187th MEETING OF THE ACOUSTICAL SOCIETY OF AMERICA-VIRTUAL TECHNICAL SESSIONS					
Session Type	Title	Description	Cosponsor	Organizers	
	A	COUSTICAL OCEANOGRAPHY			
Traditional	Acoustical Oceanography: Teaching Curriculum and In-class Demos	demonstrations.	3	David Barclay	
Panel Discussions Invited Submissions Only	Careers in Underwater Sound	First-hand accounts of the various career paths that involve underwater sound, followed by a Q&A	AB, UW	TBD	
Lightning Round Student Submissions Only	Degree in Progress: Student Led Research	Rapid presentations with priority on student presentations, with senior members evaluating the talks.	AB, UW	Elizabeth Weidner	
Panel Discussions Invited Submissions Only	Program Managers Roundtable	Program managers will discuss their perspective on AO research, followed by a Q&A.	UW	Lauren Freeman	
Lightning Round	What's That Sound?	Collaborative discussion where members help each other identify possible sources of sound in underwater recordings. Audio samples will be posted online before the meeting. Presenters will provide context.	-	David Barclay	
	T	ANIMAL BIOACOUSTICS		1	
		This session will be similar to other societies Power Point Roulettes where speakers will sign up to present an unknown-to-them set of slides and give extemporaneous talks. This is a great exercise for impromptu public speaking practice, or stand-up improv, if that's your jam. The session chair will curate the slides ahead of time for participants. No promise that topics will be divided among technical committees lines (that would be too easy). Bring			
Competitive/Cooperative Activities Invited Submissions Only	Acoustical DJ: Mixed & Matched Research Topics on Sound	your funny bone and your best impressions of whatever animal you may be saddled to sound like		Kerri Seger	
Traditional	Animal Bioacoustics Virtual Lab Tours	Behind the scenes of the animal bioacoustics labs! Participants will give virtual lab tours, either through live walk-though sessions or pre-recorded videos.	:	Micheal Dent, Laura Kloepper	
Traditional	Climate Change and Animal Bioacoustics	Showcasing the latest research intersecting animal bioacoustics and climate change		Ed Walsh	
Panel Discussions Invited Submissions Only	Spanning the Career StagesA Conversation	A candid conversation about managing a career in animal bioacousticsthe panel will contain representatives spanning career stages and research fields.	•	Laura Kloepper	
Lightning Round Students/Early Career Only	Lightning Talks	,		Marissa Garcia, Laura Kloepper	
	1	ARCHITECTURAL ACOUSTICS		1	
Traditional	Acoustics of Sustainable Building Assemblies and More	Presentations on the latest work done by professionals in building acoustics to with issues in building sustainability - a potpourri session in sustainability.		Arthur van der Harten, Jonathan Broyles, Kristen Murphy, Adam Bettcher	
Lightning Round		Unique approaches for estimating, controlling, and solving building systems noise and vibration issues. Topics may include noise prediction software and their limitations, emerging equipment typologies, or unexpected perceptual responses to mechanical noise, tones, and vibration.		Brandon Cudequest, Joe Keefe	
Traditional	Improved Low Frequency Absorption Testing	How to obtain accurate absorption material parameters that		Ronald Sauro	

Panel Workshop Invited Submissions Only	Modeling Techniques and Computer Tools	This session will give a hands-on demonstration of several computer tools for architectural acoustics applications, with a focus on early career and student attendees.		Laura Brill, Ana M Jaramillo
Traditional/Panel Invited Submissions Only	The Unknown Unknowns: A Deep Look at Uncertainty and Precision in Architectural Acoustics			Ben Shafer, Evelyn Way, Mike Raley
		BIOMEDICAL ACOUSTICS	T	
Lightning Round Student/Early-Career Preference	Bubble-Based Therapies	Lightning talks on bubble-based therapies, including monitoring of those therapies. Preference will be given to students and early career.		Mitra Aliabouzar, Eric Rokni
Panel Discussions Invited Submissions Only	Debate: Nanobubbles–Can They Do Anything?	A debate about the future of nanobubbles in biomedical acoustics.		Eleanor Stride
Traditional	Show Me Your Lab Crib!	Video tours of biomedical acoustics labs, including possible demos and experiments!		Timothy Hall, Ellen Yeats
Panel Discussions Invited Submissions Only	Transitioning Technology from Idea to Industry	This session will be a panel discussion on how to move ideas in the lab to a commercial product.		Thomas Matula
Webinar with Panel Discussions Invited submissions Only	Tutorial: Hydrophones and Cavitation Monitoring	This session will have two components. 1) Hydrophone measurement methods for biomedical ultrasound and 2) Methods and uses of passive cavitation detection (PCD, cavitation vs. time) and passive acoustic mapping (PAM, 2D/3D cavitation spatiotemporal imaging). The session will cover best practice and is meant for students learning about the topics and as a refresher.		Jeffrey Ketterling
