

AIAA Microgravity and Space Processes Technical Committee

Meeting Minutes
October 14, 2001 – Cape Canaveral, FL

Welcome

The MSPTC meeting was convened by Henry Nahra at 6:30 pm EDT. Henry welcomed to the meeting the committee members listed in Attachment 1. Henry mentioned that Brian Motil has agreed to fill in as acting secretary until the elections next year.

Mike Doherty reviewed open action items from the last meeting.

- 1) Federal employee participation in Congressional Visit Day – Doherty/Sacksteder
- 2) John Marrone – possible new member, recommended to represent Canada, with Alain Berinstain leaving. He has sent a resume to Henry Nahra, but still needs to fill out AIAA membership application. Henry will follow up on status. - Nahra
- 3) All committee members need to check website and make corrections or additions to bio and add a photograph. - All
- 4) & 5) Both regarding TC Liaison Subcommittee ICES joint Microgravity/Life Science session, will discuss during subcommittee report – Doherty

Eleanor Aldrich reviewed future AIAA conferences and publications.

Sub-Committee Reports

- 1 Executive Sub-Committee – Nahra
Three year plan was submitted for full committee review and comment. Discussions were deferred to the end of the conference.
- 2 Education and Outreach – Ostrogorsky
A report was not available prior to the meeting and no subcommittee member was present. It was pointed out that this is considered an important subcommittee, yet no one has reported on activities in recent meetings. Henry Narha took the action to determine if Alex Ostrogorsky would like to continue as chair of this subcommittee. It was suggested that Jeff LaCombe may be interested.
- 3 Publications – Gustafson
REPORT IS ATTACHED. Two items were mentioned. The article “Going With the Flow: Microgravity Fluid Physics” appears in the October 2001 issue of Aerospace America. It will also be posted in on the MSPTC website, Bob took the action to post the article. The annual “Year in Review” article was submitted by Ram for publication in December, 2001. The next article in the series will be an related to ISRU and should be published in January or February of next year.

4 Membership – Linne

Dianne was not present and no report was submitted. The question was asked if the membership list on the website was current. Brian Motil and Henry Nahra accepted the action to check and update if necessary.

Mike Doherty suggested that now may be a good time for all subcommittee chairs to send out a letter reminding members of what their subcommittee does, what the charter is for the subcommittee, and try to determine if all subcommittee members want to continue as members. This could serve to stimulate or renew involvement in the subcommittee. Mike agreed to take the action to follow up with all the subcommittee chairs. A lengthy discussion followed on how to better motivate chairs and subcommittee members to be involved, submit timely reports, etc. It was suggested that we all think about potential ways to improve this situation.

5 Congressional Liaison – Barker (Ramos)

Karen Barker and Dianne Linne have been working on a position paper to prepare for CVD. Specifically, they have been thinking of the best way to convey our overall mission to congress and why we should receive continued support. Furthermore, we need to consider how our TC and even all of the aerospace community fits into the changes our society is undergoing after the tragic September 11th events. We need to be prepared to discuss these positions during the March CVD. In a later discussion, Karen agreed to take the action to identify key people and groups to meet with, either prior to CVD or during CVD. She will email her thoughts (or a position paper).

6 TC Liaison – Doherty

REPORT IS ATTACHED. Mike Doherty has been working with the vice-chair of the AIAA Life Sciences and Systems TC, Cindy Martin-Brennan to jointly organize a session for the 32nd ICES. A call for papers has been issued.

7 Commercial – Barker (Ramos)

No report.

8 Awards – Kohl

No report was submitted and Fred Kohl was not available to discuss committee activities. Mike Doherty was asked by Kurt Sacksteder to mention that Bill Masica has been recommended for the Space Processing Award. Kurt would like a more formal procedure to nominate candidates in the future and will discuss at the Reno meeting.

9 Nominations and elections – Gustafson

Two positions need to be filled by May, 2002. Vice-chair and secretary, both 2-year terms. We will discuss during the Reno meeting and then we will conduct an election.

10 Conferences and Meetings – Nahra

The status of the Reno conference was reviewed. We will have very diverse sessions. Over 100 papers will be submitted, with many students presenting. Everything is in great shape.

New Business

General Discussion on the Three-Year Plan

The three-year plan was submitted by Henry Nahra for discussion (Attached). Bob Gustafson suggested the Education and Outreach section was very minimal and should contain much more. Ole Smistad commented that the entire plan seems very static. There is not much change from year to year. The TC should, for example, take part in ISS utilization or recommending microgravity activities. This could be a goal and then reflected in the activities. He also suggested we formulate a vision and then this should be reflected in the activities.

The meeting adjourned at 8:45pm.

