

Monday

	River Overlook A/B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
Session Chairs	Architectural Acoustics & Vibration Control	Enclosures	Transportation Noise (Air)	Classic Papers	
	Charles Splain Justin Meyer	David Herrin David Copley	Micah Downing Sarah McGuire	Yong-Joe Kim Steve Sorenson	
10:00 - 10:20	352 Budget vs. Acoustics: Get in the Game Early, Play Like a Team, Win Hannah Danielle Knorr KJWW Engineering	522 Measurement of Statistical Energy Analysis Parameters on a Test Enclosure David Herrin University of Kentucky	336 Real Time Helicopter Noise Modeling for Pilot Community Noise Awareness Eric Greenwood NASA Langley Research Center	524 Overview of C. E. Ebbing and T. H. Hodgson's 1974 paper on Diagnostic Tests for Locating Noise Sources: Classical Techniques (Part I); Signal Processing Techniques (Part II) Jonathan Chen University of Kentucky	
10:20 - 10:40	461 Investigation of Wind-Induced Noise in a High-Rise Condominium, A Case Study Peter B. Allen Acoustics By Design	367 Boundary Measurements in a Reverberation Chamber and Implications on Acoustic Enclosures David C. Copley, INCE Board Certified Caterpillar	347 Flyover Noise Simulation Using NASA's Coupled Aircraft System Noise Prediction and Auralization Frameworks Brian Tuttle Analytical Mechanics Associates, Inc.	525 Overview of A. H. Hakimi and R. P. Kachru's 1974 paper on Noise Reduction in Tractor Cabs by Isolation Mounting Steven Conner Campell University of Kentucky	
10:40 - 11:00	471 An attempt to use the Lombard effect to prescribe effective acoustical treatments in a university cafeteria space Casey Corrado Tufts University	477 Adding Muffler Elements to Partial Enclosures to Improve Performance David Herrin University of Kentucky	465 Noise Estimation for Future Large-scale small UAS Operations Vishwanath Bulusu University of California, Berkeley, California, USA and Linkoping University, Norrkoping, Sweden	526 Overview of Moreland's Controlling Industrial Noise by Means of Room Boundary Absorption Weiyun Liu, Weiyun Liu University of Kentucky	
11:00 - 11:20	334 Fitness Noise Impact in Mixed Use Buildings Walid M. Tikriti Acoustonica	320 TURBINE ACOUSTIC ENCLOSURES Corey Fuzak Solar Turbines Incorporated	357 Rotorcraft Acoustic Flight Testing for Community Noise Reduction Michael E. Watts, Michael E. Watts NASA Langley Res Ctr	527 Overview of T. Wolde's 1976 paper on Reciprocity Measurement of Acoustical Source Strength in an Arbitrary Surrounding Keyu Chen University of Kentucky	
11:20 - 11:40	378 Mitigating the effects of CrossFit weight drops with an inertia base system Richard Stephen Sherren Kinetics Noise Control	414 Power Generator Set - Acoustic Enclosure Modeling for Low Frequency Noise Prediction Shashikant More CUMMINS, INC.	512 Sound emission of heavy helicopters Jan Anders Marheim Avinor AS	523 Overview of R. L. Bannister's 1975 paper on Structural Models for Vibration Control Kangping Ruan, Kangping Ruan University of Kentucky	
11:40 - 12:00	567 Comparing force impulses for various fitness flooring assemblies Paul Gartenburg Pliteq Inc.			491 Overview of Ingard and Maling's 1974 paper on Physical principles of noise reduction: Energy considerations, noise reducing elements, and sound absorbing materials Rui Cao Purdue University	

	Building Acoustics Measurement and Modeling	Mining Noise	Transportation Noise (Rail)	Classic Papers	Leo Beranek Session
Session Chairs	Greg Coudriet Bruce Lachey	Hugo Camargo Jim Thompson	Paul Burge Herb Singleton	Yong-Joe Kim Steve Sorenson	Geroge Maling Eric Wood
