Noise-Con 2025 Technical Session Schedule

MONDAY 9 JUNE 2025

Start	End	Session	Paper Title	Primary Author	Chair	Meeting Room
10:15 AM	10:35 AM	**Building Acoustics - From Testing to Code**	*AIIC testing of floating floor systems: evaluating the effects of adhesives and fasteners*	Nicholas Roselli	Erin Dugan Mike Raley	**Tamarack AB**
10:35 AM	10:55 AM		*Overland warehouse impact sound rating tests and mass timber implications*	Christopher Barnobi		
10:55 AM	11:15 AM		*Uncertainty in ASTM E492 "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine"*	Matthew Golden		
11:15 AM	11:35 AM		*A brief history of optimization in the face of uncertainty in building sound transmission loss laboratory testing*	Benjamin Shafer		
11:35 AM	11:55 AM		*Understanding laboratory uncertainty and its relation to code compliance*	Mike Raley		
11:55 AM	12:15 PM		*Addressing psychoacoustic uncertainty in noise codes*	Charles Oppenheimer		
10:15 AM	10:35 AM	**Transportation Noise - FHWA Traffic Noise Model**	*Comparing worst hour traffic volumes derived from FHWA DANA/TNMAide and VDOT ENTRADA*	Adam Alexander	Adam T. Alexander Cole Martin	**Tamarack C**
10:35 AM	10:55 AM		*TNM sub-source height analysis – TNM-defined heavy truck versus user-defined heavy truck*	Jonathan Higginson		
10:55 AM	11:15 AM		*Evaluating techniques for modeling buildings in the FHWA TNM*	Eric Moskus		
11:15 AM	11:35 AM		*Comparison of post-construction barriers in TNM 2.5/3.x*	Cole Martin		
10:15 AM	10:35 AM	**Renewable Energy Noise - General Topics**	*Evaluation of sound emitted from a solar energy facility equipment pad*	Emma Butterfield	Michael Hankard Christopher J. Kaiser	**Tamarack DE**
10:35 AM	10:55 AM		*Experiences and lessons learned from solar energy facility post-construction noise studies*	Jacob Poling		
10:55 AM	11:15 AM		*BESS Noise and Interaction with the NYC Noise Code*	Gene Bove		
11:15 AM	11:35 AM		*Small wind turbine furling noise measurement*	Mark Storm		
11:35 AM	11:55 AM		*Simultaneous measurement of wind turbine noise at 1.5 and 4.0 meters*	Michael Hankard		
11:55 AM	12:15 PM		*Noise Management Strategies for Geothermal Projects*	Matt Cott		
10:15 AM	10:35 AM	**Industrial Noise - General Topics**	*Method for developing a sound power budget for large numbers of sound sources*	Jameson Dickman	David W. Herrin Jim Thompson	**Sugar Maple / Oak**
10:35 AM	10:55 AM		*Paper Cutter and Spa Pump Vibration Control Case Study*	Luke Saxelby		
10:55 AM	11:15 AM		*Industrial noise mitigations - From design to commissionning, the role of the acoustician consultant for success - A practical case*	Loic Sauvageot		
11:15 AM	11:35 AM		*Perceived psychological stress associated with medical device noise among healthcare workers*	Samuel Akosile		
11:35 AM	11:55 AM		*Effect of construction noise and control: a literature review*	Samuel Akosile		

