



Biomedical Acoustics Technical Committee Meeting

Ottawa, Ontario Canada

May 15, 2024



Welcome to ASA 186!

- 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



Congratulations New Fellow!



Michael Oeleze

For contributions to quantitative
ultrasound tissue characterization



ASA Ottawa

May 13-17, 2024: Ottawa special sessions

- **Monday morning (1aBAa):** Sonobiopsy for Noninvasive Molecular Diagnosis (Hong Chen)
- **Monday all day (1aBAb, 1pBAb):** Ultrasound Brain and Super-Resolution Imaging I (Chengzhi Shi and Fabian Kiessling)
- **Tuesday morning (2aBAb):** Return of the Writer (Julianna Simon, Karla Patricia Mercado-Shekhar, and Kevin Haworth)
- **Tuesday all day (2aBAa, 2pBAb):** Ultrasound Beamforming and its Applications (Jian-yu Lu)
- **Wednesday morning (3aBAa):** SonoDynamic Therapy: A New Hope (James Kwan)
- **Wednesday morning (3aBAb):** Biomedical Acoustics Best Student Paper Award Poster Session (Ken Bader and Kevin Haworth)
- **Thursday all day (4aBAa, 4pBAb):** Wave Propagation in Complex Media: From Theory to Applications (Pierre Bélanger and Guillaume Haiat)
- **Thursday all day (4pBAb, 4pBAa):** Droplets Strike Back (Virginie Papadopoulou, Mario Fabiilli, and Kevin Haworth)

May 13-17, 2024: +4 Ottawa general sessions

- **Monday afternoon (1pBAb):** Chair: John Cormack
- **Tuesday afternoon (2pBAa):** Chair: Brandon Helfield
- **Friday morning (5aBAa):** Chair: Keith Wear
- **Friday morning (5aBAb):** Chairs: Anurag Paranjape and Virginie Papadopoulou

Thank you to
the Poster
Competition
Judges!

35 Student Posters this year!

Hong Chen
John Cormack
Michael Gray
Guillaume Haiat
Tim Hall
Yun Jing
James Kwan
James Lacefield
Adam Maxwell

Karla Mercado-Shekhar
Farshad Moradikashkooli
Meaghan O'Reilly
Virginie Papadopoulou
Chengzhi Shi
Julianna Simon
Eleanor Stride
Michel Versluis
Martin Verweij



And the results of
the student poster
competition

Three-way tie for second

- **Dingyue Zhang** – Evaluation of sonobiopsy feasibility and safety in a mouse model of diffusive intrinsic pontine glioma
- **Elahe Memari** – The role of fluid flow patterns in microbubble-mediated endothelial cell membrane permeabilization
- **Hongchen Li** – Microstreaming profile of a phospholipid-coated wall-attached microbubble undergoing shape oscillation



And the winner is...

- **Kamsu Onyemeh** – Active targeting of nanotherapeutics using power cavitation imaging with a linear array transducer



