

**AIAA Microgravity and Space Processes Technical Committee Meeting Minutes**

**April 30, 2003**

**Welcome and Introductions**

Michael Doherty, MSPTC Chairperson welcomed everyone to the telecon. There were no guests in attendance. Mike D. announced that he was reviewing an application for a new member to the TC – Bill Carswell from the University of Alabama. See attachment 1 for the agenda.

Mike has decided not to have a face-to-face TC meeting until Reno 2004. The next telecon meeting will be in early August.

See attachment 2 for list of attendees.

**Review of Old Action Items**

Brian Motil reviewed the status of open action items from the January 7, 2003 Reno meeting. The table below summarizes the review.

<b>Action Item</b>	<b>Description</b>	<b>Actionee</b>	<b>Status</b>	<b>PTOC</b>	<b>O/C</b>
<b><i>Action Items Prior to Jan 2003</i></b>					
1/09.05.01	Contact GRC legal counsel and exact a once-and-for-all ruling on federal employee participation in CVD and formal letter writing activities that would serve as a guideline to government employee committee members in the future.	Sacksteder	GRC legal will update final memo for NASA. K. Sacksteder will post on listserv.	<del>3/15/02</del> 01/6/02	OPEN
2/07.31.02	a) Publish “biotech” article in AIAA; b) determine due dates for ISRU and summary article	Gustafson	a) Too long – working to reduce. Matt Koss has volunteered to write the summary article.	12/31/02 10/10/02	OPEN
1/10.15.02	Submit nominations to AIAA for the Space Processing Award for Reno, 2004.	All	July 1 <sup>st</sup> is official deadline – need at least 5 nominations. cc. Kurt S.	7/1/03	OPEN
<b><i>Action Items from Jan 7, 2003</i></b>					
1/01.07.03	Provide a draft proposal to NASA HQ for funding students to present papers at the Reno conference. Include a draft of the selection process.	Ram	Gene Trinh to provide \$10,000 for 10 speakers.	3/1/03	CLOSED
2/01.07.03	Contact JSC about advertising to students to present results of the KC-135 student flight program at the AIAA conference.	LaCombe	S. Collicott will work with J. LaCombe.	3/1/03	OPEN

# AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

April 30, 2003

## Subcommittee Reports

### Conferences – Ram

*Note: 2004 Reno conference was discussed during action item review.* Ram has requested and received verbal approval from Gene Trinh for \$10,000 to fund travel for 10 students for the 2004 Reno Conference. Ram will submit an application to Brad Carpenter to formalize this request. This funding may be used for either invited speakers or outreach to students. Ram has not developed the selection process yet.

Ram would like to organize an emerging science or research highlights session for Monday afternoon. An education session is also planned and will be chaired/organized by Jeff LaCombe and Steve Collicott. Steve will work with Jeff to advertise for students involved in the student KC-135 flight program to present results at this session.

Six abstracts have been received for the Reno 2004 conference. AIAA may extend the deadline. Ram will be on vacation most of June and will need support. Kurt Sacksteder will fill in to coordinate abstract reviews.

### Awards – Sacksteder

Space Processing Award - Volunteers to submit nomination packages:

- Rich Boling – submit for Paul Todd
- John Hochstein – submit for Paul Concus
- Mike Banish – submit for Bob Naumann
- Fred Kohl – submit for Don Pettit

Kurt asked for nominations for the best paper and best student presentation award from the 2003 conference. AIAA has not given the session reports to Kurt, so as an alternative Kurt is asking session chairs to please send any nominations directly to Kurt.

AI 01 – All Reno 2003 session chairs submit nominations for Best Paper and Best Student Presentation Awards to Kurt Sacksteder.

### Publications – Ram

Ram plans on continuing the newsletter this year. Approximately \$1,000 will be required to fund the printing and the TC needs to try to identify a source of funding. Comments on improving the newsletter or contributions are welcome. Ram would also like someone to compile a news round-up article similar to last year. Please consider volunteering to organize the newsletter for next year.

Ram is looking for help for the Year-In-Review article that will go in Aerospace America. This activity usually starts in July and concludes in September.

