.nasa.gov, g.a.banziger@larc.nasa.gov  
Subject: question for NASA briefing  
Date: Wed, 5 Feb 2003 11:36:11 -0500

>From A.J. Hostetler, Richmond Times-Dispatch:

There was a report yesterday from Sen. George Allen of Virginia that the astronauts were concerned about the left wing and had taken, or tried to take, photos of the wing. This came out of a conversation the senator had with the brother of David Brown, who was told about the photos in emails from his brother -- the senator says.

Does NASA know of any such photos taken by the crew and did the agency receive those photos, and what is being done to check the e-mails sent by crew members to families to determine if such photos were taken?

Thank you,

A.J. Hostetler  
Science Writer  
Richmond Times-Dispatch  
P.O. Box 85333  
Richmond, VA 23293  
ahostetler@timesdispatch.com <<mailto:ahostetler@timesdispatch.com>>  
804-649-6355 (o)  
804-775-8059 (fax)  
\*\*\*\*\*

From: <AHostetler@timesdispatch.com>  
To: m.m.skora@larc.nasa.gov, g.a.banziger@larc.nasa.gov  
Subject: background on question for NASA briefing  
Date: Wed, 5 Feb 2003 11:38:29 -0500

FYI, for the questioner, here's background on Allen's statement

Feb 05, 2003

Allen: Crew worried about wing damage  
BY A.J. HOSTETLER  
TIMES-DISPATCH STAFF WRITER

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Allen serves on the Senate Commerce, Science and Transportation Committee and its subcommittee with oversight over NASA.

Contact A.J. Hostetler at (804) 649-6355 or ahostetler@timesdispatch.com

A.J. Hostetler  
Science Writer  
Richmond Times-Dispatch  
P.O. Box 85333  
Richmond, VA 23293  
ahostetler@timesdispatch.com <<mailto:ahostetler@timesdispatch.com>>  
804-649-6355 (o)  
804-775-8059 (fax)

X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 12:09:51 -0500  
To: "Marny M. Skora" <M.M.SKORA@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested  
Cc: "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>,  
"Cheryl W. Cleghorn" <C.W.CLEGHORN@larc.nasa.gov>

[REDACTED]

Date: Wed, 5 Feb 2003 11:49:11 -0500  
To: r.d.allen@larc.nasa.gov  
From: Monica Green Schrum <m.g.schrum@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

*FOIA Exemption  
(b) (5)*

[REDACTED]

Date: Wed, 5 Feb 2003 10:27:56 -0500  
To: m.g.schrum@larc.nasa.gov  
From: Suzanne Barnes <s.n.barnes@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 10:24:12 -0500  
To: "BARNES, SUZANNE N" <S.N.BARNES@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

Suzanne:

Here is the Boy Scouts request for a flag that I talked with you about over the telephone.

Any review and consideration is appreciated. Let me know either way, so that I can respond to Mr. Warner.

Bob Allen  
r.d.allen@larc.nasa.gov  
Phone: x46176  
Fax: x46477

Public Affairs Office

From: [REDACTED]  
Date: Tue, 4 Feb 2003 17:58:42 EST  
Subject: Urgent Assistance Requested  
To: feedback+admin@larc.nasa.gov

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]

*Pers*

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

-----  
**SUZANNE N. BARNES**  
Secretary, Security Office



NASA Langley Research Center  
Building 1163, Room 112  
7 Hunsaker Loop  
Hampton, VA 23681

Phone: (757) 864-3420  
Fax: (757) 864-8868

-----  
Monica Green Schrum  
Security Office, OSEM

Voice: (757) 864-3420  
Fax: (757) 864-8868  
Page: (757) 864-8952/0024

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, w.c.uher@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Fwd: Columbia updates  
Cc:  
Bcc:

X-Attachments:  mcc0204.doc  03-050PressConferences.doc

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Tue, 04 Feb 2003 20:06:37 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov,  
rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov,  
rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov,  
dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov,  
ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov,  
gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov,  
hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov,  
kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov,  
mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov,  
stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov,  
pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pcleget@hq.nasa.gov,  
rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Columbia updates

Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI and use.

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 4, 2003

RELEASE: 03-050

### **SHUTTLE ACCIDENT BRIEFINGS SET**

A press briefing is scheduled for 11:30 a.m. EST Wednesday in Washington at NASA Headquarters in connection with the investigation into the Space Shuttle Columbia accident.

NASA's Associate Administrator for Space Flight Bill Readdy, Michael Kostelnik, Deputy Associate Administrator for the Space Shuttle and International Space Station programs, and Dr. Howard Ross, NASA's Acting Associate Deputy Administrator for Science for the Office of Biological and Physical Research, will discuss the status of the accident investigation and the research that was the focus of Columbia's last mission. Reporters will be able to ask questions from participating NASA centers. Headquarters is located at 300 E Street, SW, Washington, 20456.

Ron Dittmore, NASA's Space Shuttle Program Manager, will update the press on the mishap investigation at 4:30 p.m. EST from the Johnson Space Center. Reporters will be able to ask questions from participating NASA centers

The press conferences will be broadcast on NASA Television. NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about NASA is on the Internet at **[www.nasa.gov](http://www.nasa.gov)**.

-end-



# NASA Shuttle Status

National Aeronautics and  
Space Administration



Lyndon B. Johnson Space Center  
Houston, Texas 77058  
281/483-5111

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## MISSION CONTROL CENTER STATUS REPORT #22 STS-107 Accident Response Tuesday, Feb. 4, 2003 – 7:00 p.m. CST

As NASA paused to pay tribute to Columbia's astronauts, the agency reported making "considerable progress" in recovering debris from the Space Shuttle and analyzing data in the search for clues to what caused the orbiter to breakup 16 minutes before its landing last Saturday.

President and Mrs. Bush joined NASA Administrator Sean O'Keefe in honoring astronauts Rick Husband, William McCool, Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Ilan Ramon in a ceremony at the Johnson Space Center, Houston. President Bush said the nation was "blessed" to have such men and women serving the space program, and although NASA is being tested at this time, "America's space program will go on."

In an afternoon briefing, Michael Kostelnik, NASA's Associate Administrator for International Space Station and Space Shuttle said several engineering teams continue to work round-the-clock to reconstruct the timeline of the final minutes of Columbia's flight from extensive data that is being analyzed.

Kostelnik said the Columbia Accident Investigation Board, chaired by retired U.S. Navy Admiral Harold W. Gehman, Jr., is on scene at Barksdale Air Force Base, La. where the recovery of debris and human remains is being coordinated.

Kostelnik reported that larger and denser pieces of debris have been found in Louisiana, possibly including parts of Columbia's main engines. He said recovery teams have been dispatched to California and Arizona, where debris has been reported. Kostelnik indicated debris recovered from areas farthest to the west would be critical, possibly providing information about the early stages of Columbia's breakup.

Earlier today, a Russian Progress resupply ship successfully docked to the International Space Station at 9:49 a.m. EST, delivering a ton of food, fuel and supplies to Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit. The Progress has given the Station resident crew a "solid" supply of consumables, enough to sustain operations through at least late June, according to Kostelnik.

Bowersox, Budarin and Pettit opened the hatches between the ISS and the Progress this afternoon and will begin unloading its supplies on Wednesday.

NASA Johnson Space Center Mission Status Reports and other information are available automatically by sending an Internet electronic mail message to [majordomo@listserver.jsc.nasa.gov](mailto:majordomo@listserver.jsc.nasa.gov). In the body of the message (not the subject line) users should type "subscribe" (no quotes). This will add the email address that sent the subscribe message to the news release distribution list. The system will reply with a confirmation via E-mail of each subscription. Once you have subscribed you will receive future news releases via e-mail.

Asked about contingency planning for the Station for the rest of the year, Kostelnik said all options to sustain a human presence on board in the temporary absence of Shuttle flights are being explored. The next Shuttle flight aboard Atlantis in March was to have brought the Expedition 7 crew to the ISS and returned to Earth the current resident crew.

Two STS-107 Accident Response briefings will be held on Wednesday, Feb. 5 and will be broadcast on NASA Television with multi-center question and answer capability for reporters at NASA centers. The first briefing is from NASA Headquarters in Washington at 11:30 a.m. EST. The second with Space Shuttle Program Manager Ron Dittmore from the Johnson Space Center is at 4:30 p.m. EST.

Status reports will be issued as developments warrant.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-

To: m.p.finneran@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested  
Cc: r.d.allen@larc.nasa.gov  
Bcc:

X-Attachments:

FOIA EXEMPTION (b)(5)

[REDACTED]

X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 12:09:51 -0500  
To: "Marny M. Skora" <M.M.SKORA@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested  
Cc: "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>,  
"Cheryl W. Cleghorn" <C.W.CLEGHORN@larc.nasa.gov>

[REDACTED]

Date: Wed, 5 Feb 2003 11:49:11 -0500  
To: r.d.allen@larc.nasa.gov  
From: Monica Green Schrum <m.g.schrum@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

[REDACTED]

Date: Wed, 5 Feb 2003 10:27:56 -0500  
To: m.g.schrum@larc.nasa.gov  
From: Suzanne Barnes <s.n.barnes@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

DUP

X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 10:24:12 -0500  
To: "BARNES, SUZANNE N" <S.N.BARNES@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

Suzanne:

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Any review and consideration is appreciated. Let me know either way, so that I can respond to Mr. Warner.

Bob Allen  
r.d.allen@larc.nasa.gov  
Phone: x46176  
Fax: x46477  
Public Affairs Office

From: [REDACTED]  
Date: Tue, 4 Feb 2003 17:58:42 EST  
Subject: Urgent Assistance Requested  
To: feedback+admin@larc.nasa.gov

FOIA Exemption  
(b)(6)

Pers  
DUP

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]

FOIA Exemption  
(b)(6)

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

-----  
**SUZANNE N. BARNES**  
Secretary, Security Office

NASA Langley Research Center  
Building 1163, Room 112  
7 Hunsaker Loop  
Hampton, VA 23681

Phone: (757) 864-3420  
Fax: (757) 864-8868

--

Monica Green Schrum  
Security Office, OSEM

Voice: (757) 864-3420  
Fax: (757) 864-8868  
Page: (757) 864-8952/0024

A large handwritten bracket on the right side of the page, spanning from the top contact information down to the bottom contact information. To the right of the bracket, the word "Dup" is written in cursive.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Wed, 5 Feb 2003 12:41:04 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: RESEARCHERS ASSESS STATUS OF STS-107 SCIENTIFIC DATA  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Dolores Beasley/Melissa Motichek  
Headquarters, Washington February 5, 2003  
(Phone: 202/358-1753/1141)

RELEASE: 03-52

RESEARCHERS ASSESS STATUS OF STS-107 SCIENTIFIC DATA

The launch of the Space Shuttle Columbia on January 16, 2003 represented an exciting time for the international research community. Columbia carried more than 80 experiments on a 16-day mission devoted entirely to science.

NASA and its researchers are working to determine exactly how much data was lost with the Columbia crew. Some scientific data from Columbia was downlinked to experimental teams on Earth during the mission.

The payload data were impounded by investigators looking into Saturday's accident, so it will take some time to evaluate the results. Already, researchers are pointing to several achievements by the Columbia astronauts, and by the scientists on the ground who supported them. These include:

- \* Shuttle astronauts created and observed the weakest flames ever created. High-quality image data from the SOFBALL (Structure of Flame Balls at Low Lewis-Number) experiment exists and, according to the project's Principal Investigator, can help scientists develop models of combustion chemistry for cleaner-burning engines.

- \* The Laminar Soot Processes experiment also saw flame phenomena never before created on or off Earth. Soot is both a significant hazard to health and engine performance on Earth, and under controlled circumstances, a useful industrial product.

- \* The MIST (Water Mist Fire Suppression) experiment, which was designed to investigate the use of fine water mists in firefighting, achieved a qualitative understanding for different water concentrations.

- \* The Israeli Mediterranean Dust Experiment, or MEIDEX, studied the effects of desert dust and smoke plumes on the climate and obtained important still images and video to be studied in the future. The MEIDEX experiment also resulted in the first calibrated images of an atmospheric phenomenon known as an "elf," or an electrical halo that glows over the tops of storm clouds.

- \* A life sciences experiment on prostate cancer aboard Columbia documented greater-than-expected growth of tumor aggregates in space.

However, most of the other experiments on STS-107, such as those in Life Sciences, relied heavily on specimens, samples, and other data that were lost with Columbia.

NASA remains committed to the pursuit of science in space, knowing that the unique environment offers something never before achievable in the history of humankind: a glimpse of what our life -- what nature itself -might be like in a world with a different level of gravity.

"All seven Columbia astronauts sought to advance human exploration of space," said Mary Kicza, Associate Administrator for NASA's Office of Biological and Physical Research. "They dedicated their lives to NASA and their countries, and helped us uncover knowledge that could help improve the lives of all people."

More information on the research performed by the Columbia crew is available on the internet at:

<http://spaceresearch.nasa.gov>

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: d.g.lawson@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 12:41:54 -0500  
To: M.P.FINNERAN@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,  
K.R.CREDEUR@larc.nasa.gov, <J.J.Meehan@larc.nasa.gov>  
From: Donna Lawson <d.g.lawson@larc.nasa.gov>  
Subject: Fwd: Two Week Moratorium on Participation in Outreach Events  
Cc: M.E.WOODCOCK@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,  
D.E.GAUSE@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,  
P.J.VERNIEL@larc.nasa.gov

All--

HQ has placed a two-week moratorium on outreach events that ends February 18. The only activity we have during this time is supporting a speaker at the VASC for Engineers Week. I understand from talking with Joan that we are continuing to send out scheduled speakers as long as they are comfortable and their talk isn't related to STS 107. As such, we will support the speaker at the VASC. Please let me, Joan and Meghan know if any decision is made to the contrary.

