

Meeting Agenda

Time & Date: 7:00pm, Thursday, Sept 23, 2021 (Next meeting is scheduled for Oct 21st, 7 pm)

- Zoom Meeting: <https://aiaa.zoom.us/j/95963441809?pwd=TjdUODZQSndiQkl2amlRaEdSNEo5dz09>
- 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: Hiro Endo, Allison Tsay, John Blandino, Christian North, Phoenix Robbins, Endri Lesha, Umanga Balasuriya, Jeff Mobed, Charlie Wilson, Bob Shin, Osa Osaretin, Jason Hui, Ryan Hart, Daryian Rhysing, David Willis, Scott Wallace

1. Opening Remarks & Administration:

- Intros
 - Jason Hui: used to serve on the Board w/ John Blandino
 - Sr. Mgr in Systems Engineering @ Textron
 - Ryan Hart: VP of Northeastern AIAA Chapter
 - Daryian Rhysing: CTO @ United Aircraft Technologies
 - 2 branches (1 in Pittsfield, MA and 1 in Troy, NY)
 - rhysing@uairtek.com
 - David Willis: UMass Lowell Student Chapter Advisor
- Highlights since the last meeting:
 - Charlie - Congrats on the "AIAA Sustained Service Award"
 - Umanga – Congrats on the "Outstanding Section Student Branch Partnership Award (3rd)"
- Refocusing our goals for the next 2 years (Hiro/Allison/Osa):
 - Allison: Could we provide funding and sponsorship to students and section members to attend AIAA conferences or attend AIAA classes?
 - What can we do to promote more membership & retention?
 - How do we increase the engagement level with the Professional members in our community?
 - How do we get more students & student branches to engage with us?
 - Ideas & potential actions:
 - Send a survey to New England members – ask them what they want to see us do more...
 - Leverage AIAA brand –
 - Awards to recognize outstanding professionals, contributors, and students in our community...
 - Social events (pending COVID situation...)
 - Communication channels:
 - Are Engage, e-mail & newsletters effective enough? Is there other channels we can use?
 - Finances / Expenditures (Osa)
 - Osa sent an invoice to Lockheed Martin

- Opened a business paypal account
- Haven't heard anything back from LM
- Other announcements:

2. Reports by Committee Chairs & Activity Leads:

- Newsletter (Jeff / Charlie)
 - Updates & progress
 - Jeff and Charlie are in communication
 - 1/3 of newsletter laid out → need more content
 - Email anything of note to Jeff (i.e. high-res photographs)
 - Jeff Mobed 508.367.6565 jeffrey.mobed@gmail.com or jeffrey@nehydropower.com
 - Contributions / volunteers
- Diversity, Equity & Inclusion (Osa, Charlie, Endri)
 - Updates from Brockton Highschool's
 - Formation of Brockton High ARC team
 - In communication w/ Cedric. They've identified a physics teacher w/ drone experience.
 - Kirsten may go to Brockton HS for a presentation
 - WPI HPRC session (Kirsten / Kevin)
 - Meeting updates
 - Endri: Solar panel? Could send these to schools as educational resources
 - Start-up @ Greentown Labs. Company is donating broken solar panels
 - Contact Cedric Turner? Other ARC High schools?
- College Outreach (Umanga)
 - Updates on networking with college branches & understanding what they do
 - Outreach to MIT & BU?
 - Contact Prof. Grace (BU)
 - Contact Kerri Cahoy / Bruce Mackenzie (MIT)
 - Umanga:
 - WPI High Power Rocketry has 150 members
 - DBF senior team is in integration phases
 - UAV Team is flying in local parks
 - Jet Engine project presented to WPI aerospace masters class
 - DBF requires shock sensors
 - Sensors come in packs of 25
 - Each team requires 2-3 units.
 - Umanga proposes AIAA purchase a carton of 25 and distribute to individual DBF teams (\$108)
 - Need formal approval from all officers → Need to email Caroline
 - Yes from Osa, Allison, Hiro
 - Ryan Hart
 - unsure of next steps for Northeastern chapter
 - Will keep Umanga in the loop in terms of funding or assistance from the section
 - Discussion with Chris?