1:30 - 1:50	344 Case Study: Measuring Vibration Transmission From Roadway to a Highly-sensitive Building Kyle Hellewell RWDI AIR Inc.	475 Noise from a Mine Shaft Ventilation Fan Richard Ruhala Kennesaw State University	330 Development of a GenSet locomotive noise contour model and comparison with measurements Jon W. Mooney FES Group / KJWW	365 Overview of Clifford Bragdon's 1974 paper on community noise: A status report Mahsa Asgarisabet Michigan Technological University	Introduction and Leo Beranek's Contributions to Noise and Vibration Control George C. Maling, Jr., Managing Director, Emeritus, Past President INCE-USA
1:50 - 2:10	398 Chiller Sound Radiation Measurements & Modeling Stephen Matthew Wells Pennsylvania State University Acoustics Graduate Student	402 Application of transfer path analysis techniques to determine noise source contribution in mining equipment Hugo Elias Camargo NIOSH/CDC	411 Abatement of rail noise - especially for infrastructure - Percy Appel German Environment Agency (Umweltbundesamt - UBA)	551 Overview of J. B. Moreland's 1976 paper on: Controlling Industrial Noise by Means of Room Boundary Absorption Yutong Xue Purdue University	Leo Beranek and his inspiring contributions to acoustical engineering at Müller-BBM in Germany Joachim Scheuren, Müller-BBM GmbH, Past President I-INCE
2:10 - 2:30	341 Field measured variation of low frequency impact noise in a wood frame building. Wilson R. Byrick Pliteq Inc.	401 Surveillance data and noise control development in mining Amanda Azman National Institute for Occupational Safety and Health	457 Examination of the Trade-offs Between Accuracy and Feasibility in Aspects Of Ground-Borne Vibration Propagation Testing Herbert L. Singleton, Jr., Board Certified Cross-Spectrum Acoustics, Inc	358 Pre-College Noise Control Education at Michigan Technological University Miles B. Penhale Research Assistant	Reflections on Consulting at BBN in the Early Days (1948-1970) William J. Cavanaugh Cavanaugh Tocci Associates Senior Principal and Founding Partner, Past President INCE-USA
2:30 - 2:50	389 Evaluation of Test Specimen Perimeter Sealing Material's Impact on Laboratory Testing of Diffuse Field Sound Absorption Brett J. Seward Johns Manville	394 Improved silencer design specifications for representative mine conditions Felipe Calizaya Mining Engineering, University of Utah	329 Transportation Noise Exposure Is Strongly Correlated With Increased Morbidity And Mortality Daniel Fink The Quiet Coalition		Leo Beranek - Contributions in Room Acoustics and Acoustic Standards Robert D. Hellweg Jr., Hellweg Acoustics, Past President INCE-USA
2:50 - 3:10	437 Optimized Acoustics Research Program Update: Achieving High Sound Isolation when a Suspended Acoustical Ceiling Runs Continuously Over Partial-Height Demising Walls Gary s. Madaras ROCKFON	375 Optimization of machinery noise in a bauxite mine using Genetic Algorithm Srinivas Rao National Institute of Technology			Leo Beranek and Speech Communication Paul R. Donovan Senior Scientist, Illingworth & Rodkin, Inc Past President INCE-USA

BREAK 3:10 to 3:40					Leo Beranek Session Continues Without a Break
	HVAC and Building Systems Noise Control	Mining Fan Noise	Construction Power Tools and Equipment		Leo Beranek Session (Continued)
Session Chairs	Jeff Fullerton Dan LaForgia	Shashikant More Amanda Azman	Bryan Beamer Dana Lodico		Geroge Maling Eric Wood
