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AIAA Aerodynamic Decelerator Systems Technical Committee Meeting Minutes 16 October 2005 – Yuma, AZ

In attendance:

Rick Howard, TC Chair, Yuma Proving Ground
Ken Desabrais, 2007 Conference General Chair, Natick Soldier Center
Oleg Yakimenko, Naval Postgraduate School
John Watkins, 2007 Conference Technical Co-chair, Pioneer Aerospace
Rob Sinclair, 2007 Conference Technical Co-chair, Irvin Aerospace
Ken Sego, Armor Holdings A&DG
Ben Raiszadeh, NASA Langley
Storm Dunker, Paraflite
Thomas Jann, DLR, Germany
Dean Wolf, consultant
Richard Benney, ADS TC Treasurer, Natick Soldier Center
Jean Riley, AIAA, by phone
Julie Smith, AIAA, by phone

The meeting began late at 0900 due to the lack of a speakerphone at 0830. There were no minutes from the previous meeting, as Mike Accorsi claimed they were “lost in transit” from Munich. He noted they contained only last-minute items for the Munich Conference, anyway.

Richard Benney gave the Treasurer’s Report, which is attached to and made a part of these minutes. The current TC balance is \$42,174.02. Jean Riley reported on the seminar accounting. The total seminar revenue was \$7,100.00, with expenses of \$4,138.00 and a balance due back to the TC of \$2,924.00. A check will be sent from the AIAA to Richard Benney.

Richard Benney distributed a draft document for TC consideration on account investments and spending procedures. The first two items had been agreed upon before, and are as follows:

- 1) The ADS TC will maintain a minimum balance of least \$15,000 for risk in case of disruption or losses covering conferences, seminars, and short courses.
- 2) The ADS TC chair may spend up to \$300 between and/or at each ADS TC meeting, for meeting rooms, coffee, website maintenance, etc.

The third item applies to large investments and TC member voting to pass or fail same. The draft document will be sent out to all TC members for consideration, and it was decided a 70% approval of those votes received, with at least a 75% response of all TC members, will pass the document to become effective.

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A discussion of the proposed location of the 2007 ADS Conference was the next item. Rick Howard and Ken Desabrais presented collected information on five cities in the US southeast, the part of the east coast (2007 being an “east coast” year) where an ADS conference had not been held, which might be good for families as well as parachute folks. Those cities were Asheville NC, Williamsburg VA, Hilton Head SC, Savannah GA, and Charleston SC. After much discussion, with input from Jean Riley as well as attending TC members, it was decided Jean would gather hotel availability and price information on Williamsburg, Savannah, and Charleston and report back to Rick and Ken. An email vote tally will be collected from TC members when that information is distributed. The committee for the 2007 conference consists of Ken Desabrais as General Chair with John Watkins and Rob Sinclair as Technical co-chairs. An administration chair(s) will be decided on once a location has been finalized.

Julie Smith recommended we prepare something for the AIAA Young Professional program. The AIAA Young Professionals (YP) program allows members 35 years old or younger to present results of their research at a conference without having to prepare a written manuscript. The inclusion of the YP program in the conference involves adding a paragraph to the call for papers for the conference. Julie will send out sample text for us to follow.

Rick Howard briefed Jean Potvin’s report on the May 2006 Heinrich Parachute Systems Short Course. A contract between the TC and ECIII at Yuma Proving Ground is in the works with ECIII and YPG providing the support similar to the 2004 short course. Instructors have been informed, Palm Garden at YPG reserved, and all is on track. The short course will be held 15-19 May 2006.

Ken Desabrais presented his recommendation for a conference seminar topic – FSI (Fluid Structure Interaction), a popular CFD topic spanning many fields. He noted that Rich Charles of Natick had agreed to run the seminar, if asked. Jean Potvin’s suggestion of parachute flight and inflation modeling was also presented. After discussion, a motion was made (Desabrais) and seconded (Sinclair) for FSI as the seminar topic, and with no further discussion, the motion passed.

In order to allow time for PATCAD preparation, it was decided to continue the meeting through the lunch period.

Rick Howard read the letter from Nancy Day of Linda Hall Library (LHL) on the status of the parachute records archived to date. All of the German and Natick collections have been archived. Carl Peterson had reported to Rick by email that 13 boxes of the Sandia collection would be going out to LHL the following week. We will wait to have Nancy Day report how much it will cost to archive the Sandia collection before voting on that matter.

The status of the China Lake parachute document collection was discussed. Dean Wolf noted that China Lake will not give up the Knacke collection, but an alternative might be to borrow the collection, digitize it, and provide that to the LHL. Questions were also

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raised about the U of Minn collection of Heinrich. An **action item** taken by Dean was to follow up with Bill Garrard at UMin and Elsa at China Lake to see what type of action might lead to copies of the collections to make their way to LHL. Dean mentioned others as well: NASA collections of the Apollo and Gemini programs, etc. Rob Sinclair took an **action** to find the best copy of the Air Force parachute manual from which a digital copy can be made for availability through the TC's website. John Watkins asked if Andrew Kiddidis at Wright-Patt was producing a document from the historical material he had gathered. An **action** was taken by John to follow up with Andrew.

Rick reported on the AIAA *Year in Review* article submitted. Sean George was in charge of this activity, and did a great job collecting and editing material from various folks.

