

AIAA Aerodynamic Decelerator Systems Technical Committee Meeting

18 January 2005

Adam's Mark Hotel, Jacksonville, FL

INTRODUCTION

A meeting of the AIAA ADS TC was convened at 0830 in the Orlando Room of the Adam's Mark Hotel in Jacksonville, FL. The ADS Technical Committee was invited to conduct their quarterly meeting at the same hotel location hosting the PIA Industry Conference and Product Show. Those in attendance are listed in the following table:

<u>NAME</u>	<u>AFFILIATION</u>
1. Michael Accorsi - Chairman	University of Connecticut
2. Miguel A. Lopez	AFFTC
3. Ken Desabrais	US Army RDECOM, Natick
4. Rick Howard	US Army Yuma Proving Ground
5. Tim Lott	Textron Systems
6. Storm Dunker	Paraflyte
7. Tim Smith	ILC, Dover
8. Rob Sinclair	Irvin Aerospace
9. Dean Wolf	Consultant
10. Ed Doucette	US Army RDECOM, Natick
11. John Watkins	Pioneer Aerospace Corp.
12. Maurice P. Gionfriddo	MPG Consultants
13. Sean George	Charles Stark Draper Laboratory
14. Dave Rubenstein	Consultant
15. Dean Jorgensen	Vertigo
16. Jean Potvin	St. Louis University
17. Richard Benny - Treasurer	U.S. Army RDECOM, Natick
18. Thomas Jann	DLR Institute of Flight Systems
19. Erich Knausenberger	AIAA Conference Administration

Mike Accorsi, Chairman, called the meeting to order at 0830. The order of business included addressing the topics noted in the formal agenda distributed several days earlier. The order of address was altered to accommodate schedule issues for those individuals who had to leave early. Recording secretary for the meeting was Tim Lott. Minutes summarizing each of those agenda items are provided herein.

GENERAL

- Minutes from the previous meeting were not presented, or approved.
- New TC Members were introduced to the main body. These individuals are: John Watkins and Storm Duncan.

TREASURERS REPORT

Rich Benney presented the TC Treasury balance status as of 18 January 2005 of \$55,417.55. The recent short course conducted at YPG, AZ netted an unexpected \$40,000 accounting for the large treasury balance.

ADS SEMINAR

Dean Jorgensen provided a summary status of the ADS Seminar. The topic is: The Application of Systems Engineering Process to Aerodynamic Decelerator Systems. The seminar is intended to provide engineering program managers a better understanding of systems engineering best practices in the development of aerodynamic decelerators. The endeavor is to aid practitioners in reducing development cycle-time while ensuring the design incorporates the necessary performance characteristics and is responsive to all mandated requirements. Presentation of computer aided systems engineering tools will be presented as well as several applicable case studies. Dean insured the TC that the seminar was in 'good hands' and would deliver as advertised. A recent e-mail from Steve stated that preparation is going well with 4 of 7 presentation slots firm. Prof Heinz Stoeber, President of INCOSE, will give the keynote address.

ADS Conference

Tim Lott, 18 ADS Conference Chairman, introduced the status of the 18th AIAA ADS Conference to be held in Munich, Germany 23 – 26 May 2005 at the Munich Hilton Hotel. Tim Lott provided a summary of the planning status for the conference followed by comments from Ken Desabrais regarding the technical program. Overall the conference program is planned and in place.



- **The seminar** will be conducted on Monday 23 May. Steve Lingard is working to firm-up the details. The seminar details need to go onto the AIAA conference site ASAP.
- **The main technical conference** will be conducted 24 – 26 May and is fully planned and in-place. Kudos' to Ken and Paul for expediting the technical program planning process and establishing the full conference agenda on the AIAA web site per the planned schedule. Conference registration is now open on the AIAA conference web site. There are a total of 84 planned papers to be presented over the three-day period plus a significant backlog of additional papers to allow for 'drop-outs' between now and the conference. Triple sessions are planned for Wednesday, 25 May, to accommodate the planned 43 presentations. Some papers will be selected as candidates for inclusion in a special parachute section of the *AIAA Journal of Aircraft*. These will be papers that cover a broad range of topics, which are currently of interest to the parachute community and whose authors, the committee feels, would be responsive and put together a paper capable of withstanding peer-review scrutiny.
- **The Industry Reception** will occur Tuesday Evening: 24 May at the Unionsbräu Haidhausen, which is about 1 km from the hotel. A shuttle bus will be provided from/to the hotel. The Unionsbräu Haidhausen is a traditional Bavarian beer brewery with a restaurant, beer garden and brewery cellar (Braukeller). The web site is: (http://www.munich-info.de/restaurants/unionsbraeu/welcome_en.html). Irving Aerospace has kindly offered to sponsor the entire Industry Reception event. The TC accepted Irving's kind offer with sincere thanks.
- **The Awards Banquet** will be conducted on Wednesday Evening, 25 May at the Paulaner Brewery (<http://www.paulaner.de/>), the largest and most modern brewery in Bavaria. It is located about the same distance from the hotel as the Unionsbräu Haidhausen. A shuttle bus will be provided from/to the hotel. Detailed planning will be completed when we are closer to the event.

