

BIOMEDICAL ACOUSTICS



Biomedical Acoustics Technical
Committee Meeting



Sign in QR code

Welcome to ASA 188th (joint with ICA)!

- New attendees: Introduce yourselves (name, institution, advisor)!
- Sign in to the meeting!
 - See QR code or
 - Physical sign-in sheet
- BA List Serv
 - Email ASA_BATC-subscribe@googlegroups.com
 - Visit: http://groups.google.com/group/ASA_BATC
 - Or email me: jcs516@psu.edu

Sign in QR code





Congratulations,
New Fellow!

Hong Chen, Wash University at St. Louis

Spring 2025 ASA/ICA New Orleans, May 19-23



- Projected ~2000 attendees when planning meeting in 2019
- Attendees: <1300
 - Attributed to current US situation, Forum Acusticum in Spain in June, and New Years attack
- Feedback on the meeting?

Meeting Reminders

- Taking photographs is not permitted during sessions. Anyone taking photographs during sessions may be asked to leave.
- Remote presentations are not allowed. Exceptions have been made by the ASA office for the Thursday plenary and an award acceptance. All other requests should be denied by the session chairs.



Spring 2025 ASA/ICA New Orleans, May 19-23

- Mon: Super Resolution Ultrasound Imaging (Libertario Demi, Pengfei Song)
- Tues: Double, Double, Toil and Trouble – Towards a Cavitation Dose (Christy Holland, Eleanor Stride)
- Tues: Technological Developments and Emerging Biomarkers in Elasticity Imaging (Javier Brum, John Cormack, Zhiyu Sheng)
- Tues: Plenary Lecture: Acoustics and Wave Physics in Modern Applications of Ultrasound in Therapy (Oleg Sapozhnikov)
- Wed: BATC Best Student Paper Award Poster Session (Ken Bader, Kevin Haworth)
- Wed: General Topics in Biomedical Acoustics (Jake Elliott)
- Thurs: Bubbles and Ultrasound – Physiological Considerations (Virginie Papadopoulou, Nicholas Ovenden, Athanasios Athanassiadis)
- Thurs: Wave Propagation and Aberration in Complex Media: From Theory to Application (Vera Khokhlova, T. Doug Mast)
- Fri: General Topics in Biomedical Acoustics: Quantitative Ultrasound (Marvin Doyley, Schott Schoen)
- Fri: General Topics in Biomedical Acoustics: Tissue Characterization (Jake Elliott)

Thank you to
the Poster
Competition
Judges!

20 Student Posters this year!

Ahmed Allam
Kang Kim
Ton van der Steen
Scott Schoen
Hong Chen
Tom Matula
Zhiyu Sheng
Julianne Simon
Chengzhi Shi
Michael Gray

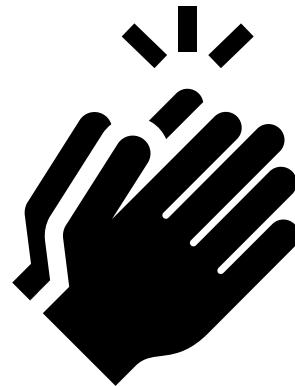
Eleanor Stride
Charles Caskey
Costas Arvanitis
Virginie Papadopoulou
Abdullah Al Masud
Tim Hall
Akthar Aktharuzzaman
Martin Verweij
Christy Holland
Klazina Kooiman



And the results of
the student poster
competition

Two-way tie for third are...

- **Abigail Collins** – Effect of point spread function:
Deconvolution strategies for accurate
spatiotemporal cavitation doses by passive
acoustic mapping
- **Ferdousi Sabera Rawnaque** – Cavitation bubble
nuclei in healthy vs. cancerous 3D cell cultures



Second place goes to...

- **Benjamin Wood** – Passive cavitation detection analysis of color Doppler twinkling from polymethylmethacrylate



And the 3-way tie for 1st place are:

- **Yike Wang** – Functional ultrasound localization microscopy on freely moving rats
- **Harshith Kumar Adepu** – Ultrasonic evaluation of internal features in additively manufactured SS316L: Impact of process-induced microstructure heterogeneity
- **Giulia Tuccio** – Uncoupling a bi-disperse microbubble population for decreased ULM acquisition times: A proof-of-concept study