11:55 AM	12:15 PM		*Design of Ultra low noise cooling tower and air cooled Generator*	Kps Ramesh		
1:45 PM	2:05 PM	**Building Acoustics - HVAC and Building System**	*Low natural frequency elastomeric vibration isolators for a screw chiller*	Benjamin Davenny	Jeffrey Fullerton Justin Meyer	**Tamarack AB**
2:05 PM	2:25 PM		*Reducing vibration transmission from a wall-mounted VRF system*	Jeffrey Fullerton		
2:25 PM	2:45 PM		*Silence is sustainable: achieving ASHRAE 189.1 & LEED IEQ 9.0 compliance*	Dan Burley		
2:45 PM	3:05 PM		*Quiet classrooms, focused minds: meeting national & CHPS acoustical standards*	Dan Burley		
3:05 PM	3:25 PM		*Building a new aero-acoustic lab: when construction becomes a research project*	Raine Stewart		
3:25 PM	3:45 PM		*Reduction of rooftop-mounted air-conditioning condensing unit noise for a multi-family residential building using an iterative approach*	Nathan Sevener		
1:45 PM	2:05 PM	**Transportation Noise - Abatement Strategies**	*Unlocking the Potential of Cost-Effective Alternative for Noise Abatement: A Case study of Existing Short Concrete Barriers in Maryland*	Oludare Owolabi	Christopher Menge Oludare Adegbola Owolabi	**Tamarack C**
2:05 PM	2:25 PM		*Evaluation of alternative highway noise abatement strategies for one community*	Christopher Menge		
2:25 PM	2:45 PM		*"In-kind" noise barrier replacement*	Catherine Robbins		
2:45 PM	3:05 PM		*Design-build noise abatement – cases, challenges, and solutions*	Joe Rauseo		
3:05 PM	3:25 PM		*Insights into the potential of Short Concrete Barriers as a Noise Abatement Strategy: A Survey of Current Practices Among State DOTs and Specialized Engineering Firms*	Pelumi Abiodun		
3:25 PM	3:45 PM		*GIS-Based Smart Mobility Solutions for Air and Noise Pollution Mitigation in Urban Transportation: A Review of Existing Approaches and Technologies*	Michael Okegbola		
1:45 PM	2:05 PM	**Community Noise - Rural Noise Environments**	*Hiding in plain sight - compatible noise levels for sparsely populated areas*	David Nelson	Sean Connolly Clint Cyr	**Tamarack DE**
2:05 PM	2:25 PM		*Community acceptance of new noise sources located in quiet rural environments*	David Parzych		
2:25 PM	2:45 PM		*Developing a noise ordinance for a rural township impacted by data centers*	Felicia Doggett		
2:45 PM	3:05 PM		*Evaluating rural noise levels using audibility and community response*	Sean Connolly		
3:05 PM	3:25 PM		*Rethinking significant noise impacts in rural communities*	Connor Burke		
3:25 PM	3:45 PM		*Integrating climate adaptation and noise mitigation: a review of transportation noise pollution under climate change*	Julius Etuke		
1:45 PM	2:05 PM	**Acoustic Materials – General Topics**	*3D printing of spider web-inspired sound absorbers*	William Johnston	J. Stuart Bolton Satya Deshpande	**Alder / Mountain Birch**
2:05 PM	2:25 PM		*Textured 3D printed membrane-type metamaterials with controlled performance*	William Johnston		
2:25 PM	2:45 PM		*Determining the characteristic impedance across a wide frequency range using a three-microphone impedance tube measurement*	Ziqi Chen		
2:45 PM	3:05 PM		*A multi-microphone technique for extending the upper-frequency measurement range in an acoustic impedance tube*	Jeong-Woo Kim		