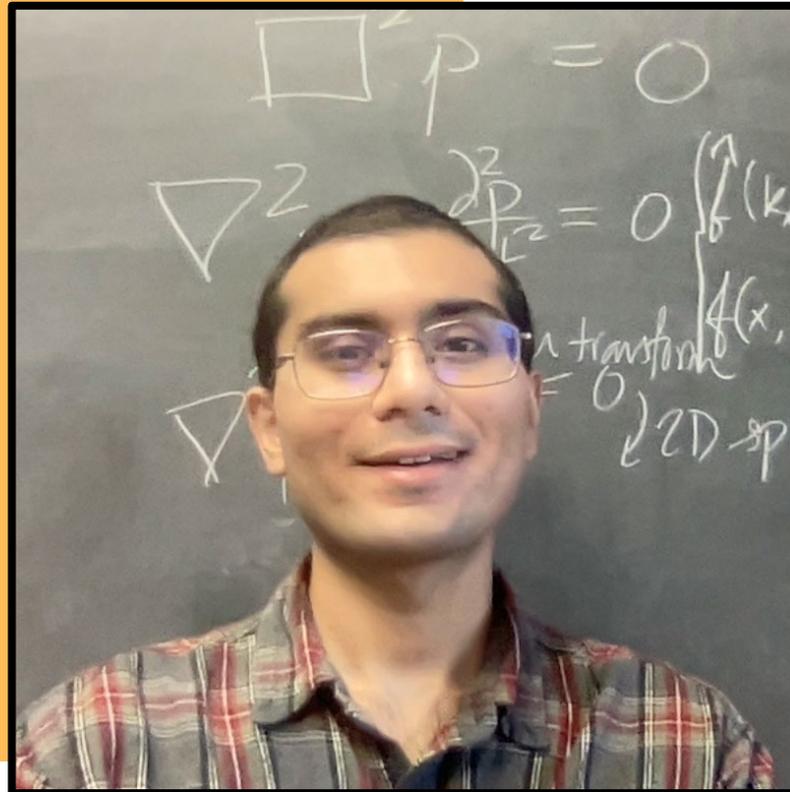
The audience choice award goes to

- **Kyle Hazel** – Focused ultrasound-guided delivery of gene editing protein in human induced pluripotent stem cells



Student Council Rep

TC: Biomedical Acoustics



Chirag Gokani

University of Texas at Austin

Graduate Program in Acoustics

Interested in joining Student Council?



Term: Fall 2023 - Spring 2025



Student Events

Monday

First-Time Attendee/Student Orientation (Room 203)

5:15 – 5:45 PM

~100 people attended!

Student Meet and Greet (Trillium Foyer)

5:45– 7:30 PM

~300 people attended!

Student Informal Outing (Level One Game Pub)

8:00 – 10:00 PM

~80 people attended!

Tuesday

Student Reception (Governon General Room)

6:00– 7:30 PM







Join SONIC!

Encourage your students to participate!

Participation in Ottawa:

- 12 newcomers
- 7 guides

Student Outreach for Networking & Integrating Colleagues

SONIC



Student Outreach for
Networking and Integrating Colleagues

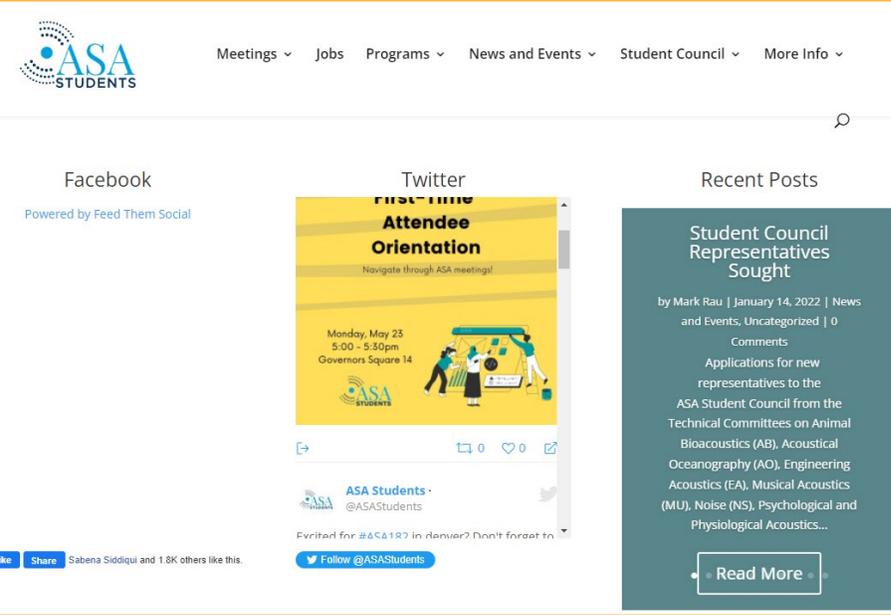
Make connections as a Newcomer!
Help fellow students as a Guide!

Info / sign-up:



SONIC pairs first-time attendees with experienced students to help guide them through the ASA meeting and help with networking.

Check out our website:
asastudents.org



CONTACT US



@students_ASA



@asastudents



@ASAStudents



Acoustical Society of America Students



asastudentcouncil@gmail.com



NEW!

