

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=YjZlQzExWHZPdnhLWmhmbFRUdFh5UT09>
- 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 nano-technology 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
 - Economist living in Poland
 - 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)
 - 2 hr webinar geared to young professionals and students
 - 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.