3:05 PM	3:25 PM		*Reconstruction of Porous Microstructure Models for Validation and Estimation of Phenomenological Acoustic Parameters*	Ting-Shian Chen		
3:25 PM	3:45 PM		*Bioinspired acoustic metamaterials: mimicking the cuttlebone for advanced noise control applications*	Kara Hardy		
1:45 PM	2:05 PM	**Sources and Propagation – Outdoor Sound**	*Developments on ground blocking implementation in turbulence tool for sonic boom propagation*	Joshua Kapcsos	Victor Sparrow David Keith Wilson	**Sugar Maple / Oak**
2:05 PM	2:25 PM		*A perspective from two decades of analyzing the error bars on outdoor sound propagation predictions*	David Wilson		
2:25 PM	2:45 PM		*Using BPA CAFE corona noise results in a 3-D noise model*	Benjamin Copenhaver		
2:45 PM	3:05 PM		*Wind induced tonal noise from electrical power transmission infrastructure*	Dan Mennitt		
3:05 PM	3:25 PM		*Comparison of pressure release boundary condition and in-situ method for determining acoustic free velocity*	David Neihguk		
3:25 PM	3:45 PM		*Reciprocity validation of a low frequency volume velocity source inside various enclosures*	Matt Smither		
4:15 PM	4:35 PM	**Prediction and Modeling - General Topics**	*Numerical and Experimental Study on Valve Impact Induced Noise and Vibration for Rotary Compressors*	Dazhuang He	Rajesh Kumar Boorle Himanshu Dande	**Tamarack AB**
4:35 PM	4:55 PM		*A Tale of Two RPMs: Comparing estimated equipment sound levels using operational parameters to measured and published levels.*	Ginnie Demske		
4:55 PM	5:15 PM		*Notes on selection of measurement locations for inverse pellicular modes analysis source reconstruction*	David Herrin		
5:15 PM	5:35 PM		*Estimation of geometric tortuosity for bulk acoustic absorbers using the heat method*	Anthony Ciletti		
5:35 PM	5:55 PM		*A comparison of sound barrier effectiveness when using ISO 9613-2:1996 vs. ISO 9613-2:2024*	Spencer Davis		
4:15 PM	4:35 PM	**Transportation Noise - Highway Traffic Noise Sources**	*Determining correlation between various noise evaluation testing methods for passenger vehicles*	Carrie Janello	Ahmed El-Aassar Judy Rochat	**Tamarack C**
4:35 PM	4:55 PM		*Large-scale study of highway traffic vehicle noise – preliminary findings*	Judy Rochat		
4:55 PM	5:15 PM		*Deconvolved beamforming measurements to assess the vertical distribution of medium and heavy truck noise*	Blaine Harker		
5:15 PM	5:35 PM		*In with the new: comparing vehicle noise source distributions of the incoming electric vehicle fleet to existing powertrains*	Blaine Harker		
5:35 PM	5:55 PM		*Some Aspects of Characterizing Vehicle Noise Using Single Event and Maximum Pass-by Level*	Paul Donavan		
4:15 PM	4:35 PM	**Community Noise – Ambient Outdoor Sound**	*Best practices for conducting secure and defensible long-term sound measurements*	Paul Burge	Paul L. Burge T. Ryan Haac	**Tamarack DE**
4:35 PM	4:55 PM		*The effects of high-frequency natural sounds on ambient monitoring in Massachusetts*	Matthew Riegert		
4:55 PM	5:15 PM		*The Quietest Year-Using Film to Educate about Noise and its Health Impacts*	Karen Akins		
4:15 PM	4:35 PM	**Acoustics Material - Meta Materials**	*3D-printed porous ceramic liners for high-temperature noise control applications*	Nina Mendez	David W. Herrin Bhisham Sharma	**Alder / Mountain Birch**
4:35 PM	4:55 PM		*Acoustic Band Gaps and Sound Attenuation of Triply Periodic Minimal Surface-Based Metamaterials*	Kamal Sirivuri		

4:55 PM	5:15 PM		*Enhancing grazing incidence sound absorption in three-dimensional printed triply periodic minimal surfaces through geometric asymmetry*	Janith Godakawela		
5:15 PM	5:35 PM		*Metamaterial application to reduce noise transmission through glass*	Steve Sorenson		
5:35 PM	5:55 PM		*AI-Driven Optimization of Acoustic Metamaterials for Low-Frequency Noise Attenuation in Aerospace Applications*	Tenon Charly Kone		
4:15 PM	4:35 PM	**Classic Papers**	*Overview of I.J. Sharland's 1964 paper on "Sources of noise in axial flow fans"*	William Johnston	Yangfan Liu	**Sugar Maple / Oak**
4:35 PM	4:55 PM		*Overview of Maurice A. Biot's 1956 paper on Theory of Propagation of Elastic Waves in a Fluid-Saturated Porous Solid. I. Low-Frequency Range*	Kara Hardy		
4:55 PM	5:15 PM		*Overview of Ffowcs Williams, J. E. and Hawkings, D. L.'s 1969 paper on Sound Generation by Turbulence and Surfaces in Arbitrary Motion*	Yidan Cui		
5:15 PM	5:35 PM		*Overview of Biot's 1956 paper on "Theory of propagation of elastic waves in a fluid-saturated porous solid 1. Low-frequency range"*	Ting-Shian Chen		
5:35 PM	5:55 PM		*Overview of R. Ross A. Coles; Georges R. Garinther and David C. Hodge ;Christopher G. Rice s' 1968 paper on Hazardous Exposure to Impulse Noise.*	Shaocheng Wu		