Thank you,

Donna

X-Sender: jhull@mail.hq.nasa.gov  
Date: Wed, 5 Feb 2003 08:57:27 -0700  
To:  
From: Jim Hull <jhull@hq.nasa.gov>  
Subject: Two Week Moratorium on Participation in Outreach Events  
Cc: Evelyn Thames <ethames@mail.hq.nasa.gov>,  
Sharon Lord <slord@mail.hq.nasa.gov>,  
Nora Normandy <nnormand@mail.hq.nasa.gov>

Dear Exhibit Coordinators,  
Out of respect for our fallen Astronauts aboard the Space Shuttle Columbia, NASA Headquarters has issued a moratorium on participation in Exhibit/Outreach events for the next two weeks. After February 18, 2003, we will continue our Outreach efforts unless instructed otherwise. Headquarters will provide talking points for Exhibit/Outreach staffers addressing the general public.

IN ALL CASES, DO NOT PROVIDE INTERVIEWS WITH THE MEDIA. ALL MEDIA QUESTIONS MUST BE FORWARDED TO PAO.

In some cases, there may be a compelling reason to continue participation. Please confer with Headquarters before continuing the event. Be sure to remind all NASA Staffers in exhibits or special events that they should not provide interviews and to handle all public inquiries about the tragedy in a forthright manner and without speculation. "I don't know" is an acceptable answer and in almost all cases, correct.

If you have any questions, please feel free to contact me.

Warm Regards,  
Jim  
--  
Jim Hull



Manager, Exhibits and Artifacts  
NASA Headquarters  
300 E Street SW  
Washington, DC 20546  
Voice: 202-358-2192  
Fax: 202-358-4332

X-Sender: d.c.freeman@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 13:03:27 -0500  
To: "SKORA, MARY M" <M.M.SKORA@larc.nasa.gov>  
From: del freeman <d.c.freeman@larc.nasa.gov>  
Subject: Fwd: NASA Astronauts

Marny, Delma would like to have this put on At LaRC for everyone to read and enjoy.  
Please say that it came from an old friend of LaRC's named Ken Cox.

From: "COX, KENNETH J. (KEN) (JSC-EX) (NASA)" <kenneth.j.cox@nasa.gov>  
To: "'ekmann, james'" <James.Ekmann@netl.doe.gov>,  
    "'elachi, charles'"  
    <Charles.Elachi-106005@jpl.nasa.gov>,  
    "'elgin, duane'"  
    <duane@awakeningearth.org>,  
    "'elias, antonio'" <ae@orbital.com>,  
    "'ellenbogen, james'" <ELLENBGN@mitre.org>,  
    "ENGLE, JOE H. (JSC-AC) (NASA)" <joe.h.engle@nasa.gov>,  
    "EPP, CHIROLD D. (JSC-EX) (NASA)" <chirold.d.epp@nasa.gov>,  
    "'epps, ronald'" <ronald.c.epps1@jsc.nasa.gov>,  
    "'epstine, mike'"  
    <epsteinmb@worldnet.att.net>,  
    "'erb, bryan'" <spacepower@airmail.net>,  
    "'erickson, sheryl'" <SEERickson@aol.com>,  
    "'erikson, ray'"  
    <ray@eriksontech.com>,  
    "'erwin, harry'" <harry.o.erwin1@jsc.nasa.gov>,  
    "'escher, william'" <william.j.escher@saic.com>,  
    "'esser, wayne'"  
    <wayne.esser@boeing.com>,  
    "'evans, richard'" <revans@gmu.edu>,  
    "'everett, steven'" <steven.e.everett1@jsc.nasa.gov>,  
    "'faget, max'"  
    <maxfaget@ghg.net>,  
    "'fairchild, kyle'"  
    <kfairchild.sloan2002@london.edu>,  
    "'farr, gene'"  
    <genefarr@cablespeed.com>,  
    "'faulcomer, walt'"  
    <walter.faulconer@lmco.com>,  
    "'feconda, bob'" <Feconda.Bob@orbital.com>,  
    "'feingold, harvey'" <harvey.feingold@cpmx.saic.com>,  
    "'fender, janet'"  
    <fender@plk.af.mil>,  
    "'fielder, dennis'" <defielder@worldnet.att.net>,  
    "'finger, harry'" <hbf24@aol.com>, "'fisher, dido'" <dido@talk21.com>,  
    "'fisher, mark'" <Mark.F.Fisher@msfc.nasa.gov>,  
    "'flagg, hank'"  
    <hankflagg@ghg.net>,  
    "'flauaus, henry'" <henry.b.flauaus@boeing.com>,  
    "'fleming, bruce'" <bruce.w.fleming@lmco.com>,  
    "FLETCHER, DAVID R. (JSC-EX) (NASA)" <david.r.fletcher@nasa.gov>,  
    "'fletcher, leroy'" <sfletcher@mail.arc.nasa.gov>,  
    "'fletcher, mitch'"  
    <mitch.fletcher@honeywell.com>,  
    "'flores, carole'"

<carole.flores@faa.gov>,  
"flowers, betty sue"  
<bflowers@uts.cc.utexas.edu>,  
"flumerfelt, raymond" <rwf@UH.EDU>,  
"foale, michael" <michael.c.foale1@jsc.nasa.gov>,  
"fogleman, guy"  
<gfoglema@mail.hq.nasa.gov>,  
"foley, kevin"  
<kevin.foley@sw.boeing.com>,  
"ford, ken" <kford@ai.uwf.edu>,  
"forsyth, wendy" <zibenza@ns.sympatico.ca>,  
"fotedar, lovely"  
<lkrishen@ddms-technologies.com>,  
"franklin, william"  
<William.Franklin-1@kmail.ksc.nasa.gov>,  
"fraser, don" <fraser@bu.edu>,  
"frassanito, jack" <jack@frassanito.com>,  
"freeman, del"  
<D.C.Freeman@larc.nasa.gov>,  
"freeman, michael"  
<mfreeman@mail.arc.nasa.gov>,  
"frew, allan" <Al.Frew@trw.com>

Subject: NASA Astronauts

Date: Tue, 4 Feb 2003 08:04:04 -0600

Yesterday I received a gift that was meant to be shared with the Universe.

Let us never forget our fallen heroes and their wish that we continue up the path they have blazed for us.

Ken

 NASA.pps.ppt

--  
Delma C. Freeman, Jr.  
Deputy Director  
NASA Langley Research Center  
Mail Stop 106  
Hampton, VA 23681

757-864-4222 (Telephone)

757-864-6117 (Fax)

# STARSCAPES

Building the Brightest Star



*"No pessimist ever  
discovered the secrets  
of the stars..."*

*or sailed to an  
unchartered land...*

*or opened a new  
heaven to  
the human spirit."*

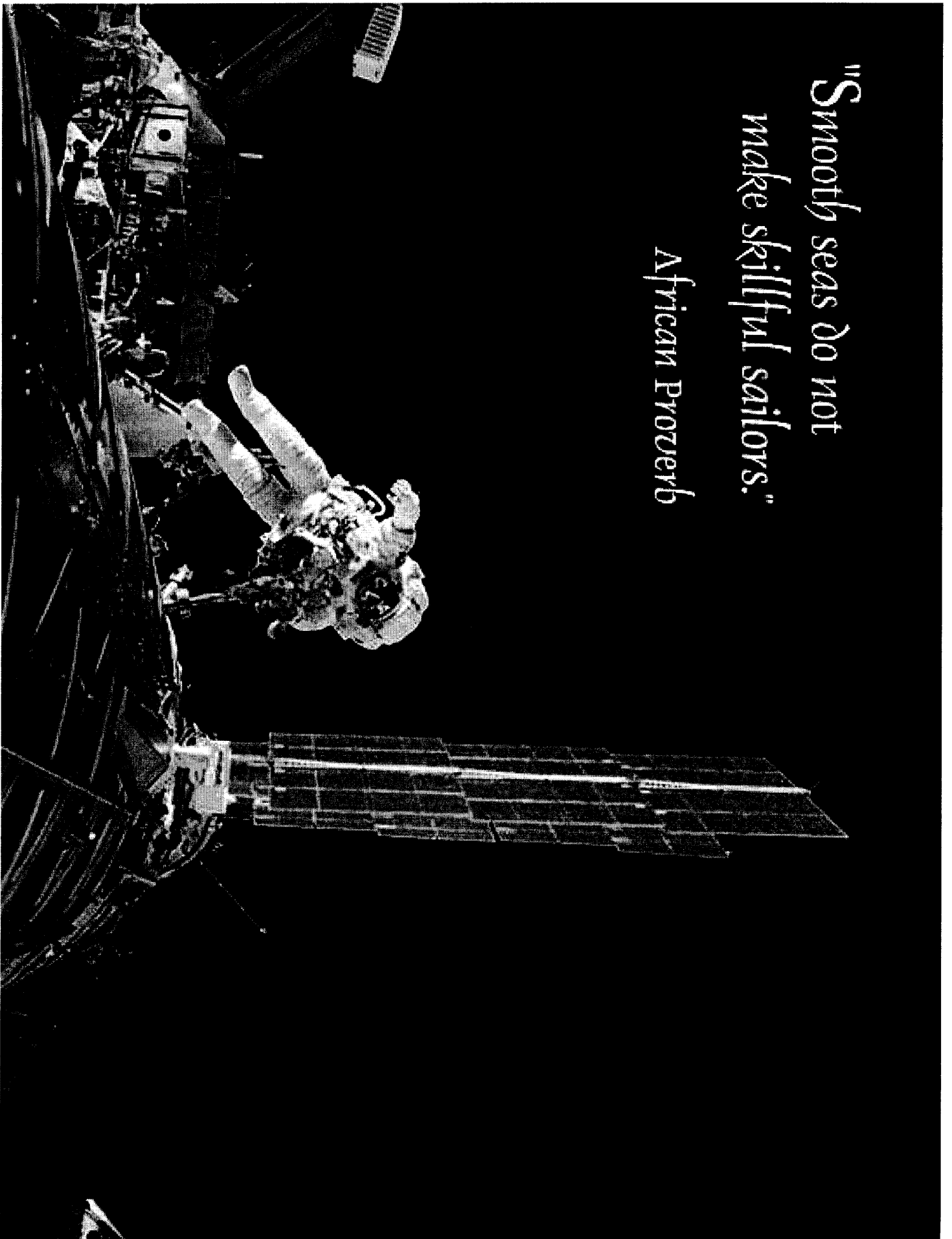
*Helen Keller*





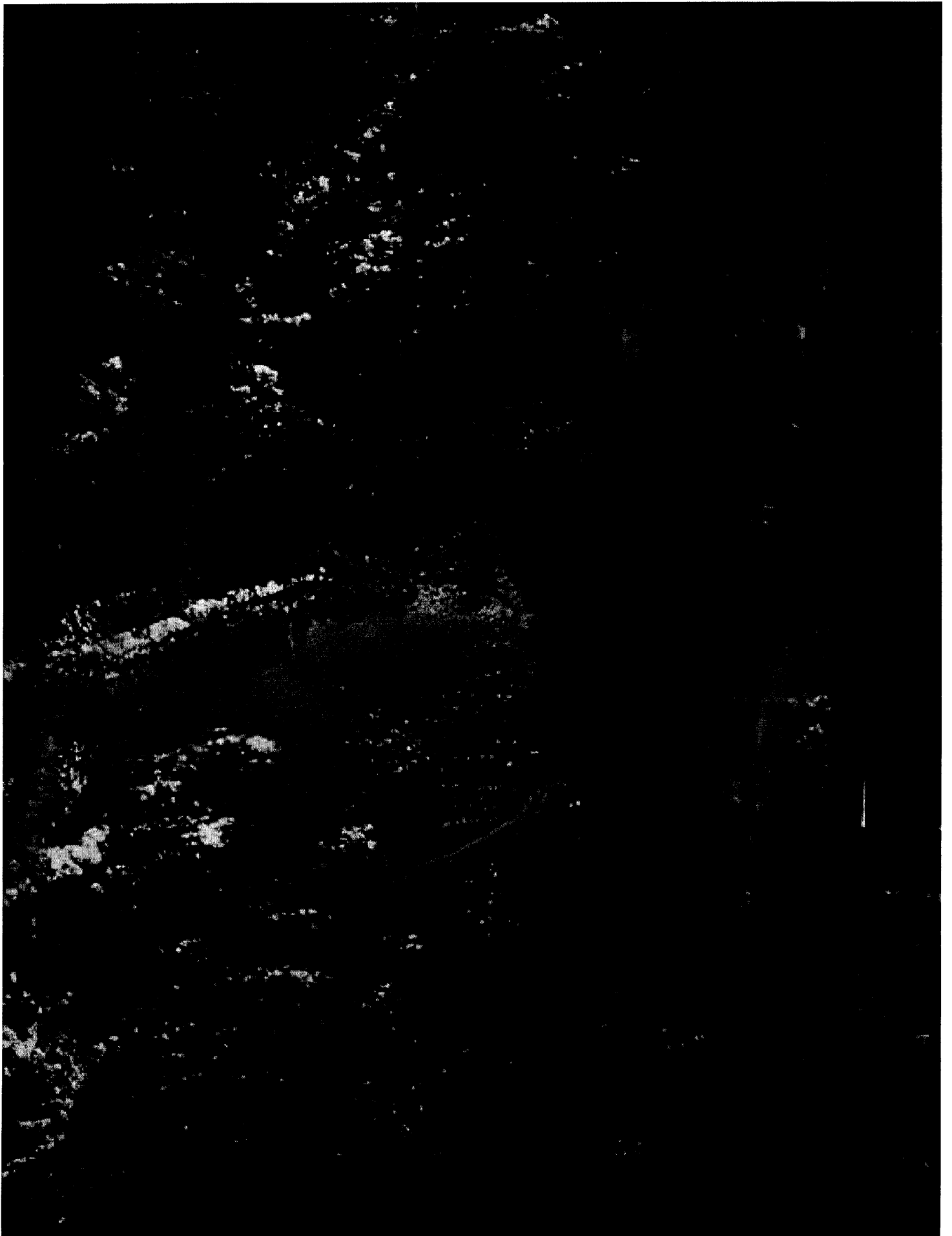
*"Smooth seas do not  
make skillful sailors."*

