

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

Welcome and Introductions

Michael Doherty, MSPTC Chairperson welcomed everyone to the meeting. The agenda was handed out (attachment #1) and the members and guests introduced themselves (attachment #2). Judith Robey attended for Merrill King, Marty Glicksman attended for Afina Lupulescu, and Brent Houchens attended for Nancy Ma.

Mike D. revived the “explosive nut” award. This award is given to the person making the most outrageous comment during the annual Reno meeting. For those who did not attend or stick around until the bitter end, you will need to read through the entire notes to see the winner of this year’s prestigious award. The award must be properly displayed and cared for by the winner throughout the year and returned to the following annual meeting (if they can get it safely through the airport).

Review of Old Action Items

A review of the old action items was led by Brian Motil. The table below summarizes the Action Item review. Action Item 2/01.06.03 was closed, but Education Subcommittee will continue to follow this up. The difficulty with bringing students to the AIAA conference is many graduate shortly after the KC-135 flights are complete and are unable to attend the conference. JSC is interested in encouraging those students that are available to participate in the Reno conference.

OPEN ACTION ITEMS (AS OF 1/5/04)

Action Item	Description	Actionee	Status	PTOC	O/C
	<i>AI Prior to August 6, 2003</i>				
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. POTC extended.	9/15/03	CLOSED
	<i>AI from August 6, 2003</i>				
1/08.06.03	Publish summary article in AIAA	Koss	Extended PTOC	3/30/04	OPEN

Subcommittee Reports

Executive and Congressional Liaison - Banish

Mike Banish combined the Executive and Congressional Liaison Reports.

Mike D. and Mike B. attended a group meeting for AIAA the night before (1/4). They discussed a strategic plan for AIAA. This plan will involve AIAA extending its outreach activities. Our TC should continue working with JSC regarding the KC-135 student flight program.

Mike D. reviewed discussions with AIAA regarding the public policy. Our TC does not always have its issues correctly represented and we should try to develop a position paper specifically related to human presence in space. This topic was discussed in much more detail at the end of the TC meeting.

There was a follow up meeting in November for Congressional Visit Day. This was a smaller group than in the Spring. Discussions were held with Congressional Staffers associated with the Appropriations or on House or Science Subcommittees. 101 Congressmen signed a letter to the White House stating they would support an increased budget for NASA if it were sent to them. However, Mike B. felt that many Staffers

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

did not have good things to say about NASA. We should continue to support CVD this coming Spring and will try to combine with Life Sciences again next year.

Awards – Sacksteder

Prof. Gerard M. Faeth will receive the Space Processing Award on Tuesday. Three remaining nomination packages can be used for next year. AIAA requires a total of 5 packages be considered, so at least two slots are available for nominations. See Kurt S. if you have anyone in mind.

Last year, only three “Best Paper Award” nominations were submitted (all from Kurt’s session). Kurt would like all nominations to be submitted before the session Chairs leave Reno.

Publications – Gustafson

The newsletter article is out (thanks to Ram). Matt Koss will write a summary article.

Education and Outreach – Schlagheck

The subcommittee will meet later in the week to discuss student projects that have a broad appeal (i.e., more than one or two cities). They would like to introduce a “0-g” graduate class proposed by Dan Woodard. They also are developing a server to store presentations and other outreach material.

Conference and Meetings – Doherty (for Ram)

70 Papers have been submitted to the nine MSSP sessions. All are full sessions. Kurt S. will be the next MSSPTC Chair.

Congressional Liaison– Banish

See Executive Report.

Commercial Liaison – Barker

Karen is trying to form relationships between NASA and other organizations with DARPA. Fred Kohl will investigate with Karen the potential for NASA to meet with DARPA. They are looking for low TRL projects. Email Karen if you have questions.

TC Liaison – Nahra

Henry Nahra is still trying to organize a session with Life Sciences at the ICES conference in July, but only has 2 papers (need 6-8). This may turn into a Plenary Session.

Nominations and Elections – Nahra

Need to nominate a **Vice Chair** for next year – must be in place by May, 2004. Also need a **Secretary** and **Publications Subcommittee Chair**. Please submit self-nominations to Henry N. before the next telecon. Henry will send an email to the TC requesting nominations.

Membership – Doherty

We currently have 39 members, which includes 3 internationals and 9 alumni. Mike D. will start to enforce a rule that if you miss TC meetings and telecons for a full year, you will be contacted and asked if you want to remain on the MSSPTC. You will then be given 6 months to start attending or you will be removed. See attachment #2 for your status. Mike is doing this because there are other people interested in joining our TC.

Narayanan Ramachandran will be leaving the TC.

New Business

The “Best Paper Award” was presented to Uday Hedge from NCMR/GRC for the paper, “Recent Advances in Electric Field Effects on Diffusion Flames in a Spherically Symmetric System.”

A lengthy discussion followed regarding a position paper on human tended space experiments (versus funding for robotic missions). Matt Koss was to be tied in via telecon for this essential discussion, but we

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

were unable to make the connection as the hotel had mishandled our request for a speakerphone. The TC will try to develop a position prior to the President's expected announcement on space exploration.

The Explosive Nut Award was given to Mike Banish for a comment during this extended debate. Mike agreed to take the "Nut" only if we didn't repeat what he said in the minutes. Take good care of the Nut, Mike.

New Action Items

Action Item	Description	Actionee	Status	PTOC	O/C
	No new action items.				

