

**Monday**

**Monday, 30 May 2016**

1-PLNY-1 0800 - 0830 hrs	<b>Opening Session</b>	<b>Auditorium Pasteur</b>
Welcome		

**Monday, 30 May 2016**

2-AA-1	<b>Aeroacoustic Interactions I: Scattering</b>	<b>Saint Clair 3B</b>
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Chaired by: G. GABARD, ISVR/University of Southampton

<p>0830 hrs AIAA-2016-2700 <b>Aeroacoustics of an Elastic Element in Unsteady Flow of Low Reynolds Numbers</b> L. Schickhofer, A. Dahlkild, M. Mihaescu, Royal Institute of Technology (KTH), Stockholm, Sweden</p>	<p>0900 hrs AIAA-2016-2701 <b>Numerical Investigation on the Spectral Broadening of Acoustic Waves by a Turbulent Layer</b> V. Clair, G. Gabard, University of Southampton, Southampton, United Kingdom</p>	<p>0930 hrs AIAA-2016-2702 <b>A weak-scattering model for tone hystacking caused by sound propagation through an axisymmetric turbulent shear layer</b> A. McAlpine, B. Tester, University of Southampton, Southampton, United Kingdom</p>	<p>1000 hrs AIAA-2016-2703 <b>Vorticity scattering in shear flows at soft wall - Hard wall transition</b> D. Singh, Eindhoven University of Technology, Eindhoven, The Netherlands</p>	<p>1030 hrs AIAA-2016-2704 <b>Scattering of turbulent-jet wavepackets by a flexible composite plate</b> S. Piantanida, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; W. Wolf, University of Campinas, Campinas, Brazil; M. Danadon, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France</p>	<p>1100 hrs AIAA-2016-2705 <b>Numerical Studies of Acoustic Diffraction by Rigid Bodies</b> J. Hao, R. Kotapati, F. Perot, A. Mann, Exa Corporation, Burlington, MA</p>			
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**Monday, 30 May 2016**

3-AA-2	<b>Airframe Noise I: High-Lift Systems</b>	<b>Saint Clair 3A</b>
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Chaired by: J. DELFS, DLR - German Aerospace Center

<p>0830 hrs AIAA-2016-2706 <b>Simulation-Based Airframe Noise Prediction of a Full-Scale, Full Aircraft</b> M. Khorrami, NASA Langley Research Center, Hampton, VA; E. Fares, Exa Corporation, Stuttgart, Germany</p>	<p>0900 hrs AIAA-2016-2707 <b>Airframe Noise Prediction of a Full Aircraft in Model and Full Scale Using a Lattice Boltzmann Approach</b> E. Fares, B. Duda, Exa Corporation, Stuttgart, Germany; M. Khorrami, NASA Langley Research Center, Hampton, VA</p>	<p>0930 hrs AIAA-2016-2708 <b>Airframe Noise from a Hybrid Wing Body Aircraft Configuration</b> F. Hutcheson, T. Spalt, T. Brooks, NASA Langley Research Center, Hampton, VA; G. Plassman, National Institute of Aerospace, Hampton, VA</p>	<p>1000 hrs AIAA-2016-2709 <b>FQUROH: a Flight Demonstration Project for Airframe Noise Reduction Technology - Concept and Current Status</b> K. Yamamoto, Japan Aerospace Exploration Agency (JAXA), Tokyo, Japan; K. Hayama, Kawasaki Heavy Industries, Ltd., Kakamigahara, Japan; T. Kumada, Sumitomo Precision Products Co. Ltd., Amagasaki, Japan; K. Hayashi, Mitsubishi Aircraft Corporation, Toyoyama-cho, Japan</p>	<p>1030 hrs AIAA-2016-2710 <b>Flyover Array Measurements with JAXA Flying Test Bed 'Hisho'</b> T. Takaishi, H. Ura, K. Nagai, Y. Yokokawa, M. Murayama, Y. Ito, Japan Aerospace Exploration Agency (JAXA), Mitaka, Japan; et al.</p>	<p>1100 hrs AIAA-2016-2711 <b>Computational Evaluation of Airframe Noise Reduction Concepts at Full Scale</b> M. Khorrami, NASA Langley Research Center, Hampton, VA; E. Fares, B. Duda, A. Hazir, Exa Corporation, Stuttgart, Germany</p>			
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<b>Monday, 30 May 2016</b>							
<b>4-AA-3</b>	<b>CAA I: Integral Methods</b>						<b>Rhône 3A</b>
Chaired by: A. LYRINTZIS							
0830 hrs AIAA-2016-2712 <b>Fast Methods applied to BEM Solvers for Acoustic Propagation Problems</b> N. Balin, G. Sylvand, J. Robert, Airbus Group, Blagnac, France	0900 hrs AIAA-2016-2713 <b>Boundary element formulation for wave propagation in weakly non-uniform potential flows</b> S. Mancini, S. Sinayoko, R. Astley, G. Gabard, University of Southampton, Southampton, United Kingdom; M. Tournour, Siemens, Leuven, Belgium	0930 hrs AIAA-2016-2714 <b>A Novel Extrapolation Approach in Aeroacoustics: Development &amp; Validation</b> D. Heitmann, R. Ewert, J. Delfs, German Aerospace Center (DLR), Braunschweig, Germany	1000 hrs AIAA-2016-2715 <b>Boundary-Field Integral Formulations for Sound Scattering of Moving Bodies</b> C. Testa, Italian Institute for Naval Hydrodynamic Research and Ship Model Basin, Rome, Italy; M. Gennaretti, G. Bernardini, Roma Tre University, Rome, Italy	1030 hrs AIAA-2016-2716 <b>Integral formulations for the prediction of low Mach number flow noise with non-compact solid surfaces.</b> N. Papaxanthos, E. Perrey-Debain, University of Technology, Compiègne, France	1100 hrs AIAA-2016-2717 <b>Validation of a surface based analogy for the LEE accounting for scattering effects</b> M. Muriel Gracia, V. Korchagin, W. De Roeck, W. Desmet, Catholic University of Leuven, Leuven, Belgium		

<b>Monday, 30 May 2016</b>							
<b>5-AA-4</b>	<b>CAA II: Methods</b>						<b>Rhône 3B</b>
Chaired by: X. LI, Beihang University							
0830 hrs AIAA-2016-2718 <b>A Hybrid PSTD/DG Method to Solve the Linearized Euler Equations: Optimization and Accuracy</b> R. Pagán Muñoz, M. Hornikx, Eindhoven University of Technology, Eindhoven, The Netherlands	0900 hrs AIAA-2016-2719 <b>A Hybrid 3D Discontinuous Galerkin Code for CAA Applications</b> M. Lummer, German Aerospace Center (DLR), Braunschweig, Germany	0930 hrs AIAA-2016-2720 <b>High order upwind compact scheme and ETA buffer zone-type non-reflecting boundary condition for LEE</b> Z. Qian, Aviation Industry Corporation of China (AVIC), Beijing, China	1000 hrs AIAA-2016-2721 <b>Optimized prefactored compact schemes for wave propagation phenomena</b> A. Rona, E. Hall, University of Leicester, Leicester, United Kingdom; I. Spisso, Cineca, Casalecchio di Reno, Italy	1030 hrs AIAA-2016-2722 <b>High-order Variational Multiscale model with an explicit filtering in a stabilised finite element method for LES/DES computations</b> Y. Pierre, Dassault Group, Saint Cloud, France; C. Bailly, École Centrale de Lyon, Ecully, France; D. Franck, F. Chalot, B. Sébastien, Dassault Group, Saint Cloud, France	1100 hrs AIAA-2016-2723 <b>High-order aeroacoustics propagation solver with sliding-mesh capabilities for subsonic turbomachinery</b> C. Foulquié, Safran Group, Villaroche, France; S. Khelladi, M. Deligant, Paris Institute of Technology, Paris, France; J. Mardjono, Safran Group, Villaroche, France; M. Henner, Valeo, La Verrière, France		

<b>Monday, 30 May 2016</b>							
<b>6-AA-5</b>	<b>Duct Acoustics I: Impedance Eduction</b>						<b>Rhône 2</b>
Chaired by: W. EVERSMAN, Missouri University of Science and Technology							
0830 hrs AIAA-2016-2724 <b>Three-Dimensional Numerical Theory for Impedance Eduction in Normal Incidence Tubes</b> W. Watson, M. Jones, NASA Langley Research Center, Hampton, VA	0900 hrs AIAA-2016-2725 <b>Broadband eduction of liner impedance under multimodal acoustic propagation.</b> R. Troian, D. Dragana, C. Bailly, M. Galland, École Centrale de Lyon, Ecully, France	0930 hrs AIAA-2016-2726 <b>Impedance Eduction of Acoustic Liners Based on Four Different Levels of Physical Modeling</b> A. Schulz, F. Bake, L. Enghardt, German Aerospace Center (DLR), Berlin, Germany; D. Ronneberger, University of Göttingen, Göttingen, Germany	1000 hrs AIAA-2016-2727 <b>On the effect of flow direction on impedance eduction results</b> H. Boden, L. Zhou, Royal Institute of Technology (KTH), Stockholm, Sweden; J. Cordioli, A. Medeiros, A. Spillere, Federal University of Santa Catarina, Florianópolis, Brazil	1030 hrs AIAA-2016-2728 <b>Impedance Eduction with a Theoretical Model for Sound Propagation in a Grazing Impedance Tube</b> H. Jiang, X. Huang, Peking University, Beijing, China	1100 hrs AIAA-2016-2729 <b>Effects of the turbulent grazing flow over the impedance prediction of a single-orifice Helmholtz resonator</b> Q. Zhang, D. Bodony, University of Illinois, Urbana-Champaign, Urbana, IL		

