



Joint Center for Aerospace Technology Innovation (JCATI) Public Board Meeting Minutes

Monday, April 29, 2013

Public Session 1:00 to 3:00 PM

Loew Hall, Room 355, University of Washington, Seattle, WA 98195

Board members present in person: Roger Myers, Margaret McCormick, Tom McCarty

Board members present by teleconference: Tim Stevens (Board Chair), Candis Claiborn, Tad McGeer

Board members absent: Judy Ramey, Ken Yoshioka

Others present in person: Mehran Mesbahi (Executive Director), Patrick Gibbs (Program Manager), Brad Lawrence (Esterline), Dave Bender (former member of the Board), Alex Pietsch (Governor's office), Jim Sampson (Innovate Washington), Santosh Devasia (Associate Dean, UW College of Engineering), Mary Heusner (Director, Research, UW College of Engineering)

PUBLIC SESSION

Welcome: Mehran Mesbahi and Tim Stevens welcomed the Board and guests to the meeting.

Introductions were made. Alex Pietsch announced that the process to have Michael Bragg (incoming UW Dean of the College of Engineering) appointed to the Board was underway and also that steps would be made to appoint Brad Lawrence of Esterline Corporation as the representative for large aerospace industry currently vacated due to Dave Benders leaving Crane.

Research Symposium Update: Mehran Mesbahi updated the Board on the JCATI research symposium scheduled for June 24, 2013 being co-sponsored by Innovate Washington. The goal of the meeting is to bring together researchers (both currently funded by JCATI and potential future awardees) with members of industry to identify research needs and opportunities across the state and to provide a forum for the networking of aerospace professionals. The tentative schedule for the day was reviewed.

Currently two panel sessions are scheduled:

University Panel, "The Academy's Role in Innovation" with Candis Clairborn (WSU), Michael Bragg (UW), and Earl Murman (MIT)

Industry Panel, "Grand Challenges in Aerospace" with Roger Myers, Moderator (Aerojet, JCATI), Kourosh Hadi, Commercial Airplanes (Boeing), Chris Lewicki, Space (Planetary Resources - asteroid mining company), Tad McGeer, UAV (Aerovel, JCATI), Bill Van Valkenberg, NextGen ATC / Big Data (NextGen)

A moderator is being sought for the University Panel. Jim Hermanson (Chair, UW Department of Aeronautics and Astronautics) has been offered the role. He has tentatively accepted.

The Board requested to see Earl Murman's bio. Patrick Gibbs will provide this. (see Appendix A)



Also scheduled are oral presentations and a poster show by researchers currently funded by JCATI. It was recommended that to emphasize the joint public-private endeavor that the industry partner also be a presenter for these sessions.

A key note speaker has not been confirmed. This has been delaying the promotion of the event. More individuals will be contacted and those who JCATI is waiting to hear from will be contacted to try to get a confirmation from them. Should an appropriate speaker not be available, Jim Sampson recommended that a third panel focusing on either manufacturing or biofuels be created. A save the date notice will go out electronically without a key note speaker to be listed. Alex Pietsch will send to Jim Sampson the list of aerospace industry contacts that the Governor's office holds. Other avenues of marketing recommended were AIAA, the State Department of Commerce list, and to get mention of the JCATI symposium at the PNAA meeting in May.

Santosh Devasia asked how much money Innovate Washington would contribute to the symposium. Earlier conversations suggested as much as \$65,000 would be put forward by Innovate Washington towards this endeavor. Jim Sampson stated that Innovate Washington was committed to cover speakers' fees and travel, funds to promote the event via mailings, and staff time. He suggested that the full \$65,000 may not be available. Patrick Gibbs said that he would provide an updated estimate of the symposium's current projected costs. (see Appendix B)

A more specific theme to aid in marketing the event was recommended by Roger Myers, *Innovation in Washington State in aerospace industry and how university/industry collaborations advances us to the future*

Currently Funded Projects Update: Mehran Mesbahi and Patrick Gibbs provided an update on the research projects currently funded by JCATI. A review of the budget when Patrick Gibbs came aboard revealed a projected unobligated balance of approximately \$130,000. **The board voted over April 2-5 via email to distribute this to further research funding (Hoeskstra at WWU, Devasia at UW, and Kim at WSU).**

Mehran Mesbahi and Patrick Gibbs summarized their meeting to WSU on April 17, 2013. All researchers suggested that they were on target to complete their proposed research and fully spend down their research allocations. In some cases, administrative procedures had delayed purchases of large equipment.

In all of the meetings held at WSU the issue of intellectual property (IP) was raised. Brad Lawrence stated that for the small amount of money that is being awarded to conduct a research experiment by JCATI that it was unlikely that a large company such as Esterline would be interested in entering a research collaboration like those JCATI is funding if the IP agreement was not known in advance of the funding of the award and favorable to his company. It was decided to hold a more thorough discussion on the issue of IP. Patrick Gibbs will attempt to obtain a copy of the Boeing Master Agreement addressing its IP arrangements with UW.



Tad McGeer proposed the questions, “What is JCATI? Should it be a funding agency?” He suggested that with its limited budget that it could not have a significant impact if only viewed as a funding agency. He recommended that JCATI leverage itself to be the knowledge base for researchers and industry to approach when looking to develop a new research collaboration. A function of the new website will facilitate this networking.