LinkTree
@asastudents

Monday TC Meeting

Standards Committee Update

- Certificate program for technical training in acoustics measurements to INCE standards
- Working to develop “How-to” guidelines to complement standards
 - Workshop Wednesday 8 – 9:30 am in Room 105
 - If interested, contact Nancy Blair DeLeon – nblairdeleon@acousticalsociety.org

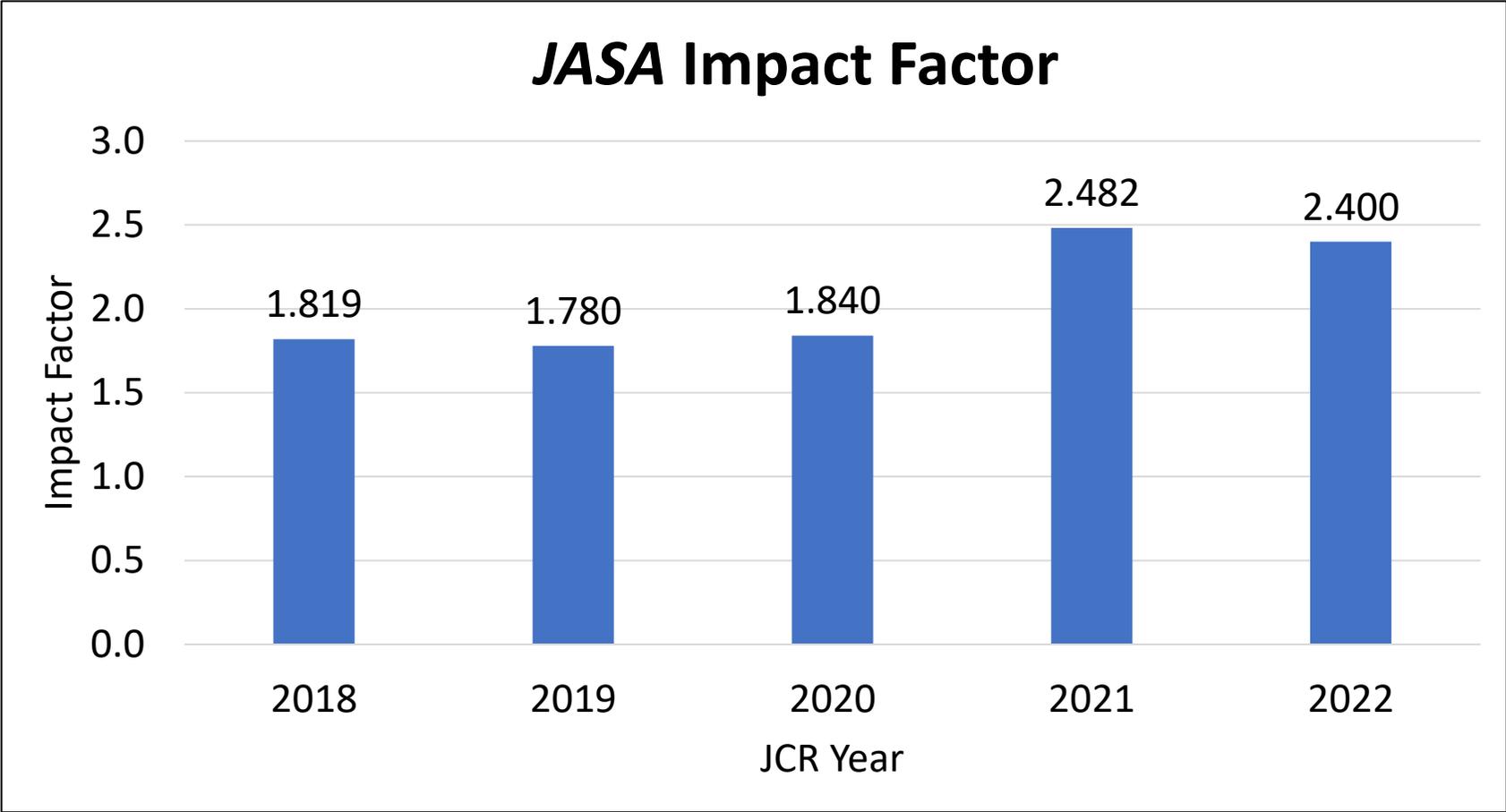


AIPP Q1 2024 Report “Highlights”