Monday, 30 May 2016							
7-AA-6	Jet Noise I						Auditorium Pasteur
Chaired by: F. CLERO, ONERA							
0830 hrs AIAA-2016-2730 <b>Land- and Aircraft Carrier-Based F-35C Jet Blast Deflector Noise Testing</b> A. Pilon, Lockheed Martin Corporation, Palmdale, CA	0900 hrs AIAA-2016-2731 <b>A Novel Framework for Uncertainty Propagation in Multidisciplinary Design Life Cycle for Shock-Cell Noise Research</b> F. Granados-Ortiz, C. Lai, University of Greenwich, London, United Kingdom	0930 hrs AIAA-2016-2732 <b>Broadband Shock-cell Noise Signature Identification Using a Wavelet-based Method</b> L. Gefen, Roma Tre University, Rome, Italy; C. Pérez Arroyo, CERFACS, Toulouse, France; R. Camussi, Roma Tre University, Rome, Italy; G. Puigt, CERFACS, Toulouse, France; C. Airiau, École Centrale de Lyon, Toulouse, France	1000 hrs AIAA-2016-2733 <b>Local stability analysis of a round jet parallel to a flat plate</b> J. Brazier, ONERA, Toulouse, France	1030 hrs AIAA-2016-2734 <b>Numerical Study of Free Supersonic Hot Jet on Unstructured Grids with Emphasis on Aerodynamics and Resulting Radiated Noise</b> J. Troyes, F. Vuillot, ONERA, Châtillon, France; H. Lambaré, A. Espinosa Ramos, French Space Agency (CNES), Paris, France			

Monday, 30 May 2016							
8-AA-7	Leading Edge Noise I						Rhône 1
Chaired by: S. GLEGG, Florida Atlantic University							
0830 hrs AIAA-2016-2735 <b>Airfoil Unsteady Loading and Sound Radiation due to Incident and Self-Generated Turbulent Flows</b> J. Anderson, A. Buono, M. Catlett, Naval Surface Warfare Center, West Bethesda, MD	0900 hrs AIAA-2016-2736 <b>Leading edge serration geometries for significantly enhanced leading edge noise reductions</b> C. Paruchuri, University of Southampton, Southampton, United Kingdom; S. Narayanan, Indian School of Mines, Dhanbad, India; P. Joseph, J. Kim, University of Southampton, Southampton, United Kingdom	0930 hrs AIAA-2016-2737 <b>Numerical Computation of Gust Aerodynamic Response for Realistic Airfoils: Application of Amiet's Theory</b> R. Miotto, W. Wolf, University of Campinas, Campinas, Brazil; L. de Santana, University of Twente, Enschede, The Netherlands	1000 hrs AIAA-2016-2738 <b>Airfoil geometry effects on turbulence interaction noise in cascades</b> C. Paruchuri, J. Coupland, P. Joseph, University of Southampton, Southampton, United Kingdom	1030 hrs AIAA-2016-2739 <b>An Investigation of the Tonal Noise Produced by a Wall-mounted Finite Airfoil at Angle of Attack</b> D. Moreau, C. Doolan, University of New South Wales, Sydney, Australia	1100 hrs AIAA-2016-2740 <b>Noise Prediction for Serrated Leading-edges</b> B. Lyu, University of Cambridge, Cambridge, United Kingdom; M. Azarpeyvand, University of Bristol, Bristol, United Kingdom; S. Sinayoko, University of Southampton, Southampton, United Kingdom		

Monday, 30 May 2016							
9-AA-8	Open Rotors						Saint Clair 1
Chaired by: U. PALIATH, GE Global Research							
0830 hrs AIAA-2016-2741 <b>The scattering of open rotor tones by a cylindrical fuselage and its boundary layer</b> H. Brouwer, National Aerospace Laboratory (NLR), Amsterdam, The Netherlands	0900 hrs AIAA-2016-2742 <b>Broadband Noise Prediction of Open Rotors Using Semi-Empirical Methods Informed by CFD Calculations</b> J. Botha, H. Rice, J. Kennedy, Trinity College Dublin, Dublin, Ireland	0930 hrs AIAA-2016-2743 <b>A preliminary semi-empirical approach for CROR noise modeling</b> M. Quaglia, S. Moreau, University of Sherbrooke, Sherbrooke, Canada; M. Roger, École Centrale de Lyon, Lyon, France; R. Fernando, Safran Group, Paris, France	1000 hrs AIAA-2016-2744 <b>Effect of a Model Leading-Edge Vortex on the Blade Aerodynamic Response for Application to CROR Tonal Noise Predictions</b> N. Jaouani, Sogeti High Tech, Toulouse, France; M. Roger, École Centrale de Lyon, Ecully, France; T. Node-Langlois, Airbus, Toulouse, France; G. Serre, Sogeti High Tech, Toulouse, France				

<b>Monday, 30 May 2016</b>							
<b>10-AA-9</b>	<b>Turbomachinery Noise I: Combustion</b>						<b>Saint Clair 2</b>
Chaired by: C. TAM, Florida State University							
0830 hrs AIAA-2016-2745 <b>The Effect of Flame Thickening on the Acoustic Emission in Turbulent Combustion</b> K. Pausch, S. Schlimpert, S. Koh, J. Grimmen, W. Schroeder, RWTH Aachen University, Aachen, Germany	0900 hrs AIAA-2016-2746 <b>An investigation of the generation of indirect combustion noise in a turbo-engine</b> C. Tam, Z. Li, Florida State University, Tallahassee, FL; W. Schuster, Honeywell International, Inc., Phoenix, AZ	0930 hrs AIAA-2016-2747 <b>Numerical investigation of combustion noise from aeronautical combustor to far-field</b> M. Férand, T. Livebardon, CERFACS, Toulouse, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada; T. Poinot, Fluid Mechanics Institute of Toulouse (IMFT), Toulouse, France; C. Sensiau, Safran Group, Villaroche, France					

<b>Monday, 30 May 2016</b>							
<b>11-AA-10</b>	<b>Turbulent Boundary Layers</b>						<b>Saint Clair 4</b>
Chaired by: J. JAWORSKI, Lehigh University							
0830 hrs AIAA-2016-2748 <b>Reduction of Boundary Layer Noise with Micro-Perforated Partitions</b> T. Bravo, Spanish National Research Council, Madrid, Spain; C. Maury, C. Pinhede, National Center for Scientific Research (CNRS), Marseille, France	0900 hrs AIAA-2016-2749 <b>Characteristics of Wall Pressure Fluctuations for a Flat Plate Turbulent Boundary Layer with Pressure Gradients</b> N. Hu, M. Herr, German Aerospace Center (DLR), Braunschweig, Germany	0930 hrs AIAA-2016-2750 <b>Analysis of hydrodynamic and acoustic events in a turbulent boundary layer using a direct noise simulation database</b> F. Margnat, Institut Pprime, Poitiers, France; X. Gloerfelt, Arts et Metiers ParisTech, Paris, France	1000 hrs AIAA-2016-2751 <b>Pressure Fluctuations in a High-Reynolds-Number Turbulent Boundary Layer Flow over Rough Surfaces</b> L. Joseph, T. Meyers, N. Molinaro, W. Devenport, Virginia Polytechnic Institute and State University, Blacksburg, VA	1030 hrs AIAA-2016-2752 <b>Vortex sound generation from flexible fibers</b> J. Jaworski, Lehigh University, Bethlehem, PA			

<b>Monday, 30 May 2016</b>							
<b>12-PLNY-2</b> <b>1130 - 1230 hrs</b>	<b>Propagation and Radiation Modeling for Fan Noise. Can CAA Tools Deliver Accurate Predictions?</b>						<b>Auditorium Pasteur</b>
Jeremy Astley ISVR, University of Southampton							

<b>Monday, 30 May 2016</b>							
<b>13-AA-11</b>	<b>Aeroacoustic Interactions II: Control</b>						<b>Saint Clair 3B</b>
Chaired by: L. CATTAFESTA, FAMU-FSU College of Engineering							
1400 hrs AIAA-2016-2753 <b>Experimental Investigations of the Tonal Self-Noise Emission of a Vehicle Side Mirror</b> M. Werner, W. Würz, E. Kraemer, University of Stuttgart, Stuttgart, Germany	1430 hrs AIAA-2016-2754 <b>Bluff Body Flow and Noise Control Using Porous Media</b> S. Showkat Ali, X. Liu, M. Azarpeyvand, University of Bristol, Bristol, United Kingdom	1500 hrs AIAA-2016-2755 <b>Synchronized Velocity and Pressure Measurements of Supersonic Flow over a Finite Span Cavity with Leading Edge Slot Blowing</b> B. George, L. Ukeiley, University of Florida, Gainesville, Gainesville, FL; L. Cattafesta, K. Taira, Florida A&M University-Florida State University, Tallahassee, FL	1530 hrs AIAA-2016-2756 <b>Cavity Noise Suppression Using Fluidic Spoilers</b> G. Bennett, Trinity College Dublin, Dublin, Ireland; S. Morris, University of Notre Dame, Notre Dame, IN	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2757 <b>Statistical-empirical modelling of aerofoil noise subjected to leading edge serrations and aerodynamic identification of noise reduction mechanisms</b> T. Biedermann, University of Applied Sciences, Düsseldorf, Germany; T. Chong, Brunel University, London, United Kingdom; F. Kameier, University of Applied Sciences, Düsseldorf, Germany	1700 hrs AIAA-2016-2758 <b>Closed-loop control of wavepackets in a free shear-flow</b> K. Sasaki, G. Tissot, A. Cavalieri, F. Silvestre, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, D. Biau, National Center for Scientific Research (CNRS), Poitiers, France	1730 hrs AIAA-2016-2759 <b>Vortex shedding noise reduction by single dielectric barrier discharge plasma actuators</b> L. Al-Sadawi, T. Chong, Brunel University, London, United Kingdom