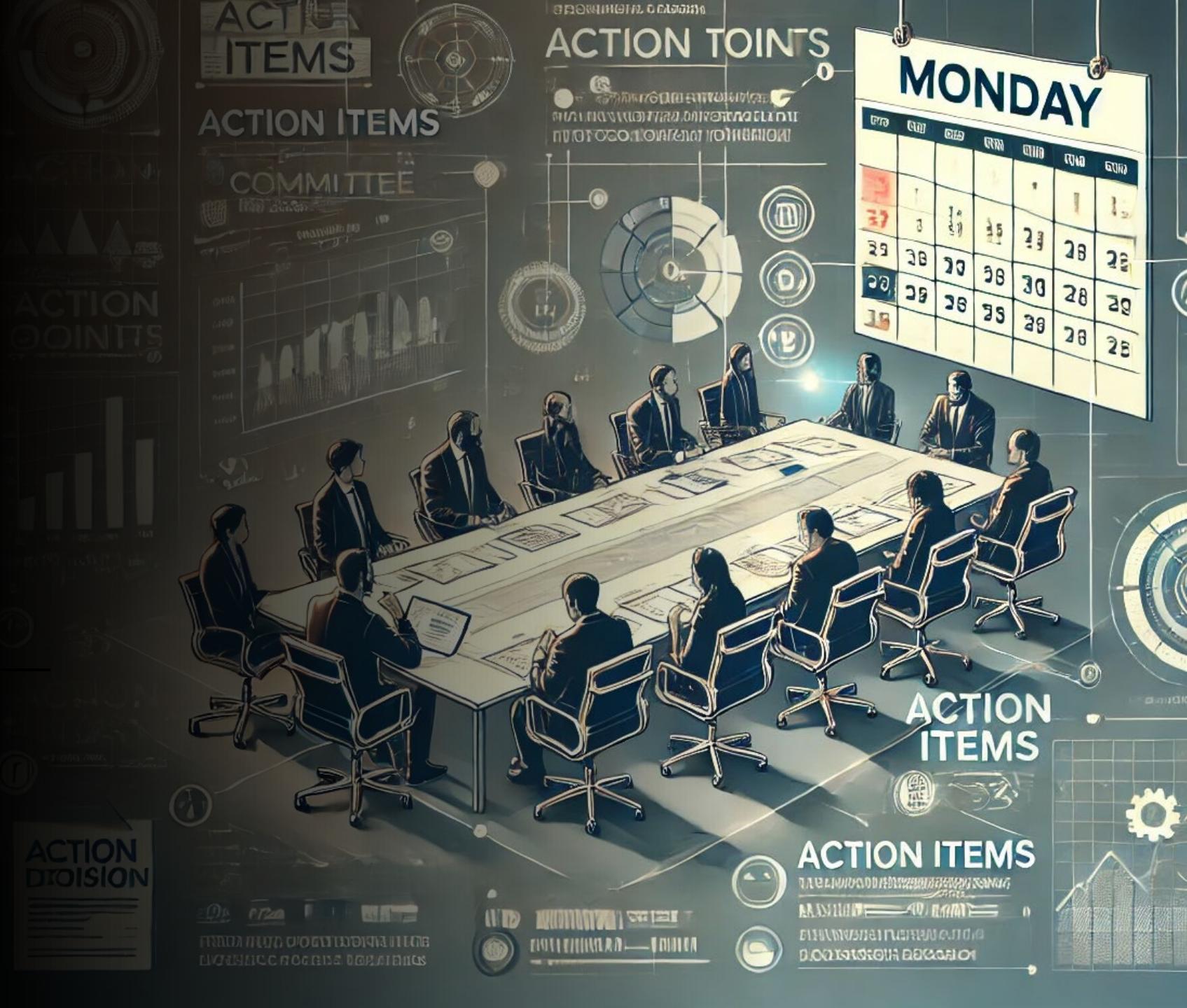


The audience choice award goes to

- **Ferdousi Sabera Rawnaque –**
Cavitation bubble nuclei in
healthy vs. cancerous 3D cell
cultures

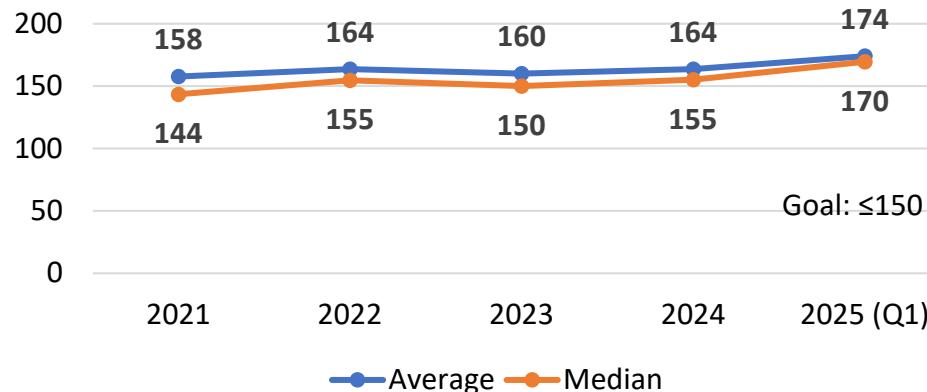


Report from Monday TC Meeting

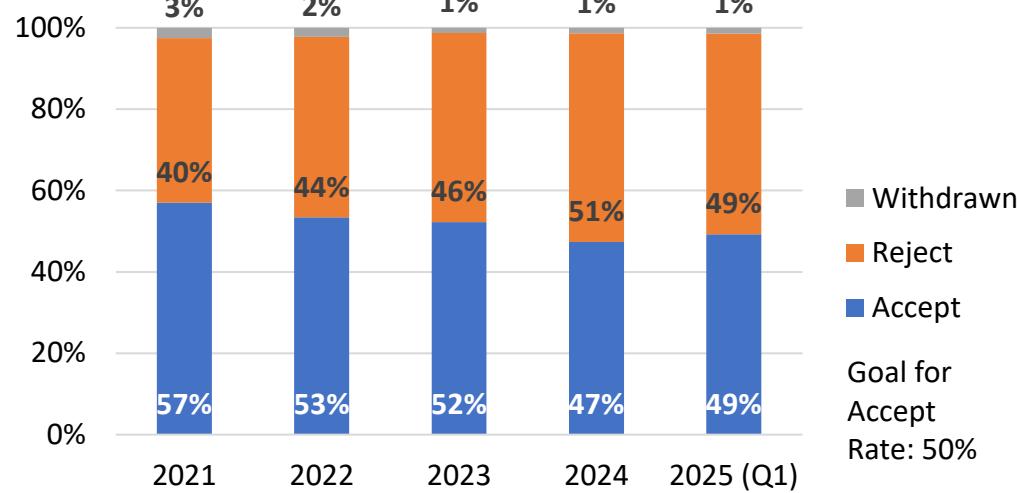


JASA – Spring 2025 Dashboard

Days from 1st Submission to Accept Decision



Acceptance Rate



Submissions Accepted by Country

Corresponding Author Country	2021	2022	2023	2024	2025 (Q1)
AUSTRALIA	3%	2%	2%	2%	2%
CANADA	4%	3%	4%	3%	4%
CHINA	11%	17%	17%	22%	27%
DENMARK	2%	2%	3%	3%	2%
FRANCE	7%	6%	5%	6%	3%
GERMANY	6%	4%	6%	4%	6%
ITALY	2%	2%	2%	1%	3%
NETHERLANDS	3%	1%	2%	2%	4%
TAIWAN	0%	1%	1%	0%	2%
UNITED KINGDOM	6%	4%	6%	5%	6%
UNITED STATES	37%	38%	35%	33%	24%
REST OF WORLD	17%	19%	18%	19%	16%

