

PATC Ottawa Meeting Minutes

Tuesday, May 14th, 2024

Chair: Chris Kube, kube@psu.edu

Student Rep: John Case, jac7175@psu.edu



- All links mentioned in this meeting have a unified QR code (above), password is 'pa'
- Student council rep: John Case update
 - Monday, first time attendee orientation: ~100 people attended
 - Student Meet and Greet: ~300 attendees!
 - Student informal outing (Level One Game Pub) ~80 attendees
 - Overall a very active student population at this meeting
 - Students, join SONIC as a guide to help first time attendees!
 - All, sign up for SMMFL (Students Meet Members for Lunch)!
- Metals and Awards: Jay Maynard
 - Email sent out asking for those who are within 10 years of degree for nominations for R. Bruce Lindsay Award
 - New Metals and Awards chair: Eugene (PSU) is stepping up after this meeting
- Standards: ASACOS, Greg Lyons
 - Any new ideas for standards, let him know!
 - Any common practices that could be standardized
 - Primary issue currently is the revision of standards (do this instead of just re-issuing old versions)
- Web Committee: Aaron Vaughn
 - Any notes on the website, let him (or John Case, jac7175@psu.edu) know
 - Slides, meeting minutes, and links are all on the website
- Membership: Kent Gee (Not Present)
- CIRDI: Feruza Amirkulova (Not Present) Andrea Argüelles will give a few remarks
- **Committee for Increasing Racial Diversity and Inclusivity in Acoustics**
 - Andrea is chair of CIRDI
 - Each TC has a rep to CIRDI
 - Several SURIA students in room!
 - SURIA is Summer internship and research program for undergrads
 - Think about hosting a student for summer 2025!
 - Need more sponsors, both industry and academic
 - Look for emails about SURIA mentorship
- Push for full membership
 - Non-students are encouraged to apply for full membership!

- PASS (Physical Acoustics Summer School)
 - Application for this summer has passed, but students are encouraged to sign up in the future
 - Many previous PASS students are in attendance
 - Joel Mobley: director of PASS
 - PASS is premier ever for PA that mixes grad students with distinguished lecturers
 - Held every 2 years, we encourage everyone who will be a grad student in 2 years to apply. New apps open up in 2025
- New fellows as of Fall 2023
 - **Michael Oelze** – for contributions to quantitative ultrasonic tissue characterization
 - **William C. Alberts, II** – for contributions to tactical infrasound and battlefield acoustics
 - **Ahmad T. Abawi** – for contributions to modeling underwater sound propagation and scattering
- Awards
 - **D. Keith Wilson** – Helmholtz-Rayleigh award, for contributions to computational acoustics, atmospheric acoustics and national defense and security
 - **Chris Kube** – for contributions to the understanding of ultrasonic propagation and nonlinearity in polycrystalline materials
- Ottawa Physical Acoustics Sessions
 - 11 Sponsored sessions
 - 10 Special sessions
 - 104 presentations in special sessions
 - 116 total presentations!
 - Developments and Applications in Phononic Crystals (8 Talks)
 - S. Hales Swift, Matthew Guild
 - ~40 people in the room on average!
 - Cyber Threats and Acoustical Systems (8 Talks)
 - Kavitha Chandra, Charles Thompson
 - Very successful, 4 talks from people who attended ASA for the first time, definitely more interest in more sessions like this
 - Infrasound (14 Talks)
 - Philip Blom, David Green
 - ~40 people on average in attendance
 - Another session is in the planning stages
 - Wind Noise (9 Talks)
 - Gregory Lyons, W.C. Alberts
 - Went well, ~35-40 people
 - A talk on contributions from Rich Raspett
 - Resonant Ultrasound Spectroscopy For Characterizing Material Property and Structure (13 Talks)
 - Christopher Kube, Matthew Cherry, Rasheed Adebisi, Jeff Rosin
 - Good progress in this subfield, follow-on from the Nashville meeting
 - Meteorological Acoustics (11 Talks)
 - Roger Waxler, Jelle Assink, Natalia Sidorovskaia
 - Characterization of Electronic Materials, Components, Devices, and Batteries (8 Talks)
 - Michael Haberman, Bogdan-Ioan Popa, Haley Jones, Lauren Katch
 - Acousto-Optic Sensing (12 Talks)
 - Carl Hart, Oleg Sapozhnikov, Yangfan Liu
 - Issues with people being sessions chairs of concurrent sessions

