

## Minutes of Meeting

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Time & Date: 7:00pm, Thursday, May 20, 2021 (Next meeting is scheduled for June 17<sup>th</sup>, 7 pm)

- Zoom Meeting: <https://aiaa.zoom.us/j/95963441809?pwd=TjdUODZQSnRiQkl2amlRaEdSNEo5dz09>
- or call: 877-853-5257 US Toll-free or 888-475-4499 US Toll-free
- Meeting ID: 959 6344 1809 / Passcode: 910506

AIAA-NE online information:

- LinkedIn: <https://www.linkedin.com/company/aiaa-new-england>
- Website: <https://engage.aiaa.org/newengland/home>

Attendees: Charlie Wilson, Endri Lesha, Caroline Lamb, Jeffrey Mobed, Phoenix Tom Robbins, Christian North, Naveen Sri Uddanti, Kristen Bowers, Allison Tsai, Umanga Balasuriya, Idahosa Osa Osaretin, Bob Shin, James Sherwood, Deborah Douglas

Apologies: Hiro Endo

### 1. Opening Remarks & Administration (Charlie)

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- Jeff and Charlie are working on Spring Newsletter - 8 pages of content! Shifting to a year-end summary and introduction of 2021/22 council members
- Does AIAA Engage work? - AIAA Niagara Frontier section took data on responses from Engage vs. other methods - confirm Engage isn't effective because 115 registered via email announcement and only 1 via Engage
- Articles for AIAA Aerospace America magazine: Eugene's obituary was published, our Sustained Achievement Awards has been submitted. Two more could be considered: ARC effort and WPI projects on the jet engine and HPRC.
- Allison's participation in an AIAA short course effective - useful for generating new topics with which to engage the Section; develop outreach survey

### 2. Reports by Committee Chairs & Volunteers:

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- Finances / Expenditures (Charlie for Dave Guo)
  - Fiscal year ends on May 31
  - The section currently has \$6,370 in checking (Charlie number) and \$15,012 in savings, -> \$21,382
  - HQ guidelines for the end of the last FY are to not exceed \$10,865 in the bank and provide services to members with the rest. This value is a function of our planned expenditures given in our last end-of-year audit
  - We were considering spending this year's rebate of \$6,113 and \$5,154 from last year's rebate to draw down our excess -> \$11,267 and leave a substantial amount for future years
  - Total spent to date is ~\$10,032
    - \$3,500 - college outreach (to Worcester Poly Tech for a two-year effort)
    - \$1368 - STEM
    - \$1,967 - ARC
    - \$1,390 - January Newsletter
    - \$1,187 - awards
    - \$199 - AIAA short courses
    - \$421 - misc expenses
    - Possible additional expenditures this FY: \$1,760 - 2nd Newsletter, \$400 - ARC awards and \$649 - DEI/STEM, plus ?

- Summary, we are on a path to use what we were given this year and last but not much of previous years' savings which significantly exceed the recommended amount
- College Outreach (Umanga)
  - One college outreach report received from Kristen for WPI
  - Potential for watch party during AVIATION Forum - email was sent to students during finals week; anticipated participation not known at present.
  - Charlie raised the potential to arrange events for college students - especially those without a student chapter - e.g. trip to Collings Foundation.
  - Christian North - established Model Aviation Club at Middlesex Community College (MCC) in Bedford (as opposed to branch) in Feb 2020 - has been very active online; voted most successful student club on campus and received a cash award. Each member received three books, an AIAA & AMA membership, and a T-shirt.
    - MCC has coordinated with AIAA to send students a code to pay for their membership
    - Will explore potential to found a student branch despite not offering an aerospace engineering course
      - Deborah Douglas raised possibility of leveraging UMASS connection to justify MCC's qualifying for a student branch on the basis of its association with the UMASS system
      - Documented success in students from MCC continuing on to study aerospace at UMass Lowell
    - Chris taught a Beaver Work Summer Institute course through MIT Lincoln Lab - provided aerodynamics kits materials to high school students; weekly challenges; students uploaded photos of completed materials.
      - Most students were from New England - executed in partnership with Beaverworks outreach.
      - Bob Shin indicates the course will be offered again in the Fall. Cost to offer the course is ~\$4k per Bob Shin. The chapter could offer partial payment to offset costs; partner with Beaverworks to sponsor the course.
      - James Sherwood expressed interest in future participation in Beaverworks outreach effort; connection made with Bob Shin.
      - James Sherwood also raised awareness of "Engineering 4 Us All", E4UA - as another outreach opportunity for high school students; opportunity to potentially earn college credit in high school
  - James Sherwood indicated intent to offer aerospace PhD option at UMass Lowell; plans in motion to expand aerospace engineering minor in to a major
- WPI-AIAA/WoAA (Kirsten Bowers)
  - Update on WoAA & AIAA WPI
    - WPI ended school last week; aerospace graduation tomorrow
    - WoAA ended week before finals; planned out activities for next year
      - WPI will be back in-person in the fall; planning for in-person activities for WoAA
    - AIAA chapter ended a week early
      - UAV/Drone - were also able to meet for Friday Fly Days at a park near school
      - Model Rocketry - 7 people completed L1 rocket; certification not completed due to COVID restrictions on in-person meeting; plan to launch during A-Term (beginning fall semester)
  - Update on Jet Engine Project - no update
  - Update on High Power Rocket Club activities