TUESDAY 10 JUNE 2025

Start	End	Session	Paper Title	Primary Author	Chair	Meeting Room
9:00 AM	10:40 AM	**Building Acoustics – Standards Workshop**	-	-	James Cottrell Greg Coudriet	**Tamarack AB**
9:00 AM	9:20 AM	**Transportation Noise – Underwater**	*Underwater Noise*	Josh Wilson	Michael Bahtiarian Carrie J. Janello	**Tamarack C**
9:20 AM	9:40 AM		*The commercial era of vessel underwater radiated noise: past, present, and future*	Michael Bahtiarian		
9:40 AM	10:00 AM		*Guidelines for reducing underwater noise from commercial vessels*	Jesse Spence		
9:00 AM	9:20 AM	**Community Noise – Policy and Noise Metrics**	*Identification of Metrics to Assess Community Response to Leisure Sounds*	Dana Lodico	Emma Butterfield Andrew Schad	**Tamarack DE**
9:20 AM	9:40 AM		*Zero Pollution Action Plan - The potential for noise reduction in Germany*	Matthias Hintzsche		
9:40 AM	10:00 AM		*Sounding the alarm in public health: The case for integrating high quality noise exposure into US health studies*	Stephanie Grady		
10:00 AM	10:20 AM		*A holistic look at noise regulation outcomes on communities*	Andrew Schad		
9:00 AM	9:20 AM	**TQA Workshop I**	*2024 Technology for a Quiet America (TQA) workshop "Urban Noise – Impact and Control Workshop" - An overview of presentations and recommendations*	Robert Hellweg	Patricia Davies Robert D. Hellweg	**Alder / Mountain Birch**
9:20 AM	9:40 AM		*Urban noise impact and control of commercial/institutional and industrial activity*	James Barnes		
9:40 AM	10:00 AM		*Construction noise control and regulations: What works and what does not*	Erich Thalheimer		

10:00 AM	10:20 AM		*Annoyance and sleep disturbance from road traffic and railway noise: Exposure-response associations and effects of quiet facades in Norway*	Tor Oiamo		
10:20 AM	10:40 AM		*Assessing and addressing occupational and environmental noise in America*	Richard Neitzel		
11:15 AM	11:35 AM	**Building Acoustics – Measurements and Modeling**	*Systems Engineering (SE) method for acoustics consultants: introducing SE into complex building projects*	Jon Mooney	James Cottrell Greg Coudriet	**Tamarack AB**
11:35 AM	11:55 AM		*Patented health condition detection device based on noise and how it relates to acoustic engineering*	Bonnie Schnitta		
11:55 AM	12:15 PM		*Spatial localization of sound transmission deficiencies using the sound field scanning method*	Antoine Decloux		
12:15 PM	12:35 PM		*A multi-resolution SEA methodology for efficient modeling of large industrial spaces*	Tom Burns		
11:15 AM	11:35 AM	**Transportation Noise – Rail Noise and Vibration**	*A reassessment of light rail transit noise impact based on current conditions using Federal Transit Administration guidelines*	David Towers	Tara Elizabeth Cruz Herbert Singleton	**Tamarack C**
11:35 AM	11:55 AM		*OOR and Track Defects: Analyzing Transient data with the Wavelet Transform*	Cuauhtemoc Mendez Suarez		
11:55 AM	12:15 PM		*Reducing rail noise in tunnels, cuts and on viaducts using strategically placed sound absorbers*	Lisa Rienstra		
12:15 PM	12:35 PM		*MBTA New Transit Vehicle Tests*	Tara Cruz		
11:15 AM	11:35 AM	**Community Noise – Recreation/Outdoor Sports**	*Pickleball noise - an update*	James Moore	Andrew Carballeira Mark Storm	**Tamarack DE**
11:35 AM	11:55 AM		*Is pickle ball noise highly impulsive?*	Naomi Jensen		
11:55 AM	12:15 PM		*Prediction and assessment of impulse noise caused by regular ball impacts in pickleball*	Antonio Notario Tevar		
12:15 PM	12:35 PM		*Pickleball Paddle And Ball Impact Noise*	Jarret Stiles		
11:15 AM	11:35 AM	**TQA Workshop II**	*Annoyance Model Assessments of Urban Air Mobility Vehicle Operations*	Andrew Christian	Patricia Davies Robert D. Hellweg	**Alder / Mountain Birch**
11:35 AM	11:55 AM		*The Oregon experience in controlling urban noise through noise regulations*	Kerrie Standlee		
11:55 AM	12:35 PM		*2024 TQA Urban Noise – Impact and Control Workshop: panel discussions and recommendations*	Patricia Davies		
2:00 PM	2:20 PM	**Building Acoustics – Application of Standards**	*Are WELL Building Standard S02 sound levels too permissive of low frequency noise? Addressing the LFN in the room*	Douglas Leaffer	Julie Fischer Jeanette Hesedahl	**Tamarack AB**
2:20 PM	2:40 PM		*2021 IBC classroom acoustics - be in the know*	Iliana Schad		
2:40 PM	3:00 PM		*Study of ASTM C423 Repeatability and Reproducibility*	Kevin Herreman		
2:00 PM	2:20 PM	**Community Noise – General Topics**	*Feasibility study for a quiet chicken coop*	Charles Moritz	Charles Moritz Erich Steffen Thalheimer	**Tamarack DE**
2:20 PM	2:40 PM		*Backup Alarms: the noise scourge of construction projects*	Erich Thalheimer		

