Meeting Minutes

Time & Date: 7:00pm, Thursday, Feb 17, 2022 (Next meeting will be on Mar 24, 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

Attendances: Shreyas, Charlie, Jeff, Antonio, Bruce, Christian, Drew, Jason, Ken, Kirsten, Osa, Phoenix, Ian, Hiro
Apologies: Caroline, Allison, John, Umanga

1. Opening Remarks & Administration:

- Opening Comments / Highlights since the last meeting

  Introduction & welcome to newcomers:
  - Antonio & Tony Inniss
  - Ken Knopp
  - Drew Breuder

- Finances / Expenditures (Osa)

  Account Status Update:
  - Current FY22 Section YTD Income: $7,491.86
  - Current FY22 Section YTD Expense: $5,417.87
  - Current account balance: $23,302.47

  Income for the Month:
  - Donation for AIAA-BWSI CubeSat Challenge from Ravi Deepak/JoSSonline: $400

  Key Expenses for the Month ($1,547.39 total):
  - STEM Grant to Williston Central School, VT: $250.00
  - Engraved AIAA NE Awards: $697.39
  - Brockton High School ARC Team B Kit Drone: $600

  Pending Expenses (Council-approved):
  - AIAA-BWSI CubeSat Challenge: $2,500

New AIAA NE PayPal Donation Link
- https://www.paypal.com/donate/?hosted_button_id=CNG28XUV85DF4
- QR Code
2. Reports by Committee Chairs & Activity Leads:

- **Newsletter (Jeff / Charlie)**
  - 8-page draft newsletter is prepared. Updating some info in the document.
    - Sending a draft to everyone
    - Please send Jeff for any updates and additions (draft copy is attached) -
      [cjw01776c@gmail.com](mailto:cjw01776c@gmail.com) / [jeffrey@nehydropower.com](mailto:jeffrey@nehydropower.com).
  - Send some WPI HPRC & BHS visit pics to Jeff (Kirsten)
  - Update on BWSI Cubesat Challenge (Bob/John/Hiro)

- **Honors & Awards (Charlie)**
  - 15 glass awards sent out to recipients - Thank you & congrats to the award recipients!
  - Bill submitted to Osa.

- **STEM - K12 Outreach / Diversity, Equity & Inclusion**
  - Aero-Robotics Competition (Allison) - No update.
  - MIT-LL Beaver Works Summer Institute (Bob & John)
    - CubeSat challenge kicked off on Feb 12. Students working on virtual courses now.
    - Received a donation from Ravi Deepak/JoSSonline: $400
    - Lockheed Martin sponsorship ($7,500) – WIP

- **$250 STEM Grants (Charlie)**
  - $250 approved for Allan Miller, Williston High School
    - Purchasing the Tello drones to launch after school drone program. In addition to existing robotics and rocketry programs.
    - NOTE: Allan is x2 times the NASA astronaut candidate. Amazing educator. We should recognize his work in some form...
  - $250 approved for Suzanne Schedin, Heron Pond Elementary School, Milford NH
    - Purchasing material for students to make straw rockets and teach the Newtons laws...
- **$600 approved for Brockton High School**
  - Purchasing a kit drone for the second team for ARC. Students have been sharing a drone, but it is becoming challenging to do so with the expanded team size...
  - Alex Friess (U Maine) has made an inquiry about the grant. He would like to use it to buy a drone to teach students at Bangor High School.

- **Mass Air and Space Museum**
  - Apollo/Orion heat shield samples: Jason has gotten Charlie in touch with a rep from TEXTRON to arrange the donation.
  - E-mail sent out to Region-I contacts asking for any donation for Aerospace article to the museum. The museum is opening a larger facility in Hyannis and looking for more items for the exhibit.
  - Please contact Charlie or Jeff if you have any items that you would like to donate to the museum’s exhibits (cjw01776c@gmail.com / jeffrey@nehydropower.com).

- **College Outreach (Charlie / Umanga)**

- **Wentworth (WIT) visit**:  
  - Scheduled on March 02, 2022, 12:00pm
  - Charlie and Bruce are planning to visit the WIT
  - Inviting more people to join the visit – please contact Charlie for more info (cjw01776c@gmail.com)

- **College outreach work - updates below (Umanga)**:
  - He has made initial contact with most of the student branches.
  - Multiple attempts to reach out to RPI (NY), but no response so far...

