Meeting Minutes

Time & Date: 7:00pm, Thursday, Mar 24, 2022 (Next meeting will be on April 21, 2022)
- Zoom Meeting: https://aiaa.zoom.us/j/98799607872?pwd=YjZ0QzExWHZPdnhLWmhmbFR UdFh5UT09
- Meeting ID: 987 9960 7872 / Passcode: 947764

AIAA-NE online information:
- LinkedIn: https://www.linkedin.com/company/aiaa-new-england/
- Website: https://engage.aiaa.org/newengland/home

Attendances: Hiro Endo, Endri, Charlie Wilson, John Blandino, Jason Hui, Kristen Bowers, Miklos Haranghy, Osa Idahosa, Phoenix, Shreyas Hedge, Caroline Lamb, Allison Tsay, Antonio Inniss, Dan Isaacs, Umanga Balasuriya

Apologies: Alex Friess

1. Opening Remarks & Administration:

   - Opening Comments / Highlights since the last meeting
      - Introductions:
        - Miklos Haranghy - from UMass Lowell; majoring in MechE and Aerospace engineering; participating in DBF
      - Celebrating 2022 Awardees and Upgrades:
        - New England: One STEM Educator Award, One honorary fellow, two fellows, six associate fellows
        - Cedric Turner – Trailblazer STEM Educator Award. Recognizing Cedric's dedication and commitment to tireless work in providing inspiration and STEM education to minority and underrepresented students through AIAA.
        - Wesley L. Harris, MIT (Honorary Fellows) - For contributions to the understanding of helicopter rotor noise, outstanding and sustained service to the aeronautical profession, and untiring personal encouragement of minorities in engineering.
        - James Kuchar, MIT LL (Fellow) - For innovation, education, and leadership combining machine learning and human-systems integration to develop, validate, and transition advanced aviation safety and decision support systems.
        - Grant Stokes, MIT LL (Fellow) - For his role as the system innovator, architect, and leader of the development team of advanced systems for space surveillance and situation awareness.
        - William Blackwell, MIT LL (Associate Fellow) - For his fundamental and high-impact contributions and leadership in satellite atmospheric remote sensing, including CubeSat mission design and implementation, sensor calibration, and data exploitation.
        - Elad Kivelevitch, MathWorks (Associate Fellow) - For significant and sustained contributions to aerospace intelligent systems in the form of autonomous systems on aerospace vehicles, technical tools, and visionary leadership.
        - Gregory Laskowski, Dassault Systems (Associate Fellow) - For leadership in the use of high fidelity computational fluid dynamics simulation and tools in turbomachinery and other industrial sectors
        - James R. McIntire (Associate Fellow), MIT LL - A significant contributor to technology development for Ballistic and hypersonic missile defense. Key expertise spans tracking and estimation, radar design, systems analysis and physics-based models.
        - Mark Silver (Associate Fellow), MIT LL - For substantial technical impacts in aerospace structures, including satellite structural interfaces, high-strain composites, precision alignment of large radar dishes, and deployable structures.
        - Robert White (Associate Fellow), Tufts University - For contributions to micro- and nanotechnology for aerospace systems, especially in boundary-layer measurements, as well as educational excellence.
● Laura Kirsch from UMASS (Lowell?) reached out to us offering catering and venue info for future AIAA gatherings
● The election for 2022-2023 officers are starting. Please contact Hiro if you would like to nominate yourself or another; or if you would like to be a part of the election committee.

● Finances / Expenditures (Osa)

● Account Status Update:
  ○ Expecting Section Rebate (FY22): $0.00
  ■ Total FY22 rebate received
  ○ Current FY22 Section YTD Income: $7,491.86
  ■ Includes donations received towards AIAA-BWSI challenge
  ○ Current FY22 Section YTD Expense: $5,417.87
  ○ Current account balance: $8,433.88 (Checking); $15,013.70 (Savings)

● Key Expenses for the Month ($total):
  ○ $0.00

● Pending Expenses (Council-approved):
  ○ AIAA-BWSI CubeSat Challenge: $2,500.00
    ■ Final expenses TBD
    ■ Pending expense may increase pending receipt of $7500 funds from LM
  ○ Wentworth Institute of Technology Visit: $45.82
    ■ Funds used to purchase food during a recent visit Charlie made to WIT.
    ■ Charlie requests the balance of funds approved ($154.18) remain committed to future student section visits; approved by a majority vote of Section Council Officers
    ■ School is funding sending students to the AIAA DBF competition

● Budgeted Expenses
  ○ There are a number of expenses (e.g. in-person meetings) included in our original budget, but which have not yet been planned