*African Proverb*



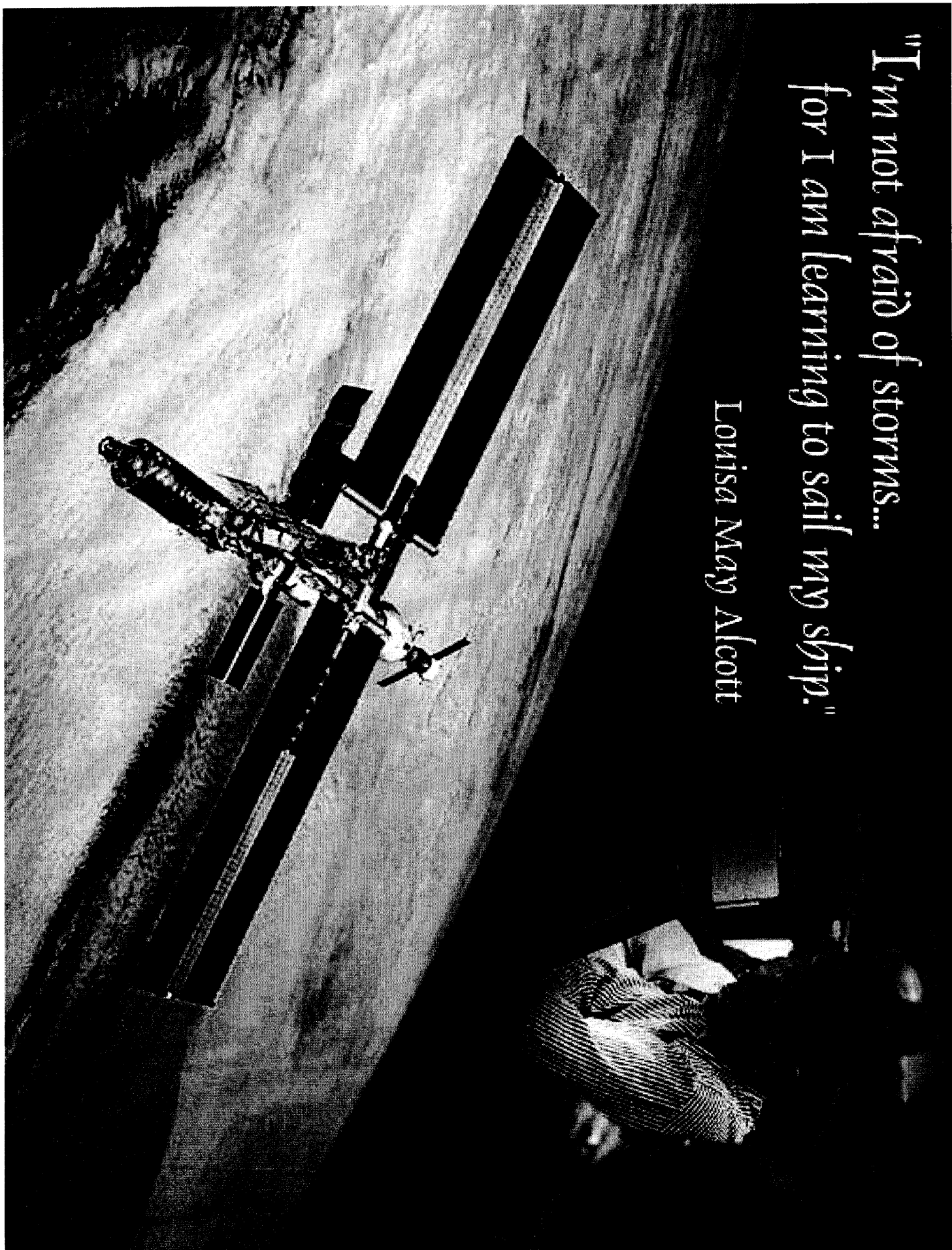






*"I'm not afraid of storms...  
for I am learning to sail my ship."*

*Louisa May Alcott*

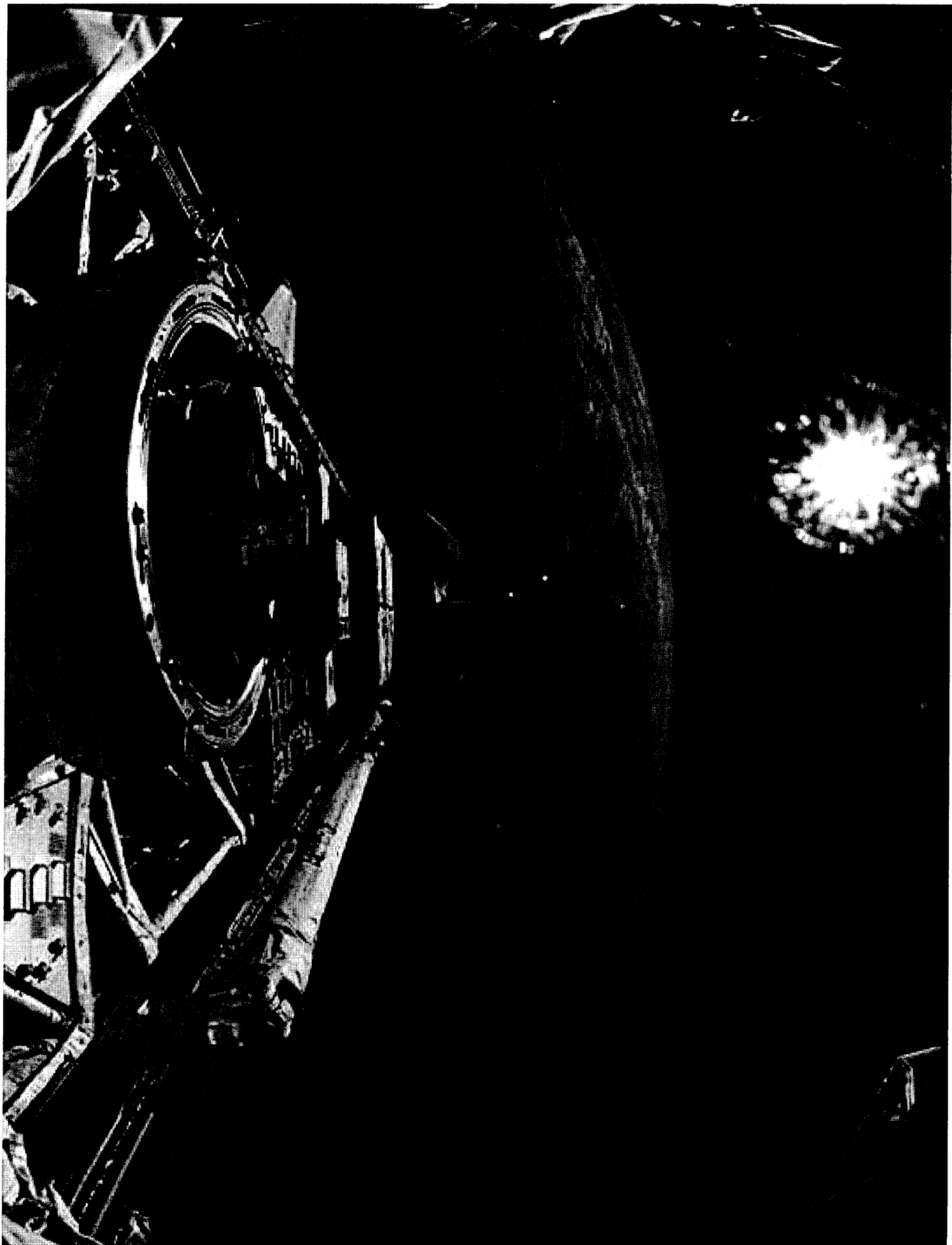




*"Every great  
advance in science  
has issued from  
a new audacity...  
of the imagination."*