- about students w/o student chapter affiliations and defunct chapters (to see if we can revive the section)
 - reaching out to community colleges (to see if they are interested in building an aerospace club) → supported by Chris N
 - Updates on the events for college students without a student chapter
- College Branch Activities / Updates from Advisors
 - WPI-AIAA/WoAA (Kirsten / Kevin / Prof. Blandino)
 - WoAA activities
 - WPI AIAA chapter activities
 - UAV/Drone
 - Model Rocketry
 - Jet Engine Project - no update
 - High Power Rocket Club activities
 - Middlesex Community College (MCC) - Model Aviation Club (Christian)
 - First meeting today
 - 2 women joined the club
 - Fall Fest next week: an opportunity to promote the club
 - Meeting virtually on Thursday, and Workshops in person every other week.
 - New equipment
 - desktop wind tunnel
 - 4 FPV micro drones (tiny whoops, with googles and transmitters)
 - Design, Build, and Fly Model Aircraft (for underserved communities)
 - 11th grade girls (only) → accept 10th, 9th grade girls if there are openings
 - Registration closes on September 30
 - Starting Sat, Oct 16
 - Kit w/ low-cost materials (\$30-\$40); keep it accessible
 - <https://beaverworks.ll.mit.edu/CMS/bw/Saturdays>
 - Chris, Bob → send link to Daryian (Civil Air Patrol), send to Endri[1] Programs and link to registration form sent to Daryian, Jeff and Endri
- STEM / K12 Outreach
 - Aero-Robotics Competition (Allison)
 - Update on the recruitment campaign
 - Recruited 9 local teams, MA, Maine
 - Hosted an info session, very well-attended
 - Official kick-off October 1, 2021
 - Registration closes October 25, 2021
 - Any need for help / volunteers?
 - Over 28 volunteers signed up. Will be reaching out to confirm commitment and also begin to match mentors to teams
 - Recruited 3 co-coordinators
 - Speaker Series coming up - Maggie Frost (Search and Rescue Helicopter Pilot)
 - Send Hiro Important Dates to pub to AIAA section[2]
 - Send Hiro email about AIAA NE funding for ARC NE[3]
 - MIT-LL Beaver Works Summer Institute (Bob Shin & John Blandino)
 - Update from AIAA foundation

- Promotional video: <http://web.mit.edu/webcast/beaverworks/s21/>
- Launch in October; waiting on MOU from AIAA
- Online course will be available by the end of the month
- Run in conjunction with SWE and NSBE
- Bob Shin → mentor recruitment
 - Mentor acceptance form (superstar mentor forms to streamline experienced mentors)
 - Looking for “super mentors” w/ technical experience or are willing to learn
- John Blandino: extract 5 slides to provide context to students/potential mentors
- \$250 STEM Grants (Endri)
 - Marblehead HS student joined AIAA
 - Greg Merritt @ AIAA Foundation has been in contact
- Professional Development & Outreach (Hiro)
 - Technical Courses:
 - Sustainable Aviation (Charlie)
 - Pay for a particular course? No one volunteered to take it
 - Others: Space / Commercial Space / Hypersonic / AI / Advanced Manufacturing
 - Zoom Webinars (Hiro)
 - Date: Sept/30th - Steve Lee – Cyber Security Webinar (Naveen)
 - AIAA Aerospace Cybersecurity Program Manager
 - Everything is ready for Steve Lee
 - Oct/26th - Dr. Michael Winters, Raytheon (Phoenix)
 - Leader in sustainable aviation and aerospace propulsion
 - Senior Fellow, Advanced Technology, Pratt & Whitney/Raytheon
 - Phoenix talked to Raytheon contact. Everything should be squared away
 - Potential speakers:
 - Dr. Nate Richards: UAS & AI related topic (Hiro)
 - Hiro to contact GE GRC (Additive Manf technology, e-propulsion, etc)
 - Hiro to contact MagniX Aero, leading E-propulsion company
 - Hiro to contact Orbitfab – Gas station in space
 - Contact Hiro with any ideas → create idea google form??
 - Open dates for 2021-2022 available from: [0. AIAA-NE Zoom Webinar Plan.xlsx](#)
 - Other:
 - Posting for Hydrogen Panel recording & possibility of producing a booklet (Albert)
 - Hiro will contact Albert to see if there are any updates
- In-person event for 2021/2022:
 - Events in planning:
 - Mid-Oct: Mass Air & Space Museum in Hyannis & Lunch at BarbyAnn’s (Jeff)
 - Saturday, October 16 @11:30am-1:00pm. They can take up to 30 people
 - Lunch after

- Pratt & Whitney Hangar Museum Tour (Hiro)
 - Contacted curator in early 2022 – Opening to public TBD.
- Proposed Events:
 - Collings Foundation – STEM Day with Students (June 2022)
 - New MIT Museum visit (April/May 2022)
 - Boeing / Aurora Flight Science office visit (Above the MIT Museum) (TBD)
 - New England Air Museum, Windsor Locks, CT <https://www.neam.org>
- Honors & Awards
 - Update on Honors & Awards nominations (Charlie)
 - Sending out flame awards to officers, Bob Shin, speakers
 - Plan a get together / event for award celebration (Hiro)
- Other comments
 - Chris: AIAA New England Merchandise?
 - Umanga: section award; supposed to receive certificate and cash award?
 - Hiro will check on the status of this

3. Other

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