

Minutes of Meeting

Time & Date: 7:00pm, Thursday, June 17, 2021 (Next meeting is scheduled for June 17th, 7 pm)

- Zoom Meeting: <https://aiaa.zoom.us/j/95963441809?pwd=TjdUODZOSndiOkl2amlRaEdSNEo5dz09>
- 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, Hiro Endo, Caroline Lamb, Endri Lesha, Bruce Mackenzie, Albert Moussa, Christian North, Idahosa Osa Osaretin, Jess Reid, Phoenix Tom Robbins, Bob Shin, Allison Tsai, Naveen Sri Uddanti, Charlie Wilson

Apologies: Kristen Bowers, Jeffrey Mobed, Joe Vornham, Umanga

1. Opening Remarks & Administration (Charlie)

- 2021-2022 kick-off
 - Review of AIAA-NE mission/goal statement
 - Refine goal statement to “support student branch activities”
 - Refine statement in support of graduate students to be more open ended and general in nature
 - Update AI terminology to “AI/ML/Autonomy” to represent common industry terms for artificial intelligence and machine learning
 - Activities & events planning for the season
 - Hiro presented a first pass schedule for the 2021/2022 planing year; Gantt chart template well received by Council
 - Budget allocation
 - First pass budget template presented by Hiro; please send budget proposal to Hiro
 - Targeting a spend of ~\$10k for FY22; burn down some of the carry-over funds from previous years
 - Charlie presented the strawman budget included in our annual audit. It recommends we spend \$10,500-10,760 in FY22
- Finances / Expenditures (Osa / Dave Guo)
 - No further update presented
 - Proposals for spending should be sent to Hiro
- Newsletter (Jeff / Charlie)
 - Draft of summer newsletter forthcoming

2. Reports by Committee Chairs & Volunteers:

- Diversity, Equity & Inclusion (Osa, Charlie, Endri)
 - Reachout to NSBE advertising upcoign talk by Jim Kuchar
 - Working with “Empower Yourself” to reach Brockton and Boston public school students; working to get them laptop donations from MITRE to support students learning coding

- Working with Cedric, leader of Empower Yourself
 - Request to provide role models for students to familiarize them with practicing engineers; socialize path to an engineering career.
 - We don't need to spearhead these events; contributions are just as valuable if we partner or participate in events organized by other organizations (eg. NSBE)
- Christian North shared the "Underwater Dreams" documentary as potential activity to inspire and engage students; JPL documentaries as another possible source of material to engage and inspire students
 - Christian to share these documentaries via Engage
 - Offer \$250 grants to educators or student groups who are inspired
- College Outreach (Umanga)
 - Watch party during AVIATION Forum.
 - Events for college students without a student chapter.
- College Branch Activities / Updates from Advisors
 - UMASS (Prof. Sherwood)
 - No update
 - BU (Prof. Grace)
 - No update
 - WPI-AIAA/WoAA (Kirsten / Prof. Blandino)
 - WoAA activities
 - Not much is going on for summer, but we continue to plan for this upcoming school year
 - WPI AIAA chapter activities
 - Switching communication platforms soon for easier communication
 - UAV/Drone - Purchasing drone kits for upcoming academic year
 - Model Rocketry - Preparing to attend rocket launch once school starts to get people L1 certified
 - Jet Engine Project - Some people remain on campus over summer to work on the project - additional updates via email forthcoming
 - High Power Rocket Club activities - Hosting summer workshops in CAD, Programming (Python), Controls, FEA (Ansys), and CAM (Esprit)
 - Testing electronics from this competition year and preparing designs for the upcoming competition year
 - DMF - Solar wing project continuing over the summer/upcoming school year
 - Middlesex Community College (MCC) - Model Aviation Club (Christian)
 - Contacted UML to start process to have an adjunct AIAA student branch associated with UMP; progress slow as most people are gone for summer
 - Request to donate Tello drone to NSBE (Mr. Gatera) for ARC project
 - Request for AIAA to donate 1 Tello drone to support team practicing in advance of competition

- MIT (BWSI) has ordered 4 drones for evaluation in advance of using them for upcoming BWSI course; will provide one Tello drone to Mr. Gatera
- Allison indicates the Council has one spare Tello drone from last year
- Request made the Mr Gatera formally requests Tello drone from Council