AI 02 – Volunteer needed to work with Ram to author and oversee sections of the MSPTC Yearly Newsletter. Will take over activity in 2004.

AI 03 – Volunteer needed to work with Ram to author MSPTC *Year In Review* article.

### Education and Outreach – Ostrogorsky

Catherine Casgrain has been accepted as a new member for the Education and Outreach subcommittee.

Alex Ostrogorsky requested to step down as chair and nominated Ron Schlagheck as the new chair. Motion was seconded by Ram. **MOTION PASSED.**

## AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

**April 30, 2003**

Mike D. mentioned the Dropping In a Microgravity Environment (DIME) program on going at GRC. High school students have the opportunity to conduct experiments on the GRC 2.2 second drop tower. Mike D. forwarded the website to the TC.

### Commercial Liaison– Barker

Karen provided a summary of the CVD. The thrust was that the industry needs to bring in new aerospace engineers, scientists and other engineers into the field to replace the aging space/microgravity workforce. In discussions with a staffer for the Congressman for the KSC district it was asked why he should care if the Chinese go to the moon. He mentioned that Columbia has the same story as Challenger and wondered what the impact would be to microgravity. He also stressed that we need to come up with a new portfolio for Launch Vehicles. The House Science Committee is questioning the return on science from the microgravity program compared to other science programs. Karen's impression is that Congress lacks basic information or education when making decisions. Finally, the Gehman report will be coming out in June regarding the Columbia accident and will be very unfavorable to NASA.

In general, the CVD team was very efficient and a lot of different areas were covered.

### TC Liaison – Nahra

J. Joshi (HQ) is working to drum up papers for a joint session between our TC and the Life Sciences TC for the ICES conference in 2004.

### Nomination and Election – Nahra

Henry was asked by AIAA to recommend names for new AIAA members as well as for the TC. Henry sent in 3 names. Jerry Myers (GRC) is interested in joining our TC.

### Membership – Ma

We currently have 35 members, 1 associate and 2 international. Brian M. suggested we consider sending letters to inactive members to see if they are interested in continuing membership. Mike D. will review the status of members who have not participated in the past two years. (AI 04)

### Congressional Liaison – Lupulescu

Afina submitted the full minutes for CVD to the TC website (attachment 3). Chris Shank, a staffer for the chair of the science committee, suggested that several PIs (no more than 10 or 20) meet with lawmakers. Afina will coordinate this effort.

The CVD team was asked about NASA's new leadership and generally was given positive feedback.

The activity was much better organized this year.

Larry DeLucas was suggested we have PIs write letters to congress. NIH researchers write thousands of letters to Congress for support. Fred Kohl will send Afina a list of currently funded PIs.

**AIAA Microgravity and Space Processes Technical Committee Meeting Minutes**

**April 30, 2003**

**New Action Items**

<b>Action Item</b>	<b>Description</b>	<b>Actionee</b>	<b>Status</b>	<b>PTOC</b>	<b>O/C</b>
1/04/30.03	Submit nominations for Best Paper and Best Student Presentation to K. Sacksteder.	All Reno 03 session chairs		6/1/03	OPEN
2/04/30.03	Volunteer needed to work with Ram on yearly newsletter.	All		5/30/03	OPEN
3/04/30.03	Volunteer needed to work with Ram to author MSPTC Year In Review article	All		5/30/03	OPEN
4/04/30.03	Identify members who have not attended meetings/telecons and send letters.	Motil/ Doherty		5/30/03	OPEN

Submitted by:  
Brian Motil, MSPTC Secretary

**Attachments:**

1. Agenda
2. Attendance
3. CVD Report

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

April 30, 2003

Attachment #1

AIAA Microgravity and Space Processes Technical  
Committee-MSPTC  
Agenda-April 30, 2003 Teleconference