	_	OMPUTATIONAL ACOUSTICS		
Panel Discussions Invited Submissions Only	Artificial Intelligence vs. Human Listening to Music: Problems and Solutions High-Performance Computing and	This panel discussion opens a conversation about the current Al research on listening and psychoacoustic research on listening; problems and solutions. High-performance computing and parallelization methods	ED, MU	Andrea Calilhanna
Panel Discussions	Artificial Intelligence vs. Human Listening to Music: Problems and Solutions	This panel discussion opens a conversation about the current Al research on listening and psychoacoustic research on listening; problems and solutions.	ED, MU	Andrea Calilhanna Ralph Muelheisein, Alex Higgins
Panel Discussions Invited Submissions Only	Artificial Intelligence vs. Human Listening to Music: Problems and Solutions High-Performance Computing and	This panel discussion opens a conversation about the current Al research on listening and psychoacoustic research on listening; problems and solutions. High-performance computing and parallelization methods and applications in acoustics Recent innovations, significant developments, and novel applications in computational acoustics. This technical session will prioritize opportunities for students and early career acousticians to showcase their work.	ED, MU	
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Panel Discussions Invited Submissions Only Panel Discussions Traditional Student/Early-Career Priority	Artificial Intelligence vs. Human Listening to Music: Problems and Solutions High-Performance Computing and Parallelization Innovations in Computational Acoustics Interactive Computational Acoustics	This panel discussion opens a conversation about the current Al research on listening and psychoacoustic research on listening; problems and solutions. High-performance computing and parallelization methods and applications in acoustics Recent innovations, significant developments, and novel applications in computational acoustics. This technical session will prioritize opportunities for students and early career acousticians to showcase their work. Showcasing interactive online demos that can help users gain insight into the effects of various knobs that can be turned in the computational models This panel discussion aims to inform the development of best practices for preparing, maintaining, and distributing the large datasets needed to train and validate machine learning models across the technical areas of acoustics.	ED, EA, PA, UW	Ralph Muelheisein, Alex Higgins Laura Brill, Ralph Muehleisen, Jennifer Cooper Jennifer Cooper, Michelle Swearingen,
Panel Discussions Invited Submissions Only Panel Discussions Traditional Student/Early-Career Priority Lightning Round	Artificial Intelligence vs. Human Listening to Music: Problems and Solutions High-Performance Computing and Parallelization Innovations in Computational Acoustics Interactive Computational Acoustics Demonstrations Managing Machine Learning Datasets Across	This panel discussion opens a conversation about the current AI research on listening and psychoacoustic research on listening; problems and solutions. High-performance computing and parallelization methods and applications in acoustics Recent innovations, significant developments, and novel applications in computational acoustics. This technical session will prioritize opportunities for students and early career acousticians to showcase their work. Showcasing interactive online demos that can help users gain insight into the effects of various knobs that can be turned in the computational models This panel discussion aims to inform the development of best practices for preparing, maintaining, and distributing the large datasets needed to train and validate machine	ED, EA, PA, UW	Ralph Muelheisein, Alex Higgins Laura Brill, Ralph Muehleisen, Jennifer Cooper Jennifer Cooper, Michelle Swearingen, Subha Maruvada
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Panel Discussions Invited Submissions Only		The advent of inexpensive flexible low-power electronics and additive manufacturing have made it possible to build cost-effective experimental apparatuses for laboratory and point-of-need data acquisition, making research and engineering in acoustics more accessible than ever before. Contributions that describe the design and/or demonstrate the use of cost-effective hardware for research or instructional use are encouraged. Emphasis is made on new acoustics science and education enabled by frugal solutions as well as creative applications of existing methods.	Randy Williams, Luz Sotelo
Traditional		Contributions on unique and emerging topics in engineering acoustics	Ahmed Allam
Panel Discussions Invited Submissions Only		Demonstrations and lab tours of unique measurement capabilities.	Gary Elko, Michael Haberman
Traditional	Transducer Design and Characterization	Recent research on acoustical and vibrational transducers design and characterization for all areas in acoustics.	Thomas Blanford