- STEM / K12 Outreach
 - Aero-Robotics Competition (Allison)
 - Prizes have been sent out
 - Deep in planning phase for next season: goal for 10 teams in New England Region (pending COVID)
 - Will be both autonomous and semi-autonomous portions to competition
 - Allison offered to add schedule details for ARC into the AIAA gantt chart schedule
 - Request made for high school educator contacts in advance of August kickoff
 - Bob Shin offered to forward an announcement to the MIT PK-12 email list
 - Osa asked to be included on announcement; offered to forward on to Brockton schools
 - Christian inquired about mentorship qualifications - Allison to provide Christian information on volunteering for ARC - information could be included in newsletter Christian plans to send to his club
 - MIT-LL Beaver Works Summer Institute (Bob Shin & John Blandino)
 - Summer course development this summer: building a cubesat
 - Goal is to make the course available this Fall
 - Targeting 20 teams (up to 5 students) with goal of a competition in the Spring
 - Waiting on MOA between MIT and AIAA
 - Work to-date has been on ironing out language and templates for web pages, volunteer forms, etc. Much of this can be finalized once the MOA is signed.
 - Goal is for this partnership to expand beyond New England to include a significant portion of Region 1
 - Meeting schedule with Region 1 Direction; K-12 director
 - Desire to coordinate support in future years
 - Course cost \$15k - most of the cost is in the \$250 kits provided to each team and to mentors; targeting 20 teams across Region 1
 - To date - kits have been procured and assembled by BWSI staff/volunteers
 - BWSI looking to partner with a local company to outsource kit assembly
 - \$250 STEM Grants (Endri)
 - No additional activity to report since last meeting
 - Recent exchanges with educators focused on summer camp opportunities; BWSI opportunities
 - Potential opportunities to fund K-12 membership fees and use the \$250 STEM grants to offset BWSI kit costs - Osa took a note to add this to the 21/22 budget plan

- Professional Development & Technical Courses:
 - Sustainable Aviation (Charlie) / Space System & Technologies / Hypersonic / AI & ML / Other
 - How much does it typically cover? ~\$200.

- Allison attended a Sustainable Aviation course last year, and she presented an excellent summary to the council.
- MIT-LL also offers courses on cubesat and autonomous UAV courses for \$165/course - If you're interested, please inquire Bob Shin for more info.
- Send email to officers to inquire if you have any course(s) that you're interested in.
- Zoom Webinars (Hiro)
 - June 24: TCAS seminar with James Kuchar of MIT LL
 - Hiro had a rehearsal session with Dr. Kuchar. All set to go on 6/24.
 - The webinar date sent around with the council meeting invite was wrong (6/27) - it should be 6/24.
 - July 1: Proposed date for Hydrogen in Aviation Panel (arranged by Albert Moussa of BlazeTech)
 - Albert thanked Allison, Caroline and Hiro for help setting up the panel session.
 - Hydrogen aviation is a hot topic of the day - Airbus just announced a plan to build the H2 plane...
 - Ideas for Aug/Sept & future zooms?
 - Charlie offered to look into inviting a distinguished lecturer from the AIAA list.
 - Phoenix and Endri offered to look into his contacts.
- In-person event for 2021/2022:
 - Events in planning:
 - Aug/28: Mass Air & Space Museum in Hyannis & BBQ Lunch (Jeff)
 - No update for tonight - both Umanga and Jeff are out.
 - Astronomy Night on the Cape proposed (Endri & Jeff)
 - Endri is still looking for a suitable venue...
 - Send around an inquiry on the AIAA Engage network?
 - Sept/Oct: Pratt & Whitney Hangar Museum Tour (Hiro)
 - Hiro started to plan the event in Fall 2021.
 - Scheduling the event to sync with the academic activities so that we get more college students to attend the event...
 - This is also a great event to get STEM and DEI educators involved.
 - Proposed Events:
 - Collings Foundation – STEM Day with Students (Late summer, Fall 2021, or June 2022)
 - New MIT Museum visit (April/May 2022)
 - Boeing / Aurora Flight Science office visit (Above the MIT Museum) (TBD)
 - Science Day (TBD)
 - Agenda:
 - Confirm the event dates & launch promo campaigns (cross-promote to DEI/STEM/Colleges).
 - Work towards sending out the event notice (and an event plan) ahead of time so that students, STEM & DEI educators can incorporate them into their plans.

- Honors & Awards
 - Set up a certificate (or token) to thank the webinar speakers who volunteered to support our zoom sessions (Hiro).
 - Set up awards to recognize and promote leadership figures in college branches, STEM, and DEI educators.
 - Need to develop a criteria and a list of candidates in each area...

3. Other

- Naveen is interested in volunteering! - Proposal is to work with Charlie to set up the distinguished lecturer session.
- Next council meeting on July 22, 7:00pm-8:00pm.