- Full-Text Downloads: Usage is up sharply in Q1 – JASA up 77% and JASA-EL up 31%.
- Submissions and Publications: JASA submissions up 31% and publications up 9%. JASA-EL and JASA are both trending towards strong years in terms of submissions and publications.
- Author Survey: JASA and JASA-EL continue to have strong net promoter scores of 9.2 and 9.0, respectively, from published authors.

of note*

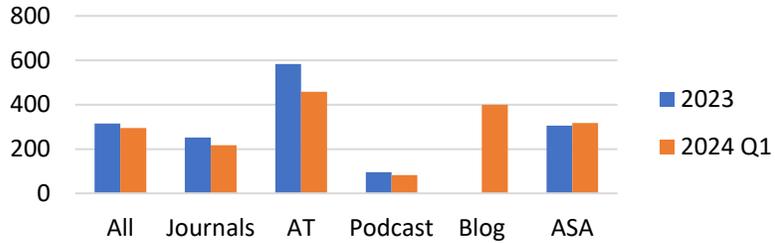
IF projected at 2.1 for 2023 (announced June 2024)



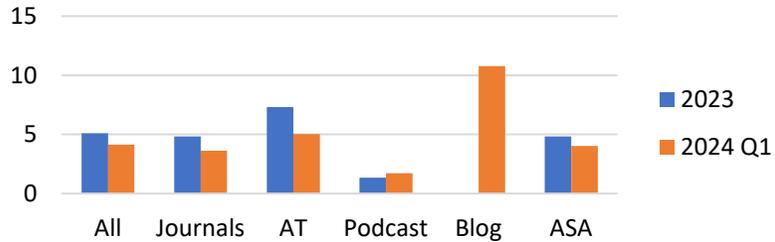
LinkedIn has the highest posting/likes/clicks

Facebook

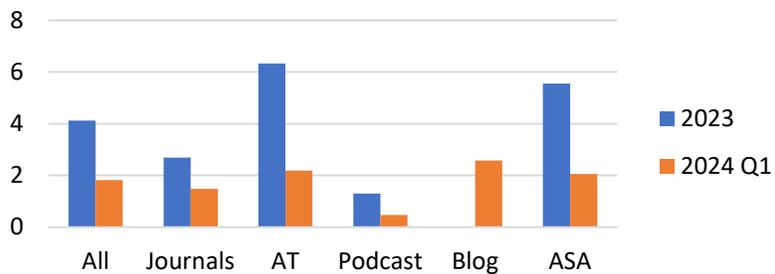
Impressions by Type of Post, 2023-2024 (Q1)



Reactions by Type of Post, 2023-2024 (Q1)

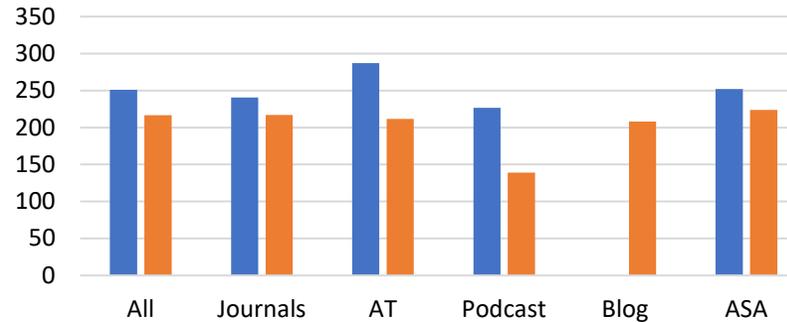


Link Clicks by Type of Post, 2023-2024 (Q1)