		EDUCATION IN ACOUSTICS	
Lightning Round Students Only		Students present their research in 5-minutes by following the specific format of five slides, in order, a Title/Author/Affiliation slide, an Outline slide, a Problem Description/Motivation slide, a Proposed Approach/Alternative slide, and a Summary/Conclusion slide (https://alert.northeastern.edu/diy-project/give-a-5-minute-presentation/).	Daniel Russell, Keeta Jones
Webinar and Discussion Invited Submissions Only	Teaching and Learning Acoustics with Jupyter	Webinar by Dr. Matthew Wright (Professional Fellow in Education at the University of Southampton) on the use of browser compatible documents (using code in JuPytR = Julia, Python, or R) that he uses to teach students how to program, and how to learn mathematical acoustics. A Discussion will follow.	Daniel Russell
Webinar and Discussion Invited Submissions Only	Tones, Tines, and Tings–Virtual Demonstration	David Cotton (@Newmanphyscis on Twitter/X) is a recent awardee of the Anthony Waterhouse Fellowship from the Institute of Physics (IOP). This webinar will showcase a number of acoustics, sound, and vibration demonstrations, many of which utilize relatively simple apparatus.	Daniel Russell
Lightning Round		What does your research SOUND like? Play the sound, then briefly explain what causes it, how it relates to your research project, why that sound is relevant, what the sound reveals about your topic of study. Two rounds of 5-mniute lightning talks. First hour — for STUDENTS only. Second hour for FACULTY / INDUSTRY. At the end of each hour we'll have a "Guess that Mystery Sound".	Daniel Russell, Keeta Jones, Andrew Morrison
Lightning Round		Share a book, blog, paper, video, talk, etc. that influenced you or inspired you to make changes to your teaching or your approach to the classroom. 5-minute talks. Two 45-minute lightning rounds with 15 minutes of discussion.	Daniel Russell, John Buck
		MUSICAL ACOUSTICS	

		Development and application of Al models, including—but		
		not limited to: generative design algorithms to optimize acoustics, ergonomics, or material properties of musical		
		instruments; methods for collecting and curating training		
		data for machine learning techniques; and feature		
		extraction to identify characteristics associated with		
		acoustical properties that affect the sound of an instrument in relation to design elements. Papers related to		
	Artificial Intelligence Applied to Musical	Computational Acoustics (TCCA) are welcome to join this		
Traditional	Instrument Design	session	CA	Michael Prairie
		Live or recorded tutorials on how to measure variables		
		typically used in musical acoustics research or in the design		
		and construction of musical instruments. Emphasis can be		
Competitive/Cooperative Activities		on best practices, novel approaches, or small-budget hacks, featuring equipment, facilities, software, and/or		
Invited Submissions Only	Demonstrations of Measurement Techniques	techniques.		Andrew Piacsek, Gary Scavone
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		This session address the use of telematic technologies and		
	Francis a Tankania fan Talamakia Musia	video conference capabilities in areas pertaining to Musical		
Competitive/Cooperative Activities	Evolving Technologies for Telematic Music Connections	Acoustics. The session focuses on collaborative music played over the internet but goes well beyond this topic.		Jonas Braasch, Samuel R.V. Chabot
Competative/Cooperative / Cavitaes	Connections	Session without a defined topic authors across all areas in		Contas Braascri, Carnaci IX.V. Chabet
Lightning Round	General Topics in Musical Acoustics	musical acoustics can contributed to.		Montserrat Pàmies-Vilà, Jonas Braasch
		Quick demonstrations of original software, or customized		
		application of commercial platforms, that provides visualization and/or auralization that aids the understanding		
		of sound generation in musical instruments. Presentations		
		followed by a panel discussion. Presenters are encouraged		
	·	to upload software to a repository accessible to session		
Lightning Round	Acoustics	attendees.		Andrew Piacsek
		NOISE In a world in which modified exhausts, aftermarket mufflers,		
		straight pipes, loud sound systems, and drag racing thrive,		
		and beleaguered citizens request noise cameras, the		
		proposed session A World of Vehicle Noise seeks papers		
		that examine vehicle noise problems and potential		
Traditional	A World of Vehicle Noise	solutions, successes and failures, without limits as to the type of vehicle noise.		Jeanine Botta, Daniel Fink
		7		Jeanine Botta, Danier i liik
Traditional		Covering broad topic of noise control and society. Will include traditional papers plus a panel discussion.		Tracy Yat Sze Choy, Ning Xiang
Lightning Round	and 000.01	Invited panel will talk about their career paths and answer	Practitioners	, ·, ·g
Invited Submissions Only	Career Paths in Noise Control	questions	and Industry	James Phillips