- Novel Methods and Applications in Nondestructive Evaluation (12 Talks)
 - Luz Sotelo, Matthew Guild, Joseph Turner
- Nonlinear Acoustics in Solids (9 Talks)
 - John Cormack, Christopher Kube
- Comments to take back to Technical Council?
 - Some issues with international visas, so some people were not able to make it to this meeting
 - Dan Russell – we all got an email when we were preparing slides to include closed captioning. However, none of the computers in the conference venue were set up to do this. Bring this to the AV crew when we are working with the venue?
 - Joel Mobely – no signs on the outsides of many of the rooms, makes it difficult to pop in and out of rooms, signs would be greatly appreciated as we have had in previous meeting venues
- Future Meetings
 - Virtual Meeting, Nov 18-22, 2024
 - 5 special sessions, and a session for general submissions
 - Frugal Acoustics, Luz Sotelo
 - Co-sponsored by EA
 - Focus on frugality and creativity
 - Student Video Competition, Joseph Turner
 - Ask Me Anything, Chris Kube
 - Original idea was to do a ‘Hot Ones’ (youtube channel) with a senior member of the society
 - Hot Topics in Physical Acoustics, Andrea Argüelles, Lauren Katch
 - Want a broad representation, if you have ideas, reach out
 - Acoustics at the Beamline, Ross Hrubciak, Blake Sturtevant
 - Format? Is this pre-recorded? Live questions?
 - Special sessions are a live format
 - General Session is live as well
 - All presenters are required to pay full registration, early-bird: \$250
 - \$25 fee to enable ‘watch part’ mode for non-presenter registrants
 - No registration cost for non-member invited speakers
 - Abstract deadline is TBD
 - Online platform is “We & Goliath”: <https://weandgoliath.com>
 - Student registration fee – not know yet, but should be less than full registration fee
 - Kent Gee – premise of this meeting was to have a well planned virtual meeting, but this seems anything but that. The communication on this meeting has been very poor, seems like a step back from what we are used to.
 - One reason to do this, was to “know how” to run a virtual meeting in the case that we were forced to in the future again
 - ***Guidance to come from PA chair in June***
 - New Orleans, Joint with the International Congress on Acoustics, May 19-w23, 2025
 - 15 Special sessions—some discussion on reducing this, as PA has more sessions than many other TCs (60 special sessions total, across all TCs, and PA has 15 of them). Open request to pair things down if possible
 - Joel Mobley – The Rich Raspert sessions is organized by Greg Lyons
 - Greg Lyons – want a strong list of speakers in the field for this session
 - Other special session
 - That’s not physics / Its not physics – Stephen Garrett / Chris Kube

- Celebrating Steven Garrett's fifty years of contributions in Acoustics – David Brown
- Acoustics of Fire: Modeling, Measurements and Ecological Effects – Shane Lymapny
 - Want to do that in the Honolulu meeting, based on research and when we can get speakers for a full session
- Acoustics metamaterials for underwater applications – Nicole Kessissoglu
- Viscothermal effects in phononic crystals and acoustic metamaterials – Jose Sanchez-Dehesa
- Acoustofluidics – James Friend
- Acoustics holograms and wavefront modulation techniques – Noé Jiménez
- Mesoscopics in Acoustics – John Yoritomo
- Nonlinear Acoustics NDT – Mourad Bentahar
- Meteorological Acoustics – Roger Waxler
- Infrasound – Philip Blom
- Nonlinear waves in architected solids – Vincent Tournat
- Acoustic radiation force and its applications – Mohamed Ghanem
- Honolulu, Hawaii, Joint with the Acoustical Society of Japan, December 1-5, 2025
 - Call for sessions:
 - <https://docs.google.com/forms/d/e/1FAIpQLScR3bUfHiRKZxb4v9tNN-g60Yzlag7TIDt8sthsy-DyMg3kA/viewform?pli=1>
 - Try to co-chair with Acoustical Society of Japan
 - If looking for co-chair from Japan society, contact Prof. Kenji Yoshida (Chiba University), ken-yoshi1980@chiba-u.jp for connecting with potential co-chairs (send session/topical details)
 - Philadelphia, Pennsylvania, May 11-15 2026
- Publications
 - Candidate for Acoustics Today editor being decided in Ottawa, to start CY2025
 - Position for new Editor-in-Chief of JASA (to start CY2026) is open
 - Special issues have been very important recently. Please continue to propose special issues and submit (see next slide for specifics) (these boost impact factor and downloads)
 - Publications: Special Issues
 - Open calls available here: <https://pubs.aip.org/asa/jasa/pages/specialissues>
 - Please let me know if you have any suggestions for future Special Issues!
 - Also, if you have any ideas for topics/authors for other JASA special content like reviews and tutorials.
- Other News
 - ASA Academy, Michael Vorlander, Fundamentals/Short Course in development, template to be forwarded to TC, 5-8 years will have ASA Academy with school/academy principle with strong industry ties
 - Want to organize a PA course on this, a survey has been put together that has been put out to practitioners
 - Aimed at practitioners
 - We want this to be a new revenue generator for the society
 - In its infancy, but we want to bolster this
 - A certificate will be issued
 - ASA School was very successful and in high demand (60 students out of 120 applicants)

- John Case - Very successful, many good opportunities to network with other senior grad students and young career professionals
 - Apply in the future!
- New business
 - Education in Acoustics becomes a TC at the end of the Ottawa Meeting!
 - It is available to become one of the top 3 TC on your profile
 - We need about 150 people to rate this as their top 3 -- go into your profile and update your interests!
- Meeting adjourned (37 minutes long)