

Science and Technology Board
Minutes of the 24 June 2008 Meeting
(draft)

1. BOARD COMPOSITION:

Dr. Marilyn M. Freeman (Chair)
Director, Natick Soldier Research, Development &
Engineering Center - Present

BG R Mark Brown
Commanding General, Natick Soldier Systems Center /PEO Soldier – Present,
via Video Teleconference from Ft Belvoir, VA

COL Beau Freund
Commander USA Research Institute of Environmental Medicine – Present
Also present was the incoming Commander to the USA Research Institute of
Environmental Medicine – COL Kevin Keenan

Dr. Barbara A. Avellini
Director, Navy Clothing & Textile Research Facility – Not Present

LTC Craig Rettie
Project Manager
Force Sustainment Systems – Present

LTC Kari Otto
Garrison Commander, Soldier Systems Center Garrison – Present

Mr. Joe A. DeBlase
Chief Clothing Designer, US Coast Guard Clothing Design & Technical Office –
Present

The Honorable Daniel O'Connell
Secretary, Massachusetts Executive Office of Housing and Economic
Development – Present

Mr. James D. Shields
President/CEO, Draper Laboratory – Present

Mr. Patrick Larkin
Director, John Adams Innovation Institute - Present

Mr. Robert L. Culver
President/CEO, Mass Development - Present

Dr. Jack M. Wilson
President, University of Massachusetts – Not Present

Dr, Stephen A. Jamison
Chairman, Massachusetts Defense Technology Initiative - Present

Mr. Michael J. Ahearn
Director, Integrated Logistics, SBC – Not Present

Mr. A. Theodore Welte, CCE`
President, MetroWest Chamber of Commerce - Present

2. Agenda: Attachment 1

- The meeting was brought to order by Dr. Freeman
- This was the third meeting of this Board. Each Board member present introduced themselves.

3. Opening Comments

The initial introductions were followed by opening comments:

a. Dr. Marilyn Freeman:

- Welcomed the Board to its third Board meeting. She expressed deep appreciation for the Board member’s time being invested in this endeavor.
- Provided that the last two meetings were principally focused on NSSC/NSREC. Today the Board will hear from MA Development and get some insight relating to the S&T strengths in MA and Draper Laboratory (Mr. Jim Shields) will give the Board some more insight relating to the Center for Soldier Innovation. The latter is a principal focus for today’s meeting. Sufficient time has allocated to allow for discussion. The objective is to give Draper some feedback regarding any adjustments they may consider or what detail is missing which would make the group comfortable with the proposed concept. At the end of the day, I hope the Board can accomplish securing a consensus and define some level of endorsement and guidance for a path forward.

b. BG Brown:

- Expressed satisfaction with the Board’s progress to date. With this being only the third meeting, there is something of substance on the table. The kind of discussion Draper Laboratory as brought forward is one of the key values of this Board. He expressed excitement about the possibilities.

- Recognized that endeavor has risks and this one surely will as well. As discussed previously, other States have gone in these uncharted waters and seem to be succeeding (APG, Huntsville, etc).

- Recognized that the scope of the potential business is significant. The Army has ambitious plans in of 99 Technology Objectives totaling approximately \$2.0B. Of these 99, the soldier is involved or directly responsible for 1/3 of them. So there is significant opportunity.

- Offered that the Army Active Component is growing from 518k to 547K by 2010; the Army National Guard is growing from 353K to 358K during the same period. The Army Reserve is going from 190K to 206K by year 2013. So all of these soldiers have to be equipped

- Introduced his PMs who have joined us physically at the Natick site or via VTC today. The PMs are the responsible agents to take the science from the various RDECs and develop and field the resulting products.

- Also introduced the newest Board member – LTC Kari Otto, who replaced COL Ulsh as the Natick Soldier Systems Center Garrison Commander.

c. The Honorable Daniel O'Connell:

- Expressed pleasure to be participating in the S&T Board meeting.
- Announced that Governor Patrick's proposed investment of \$1.0B over 10 years in the Life Sciences was now law.
- Reflected that he had just returned from San Diego with Governor Patrick where the efforts undertaken in Massachusetts, particularly in the Life Sciences were endeavors that the attendees recognized as being efforts to be appreciated and copied to remain competitive.
- Provided that the Milken Institute had just published the State Technology and Science Index, again rated Massachusetts 1st place in 2008 and to sustain that position, efforts being discussed this day will be vital. He expressed, "this is the future."
- Anticipates a number of opportunities to partner with NSSC and together develop new products.

4. Administrative Actions

- Minutes of the 21 February 2008 meeting were accepted without change.
- A proposal to change a sitting Board member was made and accepted. Mr. Patrick Larkin, Director of the John Adams Innovation Institute will replace Mr. Mitchell Adams, Director of the Massachusetts High Technology Collaborative.

5. Directed Actions from the 21 February 2008 Meeting

- Opened this item by congratulating Massachusetts for AGAIN coming in first in the Milken Institute's 2008 Technology & Science Index.
- Dr. Freeman updated the list of CRADAs, MOU's, Congressional dollars in MA. Hand outs provided and posted on the web site. Noted was that of the New England States represented, the smallest amount of "earmarks" to the NSRDEC was from Massachusetts.