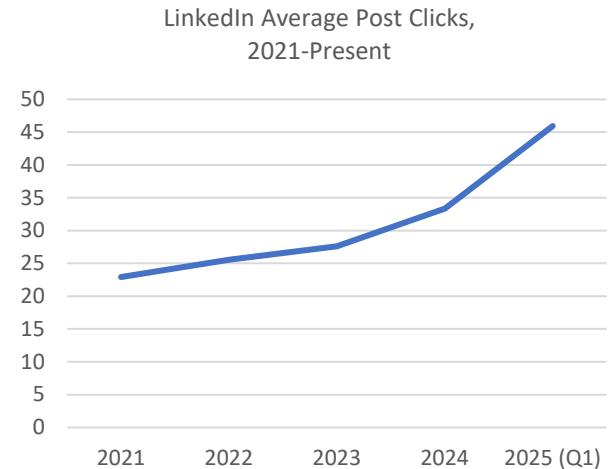
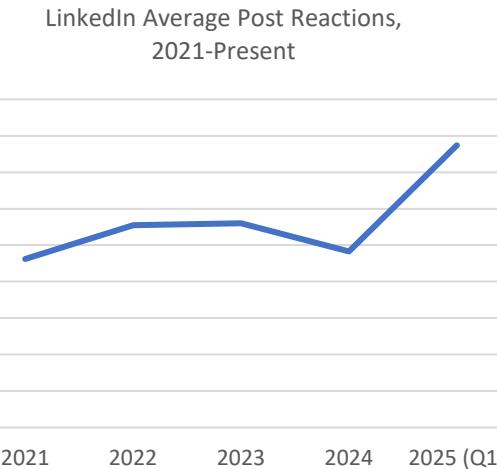
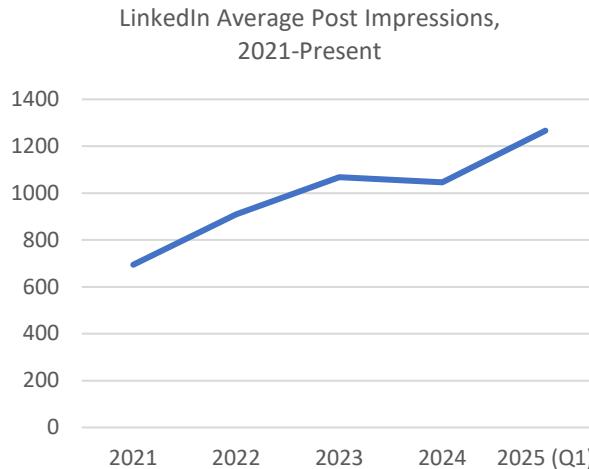
AIPP Q1 2025 Report “Highlights”

- **Full-Text Downloads:** JASA usage is up 12% in Q1 compared to 2024. Total usage for the year is projected to decrease, but remain within the range of previous years.
- **JASA and JASA-EL Impact Factor and Ranking Trends:** The 2024 JIF for JASA (announced in June 2025) is projected to increase to 2.3 from 2.1.
- **Submissions and Publications:** JASA submissions were up 7% in the first quarter compared to 2024. We’re projecting growth for both submissions and publications for JASA and JASA-EL.
- **Author Survey:** JASA and JASA-EL continue to have strong score net promoter scores of 9.3 and 9.33, respectively, from published authors.
- **Marketing:** In the first quarter, over 140,000 emails were delivered promoting ASA content to readers and authors, with strong open and click-to-open rates.

of note*

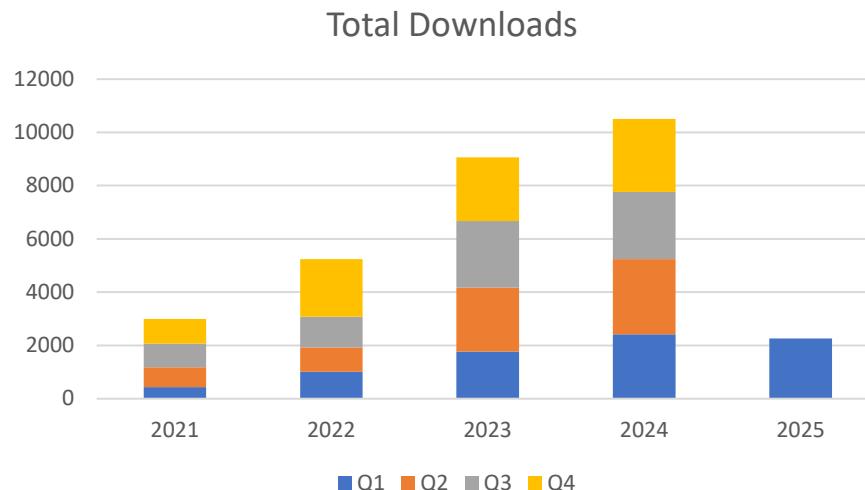
Social Media Strategy

- X now suppresses content containing links, which works against general social media strategy to funnel users to our journal sites; ASA keeping twitter handle, but will not post
- LinkedIn has been our most active social media site, but keeping active on Facebook and Instagram; also have a BlueSky account (@asa-news.bsky.social) but monitoring usage
- LinkedIn followers rose from **10,772** to **14,274** in 2024 – a 32.5% increase!
- We are now selecting content and tailoring copy to better suit what works best on LinkedIn.