3:40 - 4:00	319 Upgraded Vibration Isolation of Dry-type Transformer Cores within an Electrical Unit Substation Jeffrey L. Fullerton, INCE Board Certified Acentech	399 Design of low speed rim driven ventilation fan for minimum noise Mark Pastor Hurtado Virginia Polytechnic Institute and State University (Virginia Tech)	385 The Blue Angel - News Christian Fabris German Environment Agency		3:10 - 3:30 PM Leo Beranek's Legacy: Harnessing Theory for Everyday Noise Control Engineering Gregory C. Tocci Senior Principal and Founding Partner, Cavanaugh Tocci Associates Past President INCE-USA
4:00 - 4:20	333 Pool Equipment Mechanical Noise Impact Walid M. Tikriti Acoustonica	381 Redesign of Rotor and Stators for Noise Reduction of Continuous Miner Scrubber Fan Kyle Schwartz AVEC Inc.	440 Reducing leaf blower noise: a product noise control success story David A. Nelson, INCE Board Certified Nelson Acoustics		3:30 - 3:50 PM Beranek's role in influencing noise & vibration control education and motivating students Raj Singh, Emeritus Professor, The Ohio State University,
4:20 - 4:40	458 Performance Evaluation of a Syntactic-Foam Water Hammer Arrestor Maxwell Franklin Toothman Georgia Institute of Technology		488 Comparison of ten circular saw blades using the feed rate adjusted sound power level when cutting MDF board Edward L. Zechmann, INCE Board Certified National Institute for Occupational Safety and Health		3:50 - 4:10 PM Leo Beranek's Influence on INCE-USA Joseph M. Cuschieri Fellow, Lockheed Martin Executive Director and Past President INCE-USA
4:40 - 5:00	495 Characterization of Sound Power Level Spectra Produced by HVAC Chillers With Double Helical Rotary Screw Compressors Under Various Operating Conditions Dan Hemme BAi, LLC & University of Texas at Austin		490 Comparison of the continuous and transient performance of five classical filter designs for impulsive noise characterization Edward L. Zechmann, INCE Board Certified National Institute for Occupational Safety and Health		4:10 - 4:30 PM Leo Beranek: curious, engaged, focused and practical Patricia Davies Professor, Purdue University Director, Ray W. Herrick Labs Past President INCE-USA
5:00 - 5:20	462 A Review of Prior Research on Assessing Insertion Loss and Breakout Transmission Loss of Ductwork David Herrin University of Kentucky		560 Lawn Mower Noise Leslie Blomberg Noise Pollution Clearinghouse		4:30 - 4:50 PM Evolution of Acoustical Consulting at BBN Eric W. Wood, Principal, Acentech, Past President INCE-USA
5:20 - 5:40	387 Descriptors of sound from HVAC&R equipment Weonchan Sung Ray W. Herrick Laboratories, School of Mechanical Engineering, Purdue University				4:50 - 5:30 PM Social gathering with colleagues and friends All

Tuesday

	Ballroom D	River Overlook A/B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
	Joint Session 904 Aerodynamic Noise Prediction and Validation	Joint Session 907 Aircraft Interior Noise	Sound Masking	Community Noise	Modeling	Passive Noise Control
Session Chairs			Jeanette Hesedahl James Cottrell	Eoin King Judy Rochat	Terance Connelly Wen Li	Steve Conlon Stuart Bolton
10:00 - 10:20	2016-01-1809 Flow Induced Interior Noise Prediction of a Passenger Car Alexander Schell Daimler AG	2017-01-1765 Noise Control Capability of Structurally Integrated Resonator Arrays in a Foam-Treated Cylinder NoahSchiller NASA Langley Research Center	451 Expanding the Use of Controlled Minimum Background Sound Throughout Healthcare Facilities Ric Doedens, Ric Doedens K.R. Moeller Associates Ltd.	489 Urban Sound Planning - needs and achievements for planning urban sound environments in practice Joachim Scheuren Müller-BBM GmbH	456 Scale Modeling of Acoustic Scattering David Herrin University of Kentucky	339 Noise Suppression in Low Pressure Hydraulic Systems Nathaniel Pedigo Georgia Institute of Technology