Submitted by:
Brian Motil, MSPTC Secretary

Attachments:

1. Agenda
2. Attendance

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

Attachment #1

AIAA Microgravity and Space Processes Technical
Committee-MSPTC
Agenda-January 5, 2004 Meeting

McKinley Room, Reno Hilton

Monday, January 5, 2004

Time	Activity	Participant(s)/Presenter
<u>Pacific (Local) Time</u>		
7:00-7:45p	<i>Dinner, Welcome, Introductions, & "Preliminaries"</i>	Everyone
7:45-9:15	<i>Initiate Telecon; Entertain Special Topic-Human Enabled/ Tended Space Research</i>	K.Sacksteder/ M. Koss
9:15-9:30	<i>Awards – Presentation of Best Paper Award and Best Student Presentation Award</i>	K. Sacksteder
9:30-9:35	<i>Review of Old Action Items</i>	B. Motil
9:35-10:05	<i>Subcommittee Reports</i>	
5 min	Executive	M. Banish
3 min	Awards	K. Sacksteder
3 min	Publications	B. Gustafson
3 min	Education and Outreach	R. Schlagheck
3 min	Conferences and Meetings	Ram
3 min	Congressional Liaison	A. Lupulescu
3 min	Commercial Liaison	K. Barker
3 min	TC Liaison	H. Nahra
3 min	Nominations and Elections (& open positions)	H. Nahra
1 min	Membership	N. Ma
10:05-10:10	<i>Action Item Review</i>	
10:10-10:15	<i>Bestowal of the Explosive Nut Award</i>	
10:15p	<i>Adjourn</i>	

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

Attachment #2

Name and Affiliation	Member Since	<i>Reno – Jan. 2004</i>	<i>Telecon – Nov. 2003</i>	<i>Telecon – Aug. 2003</i>	<i>Telecon – April 2003</i>	<i>Reno – Jan. 2003</i>	<i>Houston – Oct. 2002</i>	<i>Telecon – July 2002</i>	<i>Telecon – April 2002</i>	<i>Reno – Jan. 2002</i>	<i>KSC – Oct. 2001</i>	<i>Telecon – Sept. 2001</i>	<i>Telecon – April 2001</i>	<i>Reno – Jan. 2001</i>	<i>Telecon – Sept. 2000</i>	<i>Vancouver – May. 2000</i>	<i>Telecon – March 2000</i>	<i>Reno – Jan. 2000</i>	<i>Telecon – Sept. 1999</i>	<i>Cleveland – May 1999</i>	<i>Telecon – March 1999</i>	<i>Reno – Jan. 1999</i>
Basil Antar – U. of Tenn	87		x					x							x				x		x	x
Michael Banish – U. of Alabama	99	x	x	x	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	x	x	x
Richard Boling – SHOT	03	x	x		x	x																
Bill Carswell – U. of Alabama	03																					
Catherin Casgrain - CSA	02	x	x	x	x		x		x													
James Casler – Veridian	00									x	x	x	x		x				x			
Dave Chato – NASA GRC	99	x		x	x	x	x	x	x	x		x	x				x	x	x			
Lai-Chen Chien – Academia Sinica	94	x				x	x			x				x				x				
Steven Collicott – Purdue U.	02	x		x	x	x		x	x													
Steve Del Basso – Boeing	01					x	x		x	x		x										
Larry DeLucas – U. of Alabama	96				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
Michael Fiske – Morgan Research	92			x							o	x					x	x	x	x	x	x
Richard Grugel – NASA MSFC	93	x	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
Charles Hays – JPL	03	x	x		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
Merrill King – NASA HQ	94	o	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

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004

Name and Affiliation	Member Since	Reno – Jan. 2004	Telecon – Nov. 2003	Telecon – Aug. 2003	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	
Mathew Koss – Holy Cross	98	*	x	x	x	x		x	x					x	x	x			x				x
Jeffrey LaCombe – U. Nevada-Reno	01	x		x		x			x	x		x	x	x									
Afina Lupulescu – RPI	00	o	x		x	x	x	x	x	x	x	x			x				x				
Nancy Ma – N.C. State	02	o		x	x	x	x	x	x														
Jeff Marchetta – U. Memphis	00	x	x	x		x	x		x	x				x	x				x				
Brian Motil – NASA GRC	00	x	x		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	
Masood Parang – U. of Tenn.	91							x															x
John Pojman – U. Southern Miss.	98	x	x	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
Kurt Sacksteder – NASA GRC	98	x	x	x	x	x	x		x	x		x	x	x	x				x			x	x
Ron Schlagheck – NASA MSFC	02	x	x	o	x	x	x	x															
Srini Srinivas – SSSI	98						x		x			x	x										
Liz Stagg – Teledyne Brown	03	x	x	x																			
Jose Torero – U. of Maryland	98												x	x	x				x	x	x		x
Stephen Tse – Rutgers U.	01	x				x			x	x		x	x	x									
John Williams – Morgan Research	86																			x		x	

x -> attended meeting o -> a representative attended meeting * -> was to be tied in via telecon (credited with attending meeting)

Guests: Amanda Winter, U. of Memphis; Ben Simmons, U. of Memphis; Brent Houchens, U. of Illinois; Mo Kassimi, NCMR/GRC; Uday Hegde, NCMR/GRC; Angel Abbud-Madrid, Col. Sch. of Mines; Ann Over, NASA/GRC; Paul Ronney, USC; Mark Weislogel, Portland State U.; Yongkang Chen, Portland State U.; Craig Williams, NASA/GRC; Gerald Pitalo, General Dynamics; Marty Glicksman, RPI; Judith Robey, NASA/HQ; David Urban, NASA/GRC; Paul Todd, SHOT; Antony Jeevaragan, NASA/JSC; Don Pettit, NASA; Richard Mains, Mains Assoc.

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

January 5, 2004