Across Acoustics

- Follow us at <https://acrossacoustics.buzzsprout.com> or through your favorite podcast app
- Now has 74 episodes, highlighting popular articles from each of the publications as well as special topics
- Most recent episodes:
 - Things That Go Boom
 - Show Your Scattering Coefficients
 - Reducing Shipping Noise for Fatter, Happier Marine Mammals
 - Acoustic Levitation and Trapping
- Over 30,000 total downloads



Average downloads per episode in first...	7 days	30 days	90 days
2021	102	164	229
2022	128	189	243
2023	164	231	280
2024	175	251	302
2025 (Q1)	260	374	



- Open Calls for Papers for Joint *JASA* and *JASA-EL* Special Issues
 - Sound Absorption and Diffusion: Modeling, Measurement and Application (Deadline: 30 June 2025)
 - Climate Change: How the Sound of the Planet Reflects the Health of the Planet (Deadline: 30 June 2025)
 - Active and Tunable Acoustic Metamaterials (Deadline: 31 July 2025)
 - Ecological Perspectives on Hearing (Deadline: 30 Sept 2025)
 - Data and Models in Speech Production: A Situated Perspective (15 Jan 2026)
 - Bayesian Methods in Acoustical Science and Engineering (Deadline: 30 Jan 2026)
 - Generative and Physics-Informed Artificial Intelligence for Acoustics (Deadline: 2 March 2026)
 - Mobile Underwater Sensor Networks and Acoustics: Advances and Practices (Deadline: 1 May 2026)
- Open calls available here: pubs.aip.org/asa/jasa/pages/specialissues
- Please let me know if you have any suggestions for future Special Issues!

Special Issues - Very, Very Popular!!!

The Journal of the Acoustical Society of America

HOME BROWSE ▾ COLLECTIONS ▾ PUBLISH WITH US ▾ ABOUT ▾ NEWS ▾

Verification and Validation of Source and Propagation Models for Underwater Sound

This joint Special Issue of *The Journal of the Acoustical Society of America* and *JASA Express Letters* focuses on source and propagation modelling from sources of underwater ambient sound and sound sources with a potential to affect aquatic life, and on corresponding acoustical metrics. Combining information on the sound field with information on a dose-effect relationship enables estimation of possible effects. The Special Issue presents a collection of eighteen articles on: verification of source and propagation models; validation of source and propagation models; and bioacoustical metrics for assessment of environmental risk. This Special Issue demonstrates the need for clear metrics and verification and validation protocols.

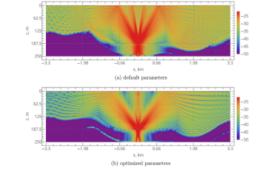
Guest Editors: Kathleen J. Vigness-Raposa (Liaison Guest Editor), Klaus Lucke (Liaison Guest Editor), Michael A. Ainslie, Michele B. Halvorsen, Christ A. F. de Jong, Stanley J. Labak, and Martin Siderius

Image Credit: Figure 7 from P. S. Petrov, A. G. Tyshchenko, and A. O. MacGillivray. "Three-dimensional modelling of underwater noise produced by a bulk carrier vessel and estimation of its environmental impact." *J. Acoust. Soc. Am.* 155: 3702–3714 (2024). <https://doi.org/10.1121/10.0026238>

To view the papers from *JASA*, please [visit this page](#). To view the papers from *JASA-EL*, please [visit this webpage](#). To view the full collection, please [visit this page](#).

EDITORIAL
Introduction to the special issue on verification and validation of source and propagation models for underwater sound 
 Kathleen J. Vigness-Raposa; Klaus Lucke; Michael A. Ainslie; Michele B. Halvorsen; Christ A. F. de Jong; Stanley J. Labak; Martin Siderius
<https://doi.org/10.1121/10.0035845>

SPECIAL ISSUE ON VERIFICATION AND VALIDATION OF SOURCE AND PROPAGATION MODELS FOR UNDERWATER SOUND
Effects of sediment properties, distance from source, and frequency weighting on sound pressure and sound pressure kurtosis for marine airgun signatures 
 H. Özkan Serlik; Yaxi Peng; Michael A. Ainslie; Alexander M. von Benda-Beckmann; Michele B. Halvorsen; Matthew W. Koessler; Elizabeth T. Küsel; Alexander O. MacGillivray; Apostolos Tsouvalas
<https://doi.org/10.1121/10.0034709>



Pubs News

- **POMA Student Paper Competition**
 - Society-wide competition – growing in popularity!
 - New Orleans competition deadline: 11:59 pm EDT, 22 June 2025
- **AT Collections**
 - Ongoing project providing *AT* content in topical collections
- ***Acoustics Today* News**
 - Keith Wilson is *AT* Editor as of 2025
 - A big thanks again to Art Popper for a decade of exceptional service to Publications and to the Society!
 - *AT* is now publishing twice a year.
- Last print issue of *JASA* was in December!



POMA Proceedings of Meetings on Acoustics



Proceedings of Meetings on Acoustics (POMA) is an open access, editor-reviewed, online journal available to readers without cost. POMA features articles from ASA Meetings as well as other acoustics-related ASA Cospresented Meetings.



Free to Authors

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



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.



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 articles published in 2022 have received over 160,000 downloads so far.



Submission Process is Fast and Easy

Templates are available for authors and our editorial staff is always responsive and helpful.



Available for All Cospresented Meetings

ASA-approved cospresented workshops and conferences can take advantage of POMA's customizable publishing process.



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!

Visit <https://pubs.alp.org/asa/poma> or <https://pubs.alp.org/asa/poma/issue> to browse volumes from past ASA and cospresented meetings.