10:20 - 10:40	2017-01-1786 Experimental and Numerical Investigations on Control Methods of Cavity Tone by Blowing Jet in an Upstream Boundary Layer Hiroshi Yokoyama Toyohashi University of Technology	2017-01-1766 Target Setting and Prediction for Cabin Noise and Vibration in Aircraft Development Dirkvon Werne Siemens Industry Software	407 Adaptive Volume Control for sound masking systems: how it works and analysis of performance Andre L'Esperance Soft dB inc.	531 Old Town Portland Maine; the Bourbon Street of New England Michael A. Bahtiarian, INCE Board Certified Noise Control Engineering, LLC	505 A Comparison of Two Equivalent Source Methods for Noise Source Visualization Tongyang Shi, Tongyang Shi Purdue University	406 Studies on Influence of Geometrical Parameters of an Acoustic Black Hole Chenhui Zhao Stevens Institute of Technology
10:40 - 11:00	2017-01-1784 Inverse Method on Vehicle Panels for Wind Noise Source Identification Guillaume Baudet Renault	2017-01-1764 SEA Model Development for Cabin Noise Prediction of a Large Commercial Business Jet TonganWang Gulfstream Aerospace Corp	345 A Method of Enhancing Speech Privacy Ed Green Bruel and Kjaer Global Engineering Services	353 A Regulatory-Approved Regional Approach to Noise Management in Alberta's Industrial Heartland Christopher Bibby SLR Consulting	453 A Two-step Approach to Build a FEM Model of a Built-up Structure with Special Attention to Description of Boundary Conditions and System Damping Vignesh Jayakumar University of Cincinnati	393 Damping and Phase Accumulation in Finite and Infinite Structure Stephen C. Conlon Penn State Applied Research Lab
11:00 - 11:20	2017-01-1785 Characteristics of Non-stationary Sources of Wind Noise Measured with a Surface Pressure Array Paul Bremner AeroHydroPLUS			435 Estimating the Audibility of Mining Haul Trucks in a Remote National Preserve Sean M. Connolly Big Sky Acoustics	548 Characterization of Aircraft Components for SEA Modeling Himanshu Dande Gulfstream Aerospace Corporation	322 Absorption Characteristics of Acoustic Resonators Combined with Porous Foam Noah H. Schiller NASA Langley Research Center
11:20 - 11:40	2017-01-1783 Effect of Screens and Pinhole Size on Measured Fluctuating Surface Pressures Using a Micro-Electro-Mechanical Microphone Array Chris Todter Keppel Professional Services			565 Measuring and modeling the effects of tour vehicle noise in National Parks Kurt Fristrup National Park Service	503 Comparison of Methods for High Frequency Acoustic Radiation Analysis Zhidong Zhang Northrop Grumman Mission Systems	497 Optimization of acoustic performance of highly porous polyurethane foam using micro-structural based model Mohammad Sadegh GHOLAMI, PhD student Student
11:40 - 12:00	2017-01-1788 An Analysis on Automotive Side Window Buffeting using Scale Adaptive Simulation Kishore Chand Ullil Tata Technologies Ltd.			564 Continental perspectives of noise exposure and its effects Kurt Fristrup National Park Service	395 Comparison of Low Wavenumber Models for Turbulent Boundary Layer Excitation Peter D. Lysak Applied Research Laboratory, Penn State University	310 Analytical and Boundary Element Solutions to Rectangular and Circular Bulk-Reacting Lined Ducts Jundong Li University of Kentucky

	Joint Session 904 Aerodynamic Noise Prediction and Validation	Joint Session 902 Active Sound Enhancement	Vendor Presentations	Automotive Noise	Measurements	Passive and Active Noise Control
Session Chairs			Mandy Kachur Erin Dugan	Sanghoon Suh Tyler Dare	Andrew Bernard Jason Kunio	Tim Wu Taewook Yoo