- HPRC (high powered rocket club) finished rocket and payload for this year; will be working on custom PCBs over the summer; visited Dr. Hiro Endo at Test Devices for ejection testing of rocket with high speed cameras; will be reviewing data over the summer
      - Subscale launch last month at Amesbury, MA
      - Planning another subscale launch in Acton on Saturday 5/22
- STEM / K12 Outreach
  - Aero-Robotics Competition - Allison had to leave before she could present her slides
  - MIT-LL Beaver Works Summer Institute (Bob Shin & John Blandino)
    - Summer Institute (virtual this year) - 13 courses being offered online
      - Data Analytics Course
      - Autonomous Race Car course
      - Cubesat Course
      - Several additional courses being developed into self-paced online challenge courses
    - Material available to non-profit institutions for use - requests can be made to Bob Shin
    - MOU - Charlie received MOU for AIAA and Beaverworks; needs review from AIAA National
  - \$250 STEM Grants (Endri)
    - Met with NSBE and talked about how to collaborate/invest in NSBE activities
      - Anticipating funding requests from Brockton High School and Brockton Middle School through the Empower Yourself Program
    - Osa described the Empower Yourself Program - MIT LL has supported student tours at MIT LL; goal of inspiring students to consider STEM careers.
- Sustainable Aviation (Charlie)
  - Albert Moussa - planning a panel with target date July 1; to feature Prof. Spakovsky, Dr Bruce Holmes (Skai Corp) and others
  - Charlie will publish summary of AIAA on-line activities for our website
- Diversity, Equity & Inclusion (Charlie/Endri/Osa)
  - Osa will become chair of the DEI committee
- Upcoming Zoom Webinars (Hiro)
  - June 27: TCAS seminar with James Kuchar of MIT LL
  - July 1: Proposed date for Hydrogen in Aviation Panel (arranged by Albert Moussa of BlazeTech)
  - Distinguished lecturer?
- Honors & Awards (Charlie)
  - Info sent to Aerospace America on our glass awards effort

### 3. Other

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- Next council meeting on June 17, 7:00pm-8:00pm.
- Proposed in-person event for 2021 (pending COVID situation):
  - Mass Air & Space Museum in Hyannis, massairspace.org – Jeff
    - Proposed Summer 2021; potential date August 28
    - Reserve a 1 hr tour at the museum 1000 or 1100
    - Follow up with a BBQ at a local beach
  - Propose astronomy night on the Cape proposed by Endri - Jeff and Endri will talk offline)

- Deborah recommended the Harvard Observatory - ability to reserve time blocks for small groups
- Endri mentioned another local observatory that has a summer cookout
- Pratt & Whitney Hangar Museum Tour (Fall 2021)
- Collings Foundation – STEM Promotion Day with Students (Late summer / Fall 2021 or June 2022)
- New MIT Museum visit (TBD)
- Boeing / Aurora Flight Science office visit (Above the MIT Museum) (TBD)
- Science Day (TBD)