Submit today at <http://www.editorialmanager.com/poma/>

For questions or comments please contact poma@acousticalsociety.org

Technical Council is working to clarify guidelines for ASA support through Technical Initiatives of non-ASA meetings/schools

- Purpose: To provide a mechanism for improved outreach and education on acoustics-related topics for ASA members and to add visibility of ASA to other societies and locations.
- Funds are to be used to encourage participation by students and early career associates in the form of paper or poster presentations.
- Current guidelines state "...support provided will typically be around \$2000, and in rare instances as much as \$3000."
- Guidelines will change to requests for support can range up to \$5000, and in rare instances be greater than \$5000 with sufficient justification.
- Meeting organizers will be required to submit a brief report to the relevant TC chair and ASA Office
 - If a report is not submitted, the TC may not be able to submit future requests

2026 Technical Initiatives and Reminders

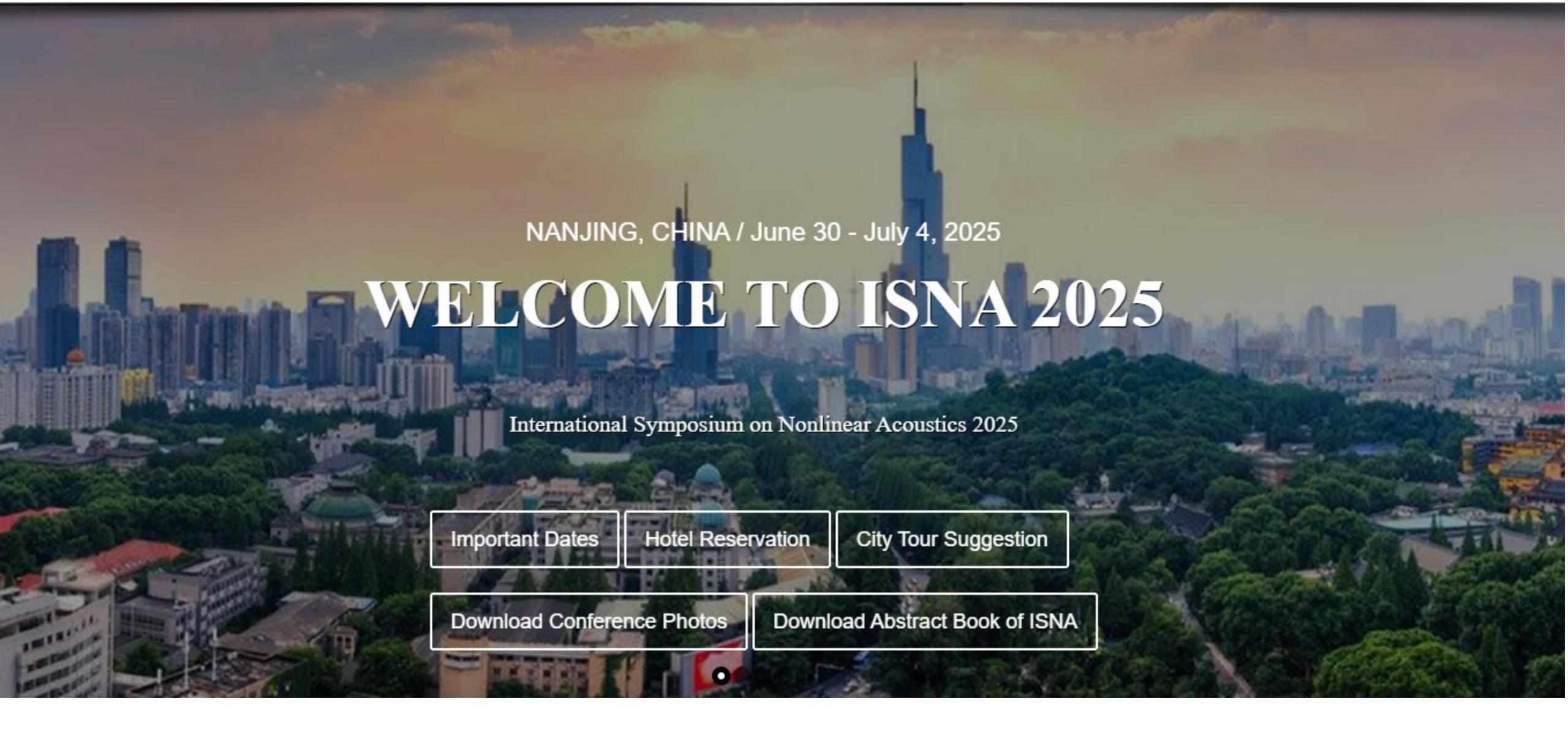
- In 2025, BA sponsored/co-sponsored:
 - International Lung Ultrasound Symposium - \$1200
 - Winter School on Therapeutic Ultrasound - \$5000
 - International Symposium on Nonlinear Acoustics (Co-sponsor with PA) - \$8500
- Remember Tech Initiatives are due the fall meeting the year before funds are needed
- If funds remain for current year, small requests can be made at the spring meeting in the year you're requesting funds.
- Funds can also be requested in advance (2027)

ILUS2025

International Lung Ultrasound Symposium

4-6 June 2025

Trento - Italy



NANJING, CHINA / June 30 - July 4, 2025

WELCOME TO ISNA 2025

International Symposium on Nonlinear Acoustics 2025

[Important Dates](#)

[Hotel Reservation](#)

[City Tour Suggestion](#)

[Download Conference Photos](#)

[Download Abstract Book of ISNA](#)



FUTURE MEETINGS

Meetings Costs and Reminders

- ASA leadership remains noncommittal about shifting to 1 meeting/year
 - Meetings Reimagined committee is considering another virtual meeting in 2027-2028
 - Virtual meeting >\$100k deficit
 - Ottawa deficit was less than that
- To be able to have multiple hotels/area that can accommodate ASA, it is recommended we:
 - Put a cap on special sessions to try to avoid multiple special sessions on the busy days (Tuesday/Thursday)
 - One proposal was to require filling one meeting room M-F am/pm before competing sessions can be scheduled
 - They also recommend not having special sessions unless they'll be well-attended

