

Minutes of Meeting

Time & Date: 7:30pm, Thursday, Oct 22, 2020 (Next meeting is scheduled on Nov 19th at new time: 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: John Blandino, Qiana Curcuru, Hiro Endo, Endri Lesha, Dhiren Marjadi, James Sherwood, Allison Tsay, Krystina Waters, Charlie Wilson, Gary Wolfe

Apologies: Joe Vornehm, Medhi Mortazavi, David Guo, Scott Stadler

1. Opening Remarks & Administration (Charlie)

- Introducing the new council meeting format (Captured in the new agenda).
- New features on AIAA-NE Engage websites:
 - STEM K12 Resources page
 - Student Branches page

2. Reports by Committee Chairs & Volunteers:

- Finances (David Guo – Apologies)
- Green Engineering (Allison/Umanga/Gary)
 - Allison attended the sustainable engineering course.
 - Learned more about the current and near future development of sustainable aviation fuel / hybrid propulsion systems.
 - Commercial hydrogen fuel use is most likely a longer-term goal.
 - UAV & Electric vertical takeoff and landing vehicles are near future reality.
 - Many considerations and challenges exist for the method for H₂ generation and distribution – needing a wholistic approach to supply design the supply chain. (Skai will use this fuel for its eVTOL)
 - Biomass fuel is also other interesting topic to explore.
 - Allison is working on putting together a PPT to share in the future meeting.
- K-12 STEM Educator Associates
 - \$250 grant program (Endri)
 - We have accepted a proposal from Charlotte Center School in Charlotte, VT. Another for was rejected not staying within the \$250 limit.
 - Launching e-mail campaign via AIAA Engage on 10/20/2020. Luci Blodgett is helping us with the discussion post formatting issue.
 - Mentoring at high schools with member panels (Qiana)
 - Promotional campaign posted on AIAA Engage Announcement and Discussion columns (on both on the AIAA-NE Main and the STEM K-12 Resources sections.
 - Launching an Engage discussion group campaign to all members

- Aero Robotics Competition (Allison)
 - This is a design, build & fly competition for high school students.
 - Reached out to the competition organizer and inquired about starting a group in New England. They are interested in running a competition in Boston.
 - Aero Robotics wants a help from AIAA with volunteers and networking. They have funding.
 - AIAA works with ARC: <https://www.aiaa.org/get-involved/k-12-students/aerospace-robotics-competition>
- Zoom Webinars
 - Professor Ed Bertschinger's DEI zoom on October 14 (Endri)
 - A good thought-provoking session. Endri enjoyed working with Prof. Bertschinger.
 - Charlie to post a note on AIAA Engage on this topic - Some takeaways from Charlie:
 - Studies of Change Theory
 - Lessons from organizational and social psychology
 - Cognitive science
 - Implicit and explicit changes
 - How to organize ~ 100 organizations in a coherent alliance
 - Rojas on the effectiveness of non-violent vs violent protests
 - Planned Zoom Sessions
 - Nov/17 (5-6pm): Dr Laura Forczyk "Your Future in the Space Industry" (Endri)
 - Dec/15 (7-8pm): Dr. Bruce Holmes, "The value of hydrogen solutions for aeronautical powertrains (SKAI Co)" (Mehdi)
 - Future Zoom Candidates:
 - Konstantine Fetfatsidis: "3D metal & composite printing / Additive manufacturing technologies" (Gary/Umaga) The title may change to reflect his recent business experiences
 - Bruce McKenzie: "Living on Mars" (Mehdi)
 - Elad Kivelvitch: "Artificial Intelligent Systems AIAA TC" (Gary)
- University Outreach (Mehdi - Apologies)
 - After sharing the requests for proposals (DBF, Conference and Student Projects, Mentorship) there have been a few interests:
 - UME: Faculty Advisor showed high interest in mentorship. Proposal is to take a few AIAA council members to judge their proposals multiple proposals...happy to chat more
 - UML: David Willis responded: He is working with a few students to submit proposals towards the end of October once they have more of the information requested
 - WIT: Interested and will participate in DBF challenge. Also interested in the mentorship program
 - Jet Engine Project update (Krys, John & Hiro)
 - Draft proposal is ready. Currently under review by academic staff. Sending a copy to Mehdi soon for the funding application.
 - New academic lead is assigned – A-Prof. Jayachandran. He is a combustion expert.
- Diversity, Equity and Inclusion (Charlie)
 - Charlie is working on recruiting Educator Associates in under-resourced schools and increasing the diversity in the council. The next step is to strive to collaborate with the National Technical Association and the National Society of Black Engineers
 - Women of Aero-Astro (Krys)
 - WoAA group has 15 members at WPI.
 - Planning a joint WoAA-AIAA-NE session on 11/23 (6-7pm)
 - Hiro to setup a Zoom session for 11/23 and give Krys Zoom access.

3. Other

- Next council meeting on November 19.
 - NOTE: All agreed to change the starting time from 7:30pm to 7:00pm so that Joe can join the meetings.