

James Lloyd, 08:19 AM 2/11/2003 -0500, Fwd: COLUMBIA ACCIDENT INVESTIGATION BOARD BR

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Tue, 11 Feb 2003 08:19:43 -0500

To: smadir@hq.nasa.gov

From: James Lloyd <jlloyd@hq.nasa.gov>

Subject: Fwd: COLUMBIA ACCIDENT INVESTIGATION BOARD BRIEFING SET

Sender: owner-smadir@lists.hq.nasa.gov

Dear SMA Director,

As indicated yesterday, the CAIB press conference will be televised today at 3 pm EST (2 pm CST and noon PST).

(Matt Landano, I think I have you now in the right time zone and longitude and not somewhere in the middle of the Atlantic Ocean!)

Date: Mon, 10 Feb 2003 16:40:50 -0500 (EST)

From: NASANews@hq.nasa.gov

Subject: COLUMBIA ACCIDENT INVESTIGATION BOARD BRIEFING SET

To: undisclosed-recipients::;

Glenn Mahone/Doc Mirelson
Headquarters, Washington
(Phone: 202/358-1600)

Feb. 10, 2003

Steve Nesbitt
Johnson Space Center, Houston
(Phone: 281/483-5111)

RELEASE: 03-063

COLUMBIA ACCIDENT INVESTIGATION BOARD BRIEFING SET

The Columbia Accident Investigation Board (CAIB) will conduct its first press conference on Tuesday, Feb. 11, at 3 p.m. EST. The press briefing is in the Teague auditorium at the Johnson Space Center, Houston.

Board Chairman, retired Navy Admiral Harold W. Gehman Jr., and other board members, will discuss their activities to date, CAIB structure, and plans for the investigation.

Other board members are: Maj. Gen. John L. Barry, director, plans and programs, Headquarters USAF Materiel Command, Wright Patterson AFB, Ohio; Brig. Gen. Duane W. Deal, commander 21st Space Wing, Peterson AFB, Colo.; James Hallock, Massachusetts Institute of Technology (Draper Lab); Maj. Gen. Kenneth W. Hess, USAF chief of safety, Washington, and commander, Air Force Safety Center, Kirtland Air Force Base, N.M.; Scott Hubbard, director NASA Ames Research Center, Calif.; Roger E. Tetrault, former chairman of McDermott International, Inc.; Rear Adm. Stephen A. Turcotte, commander, Naval Safety Center, Norfolk, Va.; and Steven Wallace, Director, FAA Office of Accident Investigation.

Theron M Bradley Jr., NASA's Chief Engineer; and Bryan D. O'Connor, NASA's Associate Administrator are providing NASA's support to the board for Safety and Mission

James Lloyd, 08:19 AM 2/11/2003 -0500, Fwd: COLUMBIA ACCIDENT INVESTIGATION BOARD BR

Assurance.

The press conference will be broadcast on NASA Television;
reporters may ask questions from selected NASA centers.

Jim

James Lloyd , "Wayne R. Frazier" <wfrazier@hq.nasa.gov>, mstama, 10:37 AM 2/4/2003 -0500, Re

To: James Lloyd <jlloyd@hq.nasa.gov>, "Wayne R. Frazier" <wfrazier@hq.nasa.gov>, mstamate@hq.nasa.gov
From: Pete Rutledge <prutledg@hq.nasa.gov>
Subject: Re: Old shuttle risk study by Pate-Cornell
Cc: jlemke@hq.nasa.gov, jlyver@hq.nasa.gov
Bcc:
Attached:

Jim,

We had already anticiapted the need for the report. Couldn't find it here. I asked Michael S. to call her. Should arrive today via FedEx. I hope our call didn't cause her to give a press conference!!

Pete

At 10:26 AM 2/4/2003 -0500, James Lloyd wrote:

I recall seeing the study and recall it being on workmanship and its relationship to goodness of tile application. The study also treats the risk in a probabilistic sense. Maybe Bill Loewy could do a search on the web if it might be available externally or on the servers if internally. I think it predates Bob Weinstock but I may be wrong unless it was worked through Vitro. I would bet it is somewhere where we might have all the supporting documents for risk assessment.

At 09:58 AM 2/4/2003 -0500, Wayne R. Frazier wrote:

Jack Mannix from legal just called me. They are looking for a 1990 study by Elizabeth Pate-Cornell at Stanford on Shuttle Risk Analysis. I think I remember Bob Weinstock working that from here out of Code Q funds. Does anyone have a copy. Apparently its getting some press.

Wayne

Wayne R. Frazier
NASA Headquarters - Code QS
Office of Safety and Mission Assurance
Washington, DC 20546-0001
Ph: 202 358-0588 Fax: 202 358-3104

"Mission success starts with safety"

Jim

Pamela Richardson, 10:24 AM 2/13/2003 -0500, POC at LaRC for Columbia information requests

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Thu, 13 Feb 2003 10:24:47 -0500

To: code-q@lists.hq.nasa.gov

From: Pamela Richardson <prichard@hq.nasa.gov>

Subject: POC at LaRC for Columbia information requests

Sender: owner-code-q@lists.hq.nasa.gov

Recently, a friend of mine from LaRC called to offer information to our Columbia efforts on research done at LaRC in the early 80s regarding on-orbit tile repair for Shuttle. With Pete's help, I was able to obtain the information and it has been provided to Mark Kowaleski and Ron Moyer. Anyone is welcome to make a copy, it is in my office.

Through the effort, I did, in my thank yous to the people at LaRC, ask if LaRC has defined a POC for Columbia information requests. Del Freeman has named Mark P. Saunders, Deputy Director, Space Access and Exploration Program Office, as that person. (m.p.saunders@larc.nasa.gov). In my communications, I indicated that if LaRC could provide such a name, I would ask all of Code Q to work through that person.

