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. **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
* Some TC members commented that AIAA prevents the contents of conference publications from being later submitted to journals. Yalin disagreed with this stating that, based on his recent emails, AIAA does/would grant needed permissions but the issue is if the journals themselves would accept contents previously presented at a conference. It was then discussed that AIAA journals are an option in this case, but there was dissatisfaction with their long reviews.
* Counterpoint: To graduate, need 2 published papers and AIAA conference papers don’t count
* Angie: could invite speakers who don’t want to publish

1. **AIAA Officials and Staff Updates** – 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
* Continuing from Angie Lander’s visit, there was also discussion on requesting that AIAA change the current format of long papers to a new (or alternate) format of shorter abstracts. Opinions on this were quite mixed with some individuals arguing this would help their students publish in other journals, and also that the current format limits the quality/quantity of submissions since some people prefer to hold back for journals instead. Other opinions were that the current long paper format is definitely preferred as it is very useful for graduate students to have the experience of writing (and presenting) these papers.

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
   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:** ???