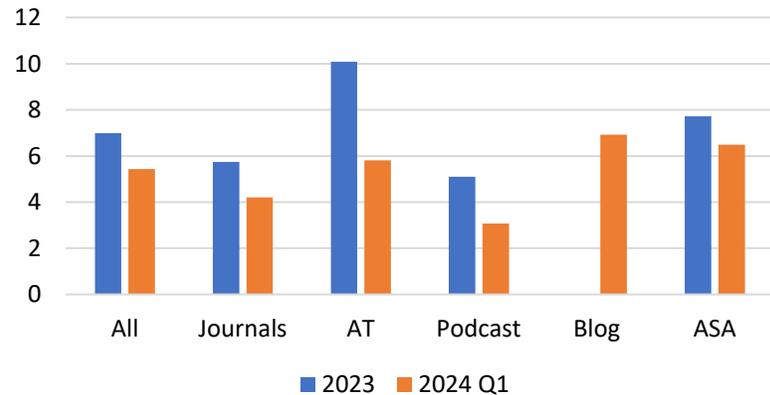


Instagram

Impressions by Type of Post, 2023-2024 (Q1)

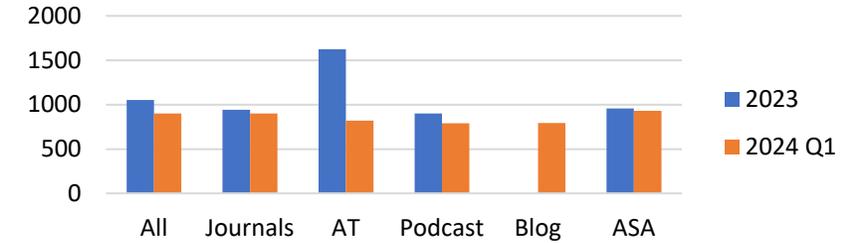


Likes by Type of Post, 2023-2024 (Q1)