2. Reports by Committee Chairs & Activity Leads:

● Newsletter (Jeff / Charlie)
  ● Charlie has been forwarding materials and questions to Jeff

● STEM - K12 Outreach / Diversity, Equity & Inclusion
  ● Aero-Robotics Competition (Allison)
    ▪ Ramping up in preparation for competition on April 23 8am-5pm
    ▪ Hosted by St Anselm College Manchester, NH - which is graciously sponsoring food and drink for the event
    ▪ First in-person competition: four teams will be participating in-person (some other schools are unable to travel due to a variety of reasons)

● MIT-LL Beaver Works Summer Institute (Bob & John)
  ▪ CubeSat challenge kicked off on Feb 12
    ● Proceeding well
    ● Students just finished the first milestone: the flat-sat layout challenge
    ● Judging panel has been finalized
Next milestone is mid-term video design review
- Lockheed Martin sponsorship ($7,500).

Maine Department of Education Maine Learning Technology Initiative (MLTI)
- No update from Alex
- Seeking additional volunteers - please reach out to Hiro if interested

$250 STEM Grants (Charlie)
- No new submissions

College Outreach (Charlie / Umanga)
- Wentworth (WIT) visit – Rescheduled to March 18, 2022 due to COVID.
  - Only six of 20 students were present due to students being away on the coop
  - Two questions to section - Charlie has been working with AIAA National on answering both
    - Could we help arrange career fairs for students? - looking for volunteers to reach out to corporations and connect them with student chapters.
    - Are there ways to get corporate feedback on the aerospace curriculum
- BU Rocket Group (BURG) Team Sponsorship (Jason) / Re-energizing the student branch
  - Received request for sponsorship/funding
  - AIAA National has strongly recommended the group establish an AIAA affiliation before receipt of AIAA funding
  - Section Council officers will meet separately to discuss the funding proposal
- Charlie has reserved the balance of funds approved for the March 18 WIT tour to fund visits to other student chapters
  - Umanga expressed interest in participating in a future student chapter visit
  - Phoenix has also expressed interest in future college outreach activities
  - Antonio Inniss also expressed interest in future outreach activities
    - Hiro offered to send more info to Antonio, and introduce him to Christian North and Cedric Turner

College Branch Activities / Updates from Advisors
- WPI (Kirsten - students who will be taking over from Kristen are both on travel)
  - 150-200 student members at a time
    - HPRC
      - Project presentation night to share results with sponsors
      - Launches last weekend and this weekend were both delayed by weather; to be rescheduled
      - Mid-build for current rocket
    - DBF
      - Chapter build will be participating in the upcoming conference
  - Students attending the conference at Virginia Tech
  - WoAA
    - Recent change in executive committee; meet on Wednesday
    - March 5 - participated in the Women Take Flight event at CT Aerospace Museum
  - WPI Turbine Project (Peter Dentch)
    - Testing at Hiro’s office on March 25

Middlesex Community College (MCC) - Model Aviation Club (Christian).

- Professional Development & Outreach
  - CVD - Congressional Visit Day (Endri)
• Videos will be posted to sharesite
• Zoom Webinars (Jason / Shreyas / Phoenix)

Next Speaker:
• 4/14: JWST – Shreyas working on arranging the talk with NASA, targeting April (Shreyas)
• 5/05: The history of GE CFM56 by John Blanton (Shreyas)
• 5/26: Hypersonic Aeroelasticity by Prof. Earl Dowell (Shreyas)

Potential speakers:
• “Talk on Eastern Europe” by Tomek Jankowski (Charlie) – March/April
  o Economist living in Poland
  o AIAA National has expressed concern over a sensitive topic
• “I’ve Got a Great Design...Now, How Do I Sell It?” by Angela Trego (Jason)
• “The Next Aeronautics Revolution” by Vanessa Aubuchon (Jason)
• “Forty Years on the Bleeding Edge of Technology from an Aerospace Engineer’s Perspective” by Daniel Adamo (Jason)
  o 2 hr webinar geared to young professionals and students
  o Targeting the start of school year to facilitate engagement with student population
• Operation Sandy, ties about the V2 Rocket by Kevin Burns (Endri) – June/July

• In-person event for 2021/2022:
  • Proposed Events:
    ▪ Pratt & Whitney Hangar Museum Tour
    ▪ New MIT Museum visit (Fall 2022)
    ▪ Collings Foundation – STEM Day with Students (June 2022)
    ▪ New England Air Museum, Windsor Locks, CT https://www.neam.org

3. Other

• Next council meeting on April 21st, 7:00pm-8:00pm.