1:30 - 1:50		2017-01-1755 Traditional and Electronic Solutions to Mitigate Electrified Vehicle Driveline Noises ScottReilly General Motors LLC	502 Building Acoustics Measurement Solutions in Field and Laboratory Environments Marek Kovacik Scantek, Inc.	373 New Engine Tunnel Insulation System for Commercial Trucks Zhiming Luo Aearo Technologies LLC - a 3M Company	421 Sound Intensity Mapping to Synthesize and Rapidly Optimize the Reduction of Machinery Noise Emission Steven Jorro E-A-R Thermal Acoustic Systems, Aearo Technologies LLC, a 3M company	482 An integral-based impedance-to-scattering matrix method for silencer analysis Peng Wang University of Kentucky
1:50 - 2:10		2017-01-1757 System for Augmenting the In-Cabin Sound of Electric Vehicles Ben Munday Ricardo UK Ltd	415 STC Sound Control Product Tests Paul L. Battaglia STC Sound Control	529 Weight minimization of noise treatments by balancing absorption and transmission performance Hyunjun Shin Purdue University	366 Use of CNT Thin-film Assemblies as Microphones through Hot-film Anemometry Micaela Madigan Thiery Michigan Technological University	380 Improved Low-Frequency Broadband Absorption using 3D Folded Cavity Acoustic Liners James M. Manimala Oklahoma State University
2:10 - 2:30		2017-01-1758 A Novel Method for Objective Evaluation of Interior Sound in a Passenger Car and Its Application to the Design of Interior Sound in a luxury passenger car Dong ChulPark Hyundai Motor Co	433 ROCKFON: the Acoustical Benefits of Stone Wool Gary s. Madaras ROCKFON	442 Study of Dynamic Characteristics of a Test Apparatus Developed to Build Squeak Propensity Database Gil Jun Lee Department of Mechanical and Materials Engineering, University of Cincinnati	467 Construction of a Spherical Sound Source from CNT Thin-film Micaela Madigan Thiery Michigan Technological University	454 The Effect of Additives on Vibration Damping in Polyvinyl Chloride and Acrylic Formulations Michael Funderburg Eastman Chemical Company
2:30 - 2:50	2017-01-1787 Digital Aeroacoustics Design Method of Climate Systems for Improved Cabin Comfort Jan Biermann BMW AG	2017-01-1754 A Research on Brand Sound Positioning and Implementing with Active Sound Design So YounMoon Seoul National Univ	537 Addressing MRI Isolation Requirements Richard Dennis Huckins Soundown Corporation	383 Wavenumber Processing of Accelerometers Embedded in Tires Tyler Patrick Dare Applied Research Laboratory, The Pennsylvania State University	355 Hydraulic Fluid-borne Noise Measurement and Simulation for Off-Highway Equipment Jinghao Liu Deere and Company	403 A methodology for the optimal positioning of damping sheets on panels Benoit Van Den Nieuwenhof Free Field Technologies, MSC Software Belgium
2:50 - 3:10	2017-01-1781 The Effect of HVAC Buffering on Automatic Speech Recognition Systems Joshua Wheeler Ford Motor Company	2017-01-1756 A Systematic Approach to Engine Sound Design for Enhancing Sound Character by Active Sound Design Kyoung-JinChang Hyundai Motor Co		439 The influence of sharpness on people's responses to wind noise inside automobiles Daniel Joseph Carr Purdue University	474 An assessment of background noise variability in a controlled laboratory environment Seth Bard IBM Hudson Valley Acoustics Lab	459 Analytical Modeling of a Particle Impact Damper on a Cantilever Beam Kamil Kocak Georgia Institute of Technology