Monday, 30 May 2016									
14-AA-12								Advanced Testing Techniques I	Rhône 3A
Chaired by: A. BORGOLTZ, Virginia Tech									
1400 hrs AIAA-2016-2760 <b>An empirical de-reverberation technique for closed-section wind tunnel beamforming</b> J. Fischer, C. Doolan, University of New South Wales, Sydney, Australia	1430 hrs AIAA-2016-2761 <b>Analyzing Noise Components on Skewed Fans with a Virtual Rotating Microphone Array</b> G. Herold, Brandenburg University of Technology, Cottbus, Germany; F. Zenger, University of Erlangen-Nürnberg, Erlangen, Germany; E. Sarradj, Brandenburg University of Technology, Cottbus, Germany	1500 hrs AIAA-2016-2762 <b>A fast ray casting method for sound refraction at shear layers</b> E. Sarradj, Brandenburg University of Technology, Cottbus, Germany	1530 hrs AIAA-2016-2763 <b>Focussed Synthesis of a Turbulent Boundary Layer Excitation</b> C. Maury, National Center for Scientific Research (CNRS), Marseille, France; T. Bravo, Spanish National Research Council, Madrid, Spain	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2764 <b>Design and Experimental Validation of an Array of Accelerometers for In-flow Acoustic Beamforming Applications</b> Q. Ledere, E. Chéron, National Institute of Applied Sciences (INSA), Lyon, France; A. Pereira, École Centrale de Lyon, Lyon, France; C. Picard, VibratEc, Ecully, France; P. Souchotte, École Centrale de Lyon, Lyon, France	1630 hrs AIAA-2016-2765 <b>Compressive sensing based spinning mode detection with in-duct microphone array</b> W. Yu, X. Huang, Peking University, Beijing, China	1700 hrs AIAA-2016-2766 <b>Directivity measurement of an ECS outlet on a business jet aircraft on ground</b> A. Finez, VibratEc, Ecully, France; B. Sébastien, Dassault Group, Saint Cloud, France		

Monday, 30 May 2016									
15-AA-13								Airframe Noise II: Landing Gear	Saint Clair 3A
Chaired by: P. RAVETTA, AVEC, Inc.									
1400 hrs AIAA-2016-2767 <b>Lattice-Boltzmann Flow Simulation of a Two-Wheel Landing Gear</b> L. Sanders, E. Manoha, ONERA, Châtillon, France; M. Murayama, Y. Yokokawa, K. Yamamoto, Japan Aerospace Exploration Agency (JAXA), Tokyo, Japan; T. Hirai, Ryoyu Systems Company, Ltd., Tokyo, Japan	1430 hrs AIAA-2016-2768 <b>Noise Prediction of the LAGOON Landing Gear Using Acoustic Analogy and Proper Orthogonal Decomposition</b> P. Azevedo, W. Wolf, University of Campinas, Campinas, Brazil	1500 hrs AIAA-2016-2769 <b>Analysis of landing gear noise during approach</b> R. Merino-Martinez, Delft University of Technology, Delft, The Netherlands; L. Bertsch, German Aerospace Center (DLR), Goettingen, Germany; D. Simons, M. Snellen, Delft University of Technology, Delft, The Netherlands	1530 hrs AIAA-2016-2770 <b>Review of landing gear acoustic research at Messier-Bugatti-Dowty</b> Q. Bouvy, Safran Group, Gloucester, United Kingdom; B. Petot, T. Rougier, Safran Group, Vélizy-Villacoublay, France	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2771 <b>A Comparison of Wall Functions for Bluff Body Aeroacoustic Simulations</b> Y. Hou, D. Angland, University of Southampton, Southampton, United Kingdom	1630 hrs AIAA-2016-2772 <b>A study of planar jet flow control and perforated fairings for the reduction of the flow-induced noise of tandem rods in a cross-flow</b> K. Zhao, P. Okolo, J. Kennedy, G. Bennett, Trinity College Dublin, Dublin, Ireland	1700 hrs AIAA-2016-2773 <b>Numerical Investigation of Flow Control Using Vertex Generator for Landing Gear Noise Reduction</b> H. Aipeng, J. Yuhong, Beihang University, Beijing, China	1730 hrs AIAA-2016-2774 <b>Investigation on landing gear shallow round cavity flow field and noise signature</b> F. De La Puente, L. Sanders, ONERA, Paris, France; P. Druault, Pierre and Marie Curie University, Paris, France; F. Vuillot, ONERA, Paris, France	

Monday, 30 May 2016									
16-AA-14								CAA III: Adjoint Methods and Scattering	Rhône 3B
Chaired by: J. FREUND, University of Illinois at Urbana-Champaign									
1400 hrs AIAA-2016-2775 <b>Application of an Adjoint CAA Solver for Design Optimization of Acoustic Liners</b> J. Abdel Hay, Technical University of Berlin, Berlin, Germany; E. Özkaya, N. Gauger, Technical University of Kaiserslautern, Kaiserslautern, Germany; N. Schönwald, CFD Software GmbH, Berlin, Germany	1430 hrs AIAA-2016-2776 <b>A Discrete Adjoint-based Shape Optimization for Shear-layer-noise Reduction</b> D. Buchta, R. Vishnampet, D. Bodony, J. Freund, University of Illinois, Urbana-Champaign, Urbana, IL	1500 hrs AIAA-2016-2777 <b>A Discrete Adjoint Framework for Trailing-Edge Turbulence Control and Noise Minimization via Porous Material</b> B. Zhou, N. Gauger, Technical University of Kaiserslautern, Kaiserslautern, Germany; S. Koh, M. Meinke, W. Schroeder, RWTH Aachen University, Aachen, Germany	1530 hrs AIAA-2016-2778 <b>Development of an Adjoint CAA Solver for Design Optimization of Acoustic Liners</b> E. Özkaya, J. Abdel Hay, N. Gauger, Technical University of Kaiserslautern, Kaiserslautern, Germany; F. Thiele, CFD Software GmbH, Berlin, Germany	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2779 <b>On the assessment of acoustic scattering and shielding by time domain boundary integral equation solutions</b> F. Hu, M. Pizzo, Old Dominion University, Norfolk, VA	1630 hrs AIAA-2016-2780 <b>Numerical Simulation of Acoustic Scattering by a Turbulent Shear Layer: Spectral, Temporal and Analytic Study.</b> I. Bennaceur, D. Mincu, I. Mary, M. Terracol, ONERA, Châtillon, France; L. Larchevêque, D. Pierre, University of Provence, Marseille, France	1700 hrs AIAA-2016-2781 <b>Compressible Flow Simulations of Wave Scattering Problems Using the Immersed Boundary Method</b> W. Ramirez, University of Campinas, Campinas, Brazil; B. Olson, Lawrence Livermore National Laboratory, Livermore, CA; W. Wolf, University of Campinas, Campinas, Brazil		

Monday, 30 May 2016								
17-AA-15	Duct Acoustics II: Liners							Rhône 2
Chaired by: H. BODEN, KTH								
1400 hrs AIAA-2016-2782 <b>Effects of Liner Length and Attenuation on NASA Langley Impedance Eduction</b> M. Jones, W. Watson, NASA Langley Research Center, Hampton, VA	1430 hrs AIAA-2016-2783 <b>Optimization of Variable-Depth Liner Configurations for Increased Broadband Noise Reduction</b> M. Jones, W. Watson, D. Nark, N. Schiller, NASA Langley Research Center, Hampton, VA; J. Born, Northrop Grumman Corporation, Hampton, VA	1500 hrs AIAA-2016-2784 <b>Further Development and Assessment of a Broadband Liner Optimization Process</b> D. Nark, M. Jones, NASA Langley Research Center, Hampton, VA	1530 hrs AIAA-2016-2785 <b>Experimental Investigation of Acoustic Damping Performance of Double- and Single-layer Perforated Liners: Effect of Porosity and Joint Bias-grazing Flow</b> D. Zhao, C. Ji, N. Han, X. Li, Y. Ang, J. Li, Nanyang Technological University, Singapore, Singapore	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2786 <b>Modeling Liners for Engine Exhaust Applications</b> M. Nair, Y. Defandt, B. Yannic, D. Binet, T. Cordaro, B. de Brye, Free Field Technologies, Mont-Saint-Guibert, Belgium; et al.	1630 hrs AIAA-2016-2787 <b>Evaluation of Novel Liner Concepts for Fan and Airframe Noise Reduction</b> M. Jones, B. Howerton, NASA Langley Research Center, Hampton, VA	1700 hrs AIAA-2016-2788 <b>Design, manufacturing and demonstration of acoustic liners for air conditioning systems</b> E. Piot, J. Brazier, F. Simon, ONERA, Toulouse, France; V. Fascio, ATECA, Montauban, France; C. Peyret, ONERA, Châtillon, France; J. Ingenito, Liebherr Aerospace, Toulouse, France	1730 hrs AIAA-2016-2789 <b>A Requirements-Driven Optimization Method for Acoustic Treatment Design</b> J. Berton, NASA Glenn Research Center, Cleveland, OH