		Current state and challenges of aircraft noise regulations		
Panel Discussions		across the world. Panel speakers will each be invited to give a 10-minute live talk, and a panel discussion with Q&A		
Invited Submissions Only		will follow.		Alexandra Loubeau, Victor Sparrow
				and the state of t
		Following an introduction presentation the panel will focus		
David Dia		on the future of soundscape in discussing examples of		Privite October 5 11 22 11
Panel Discussions Invited Submissions Only	Interventions in Soundscape	applied expertise and experience using the soundscape method in city planning and interventions.	AA, ASACOS	Brigitte Schulte-Fortkamp, Bennett Brooks, David Woolworth
invited Submissions Only	interventions in Soundscape	PHYSICAL ACOUSTICS	/AA, AGACOS	DIOUNS, DAVID WOOIWOITT
Competitive/Cooperative Activities		Experiments and demos streaming from the beamline at the		
Invited Submissions Only	Acoustics at the Beamline	Advanced Photon Source		Ross Hrubiak, Blake Sturtevant

Panel Discussions		A senior ASA member will answer 'ask me anything' type		
Invited Submissions Only	Ask Me Anything	questions		Christopher Kube
		The advent of inexpensive flexible low-power electronics		
		and additive manufacturing have made it possible to build		
		cost-effective experimental apparatuses for laboratory and		
		point-of-need data acquisition, making research and		
		engineering in acoustics more accessible than ever before.		
		Contributions that describe the design and/or demonstrate		
		the use of cost-effective hardware for research or		
		instructional use are encouraged. Emphasis is made on		
		new acoustics science and education enabled by frugal		
		solutions as well as creative applications of existing		
Traditional	Frugal Acoustics	methods.	EA	Luz Sotelo, Randy Williams
Traditional		This session highlights major discoveries and high impact		
Invited Submissions Only	Hot Topics in Physical Acoustics	research in the field of physical acoustics.		Andrea Arguelles, Lauren Katch
	-	Students only. Students will submit recorded 5 minute		_
Competitive/Cooperative Activities		videos about their research project. Top 12 will be selected.		
Student Participation Only	Student Video Competition		EA	Joseph Turner
-	PSYCHOLO(GICAL AND PHYSIOLOGICAL ACOUSTICS		
		Present a graph from a classic or recent paper. Perhaps a		
		graph that you love to teach, or one that changed your		
		conceptions in a fundamental way. Explain what makes it		
	My Favorite Graph in Psychological and	exceptional. There may be discussion and/or judging of		
Lightning Round	Physiological Acoustics	presentations.		Sunil Puria, Dan Tollin
		Panel will discuss approaches advances in remote testing		
		for psychological and physiological acoustics. Panel		
		members will be invited but submissions from interested		
Panel Discussions	Panel on Remote Testing	participants will be considered for inclusion.		Ellen Peng, Erol Ozmeral
		This session invites submissions for traditional (but virtual)		· ·
		presentations on any topic within psychological and		
Traditional	Psychological and Physiological Acoustics I	physiological acoustics.		Andrew Oxenham
		This session invites submissions for traditional (but virtual)		
		presentations on any topic within psychological and		
Traditional	Psychological and Physiological Acoustics II	physiological acoustics.		Chad Bullard
	, , , ,	Trainees only (i.e., all students, postdocs, medical student		
		trainees). Brief presentations on current research. A		
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Lightning Round				
Lightning Round Trainees. Postdocs. Students.		committee will judge and select the top 6 presentations for		
Lightning Round Trainees, Postdocs, Students, Medical Students	Lightning Round Competition			Varsha Rallapalli, Greg Ellis

Lightning Round Invited Submissions Only Explainable Artificial Intelligence Explainable Artificial Intelligence Explainable Artificial Intelligence Environmentally-aware autonomous platforms hold promise for the sacetilitic community and visit be related on a variety conclusions native therm material environmentally-aware autonomous platforms hold promise for the sacetilitic community and visit be related on a variety conclusions native therm material environmentally-aware autonomous platforms hold promise for the sacetilitic community and visit be related on a variety conclusions. Season aims to bisentify techniques through againg processing and M.t. to advance the autonomy of the vehicle platement from the variety and processing and M.t. to advance the autonomy of the vehicle platement from the platement from the vehicle platement from the		SIGN	NAL PROCESSING IN ACOUSTICS		
Lightning Round Invited Submissions Only Explainable Artificial Intelligence Evidence Intelligence Ev					
Lightning Round Explainable Artificial Intelligence Explainable					
Lightning Round [Implication Explainable Artificial Intelligence Conclusions have been made in a machine learning model. CA Bernico Kubicek, Ananya Sen Gupta					[!
