MINUTESPLASMADYNAMICS AND LASERS TECHNICAL COMMITTEE AIAA SciTech 2024Wednesday, 10 January 2024; 1900–2100 Eastern (USA)

Celebration 16*Virtual* via Zoom: [Zoom Link](https://purdue-edu.zoom.us/j/94352137640?pwd=clZyY3MxUFVRR0FEdmtFOGxKaEc5UT09)

1. **Introductions and Welcome** –Sally Bane, TC Chair
2. **Approval of Minutes from Last Meeting**

* Azer moves, Stanislav seconds, approval of minutes by unanimous vote

1. **Opening Remarks**
2. **AIAA Officials and Staff Updates (~7:30-7:45 pm)** – Dr. Steve Beresh, ASG Deputy Director

* Main topic of conversation with Steve was the new requirement to have at least one student TC member
* Variety of strong opinions expressed by TC members, will work to collect input from the TC for later discussion
* Asked Steve to provide some ideas/guidance about how to incorporate student members into TC activities, suggested that AIAA might provide more growth and leadership opportunities for these student members outside the TC

1. **Subcommittee Reports**
   1. Steering Committee: Trevor Moeller / Sally Bane
      * Sally wants to initiate a discussion on reorganizing the TC with actual subcommittees so that big tasks (awards, etc.) do not fall on only one person
      * Did not have much time to discuss, but overall the TC seemed receptive to this idea; Sally will follow up with current subcommittee “Chairs” to solicit their input
      * Will add to the AVIATION meeting agenda for further discussion
      * Angie Lander visit:
        + Discussion about abstract/publication requirements
        + Angie: this is a bit out of her area of knowledge, suggests bringing up to our group director (Martiqua), publications committee
        + If you submit the paper to another journal and they pass it through a plagiarism detection software it will flag it
        + Nice that these papers count towards your Google Scholar
        + Azer: 100% disagrees, suggests that we have a group discussion about this before bringing the issue up to AIAA
        + Counterpoint: To graduate, need 2 published papers and AIAA conference papers don’t count
        + Angie: could invite speakers who don’t want to publish
   2. Membership: Sally Bane / Albina Tropina / Trevor Moeller
      * New membership applications
        + Philip Varghese
          - more active in discharge physics, works with Raja
          - Unanimous vote to offer membership to Philip
        + Ken Hara
          - Azer, Igor, Carmen Suo all spoke in favor of Ken
          - Unanimous vote to offer membership to Ken
        + Ravichandra Jagannath
          - Sally’s former PhD student, now works for KLA
          - Concern expressed that another recent new member is from KLA and has never participated; KLA does not encourage participation in AIAA conferences
          - Sally will contact Ravichandra to discuss and will update the TC
      * Member expectations
        + Sally will work with the Steering Committee and Albina (Vice Chair) to develop a short presentation on this topic before the AVIATION meeting
        + Please send any thoughts/comments to Sally
   3. Honors and Awards: Richard Miles
      * Nominations for the PDL award are due ASAP – deadline is next week, January 15th
      * Currently have 1 nomination, need at least 3 to give the award this year
      * Sally: suggests we should have an actual committee, Albina and Sergey seconds, but should discuss with Dick (Sally will follow up)
      * When is the deadline for letters? Azer – letter deadline is February 1
   4. PDL Best Paper Award: Azer Yalin
      * Best Paper will be selected from papers presented at AVIATION 2023 and SciTech 2024
      * Sally with ensure that Azer receives the session chair reports with best paper nominations, Azer will reach out to the TC to recruit judges
      * Please also send any nominations directly to Azer
   5. PDL Best Student Paper Award: Mark Rennie
      * Mark sent out the list of our student-paper competitors for SciTech ’24. Please watch as many presentations as you can, either live or recorded, and send Mark your feedback. The feedback can be as simple as a list of presentations watched and ranking from best to worst.
      * New “Chair” needed! – James Creel – thank you!!
      * Discussion on future of the award, procedures
        + Perhaps the student TC member(s) could help with administration of this competition?
        + Discussed implementing a sign-up system where each TC member attending the conference would sign-up to attending and evaluating at least 3 presentations
   6. Walter R. Lempert Student Paper Award: Chris Limbach / Sally Bane
      * Thanks to Chris for taking over this award.
      * Chris will send an email reminder after the conference.
      * Could we identify potential nominees from the abstracts and group the presentations in special sessions?
   7. Liaisons to other TCs:
      * Fluid Dynamics TC: Need a liason
      * Propellants and Combustion TC: Suo Yang
        + Have had many joint sessions
        + PC TC – spends money to do career panel, offer food to attract students to attend
        + PC TC members are highly supportive of including student members, already accepted all applications (1 or 2)
      * High Speed Airbreathing Propulsion: Suo Yang
        + Less overlap with our TC, but noticed this year there are several talks in their sessions that do have some overlap, potential for joint sessions in the future
        + TC members are also highly supportive of including student members, already accepted all applications (1 or 2); include students in abstract review, session chair
      * Electric Propulsion TC: Daoru (Frank) Han
        + One joint session with PDL, EP, ASE
        + Yesterday accepted 3 student members with unanimous approval; include students in abstract review, session chair
        + EP will likely go to Ascend instead of Aviation; Aviation technical chair cannot pull abstracts from Ascend and vice versa, makes it difficult to organize joint sessions
      * Atmospheric and Space Environments TC: Daoru (Frank) Han
        + See notes on EP TC above
      * Others
   8. AIAA Overall Domain Roadmap Subcommittee: Joe Zimmermann