*John Dewey*

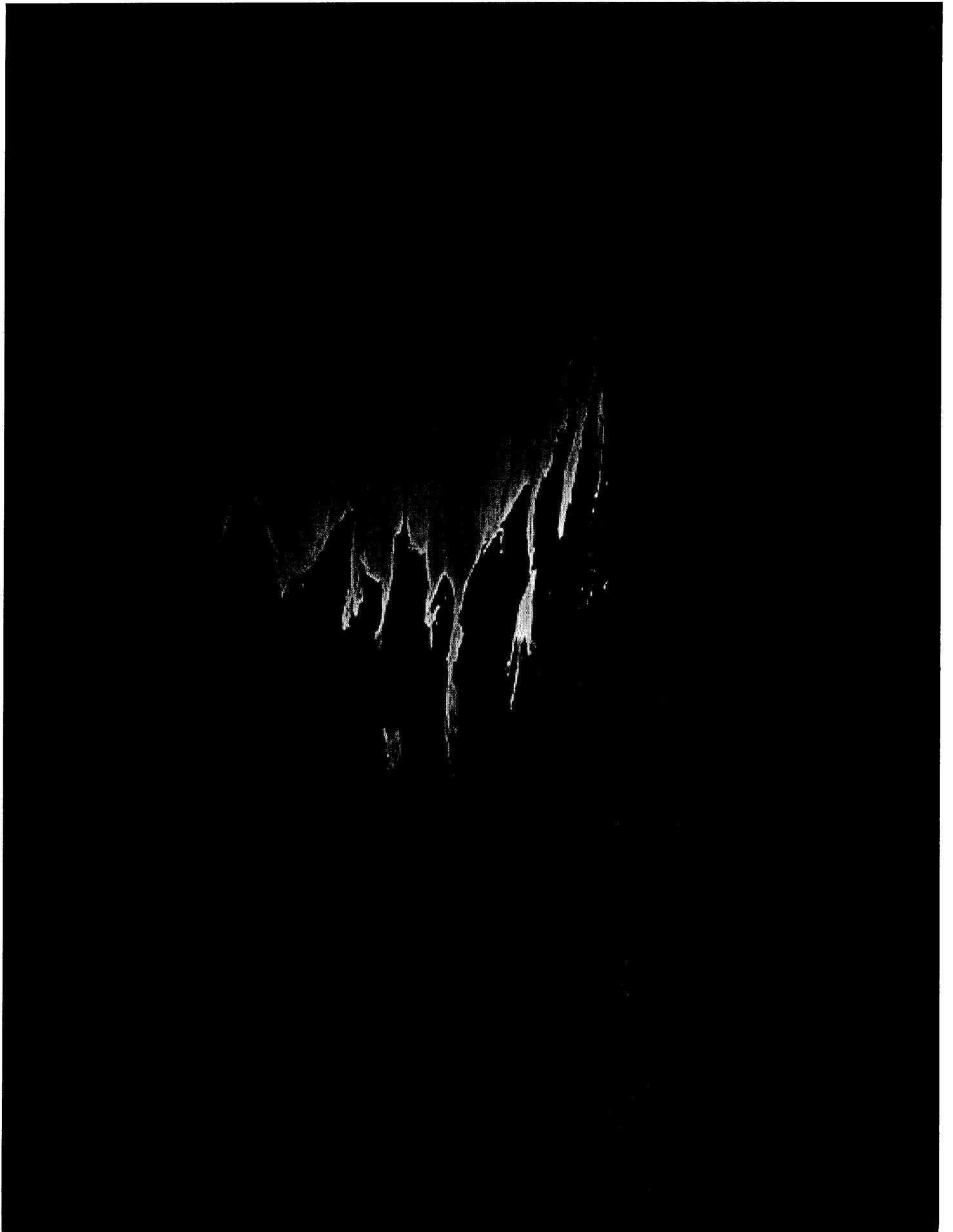




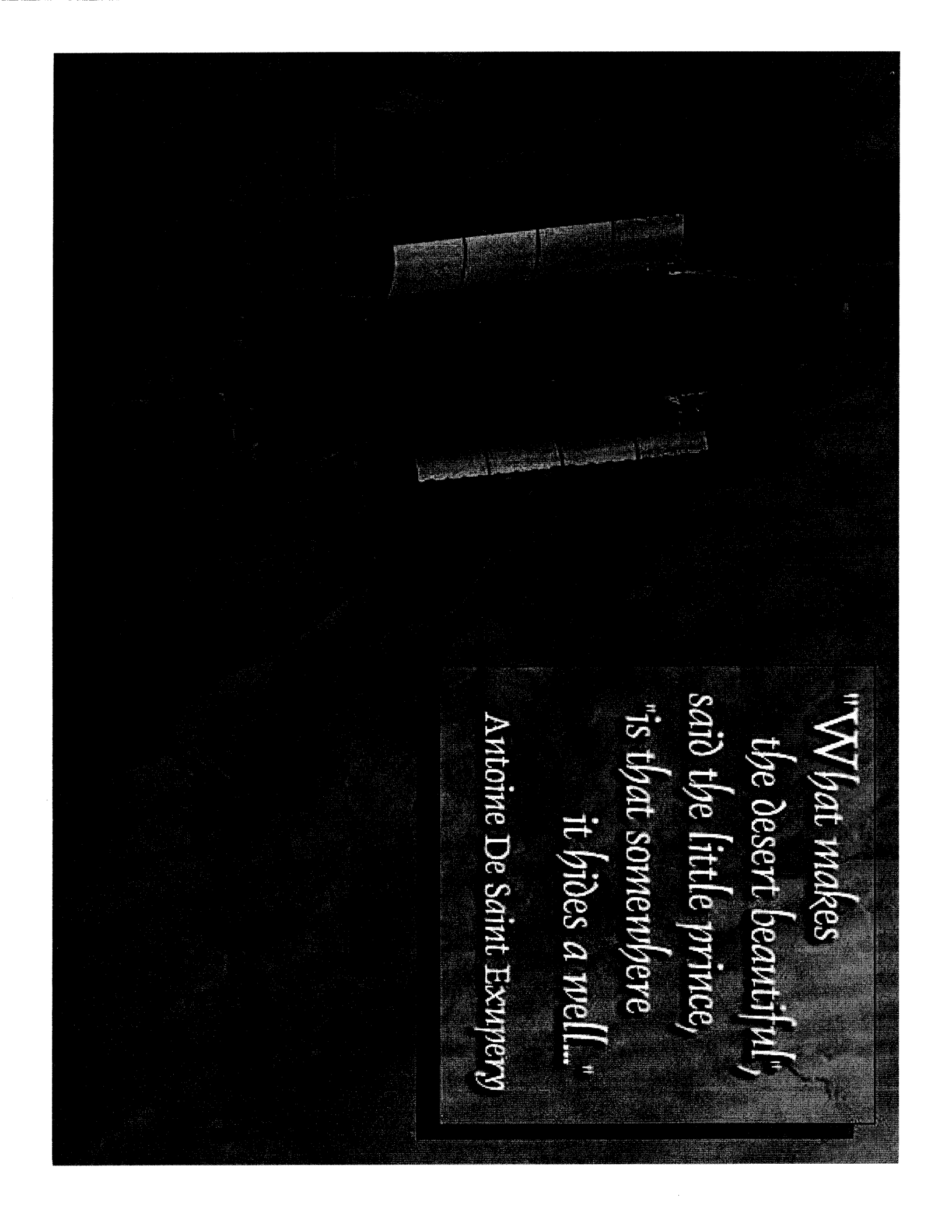


*"We must become the change we want to see."*

Gandhi

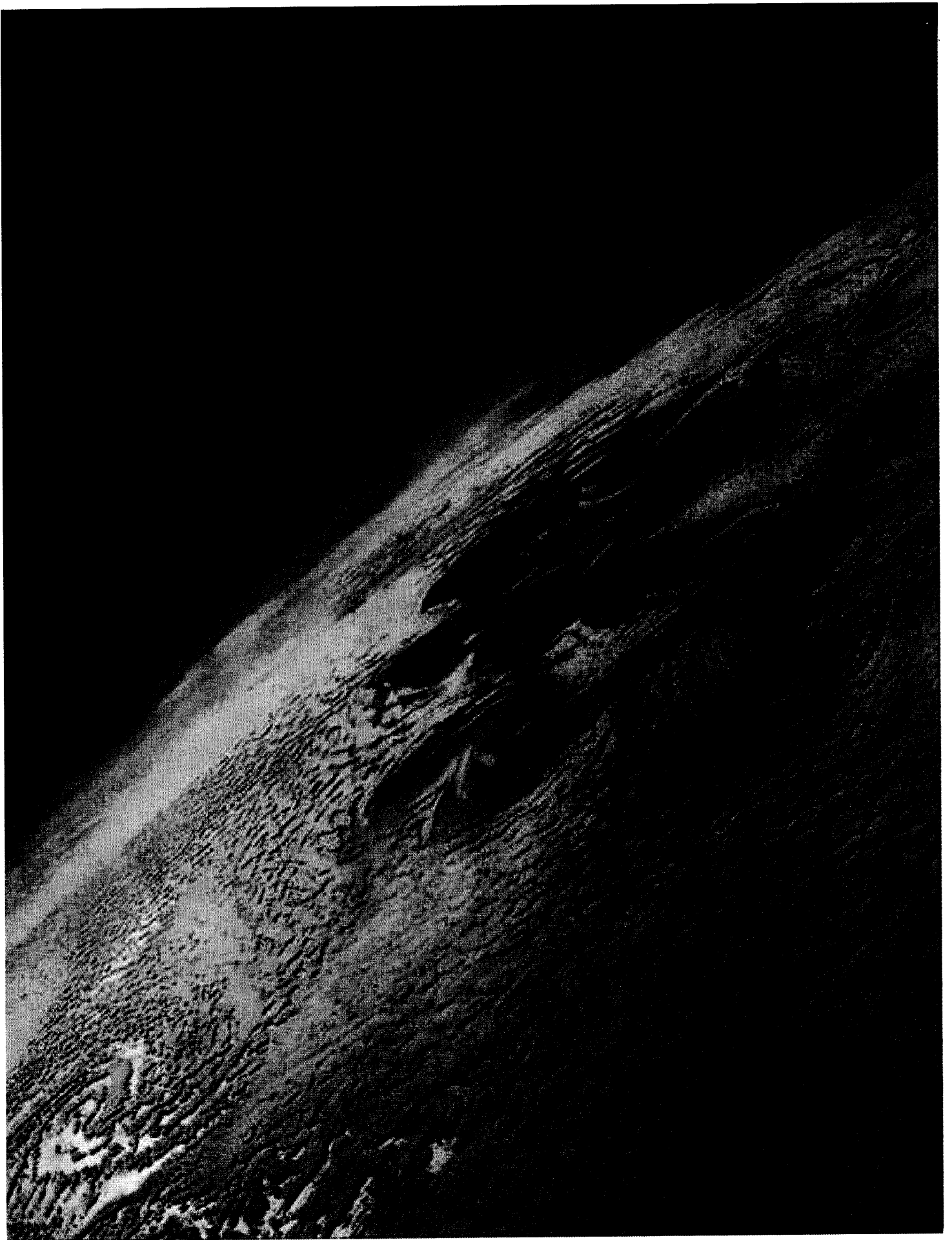


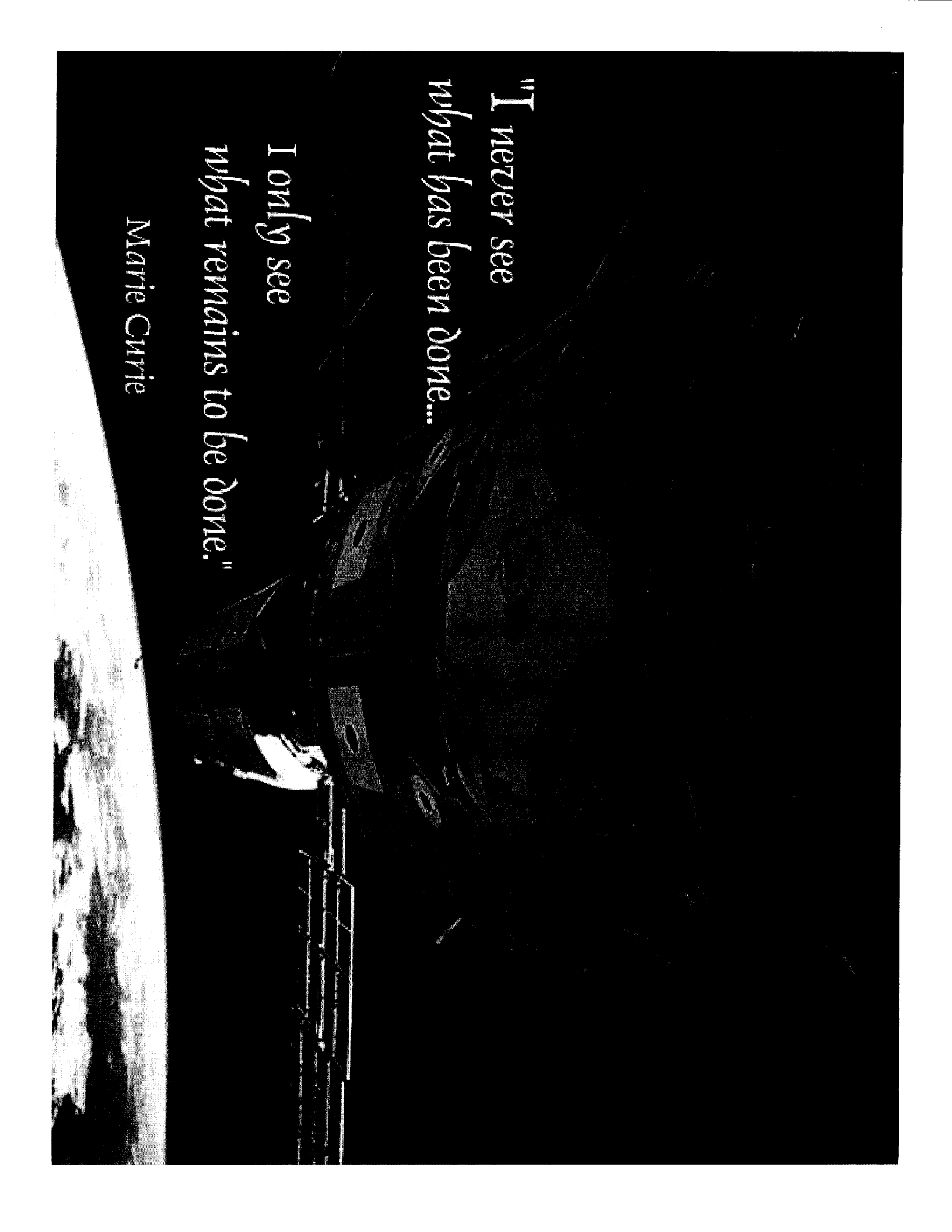




*"What makes  
the desert beautiful,  
said the little prince,  
"is that somewhere  
it hides a well..."*

*Antoine De Saint Exupery*



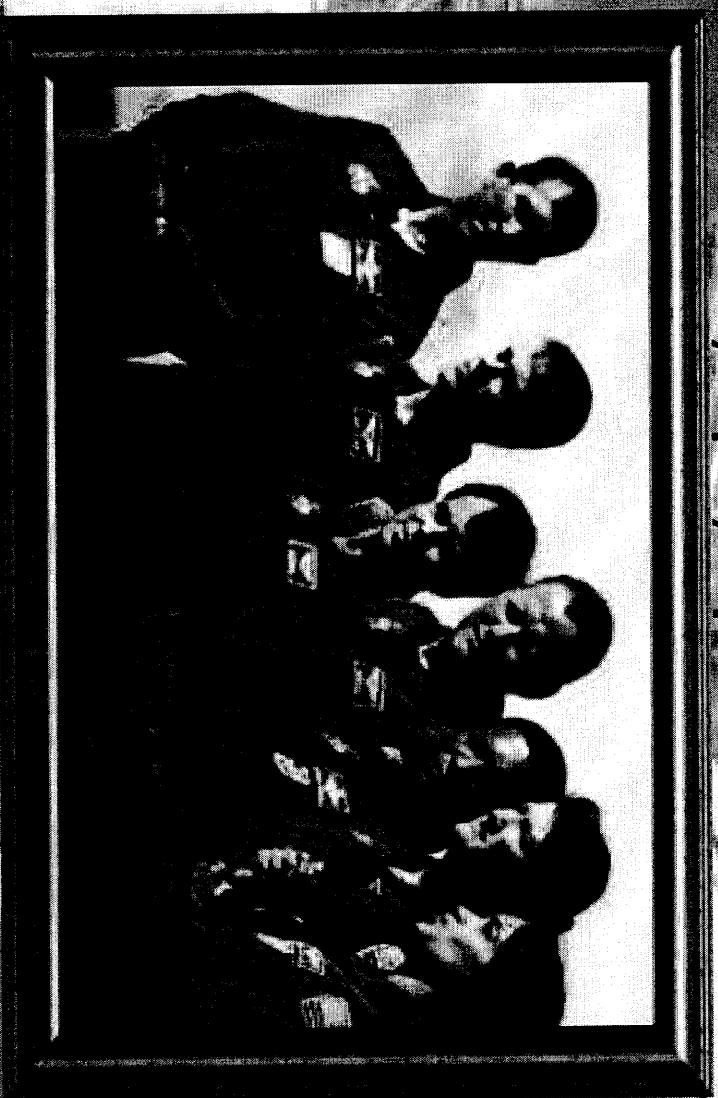


*"I never see  
what has been done..."*

*I only see  
what remains to be done."*

Marie Curie

**This is a sad day indeed. It was 17 years and 3 days ago that we lost people in the Challenger explosion (January 28, 1986). Let's keep the families that lost their loved ones today in prayer please.**



## **In Memory of Space Shuttle Columbia**

### **Astronauts**

**Commander Rick  
Husband**

**Pilot William McCool  
Payload Specialist Ian**

**Ramon**

**Payload Commander**

**Michael Anderson**

**Mission Specialist David  
Brown**

**Mission Specialist**

**Laurel Clark**

**Mission Specialist**

**Kalpana Chawla**

To: r.d.allen@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Fwd: Re: Fwd: Urgent Assistance Requested  
Cc: k.r.credeur@larc.nasa.gov, "SCHRUM, MONICA GREEN"  
<M.G.SCHRUM@larc.nasa.gov>

Bcc:

X-Attachments:

Bob--

Mike agrees. I think we have only one Columbia flag and that need to stay here. Monica indicates she is willing to loan NASA flag if we concur.

Work with Karen and whomever she designates to draft the loan agreement, fax it and get it signed, then work out the details of transmission of the flag and its timely return.