Monday, 30 May 2016								
18-AA-16	General Acoustics							Saint Clair 4
Chaired by: M. ROGER, Ecole Centrale de Lyon								
1400 hrs AIAA-2016-2790 <b>Non-linear interaction of multiple tones on perforated liners</b> P. Serrano, G. Gabard, P. Murray, R. Astley, University of Southampton, Southampton, United Kingdom	1430 hrs AIAA-2016-2791 <b>Wall pressure fluctuations in hypersonic boundary layer: a strategy to design the passive noise control systems</b> T. Pagliaroli, U. Iemma, A. Bomaccioni, R. Camussi, Roma Tre University, Rome, Italy; P. Lv, China Academy of Aerospace Aerodynamics, Beijing, China; F. Mohd Zawawi, University of Technology, Malaysia, Johar Bahru, Malaysia	1500 hrs AIAA-2016-2792 <b>Experimental Validation of Ducted Low-Speed Cooling Fan Noise Prediction Methods Including Broadband Scattering</b> J. Christophe, von Kármán Institute for Fluid Dynamics, Rhode-Saint-Genèse, Belgium; K. Kucukcokun, Siemens, Leuven, Belgium; D. Lallier-Daniels, M. Sanjosé, S. Moreau, University of Sherbrooke, Sherbrooke, Canada	1530 hrs AIAA-2016-2793 <b>On the Generalization of Lighthill's Eighth-Power Law to Acoustic-Vortical Waves</b> L. Braga da Costa Campos, Technical University of Lisbon, Lisbon, Portugal	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2794 <b>The Frequency-Domain Formulations of the Quadrupole Correction for the Ffowcs Williams-Hawkings Integration</b> T. Ikeda, K. Yamamoto, Japan Aerospace Exploration Agency (JAXA), Chofu, Japan; K. Amemiya, ASIRI Corporation, Tokyo, Japan	1630 hrs AIAA-2016-2795 <b>Analysis of the Noise Shielding Characteristics of a NACA0012 2D Wing</b> K. Rossignol, J. Delfs, German Aerospace Center (DLR), Braunschweig, Germany	1700 hrs AIAA-2016-2796 <b>Hybrid aeroacoustic computations for flows in ducts with single and tandem diaphragms</b> P. Martinez-Lera, K. Kucukcokun, Siemens, Leuven, Belgium; M. Shur, A. Travin, Saint-Petersburg Polytechnic University, St. Petersburg, Russia; M. Tournour, Siemens, Leuven, Belgium	

Monday, 30 May 2016								
19-AA-17	Jet Noise II: Screech							Auditorium Pasteur
Chaired by: C. BAILLY, Ecole Centrale de Lyon								
1400 hrs AIAA-2016-2797 <b>Screech Noise Characterization using Dynamic Mode Decomposition and Shadowgraph Imagery</b> M. Burak, B. Gustafsson, GKN Aerospace Engine Systems, Trollhättan, Sweden; B. Malla, E. Gutmark, University of Cincinnati, Cincinnati, OH	1430 hrs AIAA-2016-2798 <b>Large Eddy Simulation of Shock-Cell Noise From a Dual Stream Jet</b> C. Pérez Arroyo, G. Puigt, CERFACS, Toulouse, France; C. Airiau, Fluid Mechanics Institute of Toulouse (IMFT), Toulouse, France; J. Boussuge, CERFACS, Toulouse, France	1500 hrs AIAA-2016-2799 <b>A schlieren and nearfield acoustic based experimental investigation of screech noise sources</b> B. Mercier, Ecole Centrale de Lyon, Ecully, France; T. Castelain, Claude Bernard University Lyon 1, Villeurbanne, France; C. Bailly, Ecole Centrale de Lyon, Ecully, France	1530 hrs AIAA-2016-2800 <b>Supersonic Jet Impingement on a Cylindrical Surface</b> J. Weightman, O. Amili, D. Honnery, D. Edgington-Mitchell, J. Soria, Monash University, Melbourne, Australia	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2801 <b>Shock-Turbulence Interactions in a Screeching Axisymmetric Underexpanded Jet</b> D. Tan, J. Soria, D. Honnery, D. Edgington-Mitchell, Monash University, Melbourne, Australia	1700 hrs AIAA-2016-2802 <b>Towards a Suitable Turbulence Length and Temporal Scale Model for Broadband Shock Associated Noise</b> A. Kalyan, S. Karabasov, Queen Mary University of London, London, United Kingdom		

Monday, 30 May 2016								
20-AA-18	Jet Noise III: Modeling							Rhône I
Chaired by: W. SCHROEDER, RWTH AACHEN, Institute of Aerodynamics								
1400 hrs AIAA-2016-2803 <b>Azimuthal Source Non-Compactness and Mode Coupling in Sound Radiation from High-Speed Axisymmetric Jets</b> M. Goldstein, NASA Glenn Research Center, Cleveland, OH; S. Leib, Ohio Aerospace Institute, Cleveland, OH	1430 hrs AIAA-2016-2804 <b>Predictive Capability of the Low Frequency Asymptotic Green's Function in Non-Parallel Flows within Goldstein's Generalized Acoustic Analogy</b> M. Afsar, Imperial College London, London, United Kingdom; A. Sescu, Mississippi State University, Starkville, MS; S. Leib, Ohio Aerospace Institute, Brook Park, OH	1500 hrs AIAA-2016-2805 <b>Similarity scaling of jet noise sources: towards a robust low-order jet noise scheme based on the Goldstein generalized acoustic analogy</b> V. Semiletov, University of Cambridge, Cambridge, United Kingdom; S. Karabasov, Queen Mary University of London, London, United Kingdom	1530 hrs AIAA-2016-2806 <b>On defining the jet noise source quadrupole structure on the basis of multi-array acoustic data and correlation theory</b> V. Kopeiev, S. Chernyshev, G. Faranosov, TsAGI, Moscow, Russia	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2807 <b>Prediction of jet mixing noise in flight from static tests</b> U. Michel, CFD Software GmbH, Berlin, Germany	1630 hrs AIAA-2016-2808 <b>Super- and multi-directive acoustic radiation by linear global modes of a turbulent jet</b> O. Schmidt, A. Towne, T. Colonius, California Institute of Technology, Pasadena, CA; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; et al.	1700 hrs AIAA-2016-2809 <b>Acoustic waves in the potential core of jets</b> A. Towne, California Institute of Technology, Pasadena, CA; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; T. Colonius, California Institute of Technology, Pasadena, CA; V. Jaunet, National Center for Scientific Research (CNRS), Poitiers, France; O. Schmidt, California Institute of Technology, Pasadena, CA; et al.	1730 hrs AIAA-2016-2810 <b>Modelling Velocity Correlations with LES and RANS for Prediction of Noise from Isothermal or Hot Jets</b> V. Rosa, R. Self, University of Southampton, Southampton, United Kingdom; C. Ilário, Embraer, São José dos Campos, Brazil; I. Naqavi, P. Tucker, University of Cambridge, Cambridge, United Kingdom
Monday, 30 May 2016								
21-AA-19	Trailing Edge Noise I							Saint Clair I
Chaired by: J. ANDERSON, Naval Surface Warfare Center								
1400 hrs AIAA-2016-2811 <b>Investigation of Wall-Pressure Fluctuations Characteristics on a NACA0012 Airfoil with Blunt Trailing Edge</b> A. Grebert, J. Bodart, L. Joly, University of Toulouse, Toulouse, France	1430 hrs AIAA-2016-2812 <b>Source Characterization of Turbulent Boundary Layer Trailing Edge Noise Using an Improved TNO Model</b> S. Lee, University of California, Davis, Davis, CA	1500 hrs AIAA-2016-2813 <b>Study of the Impact of Turbulent Anisotropy on the Airfoil Turbulent Boundary Layer Trailing Edge Noise</b> B. Bai, X. Li, Beihang University, Beijing, China	1530 hrs AIAA-2016-2814 <b>Effect of aerofoil thickness on trailing edge noise</b> R. Leung, Defence Science and Technology Laboratory, Southampton, United Kingdom; C. Paruchuri, P. Joseph, University of Southampton, Southampton, United Kingdom	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2815 <b>Study of the Impact of Angle of Attack on Tone Frequency by Thin Airfoil at Moderate Reynolds Number</b> X. Li, B. Bai, Beihang University, Beijing, China; M. Jiang, Shipbuilding Information Center of China, Beijing, China	1700 hrs AIAA-2016-2816 <b>Several noise control of the trailing-edge noise of a Controlled-Diffusion airfoil</b> S. Moreau, P. Laffay, A. Idier, N. Atalla, University of Sherbrooke, Sherbrooke, Canada	1730 hrs AIAA-2016-2817 <b>Wake Development of Airfoils with Serrated Trailing Edges</b> X. Liu, H. Kamliya Jawahar, M. Azarpeyvand, R. Theunissen, University of Bristol, Bristol, United Kingdom	
Monday, 30 May 2016								
22-AA-20	Turbomachinery Noise II: Flow Distortion							Saint Clair 2
Chaired by: S. MOREAU, Université de Sherbrooke								
1400 hrs AIAA-2016-2818 <b>Influence of Distortion on Fan Tonal Noise</b> M. Daroukh, Safran Group, Moissy-Cramayel, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada; N. Gourdain, University of Toulouse, Toulouse, France; J. Boussuge, CERFACS, Toulouse, France; C. Sensiau, Safran Group, Moissy-Cramayel, France	1430 hrs AIAA-2016-2819 <b>Effect of Inlet Distortions on Ducted Fan Noise</b> M. Shur, M. Strelets, A. Travin, Saint-Petersburg Polytechnic University, St. Petersburg, Russia; J. Christophe, K. Kucukcoskun, C. Schram, von Kármán Institute for Fluid Dynamics, Rhode-Saint-Genèse, Belgium; et al.	1500 hrs AIAA-2016-2820 <b>Noise and vibration interference effects of bodies in the flow: an analogy with rotating instability in axial flow machines</b> F. Kameier, University of Applied Sciences, Düsseldorf, Germany; R. Heinze, getAir GmbH & Co. KG, Moenchengladbach, Germany; C. Paschereit, Technical University of Berlin, Berlin, Germany; T. Biedermann, University of Applied Sciences, Düsseldorf, Germany	1530 hrs AIAA-2016-2821 <b>A Novel Numerical Approach for Prediction of Rotor-Stator Interaction Noise in the Presence of Inlet Flow Distortion</b> K. Patel, C. Novak, J. Defoe, University of Windsor, Windsor, Canada	1600 hrs <b>Break</b>	1600 hrs AIAA-2016-2822 <b>Rotating Coherent Flow Structures as a Source for Narrowband Tip Clearance Noise from Axial Fan</b> T. Zhu, University of Siegen, Siegen, Germany; D. Lallier-Daniels, M. Sanjose, S. Moreau, University of Sherbrooke, Sherbrooke, Canada; T. Carolus, University of Siegen, Siegen, Germany	1630 hrs AIAA-2016-2823 <b>Tip Leakage Flow: Advanced Measurements and Analysis</b> M. Jacob, ISAE - SupAéro, Toulouse, France; E. Jondeau, B. Li, J. Boudet, École Centrale de Lyon, Lyon, France	1700 hrs AIAA-2016-2824 <b>Tip-Leakage Flow: a Detailed Simulation with a Zonal Approach</b> J. Boudet, B. Li, École Centrale de Lyon, Ecully, France; J. Caro, E. Jondeau, National Center for Scientific Research (CNRS), Ecully, France; M. Jacob, Claude Bernard University Lyon 1, Villeurbanne, France	1730 hrs AIAA-2016-2825 <b>Airfoil Tip Leakage Aeroacoustics Predictions using a Lattice Boltzmann Based Method</b> A. Mann, M. Kim, J. Wu, F. Perot, Exa Corporation, Burlington, MA; J. Grilliat, University of Erlangen-Nürnberg, Nurnberg, Germany; M. Jacob, École Centrale de Lyon, Lyon, France; et al.