Wednesday, April 30, 2003

Time	Activity	Participant(s)/Presenter
<b><u>Eastern Daylight Time</u></b>		
11:30-11:35a	<i>Welcome, Introduction of Guests</i>	M. Doherty/Chair
11:35-11:45	<i>Review of Old Action Items</i>	B. Motil/Secretary
11:45-12:40	<i>Subcommittee Reports</i>	
3 min	Executive	M. Banish
3 min	Awards	K. Sacksteder
3 min	Publications	B. Gustafson
3 min	Education and Outreach	A. Ostrogorsky
3 min	Commercial Liaison	K. Barker
3 min	TC Liaison	H. Nahra
3 min	Nominations and Elections	H. Nahra
3 min	Membership	N. Ma
<b>13 min</b>	<b>Congressional Liaison</b>	<b>A. Lupulescu</b>
	<b>-feedback on CVD</b>	
<b>18 min</b>	<b>Conferences and Meetings</b>	<b>Ram</b>
	<b>- Reno '04 discussion</b>	
12:40-12:50	<i>General Discussion/New Business</i>	M. Doherty
	-Future meetings/ telecons	All
	-Other	
12:50-1:00p	<i>Action Item Review</i>	Brian Motil
1:00p	<b>Adjourn</b>	

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 7, 2003

Attachment #2

Name and Affiliation	Member Since	Telecon – April 2003	Reno – Jan. 2003	Houston – Oct. 2002	Telecon – July 2002	Telecon – April 2002	Reno – Jan. 2002	KSC – Oct. 2001	Telecon – Sept. 2001	Telecon – April 2001	Reno – Jan. 2001	Telecon – Sept. 2000	Vancouver – May. 2000	Telecon – March 2000	Reno – Jan. 2000	Telecon – Sept. 1999	Cleveland – May 1999	Telecon – March 1999	Reno – Jan. 1999	Telecon – Nov. 1998	Cleveland – Aug. 1998	Washington – Mar. 1998	Reno – Jan. 1998	Madison – Aug. 1997	Wash D.C. – Mar. 1997	Reno – Jan. 1997	
Basil Antar – U. of Tenn	87				x							x				x		x	x	x				x			x
Michael Banish – U. of Alabama	99	x	x	x	x	x	x							x	x			x									
Karen Barker – Lockheed-Martin	99	x		x	x	x		x			x	x				x	x	x	x								
Richard Boling – SHOT	03	x	x																								
Catherin Casgrain - CSA	02	x		x		x																					
James Casler – Veridian	00						x	x	x	x		x															
Dave Chato – NASA GRC	99	x	x	x	x	x	x		x	x				x	x	x											
Lai-Chen Chien – Academia Sinica	94		x	x			x				x																
Steven Collicott – Purdue U.	02	x	x		x	x																					
Steve Del Basso – Boeing	01		x	x		x	x		x																		
Larry DeLucas – U. of Alabama	96	x																		x						x	x
Michael Doherty – NASA GRC	98	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x	x	x					
Edwin Ethridge – NASA MSFC	97				x					x		x							x	x					x		
Michael Fiske – Morgan Research	92							*		x				x	x	x	x	x	x				x			x	x
Richard Grugel – NASA MSFC	93			x		x				x		x				x		x		x							x
Robert Gustafson – ORBITEC	96				x	x	x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x	x	x	x
Charles Hays – JPL	03	x	x																								
John Hochstein – U. Memphis	93	x	x	x	x	x	x			x	x	x		x	x	x	x	x	x	x		x	x	x	x	x	x
Merrill King – NASA HQ	94	x		x			x				x	x		x	x	x	x	x	x	x		x	x	x	x	x	x
Fred Kohl – NASA GRC	87	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x				x	x
Mathew Koss – Holy Cross	98	x	x		x	x					x	x	x			x				x		x					