2:40 PM	3:00 PM		*Examples of noise control solutions and their effectiveness*	Viken Koukounian		
2:00 PM	2:20 PM	**Motor Vehicle Noise – General Topics**	*Optimizing tire NVH performance in electric vehicles: A comprehensive approach using benchmarking, simulation, and validation*	Ketan Paua	Steve Sorenson Jim Thompson	**Sugar Maple / Oak**
2:20 PM	2:40 PM		*Feature Analysis for Gear Growl in Electrified Powertrains*	Joohyun Lee		
2:40 PM	3:00 PM		*Automotive HVAC Blower Blade Pass Noise Sensitivity – A Case Study*	Tudor Ravineala		
4:00 PM	4:20 PM	**Building Acoustics – Wood Construction**	*Noise Mitigation Strategies For Vertical Sound Transmission in Buildings with Wooden Floor*	Ayobami Dunmoye	Julie Fischer Jeanette Hesedahl	**Tamarack AB**
4:20 PM	4:40 PM		*Acoustics in buildings with mass timber floor/ceiling assemblies: theory, practice and acoustical solutions.*	Michael Brown		
4:40 PM	5:00 PM		*Enhancing the vibration performance of mass timber floors: Effects of non-structural components*	Omer Tigli		
4:00 PM	4:20 PM	**Perception and Effects of Noise – General Topics**	*A Method to Simulate Printer Noise for Use in Psychoacoustic Tests*	Jinghe Yu	Andrew Christian Patricia Davies	**Tamarack C**
4:20 PM	4:40 PM		*Calibration of the Exterior Effects Room for psychoacoustic testing at NASA Langley Research Center*	Stephen Rizzi		
4:40 PM	5:00 PM		*The Impact of Residual Background Noise on the Learning Curve of Civil Engineering Students in Laboratory Environments at an HBCU*	Adeolu Banjo		
5:00 PM	5:20 PM		*Noise to Silence: A Comparative Study of Black University Students Transitioning from High to Low Noise Environments*	Grace Balogun		
4:00 PM	4:20 PM	**Prediction and Modeling – AI/Machine Learning**	*AI in acoustics: exploring practical approaches for working professionals*	Nicholas Pietrusinski	Tyler Dare	**Tamarack DE**
4:20 PM	4:40 PM		*Soundscape Source Classification*	Carter Paprocki		
4:40 PM	5:00 PM		*Enhancing Construction Noise Monitoring with AI and Machine Learning*	Rayan Shamas		
5:00 PM	5:20 PM		*Predicting the Impact of Climate Change on Aircraft Noise Propagation in the National Airspace System (NAS)*	Abiola Ajala		
5:20 PM	5:40 PM		*Acoustics Resonance Spectrometry (ARS) for Advanced Streaming Prognostics of Drivetrain System*	Matthew Gerdes		
4:00 PM	4:20 PM	**Experimental Techniques – General Topics**	*Exploration of OINR testing method by vehicle-mounted loudspeaker*	Matthew Foster	Stephen Hambric	**Alder / Mountain Birch**
4:20 PM	4:40 PM		*Multiple Microphone Miracles – Rejecting Unwanted Data from Your Measurements*	Stephen Hambric		
4:40 PM	5:00 PM		*Diffuse field sound absorption measurement uncertainty: A comparative study of chamber sizes and air absorption correction*	Charles Moritz		
5:00 PM	5:20 PM		*Measurement of perforate insertion loss with bias flow*	Jarret Stiles		
5:20 PM	5:40 PM		*Experimental Study of the Vibro-Acoustic Behavior of Liquid Applied Spray Damping (LASD) Coated Steel Panels*	David Neihguk		