**Tuesday**

**Tuesday, 31 May 2016**

<b>23-AA-21</b>	<b>Aeroacoustic Interactions III: Combustion Noise</b>						<b>Saint Clair 3B</b>
Chaired by: A. DOWLING, University of Cambridge							
0800 hrs AIAA-2016-2826 <b>Prediction of pulsations in a cold-gas scale-model of a SRM</b> L. Hirschberg, C. Schram, von Kármán Institute for Fluid Dynamics, Rhode-Saint-Genèse, Belgium; A. Hirschberg, University of Twente, Enschede, The Netherlands	0830 hrs AIAA-2016-2827 <b>Combustion Noise Analysis of Open Flames Using Incompressible LES</b> I. Langella, Y. Mahmoudi-Larimi, N. Swaminathan, A. Dowling, University of Cambridge, Cambridge, United Kingdom	0900 hrs AIAA-2016-2828 <b>The acoustic equivalence of a mass and heat point source</b> L. Peerlings, H. Boden, S. Boij, Royal Institute of Technology (KTH), Stockholm, Sweden	0930 hrs AIAA-2016-2829 <b>Aeroacoustic study of a slotted burner</b> T. Pagliaroli, M. Mancinelli, R. Camussi, Roma Tre University, Rome, Italy; G. Troiani, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Rome, Italy	1000 hrs AIAA-2016-2830 <b>Numerical investigation of combustion noise: The Entropy Wave Generator</b> C. Beceril, CERFACS, Toulouse, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada; M. Bauerheim, L. Gicquel, T. Poinot, CERFACS, Toulouse, France			

**Tuesday, 31 May 2016**

<b>24-AA-22</b>	<b>Trailing Edge Noise II: Control</b>						<b>Saint Clair 3A</b>
Chaired by: D. MOREAU, University of New South Wales							
0800 hrs AIAA-2016-2831 <b>Noise Reduction via Jet Injection near the Trailing Edge</b> J. Yu, S. Koh, M. Meinke, W. Schroeder, RWTH Aachen University, Aachen, Germany	0830 hrs AIAA-2016-2832 <b>Trailing Edge Bluntness Flow and Noise Control Using Porous Treatments</b> S. Showkat Ali, M. Szoke, M. Azarpeyvand, University of Bristol, Bristol, United Kingdom; C. Ilário, Embraer, São José dos Campos, Brazil	0900 hrs AIAA-2016-2833 <b>Aeroacoustic and flow assessments of the poro-serrated trailing edges</b> T. Chong, E. Dubois, A. Vathylakis, Brunel University London, Uxbridge, United Kingdom	0930 hrs AIAA-2016-2834 <b>Trailing Edge Noise Reduction Using Novel Surface Treatments</b> A. Afshari, University of Yazd, Yazd, Iran; M. Azarpeyvand, University of Bristol, Bristol, United Kingdom; A. Dehghan, University of Yazd, Yazd, Iran; M. Szoke, University of Bristol, Bristol, United Kingdom	1000 hrs AIAA-2016-2835 <b>Bioinspired Passive Control of Airfoil Radiated Noise</b> M. Zhang, K. Frendt, University of Alabama, Huntsville, Huntsville, AL	1030 hrs AIAA-2016-2836 <b>DNS of Noise Radiation from a Turbulent Flow Convecting over an Elastic Trailing-Edge</b> S. Schlenderer, University of Southampton, Southampton, United Kingdom; R. Sandberg, University of Melbourne, Melbourne, Australia	1100 hrs AIAA-2016-2837 <b>Sensitivity of aerofoil self-noise reductions to serration flap angles</b> A. Vathylakis, Brunel University, Uxbridge, United Kingdom; C. Paruchuri, University of Southampton, Southampton, United Kingdom; T. Chong, Brunel University, Uxbridge, United Kingdom; P. Joseph, University of Southampton, Southampton, United Kingdom	

**Tuesday, 31 May 2016**

<b>25-AA-23</b>	<b>CAA IV</b>						<b>Rhône 3A</b>
Chaired by: K. YAMAMOTO, Japan Aerospace Exploration Agency							
0800 hrs AIAA-2016-2838 <b>Aeroacoustic study of a submerged air inlet using an IDDES/FW-H approach and sound source modelling through direct numerical beamforming</b> N. Pignier, C. O'Reilly, S. Boij, Royal Institute of Technology (KTH), Stockholm, Sweden	0830 hrs AIAA-2016-2839 <b>A CAA Study of Turbulence Distortion in Broadband Fan Interaction Noise</b> T. Hainaut, G. Gabard, V. Clair, University of Southampton, Southampton, United Kingdom	0900 hrs AIAA-2016-2840 <b>Leading Edge Noise Predictions using Anisotropic Synthetic Turbulence</b> F. Gea Aguilera, J. Gill, X. Zhang, X. Chen, University of Southampton, Southampton, United Kingdom; T. Nade-Langlois, Airbus, Toulouse, France	0930 hrs AIAA-2016-2841 <b>Impact of Turbofan Intake Distortion on Fan Noise Propagation and Generation</b> M. Doherty, H. Namgoong, Rolls-Royce Group plc, Derby, United Kingdom	1000 hrs AIAA-2016-2842 <b>Aeroacoustic analysis of a cylinder in low Mach number flow using a periodic CFD-BEM technique</b> M. Karimi, P. Croaker, N. Kessissoglou, University of New South Wales, Sydney, Australia; N. Peake, Department of Applied Mathematics and Theoretical Physics, Cambridge, United Kingdom	1030 hrs AIAA-2016-2843 <b>In-Duct Assessment of a Linearized Unsteady Navier-Stokes Scheme for Compressor Tone Noise</b> C. Porter, P. Orkwis, University of Cincinnati, Cincinnati, OH; J. Wojna, T. Goerig, General Electric Company, Evendale, OH; T. Wood, General Electric Company, Niskayuna, NY		



