

 ASA
ACoustics Society of America

Physical Acoustics Technical Committee Meeting

June 8, 2021
Chair: Joel Mobley
jmobley@olemiss.edu




Welcome

- **Everyone** sign in using the chat box
 - Name
 - E-mail
- **If you are a student, please indicate so**
- **If you are a first time attendee, put a * by your name**
 - *For example* → Chris Cross*, ccross@best.edu, student

New Student Council Representative

Ferdousi Rawnaque

- PhD student in Acoustics at Penn State
 - Julie Simon, advisor
- Has her MS in EE from U. Mass-Dartmouth
- Takes over from Blake after Seattle



New Attendee Introductions

- Name
- Your school, program of study and advisor
- Anything else you'd like to add
- **Please raise your hand using the Zoom response and I'll recognize you**

Recognitions



Congratulations!

Likun Zhang

- R. Bruce Lindsay Award

• *For contributions to the understanding of radiation pressure, acoustofluidics and the interaction between fluid flows and acoustic fields*



Congratulations!

Subha Maruvada

- Vice-President Elect



Traci Neilson

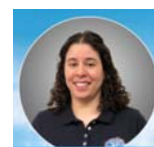
- Executive Council



Congratulations!

Alexandra Loubeau

- New chair of Noise TC



New Fellows

Greg Clement

- *For contributions to transcranial therapeutic ultrasound*



Matthew Urban

- *For outstanding contributions to the field of ultrasonic assessment of biologic tissue properties*



Congratulations!

Michael Moldover

Helmholtz-Rayleigh Interdisciplinary Silver Medal in Physical Acoustics and Engineering Acoustics



- *For establishing spherical acoustic resonators as the foundation of the Kelvin in the International System of Units*

In Memoriam

David T. Blackstock

February 13, 1930-April 30, 2021

- Gold Medal
- Silver Medal in Physical Acoustics
- (Mark will have some remarks at the end of our meeting)



<https://www.legacy.com/obituaries/statesman/obituary.aspx?pid=198555336>

Announcements

- **International Symposium on Nonlinear Acoustics (ISNA)**
 - Robin Cleveland, Mark Hamilton



- **Winter School on Therapeutic Ultrasound**
 - Moved to 2023
 - Vera Khokhlova



- **Physical Acoustics Summer School (PASS)**
 - Early summer 2022
 - University of Mississippi
 - Josh Gladden



Committee Reports

- **Student Council**
 - Blake Simon
- **Standards**
 - Greg Lyons
- **Membership**
 - Kent Gee (...currently on a plane)
 - **NEED Fellow nominations!!!** – had **ZERO** this time (one TC had 5)
- **Medals and Awards**
 - Jay Maynard
- **New Web Committee Chair? (was Alexandra)**



Special Sessions This Week

- **Acoustic Wave Propagation Through Polydisperse Scatterers**
 - Nick Ovenden, Eleanor Stride
 - Tuesday AM/PM
- **Sonic Boom: Modeling, Measurement, Annoyance and Standards Development**
 - Joel Lonzaga, Alexandra Loubeau
 - Wednesday AM/PM
- **Acoustical Methods and Sensors for Challenging Environments**
 - Cristian Pantea, Dipen Sinha
 - Thursday AM/PM



Meetings



2021

Acoustics in Focus

- Conference Chair: [Andy Piacsek](#); Technical Chair: [Anna Diedesch](#)
- **Thanks to Andy for a job well done!** (and Anna but she's probably not here)

Seattle, WA

- **November 28 – December 3**
- Conference Chair: Todd Hefner; Technical Chair: Aubrey Espan



2022-2025

2022 **Denver, CO**
 • 23-27 May

Nashville, TN
 • 5-9 December

2023 **Chicago, IL**
 • 8-12 May

2024 ???

Sydney, Australia
 • 6-10 December

2025 **New Orleans, LA (Joint with ICA)**
 • Chair: Mark Hamilton



Special Sessions – Seattle 2021

- **Session in Honor of David T. Blackstock**
 • Mark Hamilton, Tom Muir
- **Impact of Logan Hargrove on Physical Acoustics**
 • Preston Wilson, Ralph Muehleisen, Veerle Keppens
- **Infrasound**
 • Roger Waxler, Phil Blom
- **Wind Noise**
 • Greg Lyons, Kirk Alberts, Rich Raspet
- **Particle velocity sensing and associated signal processing**
 • Kirk Alberts, Ning Xiang




Special Sessions – Denver Spring 2022

Proposals



- **Vortex Beams and Radiation Torques:** Likun Zhang, Chengzhi Shi
- **Progress on sonic boom modeling, measurements, and signal processing:** Joel Lonzaga
- **Sonic Boom Focusing Modeling and Prediction:** Alexandra Loubeau
- **Acoustic Remote Sensing in an Urban Environment:** Max Denis, Sandra Collier
- **Meteorological Acoustics:** Roger Waxler
- **Machine Learning Applications in Metamaterial Designs:** Feruza Amirkulova, Chengzhi Shi, Valerie Pinfield,
- **FORM:** <https://forms.gle/pQxgtfjs3EuZvSf77>