Fall 2025 ASA/ASJ Honolulu Meeting, Dec 1-5, 2025

1. Lung Ultrasound - Libertario Demi and Marie Tabaru
2. In vivo applications of quantitative ultrasound – Jonathan Mamou and Tadashi Yamaguchi
3. Ultrasound super-resolution and brain imaging – Chengzhi Shi, Fabian Kiessling, and Norio Tagawa
4. Ultrasound blood flow imaging/quantification – Michel Versluis, Chris de Korte, Yoshifumi Saijo, and Hideyuki Hasegawa
5. High Frequency Ultrasound – Keith Wear and Yoshifumi Saijo
6. Sound propagation in inhomogeneous media – Mami Matsukawa, Guillaume Haiat and Pierre Belanger
7. Data driven focused ultrasound interventions – Costas Arvanitis and Shin Yoshizawa
8. Issues with Tissues: In situ tissue property measurements for therapeutic ultrasound procedures – Tanya Khokhlova, Michael Gray, Shin Yoshizawa

Spring 2026: Philadelphia Meeting – May 11-15, 2026

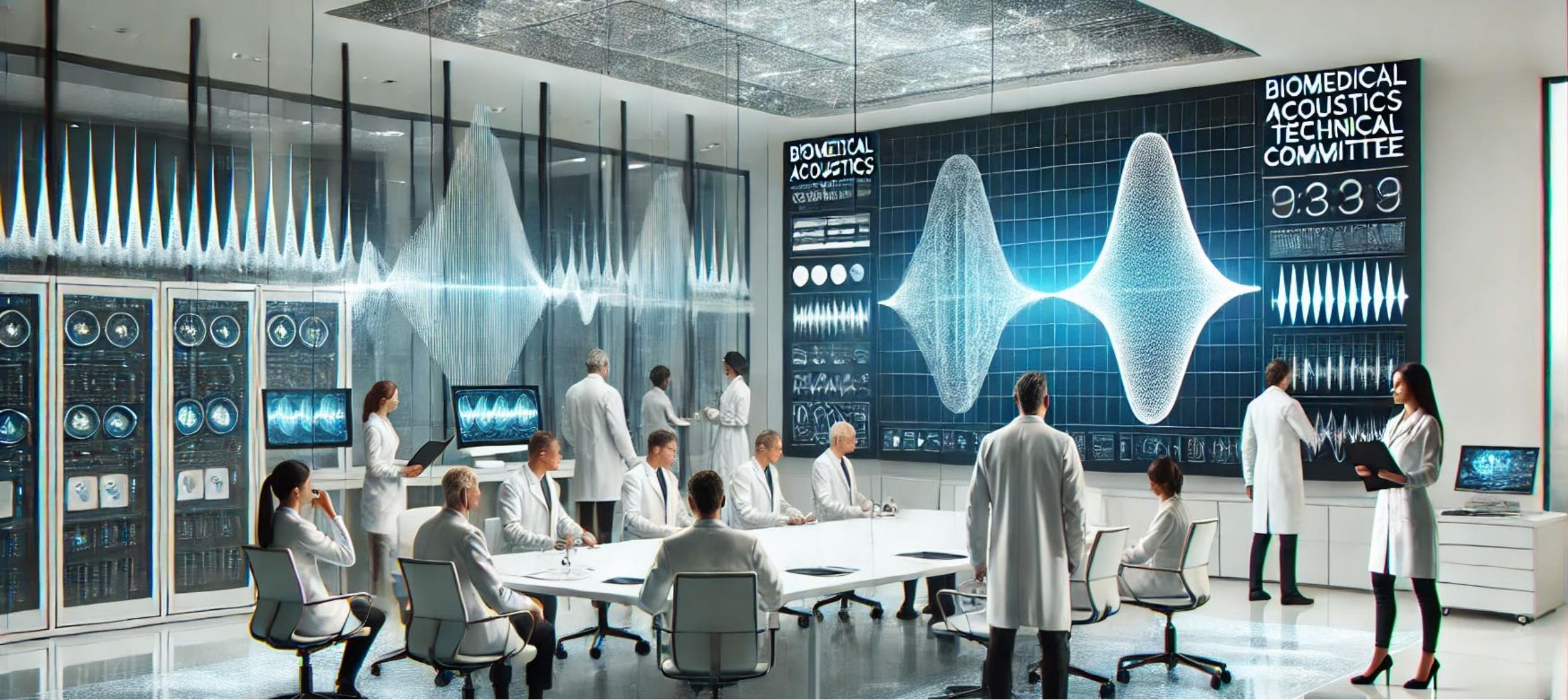
1. Wearable ultrasound – Kathy Brown
2. Shocking considerations in therapeutic ultrasound – Ken Bader, Jonathan Sukovich, and Tanya Khokhlova
3. Vortex ultrasound – Chengzhi Shi and Likun Zhang
4. Ultrasound beamforming and its applications – Jian-yu Lu
5. Biomedical Methods: Messy, Marvelous, and Meh – Kevin Haworth, Virginie Papadopoulou, Tim Hall
6. Student Poster Competition – Virginie Papadopoulou and Eric Rokni
7. Advanced ultrasound vascular imaging and vessel characterization” – John Cormack, Kang Kim, and Zhiyu Sheng



Fall 2026: Location and Dates TBD

- The Meetings committee is discussing options for maintaining the in-person meeting experience given the pressures on research and travel budgets. We anticipate a smaller meeting for Fall 2026. At this preliminary stage, TCs have been asked to limit the number of proposed special sessions for fall 2026 to three.