3:10 - 3:30	2017-01-1782 Modelling and Optimization of Plug Flow Mufflers in Emission Control Systems Jobin Puthuparampil University of Toronto	2017-01-1753 Active Cancellation of Exhaust Noise over Broad RPM Range with Simultaneous Exhaust Sound Enhancement Ya-JuanBemman Eberspaecher Exhaust Technology GmbH		360 Transformation of the Subjective Magnitudes of Noise Discomfort of the Micro Commercial Vehicles into Their Corresponding Rating Scales Yu Huang Institute of Vibration Shock and Noise, School of Mechanical Engineering, Shanghai Jiao Tong University	498 Background Noise Sampling effect on the Statistical Background Noise Correction Charles Oppenheimer HP, Inc.	335 Active Control of Vibrations using an Audio Signal Processor Stephan Algermissen Researcher
3:30 - 3:50	SAE NVC paper 2017-01-1807 Using the Modal Response of Window Vibrations to Validate SEA Wind Noise Models Richard DeJong DeJong Engineering Services				506 Transmission loss: what can be done using sound intensity measurements at the aperture between coupled anechoic-reverberant rooms? Olivier Robin Groupe d'Acoustique de l'Université de Sherbrooke	

	(SAE session NVC200)	Joint Session 906 NVH Considerations for Hybrid and Electric Vehicles	IT and Data Center Noise	Automotive Noise	Measurements	
Session Chairs			Marco Beltman Kevin Herriman	Gordon Ebbitt Charles Moritz	Mark Storm Eoin King	
4:20 - 4:40		2017-01-1763 Evaluation of Multiple Electric Vehicle Sources and New Concepts Regarding Speed-Dependency Robert Rosenkranz TU Dresden	509 Proposed Large Format Printer Noise Measurement Procedures Charles Oppenheimer HP, Inc.	369 Active Noise Control of Automotive exhaust noise using carbon nanotube speakers SURAJ MADHAV PRABHU Michigan Technological University	318 Radiated shipboard noise from a research vessel in the Great Lakes Andrew Barnard, INCE Board Certified Michigan Technological University	
4:40 - 5:00		2017-01-1762 Electric Vehicle Detectability: Impact of Artificial Noise on Ability of Pedestrians to Safely Detect Approaching Electric Vehicles Dan Glaser General Motors LLC	363 Method of inverse-square law qualification of hemi-anechoic chambers for parallelepiped measurement surfaces in ISO 3744 Kohei Shimoda Fuji Xerox Co., Ltd.	332 Effect of Corrosion on Noise-Vibration-Harshness Characteristics and Performance of a cold end exhaust system Bharat Joshi FAURECIA CLEAN MOBILITY	486 Assessment of the influence of seasonal variation on road traffic noise. Eoin Anthony King University of Hartford	
5:00 - 5:20		2017-01-1889 Optimization of Electric Vehicle Exterior Noise for Pedestrian Safety and Sound Quality Todd Tousignant FEV North America, Inc	470 Calculating Frequency Dependent Sound Pressure Levels in Data Centers During Fire Suppression Discharges Stephania Vaglica, Stephanina Vaglica Tyco Fire Protection Products	543 Identification of Interior Noise Contributed from Partially Correlated Vibrational and Acoustical Sources Chenguang Wang Institute of Vibration Shock and Noise, School of Mechanical Engineering, Shanghai Jiao Tong University	388 Development of an Aircraft Intercom Replication System for Assessment of In-flight Intercom Acoustic Sound Pressure Levels Siliu Yang NRC Aerospace, Flight Research Laboratory, Ottawa, Canada	
5:20 - 5:40		2017-01-1890 The Analysis of the Stiffness-Damping Parameters of a H-Bahn Vehicle Xingyu Zhang Wuhan Univ of Technology	368 Performance Evaluation of Hard Disk Drives in Noisy Environments Trinoy Dutta Michigan Technological University	342 Effect of Gear Tooth Friction on the Vibro-acoustics of Hypoid Gears Srikumar Gopalakrishnan Graduate Student, Mechanical Engineering Department, College of Engineering and Applied Science, University of Cincinnati	469 Cost-effective Unmanned Aerial System Applications for Outdoor Noise Monitoring Mark Storm, INCE Board Certified AECOM	