<table>
<thead>
<tr>
<th>College</th>
<th>Student Branch Chair/Officers</th>
<th>Advisor</th>
<th>Is advisor active?</th>
<th>Response Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston University</td>
<td>Kathryn Moslen</td>
<td>Prof. Sheryl Grace</td>
<td>very</td>
<td>New Officers still being sorted out - current contacts: Hannah Rafferty, Rashid Kolagassi, Martin Dino</td>
</tr>
<tr>
<td>MIT</td>
<td>Shannon Cassady</td>
<td>Prof. David L Darmofal</td>
<td>never</td>
<td>In Contact</td>
</tr>
<tr>
<td>Northeastern University</td>
<td>Becky Johnston</td>
<td>Dr. Andrew Gouldstone</td>
<td>couple of times - yes</td>
<td>Becky Johnston is the new President</td>
</tr>
<tr>
<td>Southern New Hampshire University</td>
<td>Rasheed Ricardo Blake</td>
<td>Dr. Xinyun David Guo</td>
<td>very</td>
<td>In Contact</td>
</tr>
<tr>
<td>University of Maine</td>
<td>Jack O'Kelly</td>
<td>Dr. Alexander Friess</td>
<td>very</td>
<td>In the process of rebuilding the section - Jordan Bailey was leading a little, Dr. Friess currently working on a meeting of interested students in early September -</td>
</tr>
<tr>
<td>University of Massachusetts - Lowell</td>
<td>Kyle Fielder</td>
<td>Prof. Marianna Maiaru</td>
<td>don't know</td>
<td>Prof Maiaru is not advisor - prof wills now is</td>
</tr>
<tr>
<td>University of Vermont</td>
<td>Anthony M Julian Louisos</td>
<td>Dr. William F Louisos</td>
<td>don't know</td>
<td>Reached out to both Anthony and Dr. Louisos without a response - will reach out again</td>
</tr>
<tr>
<td>Wentworth Institute of Technology</td>
<td>Katerina Koukounaras</td>
<td>Dr. Hafsa Salman El-Sadi</td>
<td>yes</td>
<td>In Contact</td>
</tr>
<tr>
<td>Worcester Polytechnic Institute</td>
<td>Kirsten Bowers</td>
<td>Dr. Zachary R Tailfer</td>
<td>expect him to be</td>
<td>In Contact</td>
</tr>
</tbody>
</table>

- **BU Rocket Group (BURG) Team Sponsorship (Jason)**
  - Textron reached out to students and is working on arranging a visit.
  - Hiro e-mailed the team leader in response to test facility usage. No reply yet...

- Charlie and Bruce working on a plan to visit MIT and engage with the student branch.
College Branch Activities / Updates from Advisors

- WPI (Kirsten)
  - HPRC
    - Preparing an AIAA-NE Grant Proposal – almost ready to send it.
    - Lake Winnipesaukee launch – Cancelled due to warm weather
    - Test launch is scheduled on St. Albans, VT on Sunday, February 20th.
  - WPI Turbine Project
    - Progressing. Started to purchase material and to build HW.
    - Kirsten is passing on the leadership to next-gen student leaders.

- Middlesex Community College (MCC) - Model Aviation Club (Christian).
  - Unfortunately, in-person events are canceled for now due to COVID.
  - Organizing a virtual session to keep the students engaged.
  - Looking for more student DBF groups, Academics, and Professionals to give the group presentations. Please contact Christian North (christian.northq@gmail.com).

Professional Development & Outreach

- Upcoming CVD (Congressional Visit Day)
  - Recruiting for the event on March 14th.

- Zoom Webinars (Jason / Shreyas / Phoenix)
  - Next Speaker: Feb/24th - Once was Arrow by Walter Gordons (Jason).
    - Dry run on Monday 2/21.
  - Upcoming Speaker: James Webb Space Telescope, scheduled on 4/15 (Shreyas).
    - Preparing promo material and campaign now...
  - Searching for more speakers. Please contact Jason/Shreyas/Phoenix/Hiro for any ideas.

In-person event for 2021/2022:

- No update - All on hold due to COVID situation:
  - Proposed Events:
    - Pratt & Whitney Hangar Museum Tour
    - New MIT Museum visit (April/May 2022)
    - Collings Foundation – STEM Day with Students (June 2022)
    - Boeing/Aurora Flight Science office visit (Above the MIT Museum) (TBD)
    - New England Air Museum, Windsor Locks, CT [https://www.neam.org](https://www.neam.org)
3. Other

- Charlie presented an analysis of membership demography (below), and addressed the following points:
  - There is a significant drop in membership from 20-25 years old (college members) to 25-30 years old (Young Professionals). We need to do more to improve the retention rate...

  ![Membership Analysis Graph]

  **MEMBERSHIP**

  - Analysis of member ages from January 2020 roster: 1170 members, 1070 in our geographic area
    - Min.: 13 years old
    - 1st Qu.: 27 bottom lowest 25%
    - Median: 43 dividing point between bottom and top 50%
    - Mean: 45.7
    - 3rd Qu.: 60 75% are below this
    - Max.: 101

  See that emphasis of 20 to 25 years old members would make sense

  **Analysis of member geographic distribution**

  Being worked with Region I

- **Volunteers wanted**! We are looking for a volunteer to lead STEM K12 outreach work. If you’re interested, please contact Hiro (hendo@testdevices.com).