

Meeting Minutes

Time & Date: 7:00pm, Thursday, April 21, 2022

- Zoom Meeting: <https://aiaa.zoom.us/j/98799607872?pwd=YjZOQzExWHZPdnhLWmhmbFRUdFh5UT09>
- 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>

Attendees: Christian N, Endri L, Charlie W, Kevin B, Osa O, Shreyas H, Hiro E

Apologies: Allison T, Caroline T, John B, Phoenix R

1. Opening Remarks & Administration:

- Opening Comments / Highlights since the last meeting
 - Welcome Kevin – from History Committee!
 - Congratulating Kirsten Bowers – Starting her new job with Blue Origin!
 - Election for next officers and activity chairs are started – nominations are open until 4/22.
 - Closing the slate for candidates this week and making an announcement.
- Finances / Expenditures (Osa)
 - Plan to budget ~\$8,500 per year (\$1,000 more than our rebate) and spend down the reserve to ~\$10,000 over time.
 - Please contact Osa and Hiro for any proposals for next season's budget!

Account Status Update:

- Expecting Section Rebate (FY22): \$0
- Current FY22 Section Income: \$7,491.86
- Current FY22 Section YTD Expense: \$5,432.32
- Current account balance: Checking \$8,419.43; Savings \$15,013.83; Total \$23,433.26
- Budgeted/actual expenses to date: Budgeted \$10,500; Actuals \$5,432.32; Expected (includes pending) \$8,132.32

Key Expenses for the Month (\$14.45):

- \$14.45 PayPal Surcharge

Pending Expenses (Council-approved):

- AIAA-BWSI CubeSat Challenge \$2,500
- AIAA NE College Visits \$200

Upcoming Expenses (Submitted to Council for Approval)

- Buy more AIAA swags – 100 bottles: \$11.40 each (\$1,140)
- AIAA brochures: 100 copies \$116.71
- Reimbursing Charlie's travel expenses for the college visits.

AIAA-BWSI CubeSat Challenge Sponsorship Report

- Donation by Lockheed Martin completed: \$7,500 paid directly to MIT BeaverWorks

2. Reports by Committee Chairs & Activity Leads:

- Newsletter (Jeff / Charlie)
 - Printer can proceed with new pdfs supplied by us - we have a lot to say.
 - Charlie will ask Jeff to send him the draft as is, and plan to finish it.
- STEM - K12 Outreach / Diversity, Equity & Inclusion
 - Aero-Robotics Competition (Allison)
 - Competition is Saturday 4/23! We invite and encourage everyone to attend!
 - Allison will document as much as possible so we can feature ARC in an upcoming newsletter.
 - Charlie will be bringing 20 AIAA water bottles to the competition.
 - Volunteer judge positions are all filled (With AIAA New England members).
 - MIT-LL Beaver Works Summer Institute (Bob, John & Christian)
 - CubeSat challenge: Design Review happening over this week (John, Peter & Hiro).
 - A very demanding challenge for Highschoolers – We are seeing some impressive work.
 - Lockheed Martin sponsorship (\$7,500) received!
 - MIT-LL Beaver Works - Introduction to RC Model Aircraft Design (Christian).
 - Christian gave a presentation of the course – very impressive work.
 - Just completing the course for girls.
 - Start a new one in May. Enrolling ~35 students.
 - Christian to send some promo info to Hiro, and he will post it on the engage.
 - \$250 STEM Grants (Charlie)
 - No new application.
- College & Corporate Outreach (Phoenix & Charlie)
 - Corporate Outreach:
 - Phoenix has sent an email to Mr. Ryan Farley, General Manager at Spincraft MA regarding AIAA student career fairs – waiting for a response.
 - Lindsay Mitchell of AIAA told Phoenix that the AIAA corporate member team passed my information to a few of their member organizations in Boston: Flexcompute, Spincraft and Charles Stake Draper Lab.
 - Phoenix has contacted an Environmental Health and Safety person at Raytheon Technologies regarding a "Green Energy Webinar" (2nd attempt). She has been busy but said that I may follow up with her in late May 2022.