New Action Items

AI-1/10.14.01/HKN, PTOC-12/31/01 Henry Nahra took the action to determine if Alex Ostrogorsky would like to continue as chair of Education and Outreach subcommittee.

AI-2/10.14.01/HKN&BJM, PTOC-12/31/01 Henry Nahra and Brian Motil will update all membership lists.

AI-3/10.14.01/MPD, PTOC-12/31/01 Mike Doherty took the action to request that all subcommittee chairs pulse members to confirm they want to continue on subcommittee and review goals of each subcommittee.

AI-4/10.14.01/KB, PTOC-12/31/01 Karen Barker took the action to identify people or groups to target during CVD. She will also Email thoughts on a position paper.

AI-5/10.14.01/RG, PTOC-12/31/01 Bob Gustafson took the action to put article "Going With the Flow: Microgravity Fluid Physics" on website.

Future meetings

Reno – Monday, January 14, 2002.

Submitted by:

Brian Motil, acting MSPTC secretary

Attachments:

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- (1) Attendance List
 - (2) Agenda
 - (3) MSPTC Three-Year Plan
 - (4) Publications Subcommittee Report
 - (5) TC Liason Subcommittee Report

AIAA Microgravity and Space Processes Technical Committee Meeting Agenda

October 14, 2001
Bermuda Room
Radisson Hotel, Cape Canaveral, FL

Sunday, October 14, 2001

Time	Participant(s)/Presenter	Activity
6:00-6:40	Dinner, welcome, Introduction	Everyone-Bon appetit/Nahra
6:40-6:50	New/future AIAA Conferences	Eleanor Aldrich
6:50-7:20	<i>Subcommittee Reports</i>	
3 min	Executive Committee	Nahra
3 min	Education and Outreach	Ostrogorsky
3 min	Publication	Gustafson
3 min	Membership	Linne
3 min	Congressional Liaison	Ramos/Fisk
3 min	TC Liaison	Doherty
3 min	Commercial	Ramos
3 min	Awards	Kohl
3 min	Nomination and Election	Gustafson
3 min	Conferences and Meetings	Nahra/Lupulescu/Chato
7:20-8:20	General Discussion on: Three-Year-Plan	All
8:20-8:40	Action Item Review	Volunteer/Nahra
8:40	Adjourn	

AIAA-MSPTC Executive/Steering Subcommittee Teleconference Outcome

Purpose

The purpose of the teleconference held on July 25, 01, was to reactivate the role of the steering subcommittee which has been absent for a while. The Executive/Steering subcommittee is chaired by the vice chair and attended by the standing subcommittees chairs.

Role of the Executive Subcommittee (AIAA Chair Training class)

1. Develop the overall plan for the activities of the MSPTC
2. Provides the TC chair with a committee to work ad-hoc items
3. Develop an annual report and three-year plan for TC activities
4. Develop issues the committee should be working on
5. Work on issues between TC meetings as required

Outcomes from Telecon

We come up with a plan addressing items 1 and 3 and present such a plan at the general meeting to be held in Florida or the Reno meeting.

Attachment 4 - Publications Report

Publications Subcommittee Report

Activities since the last teleconference:

1) The annual MSPTC "Year in Review" article was submitted for publication in the December 2001 Aerospace America issue. I would like to thank Ram for writing the article this year.

2) The latest article in the MSPTC series (Microgravity Fluid Physics) appears in the October 2001 issue of Aerospace America. The article is entitled "Going with the flow: Microgravity fluid physics." I would like to thank Bhim Singh, Fred Kohl and Iwan Alexander for writing this article. The ISRU article will be the next article in the series. It should be submitted for publication within the next few weeks.

Bob Gustafson
Chair, MSPTC Publication Subcommittee

Attachment 5 - TC Liason Report

TC Liason Subcommittee Report

Summary of activities of the Microgravity and Space Processes Technical Committee's TC Liason Subcommittee since the 9/5/01 full committee telecon:

Mike Doherty and Cindy Martin-Brennan, Vice Chair of the AIAA Life Sciences and Systems TC, have issued a call for papers for a jointly organized session, Applications of Fluid Physics to Life Support Systems, for the 32nd International Conference on Environmental Systems (ICES), to be held at the Adam's Mark San Antonio, San Antonio, Texas, USA, on July 15-18, 2002. The proposed session aims to address issues and recent developments related to managing fluids in life support systems (e.g., multi-phase flow in the plant root zone, diffusion of oxygen through liquid, packed bed/membrane flow characteristics). This call for papers has gone out to researchers in both the fluid physics and life sciences spheres. The deadline for submitting abstracts is fast approaching - 19 October 2001.

Mike Doherty