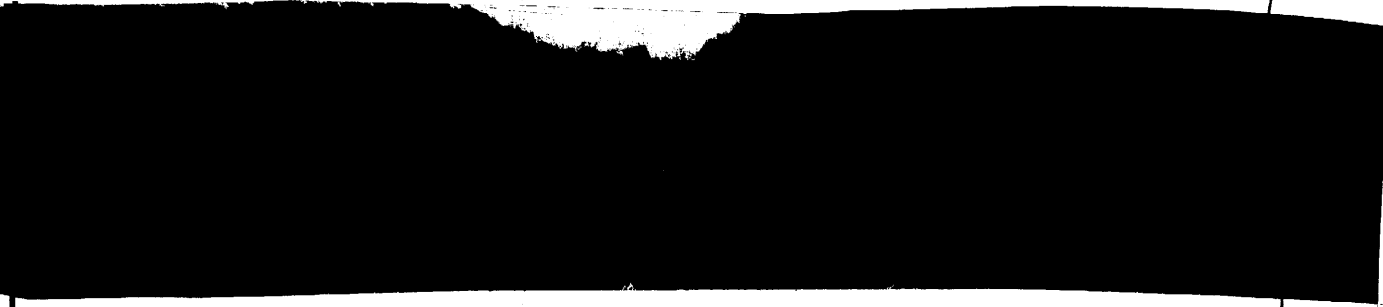
Thanks,

marny

X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 13:01:20 -0500  
To: Marny Skora <m.m.skora@larc.nasa.gov>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: Fwd: Urgent Assistance Requested  
Cc: r.d.allen@larc.nasa.gov, "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>



At 12:28 PM -0500 2/5/03, Marny Skora wrote:



X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 12:09:51 -0500  
To: "Marny M. Skora" <M.M.SKORA@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested  
Cc: "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>,  
"Cheryl W. Cleghorn" <C.W.CLEGHORN@larc.nasa.gov>

Withheld under FOIA exemption (b)(5)

up

SG-160

Withheld under FOIA exemption (b)(5)

[Redacted]

Date: Wed, 5 Feb 2003 11:49:11 -0500  
To: r.d.allen@larc.nasa.gov  
From: Monica Green Schrum <m.g.schrum@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

[Redacted]

Date: Wed, 5 Feb 2003 10:27:56 -0500  
To: m.g.schrum@larc.nasa.gov  
From: Suzanne Barnes <s.n.barnes@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

Def

X-Sender: r.d.allen@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 10:24:12 -0500  
To: "BARNES, SUZANNE N" <S.N.BARNES@larc.nasa.gov>  
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>  
Subject: Fwd: Urgent Assistance Requested

Suzanne:

Here is the Boy Scouts request for a flag that I talked with you about over the telephone.

Any review and consideration is appreciated. Let me know either way, so that I can respond to Mr. Warner.

Bob Allen  
r.d.allen@larc.nasa.gov  
Phone: x46176  
Fax: x46477  
Public Affairs Office

From: [Redacted] Withheld under FOIA exemption (b)(6)  
Date: Tue, 4 Feb 2003 17:58:42 EST  
Subject: Urgent Assistance Requested  
To: feedback+admin@larc.nasa.gov

FOIA (b)(6)

My name is [redacted] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]  
[redacted]

FOIA exemption (b)(6)

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

--

**SUZANNE N. BARNES**  
Secretary, Security Office

NASA Langley Research Center  
Building 1163, Room 112  
7 Hunsaker Loop  
Hampton, VA 23681

Phone: (757) 864-3420  
Fax: (757) 864-8868

Dep

--

Monica Green Schrum  
Security Office, OSEM

Voice: (757) 864-3420  
Fax: (757) 864-8868  
Page: (757) 864-8952/0024

--

\*\*\*\*\*

Marny Skora  
Head, Office of Public Affairs  
NASA Langley Research Center  
Mail Stop 115, Bldg 1219, Rm 303  
11 Langley Blvd.

Hampton, VA 23681  
(757) 864-6121

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>



To: h.k.henry@larc.nasa.gov, k.a.barnstoprff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, w.c.uher@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Remains release  
Cc:  
Bcc:

X-Attachments:  03-53 Ramon.doc 1

---

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to  
owner-news-chiefs using -f  
X-Sender: rjacobs@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Wed, 05 Feb 2003 13:33:16 -0500  
To: News-Chiefs@hq.nasa.gov, Eileen.m.hawley@nasa.gov  
From: Robert Jacobs <rjacobs@hq.nasa.gov>  
Subject: REVISED release  
Sender: owner-news-chiefs@lists.hq.nasa.gov

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 5, 2003

Kyle Herring  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

436<sup>th</sup> Airlift Wing Public Affairs  
Dover Air Force Base, Del.  
(Phone: 302/677-3372/3375/3693)

RELEASE: 03-53

**DEPUTY ADMINISTRATOR MEETS SPACE SHUTTLE  
COLUMBIA ASTRONAUTS' REMAINS AT DOVER AFB**

Today, Deputy NASA Administrator Frederick Gregory will render honors to the crew of the Space Shuttle Columbia at Dover Air Force Base in Delaware. The remains of the orbiter's seven astronauts are scheduled to arrive in flag-draped caskets at Dover about 2 p.m. EST on board a C-141 Starlifter.

The seven astronauts – Commander Rick Husband (Colonel, USAF), Pilot Willie McCool (Commander, USN) and Mission Specialists Michael Anderson (Lieutenant Colonel, USAF), David Brown (Captain, USN), Kalpana Chawla and Laurel Clark (Commander, USN), and Payload Specialist Ilan Ramon (Colonel, Israel Force) – died Saturday when the Space Shuttle Columbia broke up over the southern United States.

The Charles C. Carson Center for Mortuary Affairs at the base will prepare the remains for return to the families. Ramon's remains will be flown to his home in Israel for burial. Final funeral arrangements for the crew are still to be announced.

Video and still images of the private Honor Guard reception will be included in a NASA Television video feed later today and available on the agency's Internet site at [www.nasa.gov](http://www.nasa.gov).

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Wed, 5 Feb 2003 14:30:32 -0500 (EST)  
From: NASA News@hq.nasa.gov  
Subject: DEPUTY ADMINISTRATOR MEETS SPACE SHUTTLE COLUMBIA ASTRONAUTS' REMAINS AT DOVER AFB  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 5, 2003

Kyle Herring  
Johnson Space Center, Houston  
(Phone: 281/483-5111)

436th Airlift Wing Public Affairs  
Dover Air Force Base, Del.  
(Phone: 302/677-3372/3375/3693)

RELEASE: 03-053

DEPUTY ADMINISTRATOR MEETS SPACE SHUTTLE  
COLUMBIA ASTRONAUTS' REMAINS AT DOVER AFB

Today, Deputy NASA Administrator Frederick Gregory will render honors to the crew of the Space Shuttle Columbia at Dover Air Force Base in Delaware. The remains of the orbiter's seven astronauts are scheduled to arrive in flag-draped caskets at Dover about 2 p.m. EST on board a C-141 Starlifter.

The seven astronauts - Commander Rick Husband (Colonel, USAF), Pilot Willie McCool (Commander, USN) and Mission Specialists Michael Anderson (Lieutenant Colonel, USAF), David Brown (Captain, USN), Kalpana Chawla and Laurel Clark (Commander, USN), and Payload Specialist Ilan Ramon (Colonel, Israel Force) - died Saturday when the Space Shuttle Columbia broke up over the southern United States.

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-end-

\* \* \*


NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov).

In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 15:03:30 -0500  
To: m.m.skora@larc.nasa.gov  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Fwd: Draft Letter for Del

Marny, attached is the draft e-mail to all employees from Del. He hasn't seen it yet, but it includes the pertinent information we discussed re inquiries. Any comments, let me know. This was drafted by Kathy Kurke at Del's request. I edited it down.

Mike

 10004260.doc - Attachment Withheld under FOIA Exemption (b)(5).

--  
Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,  
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,  
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov, m.pitts@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Update from Today's PAO tag-up  
Cc: m.p.finneran@larc.nasa.gov  
Bcc:

X-Attachments:

- 
- No 11:30 STS-107 news briefing from HQ tomorrow  
10 a.m. Washington National Cathedral memorial takes precedence
  
  - 11:30 and 4:30 briefings on Friday
  
  - No schedule yet for weekend  
We should make preparations to be open and have Q&A capability--Gary  
Easier to cancel than to make last minute preparations  
I am thinking about the right number of people we need to have on board  
This may be a long haul -- everyone will be called upon at some time  
For this weekend I'd like to call on Gary, Keith, Bill  
If any of you are not available, speak quickly so I can substitute  
I'd like to ask Marg to monitor the phone from home.  
She can call me with media requests to come out
  
  - HQ has set up a Columbia PAO room  
Staffed by Feinstein, Braukus, Melissa, Elvia, and \_\_\_\_\_  
They can be reached by calling the newroom # (202-359-1600)  
Their direct line forthcoming  
Forward Qs for which we have had no guidance  
We can answer Qs on info in the public domain  
We can provide documents that have already been released  
(more guidance coming)
  
  - Several astronauts have been approved to do interviews  
Names coming  
They will talk about            -astronaut training  
                                      -the close astronaut family  
                                      -what it's like -- launch, landing
  
  - More to come

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-whats-ahead using -f  
X-Sender: fbrown1@mail.hq.nasa.gov  
X-Priority: 1 (Highest)  
Date: Wed, 05 Feb 2003 15:26:23 -0500  
To: whats-ahead@lists.hq.nasa.gov, Adam.A.Belmar@abc.com  
From: Fred Brown <fbrown1@hq.nasa.gov>  
Subject: What's Ahead - - NASA TV Schedule 2/5/03  
Sender: owner-whats-ahead@lists.hq.nasa.gov

**What's Ahead - NASA TV News and Special Events Schedule:**

\*All Programs Are Subject To Change Without Notice/ \*\*All Times Eastern  
\*\*\*Sources of NASA TV on the web: <http://www.nasa.gov/ntv/ntvweb.html>

NASA TV Shuttle Mission Schedule:  
<http://spaceflight.nasa.gov/realdata/nasatv/schedule.html>

---

Monday - Friday

**11:00 a.m. - 12:00 p.m.** - Expedition/ISS Commentary - JSC  
**12:00 - 1:00 p.m.** - NASA TV Video-File - HQ (Video-File replays at 3 hour intervals)  
**Hourly** - NASA Vision/Mission Video - HQ

---

ADD:

February 5, Wednesday  
\*4:30 p.m. STS-107 Accident Briefing JSC  
Immediately Following Replay of STS-107 Accident Briefing from NASA HQ-  
Replay of STS-107 Memorial Service from Johnson Space Center  
NASA TV Video-File

DELETE:

---

This Week:

\*\*Daily Press Briefings on the STS-107 Accident: 11:30 a.m. from NASA Headquarters, Washington, DC/4:30 p.m. from the Johnson Space Center, Houston, Texas.

---

February 5, Wednesday  
\*4:30 p.m. STS-107 Accident Briefing JSC  
Replay of STS-107 Accident Briefing from NASA HQ (2/5/03)  
Replay of STS-107 Memorial Service from Johnson Space Center (2/4/03)  
NASA TV Video-File

February 6, Thursday  
10:00 a.m. - STS-107 Crew Memorial Service From the National Cathedral Washington, DC - HQ

(Follows STS-107 Crew Memorial Service)  
\*11:00 a.m. - 12:00 p.m. - International Space Station Commentary - JSC

February 7, Friday  
\*10:30 a.m. - 11:15 a.m. - International Space Station Commentary - JSC

\*\*\*\*\*  
NOTE: All times Eastern. All programs may be pre-empted without advance notice.  
\*\*\*\*\*

NASA TV WEB SITES:

- <http://www.nasa.gov/ntv/ntvweb.html> (Sources of NASA TV on the web)
- <http://www.nasa.gov/ntv>
- <http://www.nasa.gov/ntv/schedule.html>

NASA TV Shuttle Mission Schedule:

<http://spaceflight.nasa.gov/realdata/nasatv/schedule.html>

NASA TV Education File Schedule:

<http://spacelink.nasa.gov/education.file>

-NASA TV-

Fred Brown  
NASA Television  
Executive Producer  
Code PM, NASA HQ  
202/358-0713 Desk  
202/997-4891Cell



X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Wed, 5 Feb 2003 17:20:32 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: SHUTTLE ACCIDENT BRIEFINGS SET  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Bob Jacobs  
Headquarters, Washington Feb. 5, 2003  
(Phone: 202/358-1600)

RELEASE: 03-054

SHUTTLE ACCIDENT BRIEFINGS SET

A press briefing is scheduled for 4:30 p.m. EST Thursday in connection with the investigation into the Space Shuttle Columbia accident.

Ron Dittmore, NASA's Space Shuttle Program Manager, will update the press on the mishap investigation from the Johnson Space Center. Reporters will be able to ask questions from participating NASA centers. There is no press conference scheduled in Washington Thursday.

The press conferences will be broadcast on NASA Television. NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about NASA is on the Internet at [www.nasa.gov](http://www.nasa.gov).

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

February 5, 2003

During today's press conference at JSC, Space Shuttle Program Manager Ron Dittmore mentioned that three reports dealing with Space Shuttle thermal protection tiles were available for review by the news media. Two of those documents are available via the internet. Below are the website addresses for that information.