<b>Tuesday, 31 May 2016</b>							
<b>26-AA-24</b>		<b>CAA V: Applications</b>					<b>Rhône 3B</b>
Chaired by: S. REDONNET, ONERA							
0800 hrs AIAA-2016-2844 <b>Numerical Characterization of Landing Gear Noise Emission using Advanced Simulation and Analysis Techniques</b> S. Redonnet, J. Bulte, G. Cunha, S. Ben Khelil, ONERA, Châtillon, France	0830 hrs AIAA-2016-2845 <b>Mesh Screen Application for Noise Reduction of Landing Gear Strut</b> P. Okolo, K. Zhao, J. Kennedy, G. Bennett, Trinity College Dublin, Dublin, Ireland	0900 hrs AIAA-2016-2846 <b>Aerodynamic noise prediction for a wind turbine using numerical flow simulations and semi-empirical modelling approaches</b> A. Rasam, Royal Institute of Technology (KTH), Stockholm, Sweden; J. Botha, Trinity College Dublin, Dublin, Ireland; K. Bolin, C. O'Reilly, G. Efraimsson, Royal Institute of Technology (KTH), Stockholm, Sweden; H. Rice, Trinity College Dublin, Dublin, Ireland	0930 hrs AIAA-2016-2847 <b>Large eddy simulation of tonal noise at a side-view mirror using a high order discontinuous Galerkin method</b> H. Frank, C. Munz, University of Stuttgart, Stuttgart, Germany	1000 hrs AIAA-2016-2848 <b>Unsteady Aerodynamics of High Speed Train Pantograph Cavity Flow Control for Noise Reduction</b> H. Kim, University of Southampton, Southampton, United Kingdom	1030 hrs AIAA-2016-2849 <b>Comparison of Far-Field Acoustic Prediction Techniques in Application to Tonal Noise Radiation of Transitional Airfoils</b> S. Salehian, L. Nguyen, V. Golubev, R. Mankbadi, Embry-Riddle Aeronautical University, Daytona Beach, FL		

<b>Tuesday, 31 May 2016</b>							
<b>27-AA-25</b>		<b>Duct Acoustics III</b>					<b>Rhône 2</b>
Chaired by: S. RIENSTRA, Technische Universiteit Eindhoven							
0800 hrs AIAA-2016-2850 <b>Multi-port Characterization of a Modal Filter Containing Micro-perforated Panels</b> H. Denayer, V. Korchagin, W. De Roeck, W. Desmet, Catholic University of Leuven, Leuven, Belgium	0830 hrs AIAA-2016-2851 <b>Full Multi-Port Characterization of a Circular Orifice-Plate</b> S. Sack, M. Åbom, Royal Institute of Technology (KTH), Stockholm, Sweden	0900 hrs AIAA-2016-2853 <b>Measurement of Perforate Impedance with grazing flow on both Sides</b> M. Farooqui, T. Elnady, Ain Shams University, Cairo, Egypt; M. Åbom, Royal Institute of Technology (KTH), Stockholm, Sweden	0930 hrs AIAA-2016-2854 <b>PIV Measurement of a Porous Liner in a Duct with Flow</b> A. Alomar, Y. Auregan, National Center for Scientific Research (CNRS), Le Mans, France	1000 hrs AIAA-2016-2855 <b>HVAC noise simulations using direct and hybrid methods</b> A. Kierkegaard, A. West, S. Caro, CD-adapco, London, United Kingdom	1030 hrs AIAA-2016-2856 <b>Sound Propagation and Radiation from an Unflanged Circular Duct: A Benchmark Problem Revisited</b> M. Dahl, NASA Glenn Research Center, Cleveland, OH; D. Hixon, University of Toledo, Toledo, OH		

<b>Tuesday, 31 May 2016</b>							
<b>28-AA-26</b>		<b>Fan Broadband Noise Workshop</b>					<b>Saint Clair 1</b>
0800 - 1130 hrs							

<b>Tuesday, 31 May 2016</b>							
<b>29-AA-27</b>		<b>Jet Noise IV: Surface Interactions</b>					<b>Auditorium Pasteur</b>
Chaired by: F. VUILLOT, ONERA							
0800 hrs AIAA-2016-2857 <b>A model problem for sound radiation by an installed jet</b> P. Nogueira, A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France	0830 hrs AIAA-2016-2858 <b>PSE-based prediction of sound radiation by installed jets</b> P. Nogueira, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; S. Piantanida, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France	0900 hrs AIAA-2016-2859 <b>Hydrodynamic pressure field propagation model for the prediction of the far-field sound produced by jet-wing interaction</b> J. Vera, J. Lawrence, University of Southampton, Southampton, United Kingdom; M. Kingan, University of Auckland, Auckland, New Zealand; R. Self, S. Sinayoko, University of Southampton, Southampton, United Kingdom	0930 hrs AIAA-2016-2860 <b>Effects of coherence on jet-surface interaction noise</b> F. da Silva, A. da Silva, C. Deschamps, Federal University of Santa Catarina, Florianópolis, Brazil; P. Jordan, S. Piantanida, Institut Pprime, CNRS-ENSMA-Univ. Poitiers, Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; et al.	1000 hrs AIAA-2016-2861 <b>Cross-statistical and wavelet analysis of velocity and wall-pressure fields in jet-surface interaction</b> M. Mancinelli, A. Di Marco, R. Camussi, Roma Tre University, Rome, Italy	1030 hrs AIAA-2016-2862 <b>Modeling Jet-Surface Interaction Noise for Separate Flow Nozzles</b> C. Brown, G. Podboy, J. Bridges, NASA Glenn Research Center, Cleveland, OH	1100 hrs AIAA-2016-2863 <b>Jet Surface Interaction Noise in a Planar Exhaust</b> A. Khavaran, R. Bozak, C. Brown, NASA Glenn Research Center, Cleveland, OH	

<b>Tuesday, 31 May 2016</b>						
<b>30-AA-28</b>		<b>Jet Noise V</b>				<b>Rhône 1</b>
Chaired by: U. MICHEL, CFD Software GmbH						
0800 hrs AIAA-2016-2864 <b>Hydrodynamic and Acoustic Wavelet-Based Separation of the Near-Field Pressure of a Compressible Jet</b> M. Mancinelli, T. Pagliaroli, A. Di Marco, R. Camussi, Roma Tre University, Rome, Italy; T. Castelain, École Centrale de Lyon, Lyon, France; O. Leon, ONERA, Paris, France	0830 hrs AIAA-2016-2865 <b>On removing the near-field coherent structures in a jet and its impact on the radiated sound</b> Z. Fu, A. Agarwal, University of Cambridge, Cambridge, United Kingdom; A. Cavaliere, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; G. Brès, Cascade Technologies, Inc., Palo Alto, CA	0900 hrs AIAA-2016-2866 <b>Jet noise reduction through filtering small-scale structures</b> Z. Fu, A. Agarwal, University of Cambridge, Cambridge, United Kingdom; A. Cavaliere, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, G. Lehnasch, National Center for Scientific Research (CNRS), Poitiers, France; G. Daviller, Fluid Mechanics Institute of Toulouse (IMFT), Toulouse, France	0930 hrs AIAA-2016-2867 <b>On the properties of fluctuating turbulent stress sources for high-speed jet noise</b> V. Semiletov, University of Cambridge, Cambridge, United Kingdom; S. Karabasov, Queen Mary University of London, London, United Kingdom	1000 hrs AIAA-2016-2868 <b>Jet-noise reduction: the effect of azimuthal actuation modes</b> M. Le Rallic, P. Jordan, Y. Gervais, National Center for Scientific Research (CNRS), Poitiers, France	1030 hrs AIAA-2016-2869 <b>The aeroacoustics of a subsonic rectangular jet</b> R. Henrywood, A. Agarwal, University of Cambridge, Cambridge, United Kingdom; K. Kanjere, Dyson, Ltd., Malmesbury, United Kingdom	

<b>Tuesday, 31 May 2016</b>						
<b>31-AA-29</b>		<b>Propeller and Rotor Noise I</b>				<b>Saint Clair 4</b>
Chaired by: M. WANG, University of Notre Dame						
0800 hrs AIAA-2016-2870 <b>On trailing edge noise with application in hydroacoustics.</b> D. Nigro, I. Abrahams, University of Manchester, Manchester, United Kingdom	0830 hrs AIAA-2016-2871 <b>Fast Prediction Model for Tonal Noise from Propellers or Rotors</b> B. Marinus, Royal Military Academy, Brussels, Belgium; A. Halimi, Polytechnical School of Algiers, Algiers, Algeria; M. Jeanpierre, École Spéciale Militaire de Saint-Cyr, Guer, France	0900 hrs AIAA-2016-2872 <b>Airfoil-Gust Interactions in Transonic Flow</b> J. Gill, University of Southampton, Southampton, United Kingdom; X. Zhang, S. Zhong, R. Fattah, Hong Kong University of Science and Technology, Hong Kong, Hong Kong	0930 hrs AIAA-2016-2873 <b>Experimental Study of Quadcopter Acoustics and Performance at Static Thrust Conditions</b> N. Intaratap, W. Alexander, W. Devenport, Virginia Polytechnic Institute and State University, Blacksburg, VA; S. Grace, Boston University, Boston, MA; A. Dropkin, Aurora Flight Sciences, Cambridge, MA	1000 hrs AIAA-2016-2874 <b>A Time-Domain Convected High-Speed Impulsive Noise Simulation for Propeller at Incidence</b> Z. Huang, G. Ghorbaniasl, L. Siozos-Rousoulis, C. Lacor, Vrije Universiteit Brussel, Brussels, Belgium	1030 hrs AIAA-2016-2875 <b>Pusher-Propeller Installation Effects in Angular Inflow</b> T. Sinnige, D. Ragni, G. Eitelberg, L. Veldhuis, Delft University of Technology, Delft, The Netherlands	