Special Sessions – Nashville Fall 2022

Proposals

- **Ultrasonic assessment of properties in complex materials:** Marie Muller, Andrea Arguelles
- **Acoustofluidics:** Max Denis, Charles Thompson
-
-
- **FORM:** <https://forms.gle/846gDEUrvswNifcL8>

Technical Council

Committee to Improve Racial Diversity and Inclusivity (CIRDI)

- SURIEA: Summer Undergraduate Research or Internship Experience in Acoustics
 - 16 participants
 - Black, Latina/o, Pacific Islands, Caribbean, Native American
 - From Physics to the Humanities
 - Promote, identify and support research in acoustics that engages Diversity, Equity and Inclusion
 - Please contact me (or Tyrone) if you have information
 - Tyrone Porter: tmp6@utexas.edu
- Co-chairs: Tyrone Porter and Peggy Nelson**

Current Chair Election Procedures

Nominating Committee

- Current chair + previous two
- Committee members take suggestions but they are not "official" nominations

Voting

- Attendees of Fall meeting only (only 2 TC's do it this way)
- (CHANGE to all ASA members in TC?)

Tiebreaker

- Chair vote only counts in case of tie

Chair Election Proposals (Poll winners in bold – 38 votes cast)

Nominating Committee

- **Current chair + previous two** (*current method*)
- Committee appointed by chair (3 persons)
 - POLL RESULT: **top-82%**, bottom-18%

Voting

- **All TC members**
- All TC members and additionally ASA members in attendance at Fall meeting
- Only TC members and ASA members in attendance at Fall TC meeting (*current method*)
 - POLL RESULT: **top-56%**, middle-39%, bottom-5%

Tiebreaker

- Chair casts vote beforehand and only counts in case of tie
- **Chair casts deciding vote after the results are in** (*current method*)
- Coin flip
- Committee chooses
 - Poll Result: Top-24%; **2nd-32%**; 3rd-21%; Bottom-24%

ASA Core Values

Sound is a ubiquitous phenomenon that permeates the natural and anthropogenic worlds. Thus, the core values that drive the actions, policies, and objectives of the ASA, include:

1. - Dedication to excellence as a premier global organization that serves the world-wide acoustics community with integrity and transparency;
2. - Broad, open, honest, respectful, and accessible inquiry into the science and practical applications of acoustics, through thoughtful and tolerant oral and written discourse;
3. - An atmosphere of welcome, openness, and inclusion for all members, authors, potential members, meeting attendees, those who interact with the ASA and those who have an interest in acoustics, regardless of status or capability;
4. - Advocacy for wide dissemination of acoustical knowledge at the local, state, national, and international levels to generate, promote, and advance the science and applications of acoustics;
5. - Provision of information and policy reviews to inform societal decision-making on how acoustics, acoustical principles, and standards can be used to sustainably improve the human condition, and preserve and restore natural environments;
6. - Service to current and future generations through the promotion, publication, and archival documentation of the science and applications of acoustics supported by a fair, deliberative, and rigorous review process
7. - Attraction, development, encouragement, education, and mentoring of current and future generations of acousticians from diverse backgrounds.

Future of Meetings

- Comments on AiF?
 - Take the post-meeting survey
- Hybrid format in the future?
- Any suggestions for future meetings?



Publications



Statistics

JASA

- 5 weeks to 1st decision
- 20 weeks to acceptance
- Impact factor
 - PA specific 1.8; (JASA 1.9)
 - 5 year average
- Acceptance rate = 55%
- PA articles = 160 /yr

JASA-EL

- 12 weeks to acceptance
- No impact factor
 - “new” journal
- Acceptance rate = 53%

Special content (sp issues, reviews, tutorial, forum) give a big boost to IF

PROCEEDINGS OF MEETINGS ON ACOUSTICS

Free to Authors
The cost of publishing in POMA is included in the ASA Meeting registration fee.

Free Access
POMA articles are published online, available without cost to all readers, and are indexed in scholarly databases.

Rapid Publication of Results
POMA's editorial process makes it a timely forum for viewing the latest work in acoustics. The average time from acceptance to publication is 7-10 days.

Your Research Gets Noticed
Published articles are actively promoted on social media and in email campaigns. POMA content published in 2018 was downloaded over 27,000 times.

Available for All Cosponsored Meetings
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Published and Permanently Archived
Turn your paper presentation or poster into a published paper with an assigned DOI # to ensure identification and increase exposure.

Highly Qualified Editorial Board
Editorial Board members are experts in their field, providing invaluable feedback and expertise.

Special Session Collections
Utilize POMA to feature emerging research areas, hot topics, societal impacts of acoustics, and history and contributions of prominent members.


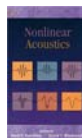
Submission Process is Fast and Easy
Templates are available for authors and our editorial staff is always responsive and helpful.



POMA's rolling submission policy invites corresponding manuscripts from all past ASA Meetings!
If you have presented at any ASA Meeting, turn it into a published paper in POMA. It's not too late!

POMA

In Memoriam

David T. Blackstock

<https://www.legacy.com/obituaries/statesman/obituary.aspx?pid=198555336>

Other Business?