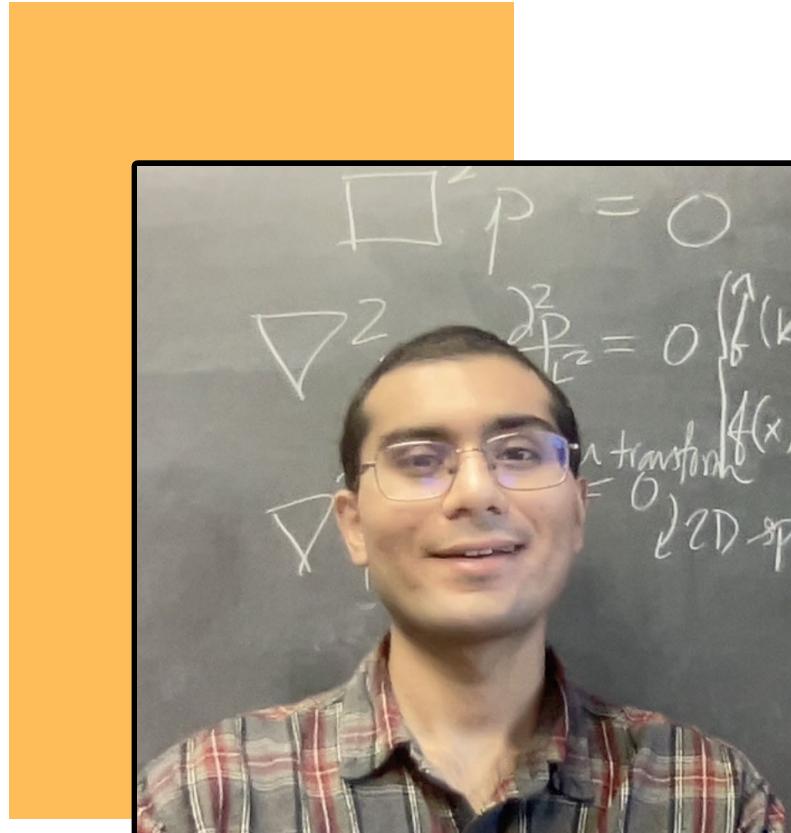


Other Business of BATC

Student Council Rep

TC: Biomedical Acoustics

Term: Fall 2023 – Spring 2025



Chirag Gokani
University of Texas at Austin

Interested in joining Student Council?





Student Events

Monday (5/19)

First-Time Attendee/Student Orientation

100+ attendees !



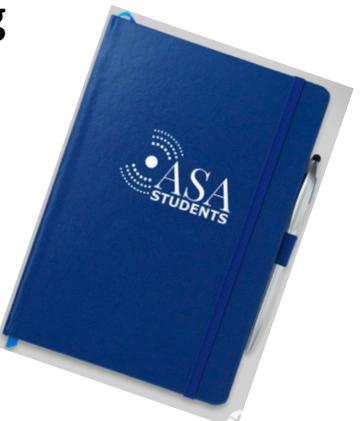
Student Meet and Greet

160+ students attended !



Student Informal Outing

80+ students attended !



Tuesday (5/21)

Student Reception

6:00 – 8:00 PM

Riverview (41st floor)



Hot Topics in Acoustics (3aIDb)

- Wednesday 10:55am-12:00pm in Galerie 6
- Special session hosted by Student Council
- Three invited speakers!
- Encourage your students to attend!

“From geoacoustic inversion to seabed tomography using a distributed network of sources and receivers” (*Julien Bonnel*)

“Liquid based tunable lenses – from concept to application” (*Sina Rostami*)

“Focused shear wave beams for enhanced soft tissue elastography” (*John Cormack*)



Grant and Fellowship Panel

- Thur 3:00-4:00 pm in St. Charles
- Special session hosted by Student Council
- Experts will discuss past and current grant experience
- Encourage your students to attend!



Students:

ASA's committee on

Outreach and Education

would like your feedback...

...on the new Careers Toolbox!

<https://exploresound.org/acoustics-careers/>

Password: ASA2025jobs

Feedback link is in a previous email



David T. Blackstock Mentorship Award



Dr. Laurel H. Carney

University of Rochester
Marylou Ingram Professor in Biomedical Engineering
Professor of Neuroscience





Students & Members Join “Students Meet Members for Lunch” (SMMfL)!



Student Outreach for Networking
& Integrating Colleagues

SONIC



Student Outreach for
Networking and Integrating Colleagues

Make connections as a Newbie!
Help fellow students as a Guide!

Info / sign-up:



17 newcomers &
8 guides
signed up for New Orleans!





Collaboration with Young Acousticians Network European Acoustics Association (EAA-YAN)

EAA-YAN is a non-profit initiative to connect and provide support for a community of young researchers and professionals in the field of acoustics!



Join us!



@eaa_yan



EAA Young Acousticians Network (YAN)



youngacousticiansnetwork



asastudents.org



Check out our website!