4:00 PM	4:20 PM	**Information Technology – General Topics**	*Using hard disk drive surrogates*	Charles Oppenheimer	Seth Bard Charles Oppenheimer	**Sugar Maple / Oak**
4:20 PM	4:40 PM		*Standardization of the Sottek Hearing Model-based fluctuation strength calculation algorithm*	Roland Sottek		
4:40 PM	5:00 PM		*Ecma standardization plan: modular instrumentation for acoustic measurements*	Charles Oppenheimer		
5:00 PM	5:20 PM		*Method of Workload Generation for Rack Enclosed Systems with Open Source Tools*	Colin Masterson		
5:20 PM	5:40 PM		*New ECMA-425 statistical background correction standard*	Charles Oppenheimer		

WEDNESDAY 11 JUNE 2025

Start	End	Session	Paper Title	Primary Author	Chair	Meeting Room
10:30 AM	10:50 AM	**Building Acoustics – Leisure, Fitness & Other**	*Structure-borne Noise and Vibration from a Gondola Lift Terminal*	Ben Saunders	Justin Reidling	**Tamarack AB**
10:50 AM	11:10 AM		*Quantifying the practical suitability of locally reactive fitness floor build ups.*	Wilson Byrick		
11:10 AM	11:30 AM		*Heavy Weight Drop Sound Isolation in Fitness Centers*	Luke Saxelby		
11:30 AM	11:50 AM		*Testing vibration levels on floors in a chemistry laboratory building*	Steven Marshall		
11:50 AM	12:10 PM		*Transforming Classrooms and Offices to Quantum Computing Labs: Renovating an Existing University Building to a Low Vibration Facility*	Ethan Brush		
10:30 AM	10:45 AM	**Young Professional Presentations**	*Noise barriers and wildlife crossing research*	Ryan Barretta	Edward Duncan	**Tamarack C**
10:45 AM	11:00 AM		*Challenges and opportunities conducting noise and vibration measurements of rail frogs across multiple types of rail, vehicles, and diverse existing conditions.*	Paul Campbell		
11:00 AM	11:15 AM		*Advanced Acoustic Pressure and Structural Vibration Analysis in Ballast Water Tanks: Investigating the Impact of External Excitations on Noise Propagation in Dynamic Marine Environments Using NX and MATLAB*	Solomon Ochuko Ologe		
11:15 AM	11:30 AM		*Review of airship noise observations and literature*	Hugo Rost		
11:30 AM	11:45 AM		*An experimental approach to increase protected area visitors' awareness of the natural soundscape and boost visitor well-being*	Katharina Bremser		
10:30 AM	10:50 AM	**Community Noise – General Topics II**	*From detection to resolution: a case-study of a comprehensive approach to managing mining noise impacts on communities*	Pierra-Claude Ostiguy	Connor Burke Jacob Poling	**Tamarack DE**
10:50 AM	11:10 AM		*Facility and Community Collaboration on Solving a Noise Problem*	Marc Wallace		
11:10 AM	11:30 AM		*Noise control solutions*	Viken Koukounian		
11:30 AM	11:50 AM		*Modeling methods and measurements of noise emissions from utility-scale energy storage facilities*	Spencer Thomas		
11:50 AM	12:10 PM		*Acoustical consulting challenges in designing new power facilities*	Alexander Odom		