

AIAA Microgravity and Space Processes Technical Committee Meeting Minutes

November 19, 2003

Welcome and Introductions

Michael Doherty, MSPTC Chairperson welcomed everyone to the telecon. There were no guests in attendance.

See attachment 2 for list of attendees.

Review of Old Action Items

The table below summarizes the Action Item review.

OPEN ACTION ITEMS (AS OF 11/14/03)

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.	3/1/03 9/15/03	OPEN
1/04/30.03	Submit nominations for Best Paper and Best Student Presentation to K. Sacksteder.	All Reno 03 session chairs	Kurt will contact session chairs.	6/1/03 8/30/03	CLOSED
<i>AI from August 6, 2003</i>					
1/08.06.03	Publish summary article in AIAA	Koss	Extended PTOC	3/30/04	OPEN
2/08.06.03	Review 8/6/03 email message from the Chair on considerations related to a public statement by the TC in support of human enabled space research and provide comments.	All		8/14/03	CLOSED

Subcommittee Reports

Executive - Banish

The Executive Subcommittee agreed to change the scheduled Reno meeting from Sunday night to Monday during lunch. They will meet at a TBD restaurant between noon and 2pm. Members include: Mike Doherty, Mike Banish, Brian Motil, Nancy Ma, Kurt Sacksteder, Bob Gustafson, Ron Schlagheck, Ram, Afina Lupulescu, Karen Barker, and Henry Nahra.

Mike B. would like to discuss subcommittee issues and concerns to try and combine and organize prior to the full TC meeting on Monday night. His hope is to keep the TC meeting better focused. Mike D. suggested the Executive Subcommittee meet twice each year (instead of only once).

Awards – Sacksteder

Kurt recently sent an email to the entire TC concerning the Space Processing Award. The award will go to Prof. Gerard M. Faeth, from the University of Michigan. He will receive the award at Reno on Tuesday.

Renaming the Space Processing Award will be considered by the AIAA during this year's meeting, so it won't be in effect until next year.

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Publications – Gustafson

The “Year In Review” article will appear in the December issue of Aerospace America. The newsletter article will be discussed by Ram later. Basil Antar asked for the final MSSP sessions to be compiled separately. Ram will send. *See report attached.*

Conference and Meetings – Ram

70 Papers have been submitted to the nine MSSP sessions. All are full sessions. Chairs will be receiving emails of appropriate forms soon so that all chairs have the necessary paperwork so they can walk away from Reno having nominated the Best Paper and Best Student Presentations for their session. All sessions will have electronic projection devices for computers. Ram would like to have a properly configured laptop for each session (AIAA will not provide computers). He would like two laptops (needs to borrow one) and asked for volunteers.

Ram has asked for time to present opening remarks during the first sessions to discuss what is happening and what we are trying to promote (approximately 5 min.).

Don Pettit will attend the conference.

Congressional Liaison– Banish

Group traveled to Washington DC to follow up on the CVD. They had discussions with various staffers from both the House and Senate. The evolving message was that NASA needs to finish Space Station before moving on to other things. The group was received politely but it was a semi-neutral response. They talked to staffers from Nevada, Pennsylvania, Michigan, Alabama and others. A staffer of the Appropriations Committee mentioned that they frequently get the “run around” from NASA and do not get information requested. Mike B. felt this was very disturbing. Also there was some discussion that more articles need to be written, etc. If a congressman wants to hear about science in space, they are not sure who to call – Mike B. would like to discuss this further at Reno.

Karen B. mentioned she talked with Allen Lee (GAO head of Science and Technology). He feels that NASA has lost credibility over the ISS because of cost growth and is now trying to too hard to regain it. It was agreed to discuss how to deal with or improve the perception of microgravity processes in general at the Reno conference. Mike D. will include on the agenda.

CVD day for 2004 will be April 21st and will probably conflict with another conference.

The Free Flyer conference to be held December 2, 2003 was mentioned. Mike B. asked who was attending. Several TC members were going. NASA GRC MSD was planning on sending several managers.

Commercial Liaison – Barker

Karen is now working with DARPA (no longer involved in commercial). She gave a background of DARPA. They were started by NACA in 1958 and their goal is to develop small/flexible advanced technology. They are appropriated funds that do not require an identification regarding the planned use of these funds. They have substantial autonomy and freedom from bureaucratic controls and are willing to accept failure (i.e., the invest heavily in high-risk research). They rotate personnel on a 3-5 year basis. The scientists at DARPA would like to fill in technology gaps that are not funded by other agencies. There is a presolicitation notice at DARPA.MIL: BAA 03-24 called INSPACE that may be of interest to us. They fund “seedling” programs only (not existing programs). Email Karen if you have questions.

TC Liaison – Nahra

Henry tried to organize a session with Life Sciences at the ICES conference in July, but did not get any papers. May turn into a Plenary Session – Henry will follow up.

Nominations and Elections – Nahra

Need to nominate a Vice Chair for next year – must be in place by May, 2004.

Membership – Doherty

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We currently have 39 members, which includes 2 internationals. Mike will check meeting attendance and try to reduce number to 35 (internationals do not count).