<b>Tuesday, 31 May 2016</b>						
<b>32-AA-30</b>		<b>Turbomachinery Noise III</b>				<b>Saint Clair 2</b>
Chaired by: W. SCHUSTER, Honeywell International, Inc.						
0800 hrs AIAA-2016-2876 <b>Numerical and Experimental Results of a Turning Mid Turbine Frame with Embedded Design in terms of Acoustic Mode Analysis</b> S. Zerobin, P. Bader, C. Faustmann, A. Marn, E. Göttlich, Graz University of Technology, Graz, Austria	0830 hrs AIAA-2016-2877 <b>Measurement techniques for mode detection in aeroengine inter-stage sections</b> J. Chen, P. Joseph, University of Southampton, Southampton, United Kingdom	0900 hrs AIAA-2016-2878 <b>Sound radiation of fan tones from an installed turbofan aero-engine: fuselage boundary-layer refraction effects</b> J. Gaffney, A. McAlpine, Southampton University, Southampton, United Kingdom; K. Michael, University of Auckland, Auckland, New Zealand	0930 hrs AIAA-2016-2879 <b>Numerical Simulations of Shock-Wave Propagation in Turbofan Intakes</b> J. Thisse, C. Polacsek, J. Mayeur, ONERA, Châtillon, France; S. Khelladi, X. Gloerfelt, Paris Institute of Technology, Paris, France; A. Lafitte, Safran Group, Villaroche, France	1000 hrs AIAA-2016-2880 <b>On a mode-matching technique for sound generation and transmission in a three-dimensional annular cascade of outlet guide vanes</b> S. Bouley, B. François, M. Roger, École Centrale de Lyon, Ecully, France	1030 hrs AIAA-2016-2881 <b>Influence and modeling of OGV heterogeneity</b> M. Sanjose, University of Sherbrooke, Sherbrooke, Canada; M. Pestana, École Centrale de Lyon, Ecully, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada; M. Roger, École Centrale de Lyon, Ecully, France	1100 hrs AIAA-2016-2882 <b>Motor Noise for Electric Powered Aircraft</b> D. Huff, B. Henderson, E. Envia, NASA Glenn Research Center, Cleveland, OH

<b>Tuesday, 31 May 2016</b>		
<b>33-PLNY-3</b> 1130 - 1230 hrs	<b>Future Poser Plant Systems Challenges</b>	<b>Auditorium Pasteur</b>
Cedric Morel Safran-Sncema		

<b>Tuesday, 31 May 2016</b>		
<b>34-AA-31</b>	<b>Aeroacoustic Interactions IV: Cavities and Liners</b>	<b>Saint Clair 3B</b>
Chaired by: R. EWERT, DLR - German Aerospace Center		
1400 hrs AIAA-2016-2883 <b>On The Modal Behaviour of Trapped Acoustic Modes in a Square Ducted Cavity</b> M. Bolduc, S. Ziada, McMaster University, Hamilton, Canada; P. Lafon, EDF, Clamart, France	1430 hrs AIAA-2016-2884 <b>Effect of viscosity, eddy viscosity and velocity profile on the unstable mode in a lined duct with flow</b> B. Xin, X. Jing, X. Sun, Beihang University, Beijing, China	1500 hrs AIAA-2016-2885 <b>Geometry Effect Investigation on Parallel-Coupled Helmholtz Resonators for Duct Noise Damping</b> C. Ji, D. Zhao, X. Li, M. Yin, J. Li, Nanyang Technological University, Singapore, Singapore
1530 hrs AIAA-2016-2886 <b>Measured Source Term in Corrugated Pipes with Flow. Effect of Diameter on Pulsation Source.</b> J. Gollard, F. Sanna, TNO, Delft, The Netherlands; Y. Auregan, University of Maine, Le Mans, France; D. Violato, TNO, Delft, The Netherlands	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2887 <b>An asymptotic model for non-linear Helmholtz resonator of finite depth</b> S. Rienstra, D. Singh, Eindhoven University of Technology, Eindhoven, The Netherlands
1700 hrs AIAA-2016-2888 <b>Unsteady Wall Pressure Measurements In An Outflow Butterfly Valve Using Remote Microphone Probes</b> A. Marsan, M. Sanjose, Y. Pasco, S. Moreau, M. Brouillette, University of Sherbrooke, Sherbrooke, Canada		

<b>Tuesday, 31 May 2016</b>		
<b>35-AA-32</b>	<b>Active Control</b>	<b>Saint Clair 1</b>
Chaired by: R. SANDBERG, University of Melbourne		
1400 hrs AIAA-2016-2889 <b>Direct Numerical Simulations for Adjoint-based Optimal Flow and Noise Control of a Backward-Facing Step</b> J. Otero, University of Southampton, Southampton, United Kingdom; R. Sandberg, University of Melbourne, Melbourne, Australia; A. Sharma, University of Southampton, Southampton, United Kingdom	1430 hrs AIAA-2016-2890 <b>Plasma Actuator for Cylinder Noise Mitigation</b> V. Kopyev, I. Belyaev, V. Kopyev, M. Zaitsev, TsAGI, Moscow, Russia	1500 hrs AIAA-2016-2891 <b>Reduction of UHBR fan blade tones by flow induced secondary sound sources</b> L. Neuhaus, U. Tapken, L. Enghardt, G. Enders, German Aerospace Center (DLR), Berlin, Germany; J. Zillmann, Airbus, Munich, Germany
1530 hrs AIAA-2016-2892 <b>Acoustic Study of a Sweeping Jet Actuator for Active Flow Control (AFC) Applications</b> W. Horne, N. Burnside, NASA Ames Research Center, Moffett Field, CA		

<b>Tuesday, 31 May 2016</b>		
<b>36-AA-33</b>	<b>Advanced Testing Techniques II</b>	<b>Rhône 3A</b>
Chaired by: D. SUTLIFF, NASA Glenn Research Center		
1400 hrs AIAA-2016-2894 <b>Validation of an in-duct to far-field beamformer method for predicting far-field fan broadband noise</b> B. Tester, University of Southampton, Southampton, United Kingdom; Y. Özyörük, Middle East Technical University, Ankara, Turkey; D. Sutliff, R. Bozak, NASA Glenn Research Center, Cleveland, OH	1430 hrs AIAA-2016-2895 <b>Low speed anechoic closed test section at ONERA S1MA Wind tunnel</b> F. Mery, ONERA, Modane, France	1500 hrs AIAA-2016-2897 <b>Acoustic source localisation on a model engine jet with different nozzle configurations and wing installation</b> H. Siller, S. Funke, J. König, German Aerospace Center (DLR), Berlin, Germany
1530 hrs AIAA-2016-2898 <b>Development and Calibration of a Field-Deployable Microphone Phased Array for Propulsion and Airframe Noise Flyover Measurements</b> W. Humphreys, D. Lockard, M. Khorrami, W. Culliton, R. McSwain, NASA Langley Research Center, Hampton, VA; P. Ravetta, AVEC, Inc., Blacksburg, VA; et al.	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2899 <b>Imaging of Broadband Noise from Rotating Sources in Uniform Axial Flow</b> C. Ocker, W. Pannert, Aalen University, Aalen, Germany

<b>Tuesday, 31 May 2016</b>								
<b>37-AA-34</b>	<b>Airframe Noise III: Landing Gear</b>							<b>Saint Clair 3A</b>
Chaired by: E. MANOHA, ONERA								
1400 hrs AIAA-2016-2900 <b>The Reduction of Main Landing Gear Noise</b> J. Kennedy, E. Neri, G. Bennett, Trinity College Dublin, Dublin, Ireland	1430 hrs AIAA-2016-2901 <b>Acoustic Measurements of a Large Civil Transport Main Landing Gear Model</b> P. Ravetta, AVEC, Inc., Blacksburg, VA; M. Khorrami, NASA Langley Research Center, Hampton, VA; R. Burdisso, AVEC, Inc., Blacksburg, VA	1500 hrs AIAA-2016-2902 <b>High-Order Numerical Simulations of An Isolated Landing Gear Wheel with a Hub Cavity</b> M. Wang, D. Angland, University of Southampton, Southampton, United Kingdom; X. Zhang, R. Fattah, Hong Kong University of Science and Technology, Hong Kong, China	1530 hrs AIAA-2016-2903 <b>Development of an empirical model for landing gear noise prediction</b> Y. Jiang, China Aerodynamics Research and Development Center, Mianyang, China; A. Filippone, University of Manchester, Manchester, United Kingdom	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2904 <b>The Influence of Yaw on the Unsteady Aerodynamics over a Two-wheeled Landing Gear Model</b> A. Gatto, Brunel University London, Uxbridge, United Kingdom; W. Graham, University of Cambridge, Cambridge, United Kingdom	1700 hrs AIAA-2016-2905 <b>Passive Control of Tandem Cylinders Flow and Noise Using Porous Coating</b> H. Liu, Northwestern Polytechnical University, Xi'an, China; M. Azarpeyvand, University of Bristol, Bristol, United Kingdom		

