

## Meeting Minutes

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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=YjZlQkZlWHZPdnhLWmhmbFRUdFh5UT09>
- 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:

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- 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

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- Next council meeting on April 21<sup>st</sup>, 7:00pm-8:00pm.