Thanks, Pam

Pamela F. Richardson
Aerospace Technology Mission Assurance Manager
Enterprise Safety and Mission Assurance Division, Code QE
Office of Safety and Mission Assurance, NASA Headquarters
300 E. Street, S. W., Washington, DC 20546
phone: 202-358-4631, fax: 202-358-2778

"The meek can *have* the Earth. The rest of us are going to the stars." --- Robert Heinlein

"We have to learn to manage information and its flow. If we don't, it will all end up in turbulence." --- RADM Grace Hopper

Vernon W Wessel, 04:12 PM 2/12/2003 -0500, GRC STS-107 Mishap Investigation Capabilities

X-Info: ODIN / NASA Glenn Research Center
X-Sender: rwwess@popserve.grc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.1.1
Date: Wed, 12 Feb 2003 16:12:35 -0500
To: prichard@hq.nasa.gov
From: Vernon W Wessel <Vernon.W.Wessel@nasa.gov>
Subject: GRC STS-107 Mishap Investigation Capabilities
Cc: prutledg@hq.nasa.gov, james.d.floyd@hq.nasa.gov, dmoore@hq.nasa.gov

Hello Pam,

Attached is the GRC STS-107 Mishap Investigation capability summary providing POCs for technical skills and facilities at GRC that could be of help during the investigation. I believe you are the supporting them being communicated to Bryan and the PBMA web site.

Thank You,
Bill

Vernon W. (Bill) Wessel
Director, Safety and Assurance Technologies Directorate

National Aeronautics and Space Administration
John H. Glenn Research Center
Mail Stop: 3-6
21000 Brookpark Road
Cleveland, Ohio 44135

Phone: (216) 433-2350
FAX: (216) 977-7005
E-Mail: Vernon.W.Wessel@grc.nasa.gov

Mission Success Starts With Safety

 capability.doc

GRC STS-107 Support Capability

Technical Skills		
Capability	Individual	Phone Number
High Temperature Materials	Hugh Gray	(216) 433-3230
Aerospace Power Research	Valerie Lyons	(216) 433-5970
Advanced Propulsion Research	Valerie Lyons	(216) 433-5970
Vehicle Health Management	John Lytle	(216) 433-3213
Instrumentation, Sensors, & Electronics	John Lytle	(216) 433-3213
Icing Research	D. R. Reddy	(216) 433-8133
Communication Technology	Dan Williams	(216) 433-3500
Combustion Technology	D. R. Reddy	(216) 433-8133
Propellant Systems Technology	D. R. Reddy	(216) 433-8133
Computational Fluid Dynamics	D. R. Reddy	(216) 433-8133
Structures	Dennis Huff	(216) 433-3913
Aircraft Operations	Bill Rieke*	(216) 433-2036
Legal Counsel	Bill Sikora*	(216) 433-2318
Space Communication Projects	Sina Javidi	(216) 433-8326
Space Transportation Projects	Scott Graham	(216) 977-7123
Space Payload Projects	Steve Simons	(216) 433-5277
Space Power Projects	Bruce Manners	(216) 433-8341
Space Propulsion Projects	Rex Delventhal	(216) 433-5608
Systems Engineering & Analysis	Daniel Gauntner	(216) 433-3254
<u>SMA Disciplines:</u>		
System Safety	Bill Schoren	(216) 433-2356
Reliability	Vince Lalli	(216) 433-2354
Quality Assurance	Tim Gaydos	(216) 433-6533
Materials & Processes	John Reagan	(216) 433-2357
Risk Assessment & Management	Frank Robinson	(216) 433-2340
Software Assurance	Cynthia Calhoun	(216) 433-6390
Probabilistic Risk Modeling	Jeff Rusick	(216) 433-5375
Accident Investigation, MORT	Manny Dominguez, CSP	(216) 433-6735
Industrial Hygiene	Mike Blotzer, CIH, CSP	(216) 433-8159
Health Physics	Chris Blasio, CHP, CIH, CSP	(216) 433-6620

* Providing Support

Engineering & Test Facilities

Engineering Flight Hardware Development Labs., John Taylor, Chief, Engineering Design Division, (216) 433-5324

Structural Dynamics – <http://www.grc.nasa.gov/WWW/Facilities/int/sdl/index.html>

EMI – <http://www.grc.nasa.gov/WWW/Facilities/int/emi/index.html>

Acoustics – <http://www.grc.nasa.gov/WWW/Facilities/int/atl/index.html>

Microgravity Emissions – <http://www.grc.nasa.gov/WWW/Facilities/int/mel/index.html>

Structures – <http://www.grc.nasa.gov/WWW/Facilities/int/ssl/index.html>

Ballistic Testing/Analysis Lab., Dennis Huff, Structures and Acoustics Division,
(216) 433-3913, Impact Lab. – <http://ballistics.grc.nasa.gov>

Software Engineering Labs., Sasi Pillay, Chief, Information Systems Division,
(216) 433-9300

Aeronautics Labs., Tunnels and Propulsion Cells, Jeff Haas, Chief, Research Testing Division, (216) 433-5718

Icing Research Tunnel, Tom Bond, Chief, Icing Branch, (216) 433-3900

Materials & Structures Research Labs., Materials Burner Rig, & High Temperature Composites Lab., Hugh Gray, Chief, Materials Division, (216) 433-3680

GRC Satellite Mobile Communication Testbed Truck, Greg Follen, Computing & Interdisciplinary System Office (216) 433-5193 (provides mobile high speed internet service)