Environmentally-aware autonomous platforms hold promise for the scientific community and will be related not availeby of in-skill observations (i.e. active and passive sonar, camera observations, etc.). This session will be related not availeby of in-skill observations (i.e. active and passive sonar, camera observations, etc.). This session will be related the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through a south to advance the autonomy of the vehicle platforms through a south through a south through a south through and apply the transformation and through a south through a south thro			or after training, or any method that explains why	<i>'</i>	<u> </u>
for the scientific community and will be reliant on a variety of in-stud observations, (i.e. active massive sonar, camera observations, etc.). This assiston aims to identify techniques through signal processing and ML to advance the autonomy of the vehicle platforms through sound to some and react in a non-stateonary mornment. AD. U.W. Ryan McCarthy. Read McCain Lettwich, Natalia Signal Processing Potpourin processing. Traditional Signal Processing Potpourin processing. This assiston will combine "lightning" talks by students for any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of a substanct will appear a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and the silver	Invited Submissions Only	Explainable Artificial Intelligence	conclusions have been made in a machine learning model.	CA	Bernice Kubicek, Ananya Sen Gupta
for the scientific community and will be reliant on a variety of in-stud observations, (i.e. active massive sonar, camera observations, etc.). This assiston aims to identify techniques through signal processing and ML to advance the autonomy of the vehicle platforms through sound to some and react in a non-stateonary mornment. AD. U.W. Ryan McCarthy. Read McCain Lettwich, Natalia Signal Processing Potpourin processing. Traditional Signal Processing Potpourin processing. This assiston will combine "lightning" talks by students for any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of any working falling under the broad category of Signal Processing in Acoustics for the first his order of a substanct will appear a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and people can come and go from the torons and engage in a conversation and show-and-tell with the silver and the silver		'	Environmentally-aware autonomous platforms hold promise		
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	Traditional	Acoustic Metamaterials	Exploring design and properties of acoustic metamaterials	EA, PA	Popa, Bhisham Sharma

	1	This session invites radical, outrageous, or transformational	I	
	Blue Sky Ideas in Structural Acoustics and	ideas that explore the future of structural acoustics and	i l	
Lightning Round	Vibrations	vibration.		Bisham Sharma, Nathan Geib
	General Topics in Structural Acoustics and	A session of general talks related to structural acoustics	3	
Traditional	Vibrations	and vibration		Robert Koch, Micah Shepherd
		The lab tour session will consist of virtual visits to several	ı	
	l	structural acoustics and vibrations labs to explore what	t	
Competitive/Cooperative Activities	Lab Tours in Structural Acoustics and	research or commercial activities these labs are engaged	lt.	
Invited Submissions Only	Vibrations	in		Michael Dickerson, Chengzhi Shi
		Panel discussion on structural acoustics and vibrations	3	
Panel Discussions	Panel Discussion–Structural Acoustics and	career paths with panelists representing academia,	,	Christina Naify, Benjamin Beck, Alexey
Invited Submissions Only	Vibrations	government, and industry		Titovich, Feruza Amirkulova
		UNDERWATER ACOUSTICS		
Competitive/Cooperative Activities		Instrumentation/Lab Show and Tell from scientists and	<u> </u>	
Invited Submissions Only	Instrumentation/Lab Show and Tell	future scientists	AO, EA	Jie Yang, Aubrey Espana
Panel Discussions	Invited Speaker Talk Outside the Field of			
Invited Submissions Only	Underwater Acoustics	Distinguished speaker talk from field outside of UW	AO	David Dall'Osto
Lightning Round	Lightning Round Led by Students	Interesting research highlights from the students	AO	Natalie Kukshtel
Competitive/Cooperative Activities			1	
Invited Submissions Only	Trivia Among AO/AB/UW	Trivia among TC AO/AB/UW	AO, AB	Robert Drinnan
Webinar			1	
Invited Submissions Only	Webinar on Python and Data Analysis	Python and data analysis	AO, EA	Tracianne Neilsen, Tyler J. Flynn