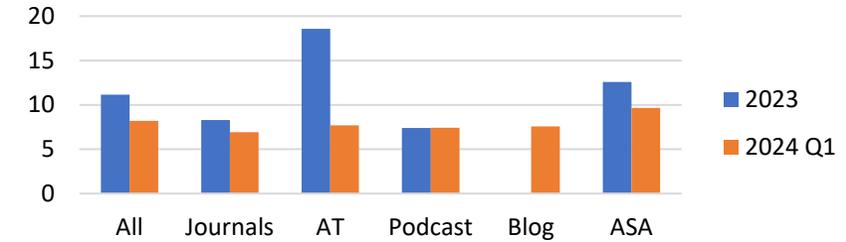


LinkedIn

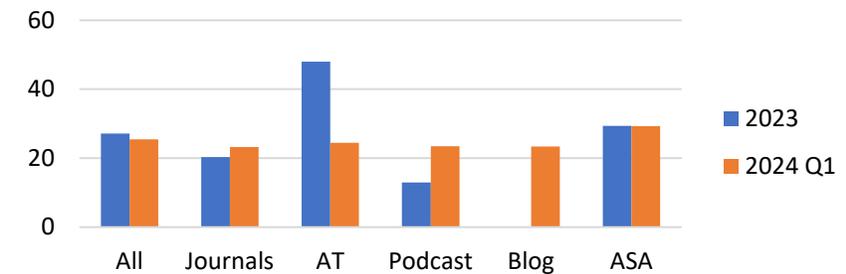
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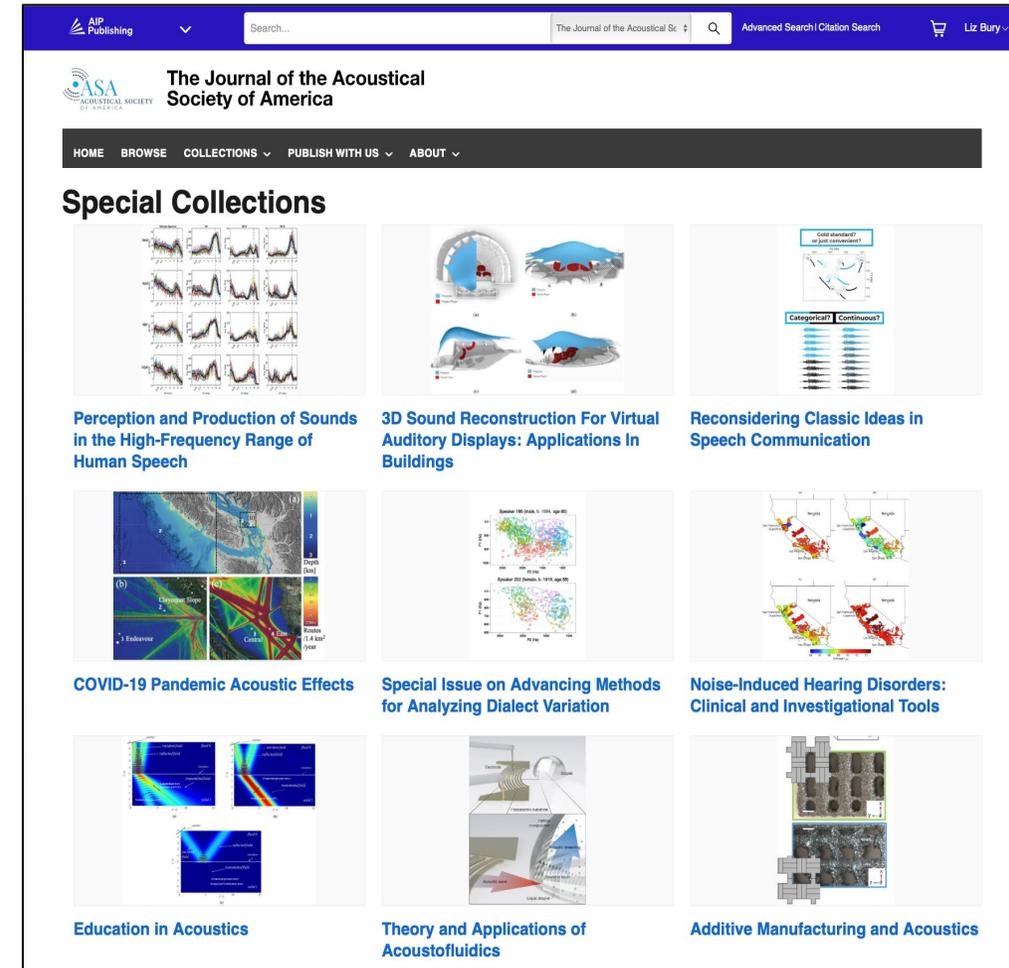


Link Clicks by Type of Post, 2023-2024 (Q1)



Other publications news

- >50 episodes on the “Across Acoustics” podcast with >20,000 downloads
- Keep proposing JASA and JASA-EL Special Issues as they are popular
- Acoustics Today editor (Art Popper) stepping down end of 2024
- Editor in Charge (Jim Lynch) stepping down end of 2025
- Gold open access costs are increasing
 - \$2200 (current) to \$2600 after July 1, 2024 for JASA
 - JASA-EL increase from \$900 to \$1100 for members in 2025



Items from Executive Council

- ASA Academy for companies to educate employees on certain area(s) of acoustics
 - Subha Maruvada has a survey for distribution by BA
- Strategic Planning (Every ~5 years)
 - Member survey complete, summit forthcoming in July
- ASA School
 - 120 applicants, limited to 60 participants
- CIRDI BATC Representative – volunteers?
 - Attend monthly CIRDI meetings
 - Liaison between CIRDI and TC



Meeting Rule Reminders

- No photography without speaker consent

- No remote presentations
 - Pre-recordings
 - Live presentations



Ideas from Meetings Committee – Efficient Room Usage

- Plan under discussion for more efficient room scheduling to reduce A/V costs (a major meeting expense):
 - Concentrate A/V rooms on Mon, Tues, Thurs, and Fri
 - Concentrate posters on Wed. – minimal A/V costs
- Other big cost is from many competing sessions Tu-Th, which limits possible venues → if only one suitable venue, no competition

(Very) Rough Savings

- ~**20%** savings with poster/plenary Wed.
- Additional efficiencies might save another **5-10%**,

Ideas from Meetings Committee – Efficient Room Usage

Some TCs concentrate oral and additional poster sessions on Wednesday, Thursday, and Friday.

Monday	Tuesday	Wednesday	Thursday	Friday
Oral and/or poster sessions		Big poster sessions Plenary session Social	Oral and/or poster sessions	
	Open TC meetings	Open TC meetings	Open TC meetings	

Some TCs concentrate oral and additional poster sessions on Monday, Tuesday, and Wednesday.