Education and Outreach – Schlagheck

The subcommittee had a planning meeting in July. They will pursue setting up a student contest at Universities that conduct microgravity research. They are also looking into setting up an outreach presentation database that TC members can draw from as needed. *See report attached.*

New Business

Need article on future directions in Fluid Physics. Brian M. will follow up with Bhim Singh and Fred Kohl. Mike and Ram will contact people for info for other articles and photos. Please provide any items you would like to have in the Newsletter by December 1, 2003.

Kurt S. and Matt K. have been discussing a potential white paper on human enabled/tended research which we intend to discuss at Reno. We will have a telecon capability at the conference so Matt and others can participate.

Mike D. mentioned setting up a face-to-face meeting in Toronto (conference) in May or Cleveland (fluids conference) in June. Please give Mike feedback by Reno.

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
3. Subcommittee Reports

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Attachment #1

**AIAA Microgravity and Space Processes Technical
Committee-MSPTC
Agenda-November 19, 2003 Teleconference**

Wednesday, November 19, 2003

Time	Activity	Participant(s)/Presenter
<u>Eastern Daylight Time</u>		
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
11:45-12:20	<i>Subcommittee Reports</i>	
3 min	Executive	M. Banish
6 min	Awards	K. Sacksteder
	-Status of Effort to Rename the Space Processing Award	
3 min	Publications	B. Gustafson
3 min	Education and Outreach	R. Schlagheck
6 min	Conferences and Meetings	Ram
6 min	Congressional Liaison	A. Lupulescu
	- 11/13/03 PI Visit to Washington DC	
3 min	Commercial Liaison	K. Barker
3 min	TC Liaison	H. Nahra
1 min	Nominations and Elections	H. Nahra
1 min	Membership	M. Doherty
12:20-12:50	<i>General Discussion/New Business</i>	M. Doherty/ All
	-Status of inputs on Year End Newsletter (Ram)	
	-Reno MSPTC meeting (Monday, 1/5/04, 6:30-?) agenda items:	
	-TC discussion; eventual position paper on value of human enabled research?	
	-Future meetings - Spacebound 2004, Toronto, Canada, May 23 to 27, 2004?	
	-Other	
12:50-1:00p	<i>Action Item Review</i>	
1:00p	<i>Adjourn</i>	

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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	
Karen Barker – Lockheed-Martin	99		x	x	x		x	x	x		x			x	x				x	x	x	x
Richard Boling – SHOT	03		x		x	x																
Bill Carswell – U. of Alabama	03																					
Catherin Casgrain - CSA	02		x	x	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	x			
Lai-Chen Chien – Academia Sinica	94					x	x			x				x				x				
Steven Collicott – Purdue U.	02			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
Edwin Ethridge – NASA MSFC	97							x				x		x					x			x
Michael Fiske – Morgan Research	92			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
Charles Hays – JPL	03		x		x	x																
John Hochstein – U. Memphis	93			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
Fred Kohl – NASA GRC	87				x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	x

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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									
Afina Lupulescu – RPI	00		x		x	x	x	x	x	x	x	x			x				x				
Nancy Ma – N.C. State	02			x	x	x	x	x	x														
Jeff Marchetta – U. Memphis	00		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						
Henry K. Nagra – NASA GRC	98		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			
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
Ron Schlagheck – NASA MSFC	02		x	*	x	x	x	x															
Srini Srinivas – SSSI	98						x		x			x	x										
Liz Stagg – Teledyne Brown	03		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									
John Williams – Morgan Research	86																		x			x	

x -> attended meeting

* -> a representative attended meeting

Notes: Liz Stagg and Bill Carswell added to list (new members).

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Subcommittee Reports:

Publications (submitted by R. Gustafson):

1. The 2nd annual MSPTC Newsletter is being finalized by Ram and Mike Doherty.
2. The MSPTC "Year in Review" article for Aerospace America will appear in the December issue.
3. Matthew Koss is developing a microgravity science review article that will be submitted to Aerospace America. This article will conclude the series of article sponsored by the MSPTC.

Education and Outreach (submitted by R. Schlagheck)

The committee had a telecon on July 17th to propose plans and potential projects for Outreach & Education this upcoming year. The following items are being reported:

1. O&E projects should be something that can be executed in the near term term but have maximum impact to the charter of this subcommittee. Involvement by committee members for activities beyond NASA's sponsored events is resource constrained.
2. A proposal to have a student type project could be used as an example for other universities to raise the interest of Microgravity type research. This could be done as a senior type special topics class. It would need to be initiated and promoted starting with departments that have a present faculty member doing research with NASA but could be expanded out once the activity has taken root in a few the pilot universities.
3. MSPTC needs a central database and sponsor for obtaining and archiving outreach/education presentations to be used by our members for promoting the microgravity type activity. John Pojman has accepted the task to receive and store these presentations on the MSPTC server for access by our members and possibly others outside of AIAA. Future activity on defining and communicating the archiving process is being developed.

We plan to have a subcommittee meeting in Reno to formulate the remaining year's implementation.