Proposal of the Review Process: Patrick Gibbs summarized the proposed review process for the next round of JCATI research funds to be issued for Fiscal Year 2013-2014. It had been proposed that a roster of expert reviewers be collected. When applications have been received, they will be reviewed to determine the research areas in which the proposals fall. A review committee will be convened from the roster of expert reviewers and proposals will be distributed to these reviewers after checking for potential conflicts of interest (COI). The committee was proposed to consist of 15 members with 5 each from UW, WSU, and industry. The Board recommended changing the distribution so that it is half university representation and half industry. The committee will meet to discuss the proposals after conducting a preliminary review and scoring of the proposals. If there is a potential COI present, the members of the committee involved will recuse him/herself during discussion and scoring of the submission presenting the potential COI. A final score will be provided by committee members for proposals. These scores and a summary of the reviewers’ comments will be forwarded to the Board as a basis for them to make final funding selections. Board members with potential COI will recuse themselves from discussion and voting where a potential COI exists. **It was determined by vote that reviewers would not be paid for their service, but would be reimbursed travel expenses and provided a per diem.**

Reporting to the State: Patrick Gibbs informed the Board that a progress report with a budget is recommended to be submitted to budget committees prior to their meeting in April to allocate the State’s funds. He also informed the Board that the Sun Set Report is due on June 7. This report is to include an operating plan, a data collection plan, and proposed performance measures.

Patrick Gibbs reminded the Board that they are Officers of the State and subject to State Ethics Laws and that because they are employed by the UW, Mehran Mesbahi and Patrick Gibbs are governed under the laws applicable to UW employees.

Review of JCATI By-Laws: A review of the JCATI By-Laws was conducted. **Margaret McCormick moved to revise the definition of a quorum such that a quorum results when 60% of the seated members of the Board are present in person, by phone, or video conference. This motion was approved unanimously.** Patrick Gibbs will make proposed edits to the By-Laws and submit these to the Board for approval.

Update of JCATI Logo: Patrick Gibbs provided an update on the progress of deciding on a formal logo for JCATI. Three options had been presented to Board as finalists. One has been chosen. This has been sent to the designer with a request for minor alterations.



Update of Website Design and the Database Project: Patrick Gibbs informed the Board that he had discussions with three groups (two private firms and one UW group) to obtain bids for the design of the JCATI website and the development of a matchmaking database that would be interfaced via the web. One firm (Substantial) failed to return a bid stating that their services would be too expensive for JCATI. ASCII Interactive returned a bid of \$11,000 for the web design and between \$8,000 and \$16,000 for the database project. This database would be more customizable than the one offered by UW Creative Communications. Creative Communications web design bid was for \$4,152 and their database bid was estimated at \$7,310. It would be possible to go with the web design from one group and database of another.

Dates of Future Board Meetings: Patrick Gibbs suggested that future Board meetings for the next year be scheduled. They will occur in June 2013, July 2013, September 2013, December 2013, and March 2014.

Recognition of Service: The Board thanked Dave Bender for his service to JCATI during his time as a member of the Board of Directors. He was the inaugural representative from large industry to the Board.

Other Items: Alex Pietsch informed the Board that JCATI is mentioned in both the House and Senate budgets with the amount of \$1.5 million in annual operating funds, but that it does not have an identified funding source in the Senate budget. It was recommended that the Board contact representatives in Olympia to inform them of the good work being performed by JCATI.

Patrick Gibbs asked the Board if the web surveys have been functioning as a means to acquire votes from them in an efficient manner. The Board acknowledged that the system was working well. It will continue to be used.

Adjournment: The meeting was adjourned by Tim Stevens.



Appendix A – Earll Murman Bio

Earll Murman is Ford Professor of Engineering Emeritus at MIT. He served as Head of MIT's Department of Aeronautics and Astronautics from 1990-1996, as Director of Project Athena from 1988-1991, and as Co-Director of the Lean Aerospace Initiative from 1995-2002. In addition to his 26 years in academia, he worked 4 years at Boeing Scientific Research Labs, 3 years at NASA Ames Research Center and 6 years at Flow Research.

Dr. Murman graduated summa cum laude in Aeronautical Engineering from Princeton University in 1963 and received his PhD in Aerospace Engineering from Princeton in 1967. He is a member of the U.S. National Academy of Engineering, Past President of the Washington State Academy of Sciences, a foreign member of the Royal Swedish Academy of Engineering Sciences, an Honorary Fellow of the American Institute of Aeronautics and Astronautics, and a Fellow of the Royal Aeronautical Society.

<http://web.mit.edu/aeroastro/www/people/murman/>

<http://aeroastro.mit.edu/faculty-research/faculty-list/earll-m-murman>

Appendix B – Projected Research Symposium Expenses

- Space Rental (Kane Hall 210/225) - \$2,247.50
- Tent Rental (for lunch on Red Square) - \$4,542.28
- Catering – @ 250 attendees - \$13,075
 - Breakfast - \$2,900
 - Morning Snack - \$1,525
 - Lunch - \$7,125
 - Afternoon Snack - \$1,525
- Speaker Honorarium - \$5,000
- Travel - \$16,058
 - 3 speakers - \$3,723 (questionable if we will have three speakers needing airfare and lodging)
 - Subsidized student travel from WSU – \$12,335
- A/V for Red Square - \$1,000

- Subtotal - \$41,922.78

- Estimated Ticket Revenue – \$8,125
 - 125 @ \$50 - \$6,250
 - 75 @ \$25 - \$1,875

- **ESTIMATED TOTAL - \$33,797**