\*\*\*\*\*

**RISK MANAGEMENT FOR THE TILES OF THE SPACE SHUTTLE - 1994**

M. Elisabeth Pate-Cornell  
Stanford University

Paul S. Fischbeck  
Carnegie Mellon University

<http://www.informs.org/Press/SpaceShuttle.pdf>

\*\*\*\*\*

**STS-87 POST-FLIGHT INSPECTION – 1997**

Greg Katnik

<http://quest.arc.nasa.gov/people/journals/space/katnik/sts87-12-23.html>

\*\*\*\*\*

To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,  
c.p.rink@larc.nasa.gov, w.c.uher@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Fwd: FW: Reports Websites  
Cc:  
Bcc:

X-Attachments:  Report Websites.doc

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Wed, 05 Feb 2003 18:21:34 -0500

To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov,  
rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov,  
rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov,  
dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov,  
ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov,  
gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov,  
hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov,  
kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov,  
mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov,  
stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov,  
pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, plegget@hq.nasa.gov,  
rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Fwd: FW: Reports Websites

Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI. The third report is only available in hardcopy... JSC will FAX to interested centers and HQ.

From: "HAWLEY, EILEEN M. (JSC-AP131) (NASA)" <eileen.m.hawley@nasa.gov>

To: "'Bob Jacobs'" <rjacobs@hq.nasa.gov>,  
"Doc Mirelson"

<rmirelso@hq.nasa.gov>

Subject: FW: Reports Websites

Date: Wed, 5 Feb 2003 16:33:36 -0600

X-Mailer: Internet Mail Service (5.5.2653.19)

Per Ed, please forward to all centers.

-----Original Message-----

**From:** KOSSUM, KACY (JSC-AP) (MSC)

**Sent:** Wednesday, February 05, 2003 4:32 PM

**To:** HAWLEY, EILEEN M. (JSC-AP131) (NASA)

**Subject:** Reports Websites

**Kacy C. Kossum**

**Newsroom Coordinator**

**NASA/Johnson Space Center**

Office of Public Affairs/AP131

2101 NASA Road 1

Houston, TX 77058


281.483.4091 (Voice)

281.483.2000 (Fax)

Doc Mirelson  
Chief, NASA News & Imaging  
(202) 358-4495/1600

To: r.d.allen@larc.nasa.gov  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Message for @LaRC  
Cc:  
Bcc:  
X-Attachments:

---



FOIA EXEMPTION (b)(5)

To: Greta Lowe <g.m.lowe@larc.nasa.gov>  
From: Marny Skora <m.m.skora@larc.nasa.gov>  
Subject: Re: External Customer Contact  
Cc:  
Bcc:  
X-Attachments:

Greta

If the requests are from reporters, give them to me.

If they are from private citizens, give them to Cheryl Cleghorn at  
c.w.cleghorn@larc.nasa.gov

marny

Hi,

I have received a few contacts from customers who want information that is possibly shuttle related. How and to whom should I refer these customers?

Thank you for your assistance.

Greta

\*\*\*\*\*

Greta Lowe, Librarian  
NASA Langley Research Center  
Technical Library ,MS185  
Hampton, VA 23681-0001

E-mail: g.m.lowe@larc.nasa.gov  
Telephone: 757-864-9525  
Fax: 757-864-2375

\*\*\*\*\*

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f

X-Sender: rmirelso@mail.hq.nasa.gov

Date: Tue, 04 Feb 2003 20:06:37 -0500


To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov, rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov, rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov, dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov, ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov, gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov, hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov, kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov, mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov, stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov, pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pclegget@hq.nasa.gov, rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov

From: Robert Mirelson <rmirelso@hq.nasa.gov>

Subject: Columbia updates

Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI and use.

 mcc0204.doc

 03-050PressConferences.doc

Doc Mirelson

Chief, NASA News & Imaging

(202) 358-4495/1600

# NASA Shuttle Status

National Aeronautics and  
Space Administration



Lyndon B. Johnson Space Center  
Houston, Texas 77058  
281/483-5111

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## MISSION CONTROL CENTER STATUS REPORT #22 STS-107 Accident Response Tuesday, Feb. 4, 2003 – 7:00 p.m. CST

As NASA paused to pay tribute to Columbia's astronauts, the agency reported making "considerable progress" in recovering debris from the Space Shuttle and analyzing data in the search for clues to what caused the orbiter to breakup 16 minutes before its landing last Saturday.

President and Mrs. Bush joined NASA Administrator Sean O'Keefe in honoring astronauts Rick Husband, William McCool, Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Ilan Ramon in a ceremony at the Johnson Space Center, Houston. President Bush said the nation was "blessed" to have such men and women serving the space program, and although NASA is being tested at this time, "America's space program will go on."

In an afternoon briefing, Michael Kostelnik, NASA's Associate Administrator for International Space Station and Space Shuttle said several engineering teams continue to work round-the-clock to reconstruct the timeline of the final minutes of Columbia's flight from extensive data that is being analyzed.

Kostelnik said the Columbia Accident Investigation Board, chaired by retired U.S. Navy Admiral Harold W. Gehman, Jr., is on scene at Barksdale Air Force Base, La. where the recovery of debris and human remains is being coordinated.

Kostelnik reported that larger and denser pieces of debris have been found in Louisiana, possibly including parts of Columbia's main engines. He said recovery teams have been dispatched to California and Arizona, where debris has been reported. Kostelnik indicated debris recovered from areas farthest to the west would be critical, possibly providing information about the early stages of Columbia's breakup.

Earlier today, a Russian Progress resupply ship successfully docked to the International Space Station at 9:49 a.m. EST, delivering a ton of food, fuel and supplies to Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit. The Progress has given the Station resident crew a "solid" supply of consumables, enough to sustain operations through at least late June, according to Kostelnik.

Bowersox, Budarin and Pettit opened the hatches between the ISS and the Progress this afternoon and will begin unloading its supplies on Wednesday.

NASA Johnson Space Center Mission Status Reports and other information are available automatically by sending an Internet electronic mail message to [majordomo@listserver.jsc.nasa.gov](mailto:majordomo@listserver.jsc.nasa.gov). In the body of the message (not the subject line) users should type "subscribe" (no quotes). This will add the email address that sent the subscribe message to the news release distribution list. The system will reply with a confirmation via E-mail of each subscription. Once you have subscribed you will receive future news releases via e-mail.



Asked about contingency planning for the Station for the rest of the year, Kostelnik said all options to sustain a human presence on board in the temporary absence of Shuttle flights are being explored. The next Shuttle flight aboard Atlantis in March was to have brought the Expedition 7 crew to the ISS and returned to Earth the current resident crew.

Two STS-107 Accident Response briefings will be held on Wednesday, Feb. 5 and will be broadcast on NASA Television with multi-center question and answer capability for reporters at NASA centers. The first briefing is from NASA Headquarters in Washington at 11:30 a.m. EST. The second with Space Shuttle Program Manager Ron Dittmore from the Johnson Space Center is at 4:30 p.m. EST.

Status reports will be issued as developments warrant.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-

Glenn Mahone/Bob Jacobs  
Headquarters, Washington  
(Phone: 202/358-1600)

Feb. 4, 2003

RELEASE: 03-050

### **SHUTTLE ACCIDENT BRIEFINGS SET**

A press briefing is scheduled for 11:30 a.m. EST Wednesday in Washington at NASA Headquarters in connection with the investigation into the Space Shuttle Columbia accident.

NASA's Associate Administrator for Space Flight Bill Readdy, Michael Kostelnik, Deputy Associate Administrator for the Space Shuttle and International Space Station programs, and Dr. Howard Ross, NASA's Acting Associate Deputy Administrator for Science for the Office of Biological and Physical Research, will discuss the status of the accident investigation and the research that was the focus of Columbia's last mission. Reporters will be able to ask questions from participating NASA centers. Headquarters is located at 300 E Street, SW, Washington, 20456.

Ron Dittmore, NASA's Space Shuttle Program Manager, will update the press on the mishap investigation at 4:30 p.m. EST from the Johnson Space Center. Reporters will be able to ask questions from participating NASA centers

The press conferences will be broadcast on NASA Television. NASA Television is available on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Additional information about NASA is on the Internet at **[www.nasa.gov](http://www.nasa.gov)**.

-end-

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Tue, 4 Feb 2003 20:10:40 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA PROVIDES UPDATE ABOUT COLUMBIA INVESTIGATION  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Robert N. Mirelson  
Headquarters, Washington  
2003  
(Phone: 202/358-1600)

Feb. 4,

Eileen Hawley  
Johnson Space Center  
(Phone: 281/483-5111)

RELEASE: 03-051

NASA PROVIDES UPDATE ABOUT COLUMBIA INVESTIGATION

As NASA paused to pay tribute to Columbia's astronauts, the agency reported making "considerable progress" in recovering debris from the Space Shuttle and analyzing data in the search for clues to what caused the orbiter to breakup 16 minutes before its landing last Saturday.

President and Mrs. Bush joined NASA Administrator Sean O'Keefe in honoring astronauts Rick Husband, William McCool, Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Ilan Ramon in a ceremony at the Johnson Space Center, Houston. President Bush said the nation was "blessed" to have such men and women serving the space program, and although NASA is being tested at this time, "America's space program will go on."

In an afternoon briefing, Michael Kostelnik, NASA's Associate Administrator for International Space Station and Space Shuttle said several engineering teams continue to work round-the-clock to reconstruct the timeline of the final minutes of Columbia's flight from extensive data that is being analyzed.

Kostelnik said the Columbia Accident Investigation Board, chaired by retired U.S. Navy Admiral Harold W. Gehman, Jr., is on scene at Barksdale Air Force Base, La. where the recovery of debris and human remains is being coordinated.

Kostelnik reported that larger and denser pieces of debris have been found in Louisiana, possibly including parts of Columbia's main engines. He said recovery teams have been dispatched to California and Arizona, where debris has been reported. Kostelnik indicated debris recovered from areas farthest to the west would be critical, possibly providing information about the early stages of Columbia's breakup.

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food, fuel and supplies to Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit. Progress has given the Station resident crew a "solid" supply of consumables, enough to sustain operations through at least late June, according to Kostelnik.

Bowersox, Budarin and Pettit opened the hatches between the ISS and the Progress today, and they will begin unloading its supplies on Wednesday.

Asked about contingency planning for the Station for the rest of the year, Kostelnik said all options to sustain a human presence on board in the temporary absence of Shuttle flights are being explored. The next Shuttle flight aboard Atlantis in March was to have brought the Expedition 7 crew to the ISS and returned to Earth the current resident crew.

Two STS-107 update briefings will be held on Wednesday, Feb. 5. They will be broadcast on NASA Television with multi-center question and answer capability for reporters at NASA centers. The first briefing, with NASA Associate Administrator for Space Flight Bill Readdy, is from NASA Headquarters in Washington at 11:30 a.m. EST. The second, with Space Shuttle Program Manager Ron Dittmore, from the Johnson Space Center, is at 4:30 p.m. EST.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov). In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to [domo@hq.nasa.gov](mailto:domo@hq.nasa.gov), leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-press-release using -f  
Date: Wed, 5 Feb 2003 20:50:37 -0500 (EST)  
From: NASANews@hq.nasa.gov  
Subject: NASA MISSION CONTROL CENTER STATUS REPORT  
Sender: owner-press-release@lists.hq.nasa.gov  
To:

Glenn Mahone/Robert Mirelson  
Headquarters, Washington Feb. 5, 2003  
(Phone: 202/358-1600)

RELEASE: 03-055

NASA MISSION CONTROL CENTER STATUS REPORT

The search for clues about what caused Columbia's breakup during reentry Saturday, and the hunt for key debris from the orbiter, expanded today with recovery teams deployed in California and Arizona.

Four days after Columbia broke apart 16 minutes prior to landing, Space Shuttle Program Manager Ron Dittemore said the inquiry into the cause for Columbia's demise is "picking up speed". But Dittemore said efforts to draw any new information from an additional 32 seconds of data acquired by ground computers following the loss of voice communications with Columbia have so far been unsuccessful.

In a briefing, Dittemore said the engineering evaluation teams are focusing their attention on "something other" than insulating foam on Columbia's external tank that fell off 80 seconds after launch striking the left wing, as the reason for the accident.

"It does not make sense that a piece of (foam) debris caused the loss of Columbia and its crew," Dittemore added. He reiterated Columbia tried to compensate for increased drag on its left wing in the seconds prior to its breakup, firing steering jets to right itself. But Dittemore said of Columbia, "It was doing well, but it was losing the battle."

As the engineering analysis continued, the remains of Columbia's astronauts were flown to Dover Air Force Base, Delaware, where identification of the astronauts will be completed. At the conclusion of the forensic analysis, the remains will be released to the families for burial.

Dittemore mentioned that three reports dealing with Space Shuttle thermal protection tiles were available for review by the news media. Two of those documents are available via the Internet. The third is available in hardcopy from the JSC newsroom. The titles and website addresses for that information are:

RISK MANAGEMENT FOR THE TILES OF THE SPACE SHUTTLE - 1994

<http://www.informs.org/Press/SpaceShuttle.pdf>

STS-87 POST-FLIGHT INSPECTION - 1997

<http://quest.arc.nasa.gov/people/journals/space/katnik/sts87-12-23.html>

In an earlier briefing, Michael Kostelnik, NASA's Associate Administrator for International Space Station and Space Shuttle, said the recovery operations are moving ahead "full steam", involving 2500 people nationwide from federal and local agencies. Kostelnik said NASA has added a task force to integrate the work between numerous engineering teams that are reviewing over Columbia's data and the Columbia Accident Review board, chaired by retired Navy Admiral Harold Gehman, Jr.

Kostelnik said that although a relatively small percentage of Shuttle debris has been recovered so far, segments of large components such as Columbia's nose cone and main engines have been found. The focus of the recovery effort and the data analysis, according to Kostelnik, continues to be Columbia's left wing area, although no element of the orbiter has been exonerated in the ongoing inquiry.

Aboard the International Space Station, Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit spent the day unloading the Russian Progress resupply ship that docked to the ISS Tuesday, carrying one ton of food, fuel and supplies.