Rick noted that we currently have five carry-overs in our Knacke Award nomination pool with the AIAA; no action needs to be taken at this time. Betty Guillie of the AIAA noted that we can submit further nominations any time prior to May 2007 if we would like. We will take up nominations at a later meeting.

Ken presented his idea of a new student design/build/fly parachute competition. The competition would require student teams (undergraduate and/or graduate students) to design, build and drop their concepts based on a task developed by the TC. Ken's concept was to have the drop-off during the conference, with possible awards being cash and/or short-course fee. It was noted the difficulty such an added event might prove to hold during the parachute conference. Suggestions were also made to conduct the event in conjunction with the short course, at a TC meeting, or possibly with another AIAA student design event. John Watkins and Rich Benney agreed to work with Ken on developing the concept, with the note that Mike Accorsi might agree to help support it as well. This subcommittee will report on their development at the next TC meeting.

Rick discussed Congressional Visit Day – he will work with Mo to see if any TC members wish to join with PIA during their planned visit. He will ask Mo to present PIA's visit plans at the January meeting. For info, the AIAA CVD is planned for 4-5 April.

Rick brought up some miscellaneous business items. The AIAA had contacted him about a 5-year review of the standards on parachute drawings. The committee felt any changes would be minor and agreed to review it and make recommendations for revisions.

The “aging textbook” issue of Knacke's manual was brought up. It was noted that Karl Doherr has an errata. The Air Force manual was also discussed. No actions were taken.

It was noted that Jim Strickland is moving on to another position unrelated to parachutes and is dropping off the TC. He notes he enjoyed many interesting discussions over the years on the TC, and sends everyone his best regards.

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John Watkins asked about the parachute ITOPs, if they could be made available. Rick took an **action** to contact Jim Stewart at YPG as soon as John gets him the ITOP numbers.

Rick brought up Dave Rubenstein's suggestion of writing a text on the dynamics and control of parachute delivery systems. Discussion followed on what involvement the TC as a unit might take with no actions proposed. Oleg Yakimenko expressed interest, as well as Thomas Jann, and Rick agreed to send them Dave's white paper as a follow-up.

AIAA ADS TC Treasury Report

Dated: Oct 16th 2005

Submitted by: Richard Benney
US Army RDECOM, Natick Soldier Center
(508)-233-5835

Richard.benney@natick.army.mil

Account Balance (reported with details) on October 13th 2003: \$12,619.88
Account Balance (reported with details) on June 3rd 2004: \$15,020.22
Account Balance (reported with details) on January 18th 2005: \$55,417.55

Activities since 18January 05:

5Apr05: DEPOSIT (Jin Yan, Univ. of Del) +\$50.00
5Arr05: Withdrawal Check # 1377: (Steve Lindgard NOTES) -\$25.00

AIAA ADS TC ACCOUNTS CURRENT BALANCE: \$55,467.55 (-\$75.00)

NOTES: Steve has NOT yet "cashed" in checks # 1334, 1335 OR 1337!

Account Balance (reported with details) on May 16th 2005: \$55,467.55

Activities since 16May 05:

DATE	Deposit Withdrawal	TO or FROM	Description	AMOUNT	BALANCE
					\$55,467.55 -75.00 = \$55,392.55
26May05	Withdrawal #1338	Tim Lott	ADS TC Conference Expenses	\$557.01	\$54,835.54
26May05	Withdrawal #1339	Robert Shirley	Payback, Industry	\$4,564.00	\$50,271.54

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			Reception		
31May05	Deposit Irvin: #012832	Irvin Aerospace Canada	Industry reception	\$5,000.00	\$55,271.54
12Aug05	Withdrawal #1340	Elizabeth Johnson	Payback, Industry Reception	\$436.00	\$54,835.54
14Aug05	Withdrawal #1341	James Long	Seminar Payment (Munich)	\$1826.95	\$53,008.59
14Aug05	Withdrawal #1342	Dr. Robert Mitcheltree	Seminar Payment (Munich)	\$2130.97	\$50,877.62
29Aug05	Withdrawal #1343	Steve Lingard	Seminar Payment (Munich)	\$1900.00	\$48,977.62
	#1344	VOID	VOID	VOID	
29Aug05	Withdrawal #1345	Heinz Stoewer	Seminar Payment (Munich)	\$861.76	\$48,115.86
10Sept05	Withdrawal #1346	Jon Holt	Seminar Payment (Munich)	\$383.57	\$47,732.29
10Sept05	Withdrawal #1347	Steve Lingard	SHORT COURSE expenses from 2004 (16 months late)	\$5583.27	\$42,149.02
6Oct05	Deposit BYU # 502795	Craig Gibson (BYU)	Lingard Notes	\$50.00	\$42,199.02
7Oct05	Withdrawal #1348	Steve Lingard	BYU Parafoil Notes	\$25.00	\$42,174.02

WAITING ON PAYMENT a significant check FROM AIAA for SEMINAR/CONFERENCE?

TC CURRENT BALANCE: \$42,174.02

Balance # Check!!

Checks that HAVE NOT BEEN CASHED TO DATE:

1340, 1341, 1342, 1343, 1344, 1345, 1348,

Total of checks not yet cashed:

**3*25 + 436.00 + 1,826.95 + 2130.97 + 1900.00 + 861.76 + 383.57 + 5583.27 + 25.00 –
50.00 (deposit) = \$13,172.52**

Current 31Aug05 Balance STATEMENT: \$55,346.54

Check: \$55,346.54 - \$13,172.52 = \$42,174.02 CHECKS!!!