**AIAA Microgravity and Space Processes Technical Committee Meeting Minutes**

**January 7, 2003**

Name and Affiliation	Member Since	Telecon – April 2003	Reno – Jan. 2003	Houston – Oct. 2002	Telecon – July 2002	Telecon – April 2002	Reno – Jan. 2002	KSC – Oct. 2001	Telecon – Sept. 2001	Telecon – April 2001	Reno – Jan. 2001	Telecon – Sept. 2000	Vancouver – May. 2000	Telecon – March 2000	Reno – Jan. 2000	Telecon – Sept. 1999	Cleveland – May 1999	Telecon – March 1999	Reno – Jan. 1999	Telecon – Nov. 1998	Cleveland – Aug. 1998	Washington – Mar. 1998	Reno – Jan. 1998	Madison – Aug. 1997	Wash D.C. – Mar. 1997	Reno – Jan. 1997	
Jeffrey LaCombe – U. Nevada-Reno	01		x			x	x		x	x	x																
Afina Lupulescu – RPI	00	x	x	x	x	x	x	x	x			x			x												
Nancy Ma – N.C. State	02	x	x	x	x	x																					
Jeff Marchetta – U. Memphis	00		x	x		x	x				x	x			x												
Brian Motil – NASA GRC	00	x	x	x	x	x		x		x	x	x		x													
Henry K. Nahra – NASA GRC	98	x	x	x		x	x	x		x	x	x		x	x	x	x			x	x	x					
Aleksander Ostrogorsky – RPI	95	x	x		x	x	x				x			x	x					x					x		
Masood Parang – U. of Tenn.	91				x															x			x				
John Pojman – U. Southern Miss.	98						x		x	x	x	x			x	x							x				
Narayanan Ramachandran – USRA	97	x	x	x	x	x	x		x	x	x	x							x	x	x	x	x				x
Kurt Sacksteder – NASA GRC	98	x	x	x		x	x		x	x	x	x			x				x	x	x	x					
Ron Schlagheck – NASA MSFC	02		x	x	x																						
Srini Srinivas – SSSI	98			x		x			x	x										x							
Jose Torero – U. of Maryland	98									x	x	x			x	x	x			x		x	x				
Stephen Tse – Rutgers U.	01		x			x	x		x	x	x																
John Williams – Morgan Research	86															x				x							

x -> attended meeting

\* -> a representative attended meeting

**Notes:** No visitors. Removed Olav Smistad from active list per his request.

## AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 7, 2003

Attachment #3

### CVD Report

Submitted by Afina Lupulescu:

CONGRESSIONAL VISITS DAY  
Washington, April 7-8, 2003

Mike Banish, Karen Barker, and I represented the Microgravity and Space Processes AIAA/Technical Committee for the AIAA/Congressional Visits Day, held in Washington on April 7–8, 2003. On April 7th, Paul Looney from AIAA scheduled general presentations about Aerospace Industry. On April 8th, we scheduled 5 visits with Senate representatives and 6 visits with House representatives (see attached). This year, rather than going and representing our state, the CVD event was a common venture between MSPTC and Life Sciences Committee (led by William Atwell). Prior to this event, the two Committees put together a common PowerPoint document. The document addressed a few critical issues: a) workforce & education, b) research & science, c) small businesses, d) USA supremacy in Space Program. The visits were usually scheduled for 15 minutes. Typically at each meeting, Cindy Brennan (Life Sciences Committee) introduced the two Committees and presented the items discussed in the mentioned document. The other present participants contributed when it was the case. From all the appointments (see attached), the best listeners, in my opinion, were the following:

- 1) Office of John McCain, Senate R–AZ (45 minutes visit)– Ken LaSalla
- 2) Office of Sherwood Boehlert, House R–NY (50 minutes visit)–Chris Shank
- 3) Office of George Nethercutt, House R–Wash (30 minutes visit)–Rob Neal
- 4) Office of George Allen, Senate R–VA (15 minutes)–Frank Chavelier

A few very strong points came across:

- 1) NASA should regain trust of its Scientific Community (Principal Investigators)
- 2) NASA should receive increased budget in order to continue the Space Program. However, the PIs must be guaranteed that their Science will take place on ISS.
- 3) NASA should be very careful with a proper distribution of the received money. We lobbied for an increased NASA budget despite Columbia's disaster, making the following point: good and strong science aboard was performed on Columbia prior to its disaster.
- 4) The representatives were not aware that out of NASA projects a lot of students received their degrees, and a lot of scientific papers were published.
- 5) NGO issue was also discussed.
- 6) We were asked about the new NASA leadership.
- 7) We pointed out the published reports regarding Aerospace Industry, ISS (Walker Commission report, NRC reports, REMAP, etc.)