Pettit unstowed replacement parts for the Microgravity Science Glovebox from the Progress and installed them in the facility in the Destiny laboratory in an effort to revive the Glovebox that has been dormant since November following a power failure.

Pettit powered up the Glovebox, but a circuit breaker in the system popped and payload controllers told Pettit to shut it down so they can evaluate its current status.

On Thursday, NASA Television will broadcast a memorial ceremony for Columbia's astronauts from National Cathedral in Washington, D.C. at 10:00 a.m. EST.

The next STS-107 Accident Response briefing will be held on Thursday at 4:30 p.m. EST from the Johnson Space Center, Houston, also on NASA TV, with multi-center question and answer capability for reporters at NASA centers.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees west longitude, 3880 MHz, with audio at 6.8 MHz.

-end-

NASA Johnson Space Center Mission Status Reports and other information are available automatically by sending an Internet electronic mail message to majordomo@listserver.jsc.nasa.gov. In the body of the message (not the subject line) users should type "subscribe" (no quotes). This will add the email address that sent the subscribe message to the news release distribution list. The system will reply with a confirmation via E-mail of each subscription. Once you have subscribed you will receive future news releases via e-mail.

\* \* \*

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Wed, 5 Feb 2003 22:26:24 -0500  
To: m.m.skora@larc.nasa.gov  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Fwd: From Congressional Record

FYI for use as you see fit.

Mike

X-Sender: hrothman@mail.hq.nasa.gov  
Date: Wed, 05 Feb 2003 18:29:25 -0500  
To: djames@mail.arc.nasa.gov, cam.martin@dfrc.nasa.gov,  
John.Halsema@ksc.nasa.gov, Ronald.Alexander@lerc.nasa.gov,  
Linda.Slade@ssc.nasa.gov, Mark.S.Hess@nasa.gov,  
Sharman.Hendrick@msfc.nasa.gov, Terence.A.Pagaduan@nasa.gov,  
hmalecki@ems.jsc.nasa.gov, susan.h.garman1@jsc.nasa.gov,  
M.P.Finneran@larc.nasa.gov, tracy.lamm@msfc.nasa.gov,  
Patty.M.Rhee@jpl.nasa.gov, peggy.wooten1@jsc.nasa.gov,  
Celene.Morgan-1@ksc.nasa.gov, Joel.Wells-1@ksc.nasa.gov,  
dmorse@mail.arc.nasa.gov, A.Z.Parker@larc.nasa.gov,  
Jan.Ruff@gsfc.nasa.gov, julianna.potter-1@nasa.gov,  
kendra.e.perkins@nasa.gov, Andrea.Falk@hq.nasa.gov,  
Omega.Jones@hq.nasa.gov, Bob.Stephens@hq.nasa.gov,  
Dave.Sudduth@hq.nasa.gov, Lynn.Cline@hq.nasa.gov,  
Maria.Bayon@hq.nasa.gov, Ralph.Thomas@hq.nasa.gov,  
Thelma.Johnson@hq.nasa.gov, Tawana.Clary@hq.nasa.gov,  
Dan.Woods@hq.nasa.gov, Ruth.Netting@hq.nasa.gov,  
Frank.LaRocca@hq.nasa.gov, Lyn.Cywanowicz@hq.nasa.gov,  
scurley@hq.nasa.gov, Carol.Saric@hq.nasa.gov,  
Alma.Anderson@hq.nasa.gov, Paul.Shawcross@hq.nasa.gov,  
Barbara.Adde@hq.nasa.gov, Sarah.Keegan@hq.nasa.gov,  
Sharon.Chambers@hq.nasa.gov, Bonnie.Cleary@hq.nasa.gov,  
Gail.Gabourel@hq.nasa.gov, Jim.Lloyd@hq.nasa.gov,  
Sherri.McGee@hq.nasa.gov

From: Helen Rothman <hrothman@hq.nasa.gov>  
Subject: Fwd: From Congressional Record

FYI

CONGRESSIONAL RECORD  
HOUSE  
PAGE H269  
Feb. 4, 2003

PRAYER

The Chaplain, the Reverend Daniel P. Coughlin, offered the following prayer:

Lord God, Creator of the Universe and redeemer of all in the human family, this strong and determined Nation stands before You today with heavy hearts and heads bowed in prayer.

SG-180



To: feedback+site@larc.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia Questions/Comments  
Cc:  
Bcc:  
X-Attachments:

---

Please do not respond to any of the Columbia tragedy questions/comments that we are receiving through the Langley Feedback Form via Langley's Public web site. Langley's Office of External Affairs is working with NASA HQ on this issue and will respond to all requests received based on the guidance received from HQs.

Thanks,

Cheryl

To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Fwd: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107  
Cc: r.d.allen@larc.nasa.gov  
Bcc:  
X-Attachments:

Hi Lynn,

We will make sure we send them through the proper channels.

Thanks,

Cheryl

Bob and Cheryl:

Per Mike's email, we are referring the three inquiries (file attached) to you concerning the Columbia event. In each case, they have been told by our help desk that we were referring their comments to the appropriate NASA organization.

Thanks for the help.

Regards,

Lynn Heimerl  
STI Program Office

-----  
X-Sender: m.p.finneran@pop.larc.nasa.gov  
Date: Mon, 3 Feb 2003 14:03:41 -0500  
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107  
Cc: k.r.creteur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,  
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

-----

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

X-Sender: n.l.heimerl@pop.larc.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2  
Date: Mon, 03 Feb 2003 09:33:32 -0500  
To: [REDACTED]  
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
Subject: Re: Space Shuttle Columbia - Mission STS-107  
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl  
Technical Publications Manager  
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because if was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

--

Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

Attachment converted: Macintosh HD:Columbia.inquiries.doc (WDBN/MSWD) (00005375)

To: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107  
Cc: r.d.allen@larc.nasa.gov  
Bcc:

X-Attachments:

---

Mike,

Are we to hold the questions for a certain amount of time or go ahead and forward them to Evelyn as they come in? I have collected 11 of them so far. All of them are technical advice or questions.

I assume it will be OK for us to respond to the requester that we have forwarded their inquiry to the appropriate office.

Cheryl

*Dup.* | Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

To: r.d.allen@larc.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Fwd: My condolence to the families of the Columbia Shuttle  
Cc:  
Bcc:  
X-Attachments:

Bob,

You can go ahead and respond to this one since it is a condolence and not a technical question/comment. You are so good at wording other responses to LaRC Feedback that I'm sure you will come up with an appropriate thank you for condolences.

Thanks,

Cheryl

From: [REDACTED]  
To: <feedback+admin@larc.nasa.gov>  
Subject: My condolence to the families of the Columbia Shuttle  
Date: Mon, 3 Feb 2003 20:44:51 -0000  
X-Priority: 3

Hi

I wish to express my condolences and deepest sympathy to all the families of the Pilot's on board the Columbia Shuttle Space Craft. I have followed your progress for many years and of course I have visited your site in Florida and have always been in "awe" at the size of everything there it is truly amazing? But this time there has been a tragic accident and those very brave people risk their lives so that you can continue to explore outer space I hope that you all will continue to do so i follow your progress on my computer here in Ireland all the time.

"by "for now  
my  
deepest sympathies to them and may they rest in peace.

Yours truly

[REDACTED]

To: Chris Rink <c.p.rink@larc.nasa.gov>  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Fwd: Send inquiries re: Space Shuttle Columbia - Mission STS-107  
Cc:  
Bcc:  
X-Attachments:

Will do! CC

Hi Cheryl,

Please forward the written response. Thanks.

Chris

X-Sender: k.r.credeur@express.larc.nasa.gov  
Date: Mon, 3 Feb 2003 15:50:37 -0500  
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,  
;;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,  
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,  
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,  
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,  
M.M.SKORA@larc.nasa.gov  
From: Karen Credeur <k.r.credeur@larc.nasa.gov>  
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ. Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500  
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>  
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>  
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107  
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,  
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the

*dup*

appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

-----

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

Date: Mon, 03 Feb 2003 09:33

To: [REDACTED]

From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>

Subject: Re: Space Shuttle Columbia - Mission STS-107

Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl

Technical Publications Manager

NASA Scientific and Technical Information Program



At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[Redacted signature]

--  
Michael Finneran  
Head, Office of External Affairs  
NASA Langley Research Center  
Mail Stop 115  
Hampton, Va. 23681

(757) 864-6124 / fax 6333  
Cell phone: (757) 344-4611

<http://www.larc.nasa.gov>

\*\*\*\*\*

Karen R. Credeur, Ph.D.  
Head, Office of Public Services  
Dep. Head, Office of External Affairs  
M.S. 154, NASA  
Langley Research Center  
Hampton, VA 23681-0001

Phone: 757-864-3307

Fax: 757-864-7732

E-mail: [k.r.credeur@larc.nasa.gov](mailto:k.r.credeur@larc.nasa.gov)

\*\*\*\*\*

--  
Chris Rink  
Office of Public Affairs  
NASA Langley Research Center

Dup

Hampton, Va. 23681-2199  
(757) 864-6786 / fax -6166 / cel 344-7711 / Mail Stop 145 / Bldg. 1153  
<http://oea.larc.nasa.gov/>

To: j.g.lehman@larc.nasa.gov, h.a.hunter@larc.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia FOIA Requests  
Cc:  
Bcc:  
X-Attachments:

Joan & Harmony,

FYI!

Cheryl

X-Sender: sholger1@mail.hq.nasa.gov  
Date: Tue, 4 Feb 2003 08:16:05 -0500  
From: Sharon Holgerson <sholger1@hq.nasa.gov>  
Subject: New Requests

I was out of town when the tragedy hit on Saturday and only returned this morning so am trying to get some bearings on the whole situation and how it affects FOIA. We will be trying to set up a process here today and I will keep everyone updated on what develops and how we will proceed.

I do know that we will be processing ALL requests related to the Columbia tragedy from HQ. Please fax or forward email requests to me as you get them. Please bear with us while we sort all of this out. If you have any immediate questions, please don't hesitate to call or email me

--

Sharon Holgerson  
FOIA Officer  
Code PS  
202-358-0205

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia - Mission STS-107 Questions/Comments  
Cc: r.d.allen@larc.nasa.gov  
Bcc:

X-Attachments:

Hi Evelyn,

Mike Finneran, Head of Langley's Office of External Affairs, indicated to me that all non-media public inquiries regarding Space Shuttle Columbia - Mission STS-107 should be forwarded to your attention. I will start forwarding the messages received through Langley's public web site to you today and let the requesters know that their inquiry has been sent to the appropriate organization within NASA.

Thanks,

Cheryl Cleghorn

To: Margarette Pitts <m.pitts@larc.nasa.gov>  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re:  
Cc:  
Bcc:  
X-Attachments:

Hi Margarette,

If he calls back, you can tell him that any suggestions for correcting the shuttle problem should be sent via e-mail to ethames@mail.hq.nasa.gov and it will be forwarded to the appropriate organization within NASA. If he doesn't have e-mail I guess he could write to her at her NASA HQ mailing address.

Since he spoke with you earlier, it may be a good idea for you to call him back and give him this information.

Thanks,

Cheryl

Cheryl,  
██████████ is the name of the man that kept calling the office yesterday. He wanted someone to call him at home after 4:30 at ██████████. He wanted to talk about an idea he has for the shuttle tiles. If he calls back I will ask him to e-mail or write us a letter and if he insists on talking to someone, I will forward to you. Let me know if this is NOT ok.

marg.  
\*\*\*\*\*

Margarette Pitts  
Office of External Affairs  
Building 1219, Room 304  
Mail Stop 115  
NASA Langley Research Center  
Hampton, VA 23681-2199  
757-864-6124 - Phone  
757-864-6333 - Fax

To: [REDACTED] FOIA ex(b)(6)  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Device for impact testing of space shuttle shield  
Cc: r.d.allen@larc.nasa.gov  
Bcc:  
X-Attachments:

[REDACTED] FOIA Ex(b)(6)

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

Dear Mr. Cleghorn,

We were very shocked when we learned about the accident with the Columbia; our thoughts and prayers are with the crew members, their family, s and the American and Israeli people.

We saw the images of the impact during take-off, which can be the cause of the accident, on CNN today. According to CNN, you are focussing your attention on this impact. We know that impact testing (simulation) is very difficult and therefore we would like to offer you our help in finding the cause of the accident.

We have developed a basically very simple method which makes it possible to built an impact device for testing a part of the shield with a number of tiles (or the seam of the loading gear door) under fully realistic impact conditions; that is:

- with precise impact velocities which can be varied from less than 10 m/sec to probably well over 1000 m/sec;
- at variable impact frequencies, and,
- at variable angles of impact.

Tests can be performed with one impact but also with continuous impact. The impacting material and objects (shape of object) can be chosen with sizes up to 50 cm and more; but also fine particle impact can be tested; and simultaneously coarse and fine particles.

Very important for you is that also the temperature and other conditions can be widely varied; for example temperatures from below freezing to well over 1000/1500 degrees and even testing in flames is possible.

The method has been considered for impact testing of air plane materials, which are developed at the Technical University of Delft; unfortunately the University does not have enough funding available

yet. Based on this method of impact we have developed a new impact crusher (for stones).

When we can be of any help to you in finding the cause of the accident (and developing a safer shuttle) we would be only too happy to assist you and make our method available to NASA for building such an impact testing device. The test machine can probably be best built by you and we can provide the basics for the design. A computer simulation program is available.

Wishing you many luck with the investigations and we hope that the shuttle program will be operational again soon.