- As directed at the last meeting, the Next Energy in Michigan was researched (web search and review) as a potential model for this S&T Board. The Next Energy seemed to be, by most accounts, an impressive effort in Michigan. It appeared that Next Energy, under one roof, has similarities to several separate on-going initiatives in MA. It appeared to have significant investment with the objective of revitalizing the city of Detroit and to retaining jobs in the auto cluster. The bottom line was that, albeit interesting, appeared to be more complex than this Board's initial initiative.

- As part of knowledge sharing, the group was again reminded of the magazine devoted to the PEO Soldier initiatives can be found at:

>http://www.usaasc.info/alt_online/toc.cfm?iID=0802

- The next two Directed Actions:

- Undersecretary Bialecki, after having heard some detail of the Natick Soldier Systems Center organization's technical endeavors, future challenges, and financials offered to present similar information but with a Massachusetts perspective addressing technology capabilities in MA, including how much Defense \$s exist in MA; What technology is being "spun off"? How many people are employed by the Defense Industry in MA, including the AF? Mr. Culver, President of Massachusetts Development made the presentation with the power points handed out and posted on the web site.

- Proposed initiative introduced by Draper Laboratory at the 22 February 2008 meeting generated interest in getting more detail. Mr. James Shield, President/CEO of Draper Laboratory provided that the ensuing presentation represent preliminary thoughts, but certainly the proposed Center for Soldier Innovation has to be a collaborative effort which should/could involve several of the Board member organizations present as well as others from industry, academia and the public sector. He provided that prior to this meeting, staffs of the Board members had been consulted and the proposal vetted accordingly. It is intended to truly represent a partnership with MA and its Universities, Companies, and Communities and be complementary to the endeavors on-going on the Natick Soldier Systems Center. Mr. Frank Serna made the details relating to the Center for Soldier Innovation (CSI) with the power points handed out and posted on the web site. The briefing closed with "Do we have S&T Board endorsement?"

6. CSI Related Discussions – There was general enthusiasm for the concept. The following comments reflect the general tone of the discussion and not intended to be a transcript.

Secretary O'Connell – His office has monitored the Stanford Research Institute facilities which appeared to have tremendous academic and industry activity with modest public investment. While in San Diego Governor Jeb Bush (Fla) cited the establishment of the National Center for Maritime and Port Security as a major accomplishment of his governorship. Secretary O'Connell's reaction to the proposed Center was positive and he expressed the potential for positive impact to the MA economy. He also commented that support from other

NE state congressional delegations could make for a powerful group if we can “erase the borders” with the NE states.

Dr Freeman was also supportive of the concept by cautioned that the Center not be redundant to the on-going NSSC activity. She also expressed that the medical side be further explored given the MA Life Science investment, particularly as it applies to 1st responders, fire fighters, policemen, etc.

Comments from Draper Laboratory representatives included that not the total required investment was required on day one. Detailed milestones with board supervision would allocate funding as milestones were met. The concept for this Center would be heavily influenced by the Board and by NSSC representatives with the objective of strengthening the infrastructure around the Center with Draper serving as a catalyst to stimulate the activity.

Mr. Culver commented that the Center should also not compete with Mitre, Lincoln Labs and other existing organizations, but expressed that it would be a great thing to take basic research and applying it to products developed in MA.

To the question of location, Mr. Ted Welte commented that the National Guard Facility located on Speen St in Natick, MA would be an ideal location should that be available. Secretary O’Connell offered to discuss the notion with Secretary Burke, Secretary for Public Safety.

Also expressed was a caution of attempting to be all things to all people. Focus should be a strong consideration as the Center evolves to reality.

More comments made, but all generally positive to the concept.

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7. Executive Session - Next Steps

Bottom line: The Board granted the endorsement to continue in the effort with some guidance:

- focus should enhance the human performance for the warfighter.
- build Center around core competencies of the NSSC.
- provide NSSC capabilities beyond what is currently available.
- Center must be self sustaining after “stood up”.
- Center must complement current NSSC activity and not compete with it.
- Involve the Program Executive Soldier early in the process of forming the Center.

8. Specific Tasks for the Work Group to address at the next meeting:

Put together a Business Plan for the next meeting.

9. Next Meeting:

Schedule for September/October time frame.

AGENDA
SCIENCE AND TECHNOLOGY BOARD
24 June 2008

- 1030-1045 Opening Remarks:**
- Dr. Marilyn Freeman
 - BG Brown
 - Secretary O'Connell
- 1045-1100 Administrative Actions:**
- Minutes of 21 February 2008 Accepted
 - Board Member Change (from Executive Director, MA High Tech Collaborative to the Director, John Adams Innovation Institute)
- 1100-1115 Directed Actions from 21 February 2008 Meeting:**
- List of CRADAs, MOU's, Congressional Dollars In MA
 - NextEnergy – Model for S&T Board?
 - Web Link to ASALT Magazine Highlighting PEO Soldier
 - Defense Industry In MA
 - Draper Laboratory Proposal – Next Level
- 1115-1130 Technology Capabilities in MA – MA Dev**
- 1130-1200 Proposed Initiative – Next Steps:**
- Center for Soldier Innovation (CSI) – Draper Laboratory
- 1200-1215 CSI Related Discussion- All**
- 1215-1230 Executive Session**
- 1230 Meeting Adjourns**