5:40 - 6:00		2017-01-1892 Transient Vibration Simulation of Motor Gearbox Assembly Driven by a PWM Inverter Yosuke Tanabe Hitachi Automotive Systems, Ltd.	372 Analyzing the causes of failure of Hard Disk Drives due to acoustic noise with its modal parameters Siddharth Yogesh Parmar Michigan Technological University	408 Robust NVH Development of Steering Systems Using In-Situ Blocked Forces from Measurements with Low-Noise Driver Simulators Michael Sturm Robert Bosch Automotive Steering LLC		

Wednesday

	Ballroom D	River Overlook A/B	River Overlook C	River Overlook D	River Overlook E	River Overlook F
	Joint Session - 901 Lightweight Vehicle Construction Acoustic Design	Joint Session - 903 Product development methods: Cross-disciplinary tools and processes for delivering NVH attribute	Community Noise	Automotive	Measurements	
Session Chairs			Paul Burge Dana Lodico	Patricia Davies Gabriella Cerrato	John Gagliardi Troy Bouman	
	10:00-10:20 2017-01-1813 Acoustically Absorbing Lightweight Thermoplastic Honeycomb Panels James M. Jonza 3M Company					
10:30 - 10:50	10:20-10:40 2017-01-1815 Some Thoughts on Dissipative Sound Package Systems Pranab Saha Kolano and Saha Engineers Inc.	2017-01-1760 A Desktop Procedure for Measuring the Transmission Loss of Automotive Door Seals J StuartBolton Purdue University		494 Mapping of Automotive Vehicle Command Functions to a Subset of Pushbutton Sounds Matthew Edwards Georgia Institute of Technology	441 Evaluating Damping Treatments using Radiated Sound Power normalized by Input Mechanical Power John Zehme Aearo Technologies LLC, a 3M company	
10:50 - 11:10	10:40-11:00 2017-01-1816 Multi-Physics Simulation of Ultra-Lightweight Carbon Nanotube Speakers Mahsa Asgarisabet Michigan Technological University	2017-01-1761 Integration of an end-of-line system for vibro-acoustic characterization and fault detection of automotive components based on acoustic particle velocity measurements Graciano Carrillo Pousa Microflow	496 Estimating long-term noise levels from short-term noise measurements and a long term reference location Paul L. Burge, INCE Board Certified AECOM	294 Microphone Array Measurement Based Contribution Analysis of Aeroacoustic Noise Sources to Interior Noise of Automobiles Yong-Joe Kim Texas A&M University	434 Hammering sound characteristics of tunnel by rotary hammer inspection equipment Yuichi Yonemoto RION Co., LTD.	
11:10 - 11:30	11:00-11:20 2017-01-1817 Two-Component Injection Molding as a Noise Countermeasure for Polycarbonate Glazing Steven M. Gasworth SABIC	2017-01-1773 The Dual Phase Twin Synchronous Belt Drive Jing Yuan Gates Corporation	455 Novel Approach to Visualization of SoundPLAN Data for Analysis of Mining Noise Michael L. Raley Acoustics By Design	413 Gasoline turbo-boosted direct injection engine calibration impact on tail pipe acoustics utilizing Design for Six Sigma Xin Hua Faurecia Clean Mobility	555 Modified Time Difference of Arrival Algorithm for Sound Source Localization with Triangulation Tamim Reza University of Michigan-Flint	
11:30 - 11:50	11:20-11:40 2017-01-1814 Assessment of Lightweight Automotive Glass Solutions on Interior Noise Levels & Sound Quality Todd Tousignant FEV North America, Inc.		466 Investigation of the correlation between transformer sound levels, geomagnetically-induced currents, and solar flares Ian Brewe Burns & McDonnell	476 An annular Helmholtz resonator and its tuning performance on two-box single exhaust system Xin Hua Faurecia Clean Mobility	528 The effect of diffusers and absorbers on the field characteristics of a reverberation room Dilal Rhazi FCA	
	11:40-12:00 2017-01-1812 Optimizing Transmission Loss for Lightweight Body Structures Steven Sorenson Toyota Technical Center USA Inc					