CONTACT US



asastudentcouncil@gmail.com



Acoustical Society of America Students



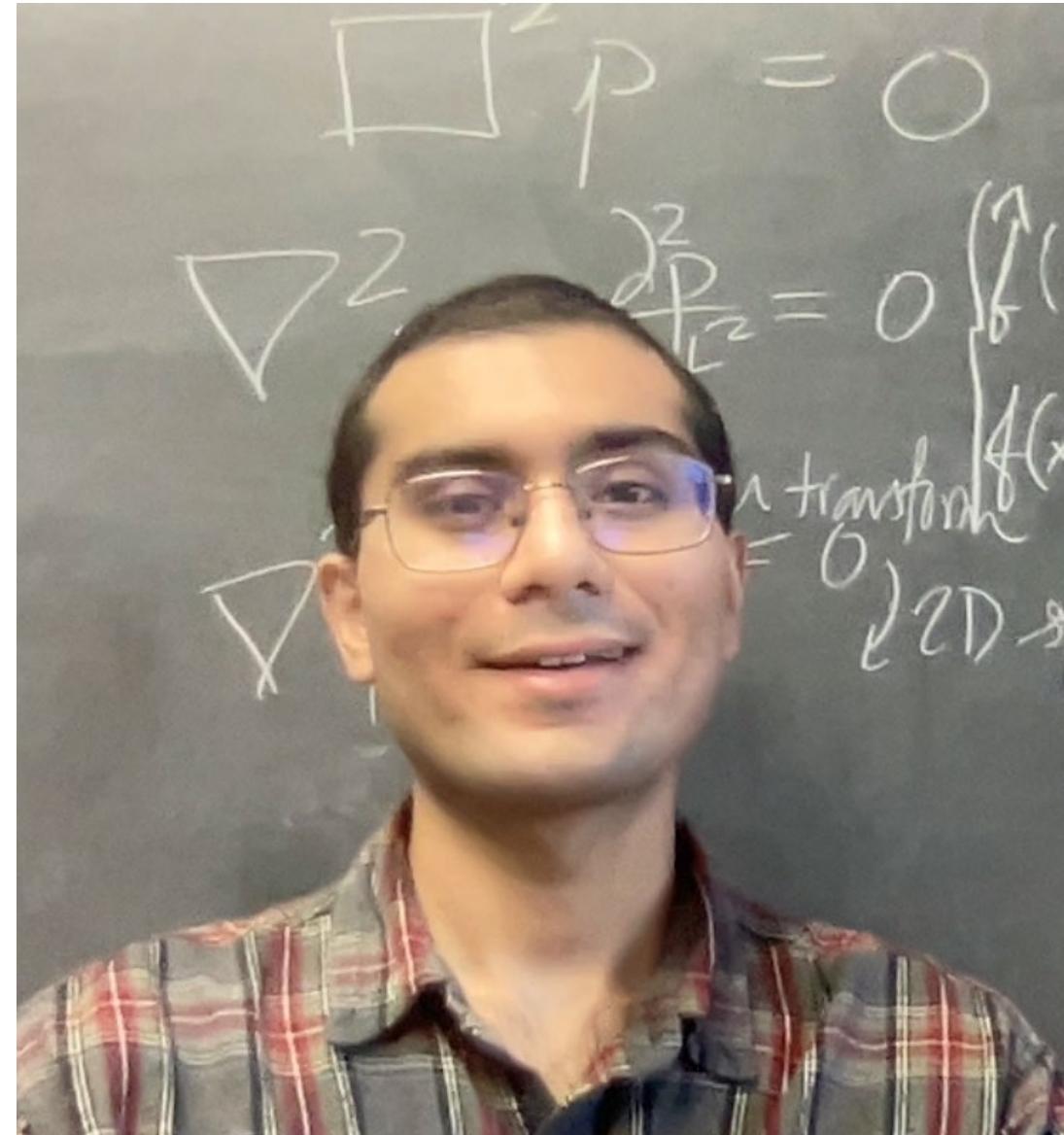
@students_ASA



@ASAStudents



@asastudents





A screenshot of the ASA Careers in Acoustics Toolbox website. The background shows a group of diverse young adults smiling. The text "ACOUSTICAL SOCIETY OF AMERICA" is at the top left, followed by "CAREERS IN ACOUSTICS" in large white letters. Below that is a subtext "This Career Toolbox focuses on students entering the workforce." and a "LEARN MORE ABOUT ASA" button.

We, ASA's committee on Outreach and Education, are excited to share with you our Careers in Acoustics Toolbox 1.0

<https://exploresound.org/acoustics-careers/>

For our initial effort, we created easy to digest infographics about different careers. This material is intended **for high school and early undergraduate students.**

Because the webpages are in draft status, **the password** for all the pages is **ASA2025jobs**

A promotional graphic for the ASA Careers in Acoustics Toolbox 1.0. It features a blue background with white text. At the top, it says "ASA COMMITTEE ON OUTREACH AND EDUCATION PRESENTS" flanked by asterisks. Below that is the title "Careers in Acoustics Toolbox 1.0". In the center is a QR code surrounded by white concentric circles. At the bottom, the text reads "Scan this QR code to see the webpage and provide feedback on what resources to include in the Learn More sections".

News from the Public Relations Committee

Science Communication Awards

Be on the lookout for announcements regarding the 2025 Science Communications Awards Call for Nominations. If you have seen, heard, or created something acoustics-related via print, online, short- or long-form video, podcast, etc., nominate it! See acoustics.org/science-communication-awards/ for a list of past winners.

Acoustics Lay Language Papers (ALLP)

A reminder that ASA offers all those with a conference abstract to submit lay language papers before or after conferences. Unlike JASA or POMA, lay language papers do not need to be peer reviewed, offer a quick path to disseminate work, and help create media interest. See acoustics.org/lay-language-papers/ for more info.

Media Liaisons & Media Training

Thank you to our current TC media liaisons on deck to answer ASA media inquiries from journalists! We will be offering a media training workshop in a near future conference to those interested in becoming media liaisons or generally interested in media training.

Resources

Any ASA member looking for assistance on media and other PR needs is encouraged to reach out to Keeta Jones (ASA) and/or Wendy Beatty (AIP) for additional resources.

Thank you BATC Reps!

- Membership Committee: Bob McGough
- Medals and Awards: Vera Khokhlova
- ASACOS: Wayne Kreider
- Archives and History Committee: Juli Simon
- Research and Education: Vera Khokhlova
- TPOM: John Cormack and James Kwan
- CIRDI Rep: Eric Rokni
- Media Liaisons: Kevin Haworth, Tyrone Porter
- Student Rep: Chirag Gokani



Sign in QR code