FUTURE MEETINGS

Fall 2024 Virtual Meeting (Nov. 11-15, 2024)

Schedule of synchronous activities and sessions

	M	T	W	Th	F
AM (10:00 am – 12:00 pm EST)	Administrative meetings	TC-led activities (1)	TC-led activities (3)	TC-led activities (4)	Administrative meetings
PM (3:00 pm - 5:00 pm EST)	All-society: opening / kick-off	TC-led activities (2)	All-society: plenary, keynote	TC-led activities (5)	

*Time zone converter

HONOLULU	LOS ANGELES	NEW YORK (EST)	PARIS	TOKYO	SYDNEY
4:00 am - 6:00 am	7:00 am - 9:00 am	10:00 am - 12:00 pm	4:00 pm - 6:00 pm	11:00 pm - 1:00 am	12:00 am - 2: 00 am
9:00 am - 11:00 am	12:00 pm - 2:00 pm	3:00 pm - 5:00 pm	9:00 pm - 11:00 pm	4:00 am - 6:00 am	5:00 am - 7:00 am

Fall 2024 Virtual Meeting (Nov. 11-15, 2024)

1. Show me your lab crib! (Traditional) – Tim Hall and Ellen Yeats
2. A debate about the future of nanobubbles in biomedical acoustics (Panel Discussion) – Eleanor Stride
3. Tutorial: Hydrophones and cavitation monitoring (Webinar + Panel Discussion) – Jeff Ketterling
4. Transitioning technology from idea to industry (Panel Discussion) – Tom Matula
5. Bubble-based therapies (Lightning Round) – Ken Bader and Misun Hwang

Fall 2024 Virtual Meeting (Nov. 11-15, 2024)

- Abstract deadlines TBD
- Platform – We & Goliath
- \$250 member registration – required for all presenters!
 - \$25 watch party supplement for a paid registrant
- No registration waivers for non-ASA members
 - We can use travel/discretionary funds as needed
- Official title: “187th meeting of the Acoustical Society of America – Virtual”
- Session organizers select abstracts

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

- Request for international co-chairs, finalize by Friday
 1. Wave propagation and aberration in complex media: from theory to applications (PA) - Vera Khokhlova and Doug Mast
 2. Super resolution imaging – Pengfei Song and Libertario Demi
 3. Bubbles and ultrasound - physiological considerations– Virginie Papadopoulou
 4. Technological Developments and Emerging Biomarkers in Elasticity Imaging (CA, EA, PA, SP) – Javier Brum, John Cormack, and Zhiyu Sheng
 5. Double, Double, Toil and Trouble.... Towards a Cavitation Dose (PA) – Christy Holland and Eleanor Stride
 6. Biomedical Acoustics Student Poster Competition – Kevin Haworth and Ken Bader

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

- ICA also has daily plenary speakers – please reach out if you have ideas for potential good speakers
 - Looking for diversity!



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

- Request for Acoustical Society of Japan (ASJ) co-chairs
- Kenji Yoshida (kenyoshi1980@chiba-u.jp)
- Tentative sessions:
 1. Lung Ultrasound - Libertario Demi and ASJ?
 2. In vivo applications of quantitative ultrasound – Jonathan Mamou and Tadashi Yamaguchi
 3. Ultrasound super-resolution and brain – Chengzhi Shi, Fabian Kiessling, and ASJ?
 4. Ultrasound blood flow imaging/quantification – Michel Versluis, Chris de Korte, Yoshifumi Saijo, and Hideyuki Hasegawa

https://docs.google.com/forms/d/e/1FAIpQLScR3bUfHiRKZxb4v9tNN-g60Yzlag7TIDt8sthsy-DyMg3kA/viewform?usp=sf_link



Thank you BATC Representatives!

- Membership Committee: Bob McGough
- Medals and Awards: Vera Khokhlova
- ASACOS: Wayne Kreider
- Archives and History Committee: Julianna Simon
- Research and Education: Vera Khokhlova
- TPOM – John Cormack and James Kwan
- Student Rep: Chirag Gokani

Sign in QR code