- **The Spouses Program** is in-place. It will consist of a Castles Tour including King Ludwig's castle Neuschwanstein near Füssen, which is a couple of hours drive from Munich.



- They will also visit the King Ludwig II castle Linderhof near Obermmergau, which is located in the same general region as Neuschwanstein.



Dean Jorgensen indicated his willingness to assist in contacting CEAS and AAAF to aid in publicizing the conference as much as possible within the UK and Europe. Mo Gionfrido indicated that he would contact Carol Bassin web site master for PIA providing a link to AIAA and the conference.

The question was put forth whether or not we wanted a "Bloop Session". The Conference Chairman and committee will decide whether or not it fits the program structure currently planned. There is concern regarding lengthening the conference beyond the last session planned for Thursday at 2:15 PM.

There was a suggestion that a Munich city tour be planned for the spouses on the first day of the conference. The conference committee stated that it seemed like a good idea and would look into the requirements for conducting such a tour.

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The technical committee chair needs to establish a list of all those who'll be bringing lap top computers, which will be required to execute the presentations. The authors should be consulted regarding detailed presentation requirements and work out any format or other presentation details prior to arriving in Germany if at all possible. The basic operating plan should be to load the presentations at the speaker's breakfast each morning. Afternoon presentations can be loaded during the lunch break.

ADS 2005 Theo Knacke Aerodynamic Decelerator Award

There are six nominees for the ADS award this year. Dean Jorgensen will be the teller receiving the votes from the membership. The voting procedure will be described in an e-mail from Dean. The candidate resumes will be included. Votes are due to Dean NLT 1 February.

Congressional Visit Day

AIAA Congressional Visit Day will be conducted 8 – 9 March 2005. PIA has decided not to take part with AIAA this year. They will be going on their own mainly to reinforce the commercial parachute industry message divorced from the AIAA message. PIA CVD will be on 6,7 April and include ten members from PIA. PIA has invited the ADS TC to their CVD.

The PIA CVD messages are:

- Save U.S. Army Natick
- Support the Barry Ammendment (law, passed by Congress, stating that any textile product procured by DoD is made in the USA (just fabrics)
- Government Contracting Practices
- Congress to nudge the FAA to approve the new parachute certification standard

CVD visitors must be able to respond to the inquiry from the Congressional Representative's staffer: "what can I do for you?" Government personnel not allowed to participate in this event on official travel. The question regarding the ADS TC message was not clear. Participants were solicited, but not defined at this time.

Short Course

Jean Potvin provided the final 2004 short Course report. The Short Course was performed at YPG, AZ during May 2004. It was an unqualified success. The course included 55 students. It was the first time this course was conducted at YPG. The Conference Center was excellent. The lectures were flawless. Overall course logistics supported by YPG was outstanding. The students were very satisfied as indicated by the post course evaluation each of them completed. Overall the event made \$40,000. for the TC as YPG didn't take what we were used to in administrative fees or profit dollars. Considering YPG as the venue for the next Short Course in 2006. There is a desire to include an engineering design problem with engineering analysis. The overall course duration of 5 days is anticipated. Maximum number of attendees of 55 works well. Scott Dellicker was very supportive as this event was also good exposure for YPG. Comments were made to include PIA and expand to international students.

WEB Page / E-Mail

Need to update for conference with link to AIAA. Web Site needs some attention. Our e-mail list includes approximately 400 names. The question was poised whether we could 'beef-up' the list. Mike Accorsi will forward his list to Rich Benney in several weeks. Will not worry about individual member bios at this time.

ADS Library

Linda Hall Library used \$5K from the ADS TC to address the Natick and German collection. They cataloged 825 items. There are 300 remaining with 105 duplicates. 200 of these items have no abstract. Karl Doherr is preparing brief abstracts for about half of these papers. Currently the Parachute Collection spans a time period of 1919 – 1995. A question was asked whether or not the Linda Hall collection would continue after they receive the Sandia collection? The point was made to publicize the availability of this collection. Also, the TC needs to provide more financial

support to Linda Hall Library to support the incorporation of the Sandia collection. A question was asked regarding the potential of cross-referencing papers in other journals? In terms of other major parachute collections, Heinrich's reports are located at University of Minnesota and Theo Knacke's are housed at China Lake.

ADS Publications

What do we want to do with the design manual? Various members have compiled a list of errors. Options include:

- Publishing errata
- Revise the Existing Work
- Re-Write a new document

Edwards AFB has been requested to write a chapter on precision air-drop for AGARD. No decision was made except to keep this item on the agenda.

Other Business

The TC chair changes in May 05. Also, this is the time to recruit new TC members.

Money

The TC currently has no policy regarding how to handle the treasury money. We need to establish some guidelines regarding how we want to spend out treasury especially since it is at an all-time high. Need to answer if TC Chair has authority to spend unilaterally, multiple signatures, or some other policy? The suggestion by Rich Benny is that 3 – 4 people on the TC should establish a structure and process. Rich and Ken will provide a background by the May Meeting.

Data Base Committee

Mo recommended that this committee be disbanded as it's work ala Linda Hall Library, etc. is complete. The TC agreed to disband this committee.

The TC meeting adjourned at approximately 1530 hours.