* A couple more meetings coming up, none of us are interested in those topics/attending another meeting
  1. Plasma Aerodynamics Discussion Group Update: Sergey Leonov
     + “New Faces” session – not new to the TC/topic but have not presented before
  2. Short Pulse (ps and ns welcome) Laser Discussion Group Update: James Creel / Chris Limbach
     + James has agreed to step up and organize for this year
     + Last talk block on the last day – please attend! 3:30 on Friday
  3. Plasma Kinetics Discussion Group Update: Andrey Starikovskiy / Igor Adamovich
     + Ideas to encourage more discussion?
     + Suggestion: after speakers give presentations, have them sit on a panel and have discussion/question and answer
  4. Website/Publications/Engage.AIAA.org : Ariel Blanco
     + Invite students to the PDL public forum on Engage
     + If you want to post and promote your research you can do that on the public forum
     + Other TCs plan to have student members help with Engage, social meeting – extend our presence
  5. Education and STEM Outreach: Trevor Moeller
     + Nothing new to report
  6. Aerospace America Year in Review: Carmen Guerra-Garcia / Andrey Starikovskiy
     + Got 6 people contribute to YIR, lot of different topics that shows the breadth of our field
     + Thank you to Carmen and Andrey for another great article!

1. **Meetings**
   1. 2023 AVIATION (San Diego, CA): Bernard Parent – THANK YOU!
   2. 2024 SciTech (Orlando, FL): Suo Yang and Stanislav Gordeyev
      * Meeting was running very long, so Suo gave a very short update
      * See attached slides for details
      * THANKS TO SUO AND STANISLAV FOR A GREAT CONFERENCE!
   3. 2024 AVIATION (Las Vegas, NV): Albina Tropina
      * review deadline for abstracts is next week
   4. 2025 SciTech Deputy (ASG) Forum Chair: Sergey Leonov
      * Nobody is in touch with him yet
   5. 2025 SciTech Technical Discipline Chair (Orlando, FL): Stanislav Gordeyev

* Alexey Shashurin and Sally Bane will serve as deputies
  1. 2025 AVIATION: Andrey Starikovskiy, Ciprian (Deputy)
  2. 2026 SciTech: Alexey Shashurin and Sally Bane
  3. 2026 AVIATION: Ciprian volunteered – THANK YOU!

1. **New Business:** ???