Kind regards,

[REDACTED] FOIA Ex(b)(6)

Aalbeek, Holland

Phone [REDACTED] FOIA Ex(b)(6)

Fax [REDACTED]

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Fwd: Device for impact testing of space shuttle shield  
Cc:  
Bcc:

X-Attachments:

From: [REDACTED] FOIA Ex(b)(6)  
To: C.W.CLEGHORN@larc.nasa.gov  
Date: Mon, 3 Feb 2003 20:20:09 +0100  
Subject: Device for impact testing of space shuttle shield  
Reply-to: info@synside.com  
X-Confirm-Reading-To: info@synside.com  
X-pmrqc: 1  
Priority: normal

Dear Mr. Cleghorn,

We were very shocked when we learned about the accident with the Columbia; our thoughts and prayers are with the crew members, their family,s and the American and Israeli people.

We saw the images of the impact during take-off, which can be the cause of the accident, on CNN today. According to CNN, you are focussing your attention on this impact. We know that impact testing (simulation) is very difficult and therefore we would like to offer you our help in finding the cause of the accident.

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- with precise impact velocities which can be varied from less than 10 m/sec to probably well over 1000 m/sec;
- at variable impact frequencies, and,
- at variable angles of impact.

Tests can be performed with one impact but also with continuous impact. The impacting material and objects (shape of object) can be chosen with sizes up to 50 cm and more; but also fine particle impact can be tested; and simultaneously coarse and fine particles.

Very important for you is that also the temperature and other conditions can be widely varied; for example temperatures from below freezing to well over 1000/1500 degrees and even testing in flames is possible.

The method has been considered for impact testing of air plane materials, which are developed at the Technical University of Delft; unfortunately the University does not have enough funding available yet. Based on this method of impact we have developed a new impact crusher (for stones).

When we can be of any help to you in finding the cause of the accident (and developing a safer shuttle) we would be only too

Deep.



happy to assist you and make our method available to NASA for building such an impact testing device. The test machine can probably be best built by you and we can provide the basics for the design. A computer simulation program is available.

Wishing you many luck with the investigations and we hope that the shuttle program will be operational again soon.

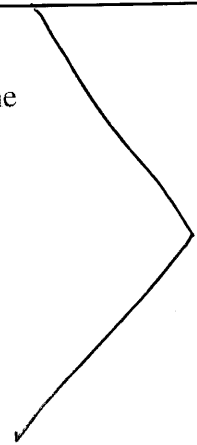
Kind regards,

[Redacted] FOIA Ex(b)(6)

Aalbeek, Holland

Phone [Redacted]  
Fax [Redacted] FOIA Ex(b)(6)

Dwp



FOIA(b)(6)

2/4/03 9:57 AM -0500, Space Shuttle Columbia - Mission

1

To: [REDACTED] FOIA(b)(6)  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia - Mission STS-107  
Cc:  
Bcc: r.d.allen@larc.nasa.gov  
X-Attachments:

Mr. [REDACTED] FOIA(b)(6)

We appreciate your interest in improving the structural integrity and impact resistance of the heat shield tiles on the Space Shuttle. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]  
Subject: Other  
EMail Address: [REDACTED] FOIA(b)(6)  
Daytime Phone: [REDACTED]  
Home Address: [REDACTED]  
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Worked as Senior engineer for NNS&DD Co. in sixties.  
I have an idea for improving the structural integrity and impact resistance of the heat shield tiles.  
Would like to discuss it with knowledgeable engineer.

-----

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia - Mission STS-107  
Cc:  
Bcc:

X-Attachments:

Date: Mon, 3 Feb 2003 13:34:56 -0500 (EST)

To: feedback+other@larc.nasa.gov

From: [REDACTED] FOIA(b)(6)

Reply-To: [REDACTED]

Subject: Langley Feedback Form

From: [REDACTED]

Subject: Other

E-Mail Address: [REDACTED] FOIA(b)(6)

Daytime Phone: [REDACTED]

Home Address: [REDACTED]

[REDACTED]

Customer has selected 'No Reply'.

Comments:

Worked as Senior engineer for NNS&DD Co. in sixties.

I have an idea for improving the structural integrity and impact resistance of the heat shield tiles.

Would like to discuss it with knowledgeable engineer.

-----  
Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)

*Duplicate*

FOIA(b)(6)

2/4/03 10:01 AM -0500, Space Shuttle Columbia - Mission ST

1

To: [redacted] FOIA(b)(6)  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia - Mission STS-107  
Cc:  
Bcc:  
X-Attachments:

Mr. [redacted] FOIA(b)(6)

We appreciate your interest in finding the cause of the Space Shuttle accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [redacted]  
Subject: Web Site Design or Navigation  
EMail Address: [redacted]

FOIA(b)(6)

Daytime Phone: [redacted]  
Home Address: [redacted]  
[redacted]

Customer has requested a Reply.

Comments:

In regard to the shuttle accident:

I saw a photo showing three separate objects which by the fact that their contrails (?) were sensibly parallel seemed to be flying formation. If an explosion had caused their initial separation, should not the trails be divergent, emanating from the point of the explosion? If so, the event that caused their separation must have occurred much farther back along the trail and the initial separation velocity must have been low. I was a NACA Nut and a NASA engineer for 30 years. I would not be able to sleep if I had not made sure that someone on the investigating team saw what I did.

The photo was published on a CNN News URL,

Sincerely,

[redacted] FOIA(b)(6)

-----  
Additional Information:

Browser: Mozilla/4.76 [en] (Windows NT 5.0; U)

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia - Mission STS-107  
Cc:  
Bcc:

X-Attachments:

Date: Mon, 3 Feb 2003 11:43:31 -0500 (EST)  
To: feedback+site@larc.nasa.gov  
From: [REDACTED]  
Reply-To: [REDACTED]  
Subject: Langley Feedback Form

From: [REDACTED]  
Subject: Web Site Design or Navigation  
EMail Address: [REDACTED]

*Withheld under FOIA exemption  
(b)(6)*

Daytime Phone: [REDACTED]  
Home Address: [REDACTED]

Customer has requested a Reply.

*Dep.*

Comments:  
In regard to the shuttle accident:  
I saw a photo showing three separate objects which by the fact that their contrails (?) were sensibly parallel seemed to be flying formation. If an explosion had caused their initial separation, should not the trails be divergent, emanating from the point of the explosion? If so, the event that caused their separation must have occurred much farther back along the trail and the initial separation velocity must have been low. I was a NACA Nut and a NASA engineer for 30 years. I would not be able to sleep if I had not made sure that someone on the investigating team saw what I did.  
The photo was published on a CNN News URL,  
Sincerely,  
Pat Gainer

-----  
Additional Information:  
Browser: Mozilla/4.76 [en] (Windows NT 5.0; U)

To: [REDACTED]  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Langley Feedback Form  
Cc:  
Bcc: r.d.allen@larc.nasa.gov  
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]  
Subject: Other  
EMail Address: [REDACTED]

*Info withheld under  
FOIA exemption (b)(6)*

Daytime Phone: [REDACTED]  
Home Address: [REDACTED]  
[REDACTED]

Customer has selected 'No Reply'.

Comments:  
Like many, I am saddened at the loss of life in the recent shuttle tragedy. My question is this: Why can we not have a reentry vehicle specifically suited? It could be carried into space or even built there. It seems as though we think that a spaceship must land like a plane. Why? If it entered the atmosphere the way it exited, it would build up less heat. All you have to do then is apply the brakes. I know that I am ignorant of space aeronautical physics, but it makes little sense to approach landing like a traditional jet. There must be a simpler way with less risk. Thank you for your attention. I know that your efforts will be rewarding.  
[REDACTED]

-----  
Additional Information:  
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia - Mission STS-107  
Cc:  
Bcc:

X-Attachments:

Date: Sat, 1 Feb 2003 22:56:12 -0500 (EST)  
To: feedback+other@larc.nasa.gov  
From: [REDACTED]  
Reply-To: [REDACTED]  
Subject: Langley Feedback Form

From: [REDACTED]  
Subject: Other  
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]  
Home Address: [REDACTED]  
[REDACTED]

*Info withheld under  
FOIA exemption (b)(6)*

Customer has selected 'No Reply'.

Comments:

Like many, I am saddened at the loss of life in the recent shuttle tragedy. My question is this: Why can we not have a reentry vehicle specifically suited? It could be carried into space or even built there. It seems as though we think that a spaceship must land like a plane. Why? If it entered the atmosphere the way it exited, it would build up less heat. All you have to do then is apply the brakes. I know that I am ignorant of space aeronautical physics, but it makes little sense to approach landing like a traditional jet. There must be a simpler way with less risk. Thank you for your attention. I know that your efforts will be rewarding.

*Dup*

-----  
Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

To: [REDACTED]  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Re: Columbia  
Cc:  
Bcc:  
X-Attachments:

Info withheld under FOIA  
exemption (b)(6)

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

It is indeed a very sad day for the families. May God bless them all. This kind of history making we can well do without.  
Is it possible that Columbia may have made contact with some object or small untracked piece of space junk? Something too small to detect. Or something lost and not reported? Something golf ball size at those speeds, wow! My mind's eye can't seem to see the damage. However, you must continue. [REDACTED]

---

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<http://join.msn.com/?page=features/junkmail>



To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Columbia - Mission STS-107  
Cc:  
Bcc:  
X-Attachments:

*Info withheld under FOIA exemption (b)(6)*

X-Originating-IP: [151.199.156.12]  
From: [REDACTED]  
To: feedback+admin@larc.nasa.gov  
Subject: Columbia  
Date: Sat, 01 Feb 2003 21:09:25 -0500  
X-OriginalArrivalTime: 02 Feb 2003 02:09:25.0952 (UTC) FILETIME=[1C417C00:01C2CA60]

*Dup*

It is indeed a very sad day for the families. May God bless them all. This kind of history making we can well do without.  
Is it possible that Columbia may have made contact with some object or small untracked piece of space junk? Something too small to detect. Or something lost and not reported? Something golf ball size at those speeds, wow! My mind's eye can't seem to see the damage. However, you must continue. [REDACTED]

Tired of spam? Get advanced junk mail protection with MSN 8.  
<http://join.msn.com/?page=features/junkmail>

To: [redacted]  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia - Mission STS-107  
Cc:  
Bcc: r.d.allen@larc.nasa.gov  
X-Attachments:

*Info withheld under  
FOIA exemption (b)(6)*

Mr. [redacted]

We appreciate your interest in finding the cause of this tragic accident. Your questions have been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[redacted signature]

*Dup*

To: ethames@mail.hq.nasa.gov  
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>  
Subject: Space Shuttle Columbia - Mission STS-107  
Cc:  
Bcc:

X-Attachments:  Columbia.inquiries.doc

---

Evelyn,

Three separate Columbia inquiries are included in the attachment.

Thanks,

Cheryl

Info Withheld under FOIA exemption (b)(6)

From: [redacted]  
To: <n.l.heimerl@larc.nasa.gov>  
Subject: columbia  
Date: Mon, 3 Feb 2003 09:02:10 -0600  
X-Mailer: Microsoft Outlook Express 6.00.2600.0000

I hope you can help me. I am very ignorant concerning all the aspects of flying in space, although I watch everything launch and landing. My question is: After whatever it was that fell from the tank, is there anyway that the people on the ground could have maybe not let the Columbia go into orbit to check this out a little more? Once the shuttle left the launching pad, was there no way Houston Control could have programed in the Computers to let it orbit the earth sesveral times before going into outer space? I know this is like being a Monday Morning QB but I would like to know. My heart goes out to all the families and they are also in my prayers. Mr. Dittimore, hope I spelled his name correctly, has done a wonderful job explaining everything. He puts all this technical terms into terms all of us can understand. Thanks for taking the time to read this. [redacted]

From: [redacted]  
To: <n.l.heimerl@larc.nasa.gov>  
Subject: Space Shuttle Columbia - Mission STS-107  
Date: Sat, 1 Feb 2003 18:55:23 -0800  
X-Mailer: Microsoft Outlook IMO, Build 9.0.6604 (9.0.2911.0)  
Importance: Normal

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because if was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link?
- 2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space?

Thank you for your comments.

[redacted]  
[redacted]

Dup

Subject: FW: re-designed heat shield idea  
Date: Mon, 3 Feb 2003 09:55:07 -0500  
Thread-Topic: re-designed heat shield idea  
Thread-Index: AcLKDrykcZtTizfHSLy53W4k/HSDPwBgrDVQAACfHkA=  
From: "helpdesk" <helpdesk@sti.nasa.gov>  
To: "Eric Vogel" <evogel@sti.nasa.gov>  
Cc: "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

-----Original Message-----

**From:** helpdesk

**Sent:** Monday, February 03, 2003 9:55 AM

**To:** [REDACTED]

**Cc:** Lynn Heimerl

**Subject:** RE: re-designed heat shield idea

*Info Withheld under  
FOIA exemption (b)(6)*

Dear [REDACTED]

Thank you for your expression of sympathy for the loss of the crew of STS-107 Columbia on Saturday. We appreciate your interest in finding the cause of accident and your suggestion for improving the Shuttle's design and will forward your communication to the appropriate NASA organization.

Sincerely,

For the NASA STI Help Desk,

Eric Vogel

ASRC Aerospace Corp.

help@sti.nasa.gov

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-----Original Message-----

**From:** [REDACTED]  
**Sent:** Saturday, February 01, 2003 11:26 AM  
**To:** helpdesk  
**Subject:** re-designed heat shield idea

Info withheld under  
FOIA exemption (b)(6)

NASA,

My dad and I have talked in the past about the problems that exist during re-entry of spacecraft into the stratosphere. Now that this tragic disaster has taken place with the shuttle today, we feel compelled to offer our simple idea that would seem to cure the 'heat shield' problems.

Our idea is to install ceramic nozzles that would simply spray a mist of water or another similar solution that would absorb all this excess heat during the re-entry.

I would be very curious and appreciative if I could get a response to this 'idea'.

With great sincerity and sorrow,

[REDACTED]