- Phoenix has sent an inquiry to a Raytheon Technologies communications person regarding hypersonic and has yet to hear back from him. He plans to follow up with him, or others at the organization early next month.
- Phoenix has sent an inquiry to Raytheon Technologies Talent Acquisition regarding AIAA career fairs and curricula. Spoke with a Raytheon Technologies Talent Acquisition representative on or about April 18, 2022. She plans to speak with her manager if she has not done so already. He plans to follow up during the week of April 25, 2022.
- College Outreach:
 - 3 Student Branches visited:
 - SNHU (3/31), UML (4/11), and WIT (3/18) visited so far.
 - AIAA material for MCC delivered, zoom today.
 - WPI visit 5 pm April 28 - **ALL INVITED!**
 - Meeting with Prof. Grace (BU) and BU Rocket Group (Hiro)
 - Had a zoom call with Prof. Grace and Lindsay, and discussed:
 - BU student branch situation:
 - It has been dormant after the COVID shutdown & remote work... Struggling to engage students.
 - Current student Chair has been very active in the past, but she will be graduating and moving on.
 - Looking into re-engaging and energizing when new leadership team is installed...
 - AIAA NE could be a help when the time comes.
 - BU Rocket Team – Sponsorship inquiry
 - Interesting and worthy opportunity, however, no one in the group is an AIAA member.
 - The National office advises that we should try to get students to join AIAA before agreeing to sponsor the group.
 - Prof. Grace will talk to Dr. Caleb Farny, who is in charge of the group.
- College Branch Activities / Updates from Advisors
 - WPI (Kirsten)
 - HPRC is doing very well. We had our first test flight of the new recovery and avionics system and it worked beautifully! Right now we're on final assembly for both rocket and payload.
 - The DBF team is currently at the competition in Kansas right now.
 - The jet engine project is meeting and working on transferring knowledge to younger members. Peter and his team have been successfully running the engine at Test Devices.
 - UAV continues to meet and fly in the park when there's nice weather.

- Model Rocketry is launching tomorrow in Amesbury and taking over 15 people to get certified.
- Projects continue to have individual teams work on their individual projects.
- WoAA continues to have weekly professional and fun meetings.
- Middlesex Community College (MCC) - Model Aviation Club (Christian).
 - Had a zoom session with Charlie.
 - Kirsten and WPI Rocket Team gave an awesome presentation. It was inspirational.
 - Planning a zoom webinar with Prof. John Blandino next week.
 - Christian would like to request a grant to buy RC model plane parts to jump-start the MCC Model Aviation Club.
 - transmitters & receivers (qty 5), RC Flight Simulators (Qty 2), Flite Test Ez-Glider pre-cut foam glider (novice, pack of 5), and Flite test Mighty Mini Tiny Trainer (Qty 5, Intermediate skill level).
 - The reason we are requesting a second simulator transmitter (dongle version) is that this one being a real transmitter can be used as a tandem system for training purposes with a real instructor.

- Professional Development & Outreach

- CVD - Congressional Visit Day (Phil)

- Total number of participants: 8 (from CT-1, MA-5, ME-1, and NH-1)
 - Number of participants that were students: 1
 - Number of participants that were Educator Associates: 1
 - Total number of congressional office meetings: 14

- Zoom Webinars (Jason / Shreyas / Phoenix)

- James Webb Space Telescope, April 14th (Shreyas)
 - 15 attended. An excellent session was given by Dr. John Durning (NASA Goddard SFC).
 - Need to understand why only 15 participated for such a high-profile topic... What can we do to attract more audiences?
 - We could contact college branches directly – So far, we see more professionals and not many students attending our past sessions...
 - Promote the event more on LinkedIn and other social media?
 - Charlie and Kevin are going to look into a speaker in relation to the Ukraine war situation. Proposed topic “What happened to the Aero workers and the industry in Ukraine?” Kevin knows a Ukrainian Professor from Texas A&M – he may be a good speaker candidate...

Upcoming Speakers:

- 5/05: The history of GE CFM56 by John Blanton (Shreyas)
 - 5/26: Hypersonic Aeroelasticity by Prof. Earl Dowell (Shreyas)
 - 7/28: Operation Sandy, ties about the V2 Rocket by Kevin Burns (Endri)
 - 8/25: The Next Aeronautics Revolution by Vanessa Aubuchon (Jason)
 -

Potential speakers:

- Sept 2022: “Forty Years on the Bleeding Edge of Technology from an Aerospace
 - “I’ve Got a Great Design...Now, How Do I Sell It?” by Angela Trego (Jason)
 - Engineer’s Perspective” by Daniel Adamo (Jason)

- In-person event for 2021/2022:

- Proposed Events:

- Collings Foundation – STEM Day with Students (June 2022)
 - Hiro reached out to Hunter Chaney (Director of Marketing). He would welcome AIAA to participate in the “Wheels & Wing” event planned in June.
 - Reach out to college branches and organize student projects & STEM displays (Hiro).
 - Pratt & Whitney Hangar Museum Tour – Shreyas to contact John Zepp and make an inquiry.

- New MIT Museum visit – Revisit the opportunity with Dr. Douglas later – Targeting fall 2022.
- New England Air Museum, Windsor Locks, CT <https://www.neam.org>

3. Other

- Next meeting is scheduled for May 19th, 2022. 7:00-8:00pm.