<b>Tuesday, 31 May 2016</b>								
<b>38-AA-35</b>	<b>Community and Interior Noise</b>							<b>Saint Clair 4</b>
Chaired by: S. RIZZI, NASA Langley Research Center								
1400 hrs AIAA-2016-2906 <b>Auralization of NASA N+2 Aircraft Concepts from System Noise Predictions</b> S. Rizzi, C. Burley, R. Thomas, NASA Langley Research Center, Hampton, VA	1430 hrs AIAA-2016-2907 <b>A Psychoacoustic Evaluation of Noise Signatures from Advanced Civil Transport Aircraft</b> S. Rizzi, A. Christian, NASA Langley Research Center, Hampton, VA	1500 hrs AIAA-2016-2908 <b>Sound synthesis and 3D sound rendering of aircraft flyovers with controllable parameters</b> A. Minard, S. Hourcade, C. Lambourg, P. Bousnard, GENESIS Acoustics, Aix-en-Provence, France	1530 hrs AIAA-2016-2909 <b>Quantifying the audible differences in measured and auralized aircraft sounds</b> A. Sahai, D. Simons, Delft University of Technology, Delft, The Netherlands	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2910 <b>Influence of pressure gradients and Reynolds number on wall-pressure wavenumber-frequency spectra</b> X. Gloerfelt, Paris Institute of Technology, Paris, France	1700 hrs AIAA-2016-2911 <b>Numerical Study of Wall Pressure Fluctuations for Zero and Non-Zero Pressure Gradient Turbulent Boundary Layers</b> N. Hu, C. Appel, M. Herr, R. Ewert, N. Reiche, German Aerospace Center (DLR), Braunschweig, Germany	1730 hrs AIAA-2016-2912 <b>Estimation of Automotive Wind Noise by Coupling a Lattice Boltzmann Based Flow Simulation to Statistical Energy Analysis</b> F. Vanherpe, R. Haidar, C. Qi, PSA Peugeot Citroën, Vélizy-Villacoublay, France	1800 hrs AIAA-2016-2913 <b>Contribution of coherent structures to wall-pressure beneath turbulent boundary layer flows subjected to pressure gradients</b> M. Alaoui, X. Gloerfelt, Paris Institute of Technology, Paris, France; A. Sengissen, Airbus, Toulouse, France

<b>Tuesday, 31 May 2016</b>								
<b>39-AA-36</b>	<b>CAA VI: Boundary conditions and Airfoils</b>							<b>Rhône 3B</b>
Chaired by: V. GOLUBEV, Embry-Riddle Aeronautical University (ERAU)								
1400 hrs AIAA-2016-2914 <b>Towards a Generic Non-Reflective Characteristic Boundary Condition for Aeroacoustic Simulations</b> R. Fattah, Hong Kong University of Science and Technology, Kowloon, Hong Kong; J. Gill, University of Southampton, Southampton, United Kingdom; X. Zhang, Hong Kong University of Science and Technology, Kowloon, Hong Kong	1430 hrs AIAA-2016-2915 <b>Development and Evaluation of Non-Reflective Boundary Conditions for Lattice Boltzmann Method</b> F. Chevillotte, Matelys - Research Lab, Vaulx-en-Velin, France; D. Ricot, Renault, Guyancourt, France	1500 hrs AIAA-2016-2917 <b>Determination of Acoustic Impedance for Helmholtz Resonators Through Incompressible Unsteady Flow Simulations</b> J. Tournade, KU Leuven, Leuven, Belgium; K. Förner, Technical University of Munich, Munich, Germany; P. Martínez-Lera, Siemens, Leuven, Belgium; W. Polifke, Technical University of Munich, Munich, Germany; W. Desmet, KU Leuven, Leuven, Belgium	1530 hrs AIAA-2016-2918 <b>A Numerical Study of Synthetic-Jet Actuation Effect on Airfoil Trailing Edge Noise</b> M. Sansone, L. Nguyen, V. Golubev, R. Mankbadi, Embry-Riddle Aeronautical University, Daytona Beach, FL	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2919 <b>Large Eddy Simulation of Airfoil Self-Noise at High Reynolds Number</b> J. Kocheemoolayil, S. Lele, Stanford University, Stanford, CA	1700 hrs AIAA-2016-2920 <b>Prediction of porous trailing edge noise reduction using acoustic jump-conditions at porous interfaces</b> L. Rossian, B. Fassmann, R. Ewert, J. Delfs, German Aerospace Center (DLR), Braunschweig, Germany		

Tuesday, 31 May 2016								
40-AA-37	Duct Acoustics IV: Modeling							Rhône 2
Chaired by: E. BRAMBLEY, University of Cambridge								
1400 hrs AIAA-2016-2921 <b>A Statistical Approach to Broadband Noise Suppression</b> W. Eversman, Missouri University of Science and Technology, Rolla, MO	1430 hrs AIAA-2016-2922 <b>Asymptotic and numerical Green's functions in a lined duct with realistic shear and swirl</b> J. Mathews, N. Peake, University of Cambridge, Cambridge, United Kingdom; S. Bianchi, Rolls-Royce Group plc, Derby, United Kingdom	1500 hrs AIAA-2016-2923 <b>New Insights into Mode Nonorthogonality in Ducts with Impedance Boundary Conditions</b> W. Bi, V. Pagneux, University of Maine, Le Mans, France	1530 hrs AIAA-2016-2924 <b>Influence of shear flow on liner impedance computed by multimodal method</b> X. Dai, Y. Auregan, University of Maine, Le Mans, France	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2928 <b>On the Interaction of NA Acoustic Liner with a Boundary Layer and a Cross-Flow</b> L. Braga da Costa Campos, Technical University of Lisbon, Lisbon, Portugal	1700 hrs AIAA-2016-2926 <b>A Spectral Boundary Integral Method for Computing the Effect of Locally and Non-locally Reacting Liners in Flow Duct Applications</b> E. Perrey-Debain, R. Maréchal, J. Ville, University of Technology, Compiègne, France	1730 hrs AIAA-2016-2927 <b>Comparative study of different analytical approaches for modelling the transmission of sound waves through turbomachinery stators</b> M. Behn, U. Tapken, German Aerospace Center (DLR), Berlin, Germany; P. Puttkammer, R. Hagmeijer, University of Twente, Enschede, The Netherlands; N. Thouault, MTU Aero Engines, Munich, Germany	1800 hrs AIAA-2016-2925 <b>Sound Propagation in Slowly Varying 2D Duct with Shear Flow</b> S. Rienstra, Technical University of Eindhoven, Eindhoven, The Netherlands

Tuesday, 31 May 2016								
41-AA-38	Jet Noise VI							Auditorium Pasteur
Chaired by: D. MCLAUGHLIN, Pennsylvania State University								
1400 hrs AIAA-2016-2929 <b>Azimuthal organisation of turbulent structures in underexpanded impinging round jets</b> R. Gojon, C. Bogey, École Centrale de Lyon, Ecully, France	1430 hrs AIAA-2016-2930 <b>Effect of Nozzle-Plate Distance on Acoustic Phenomena from Supersonic Impinging Jet</b> M. Akamine, K. Okamoto, University of Tokyo, Kashiwa, Japan; K. Gee, T. Neilsen, Brigham Young University, Provo, UT; S. Teramoto, T. Okunuki, University of Tokyo, Bunkyo, Japan; et al.	1500 hrs AIAA-2016-2931 <b>Investigation of the feedback mechanism in ideally expanded round impinging jets using large-eddy simulation</b> R. Gojon, C. Bogey, École Centrale de Lyon, Ecully, France	1530 hrs AIAA-2016-2932 <b>Theoretical modeling of the excess noise due to jet-wing interaction</b> S. Denisov, G. Faranosov, N. Ostrikov, O. Bychkov, TsAGI, Moscow, Russia	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2933 <b>Turbulence Modelling and Meshing Developments for the Prediction of Jet Noise Installation Effects</b> C. Mockett, M. Fuchs, F. Kramer, U. Michel, CFD Software GmbH, Berlin, Germany; M. Steger, Rolls-Royce Group plc, Dahlewitz, Germany; F. Thiele, CFD Software GmbH, Berlin, Germany	1700 hrs AIAA-2016-2934 <b>Input-output analysis of heated axisymmetric turbulent jets</b> J. Jeun, J. Nichols, M. Jovanovic, University of Minnesota, Minneapolis, MN	1730 hrs AIAA-2016-2935 <b>Stochastic and harmonic optimal forcing in subsonic jets</b> O. Semeraro, LadHyX, Palaiseau, France; V. Jaunet, P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavaliéri, Instituto Tecnológico de Aeronáutica, São José dos Campos, Brazil; L. Lesshafft, LadHyX, Palaiseau, France	

Tuesday, 31 May 2016								
42-AA-39	Jet Noise VII: Supersonic Jets							Rhône 1
Chaired by: K. AHUJA, Georgia Institute of Technology								
1400 hrs AIAA-2016-2936 <b>Effects of Disturbed Nozzle-exit Boundary Layers on Acoustic Waves from Ideally-expanded Supersonic Jet</b> T. Nonomura, A. Oyama, K. Fujii, Japan Aerospace Exploration Agency (JAXA), Sagami-hara, Japan; K. Morihiro, G. Pichon, D. Terakado, University of Tokyo, Sagami-hara, Japan	1430 hrs AIAA-2016-2937 <b>Effects of Temperature on Noise Generation in Supersonic Jets</b> J. Liu, A. Corrigan, K. Kailasanath, Naval Research Laboratory, Washington, D.C.; E. Gutmark, University of Cincinnati, Cincinnati, OH	1500 hrs AIAA-2016-2938 <b>Numerical Simulation of Supersonic Twin-Jet Noise with High Order Finite Difference Scheme</b> J. Gao, X. Xu, X. Li, Beihang University, Beijing, China	1530 hrs AIAA-2016-2939 <b>Effects of Extended Expansion Ramps on Flow and Acoustic Field of Low Supersonic Single Expansion Ramp Nozzles</b> B. Malla, E. Gutmark, University of Cincinnati, Cincinnati, OH	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2940 <b>Coupling Dynamics of Twin Supersonic Round Jets</b> J. Cluts, C. Kuo, M. Samimy, Ohio State University, Columbus, OH	1700 hrs AIAA-2016-2941 <b>Mode Decomposition of a Supersonic Jet</b> U. Sasidharan Nair, D. Gaitonde, Ohio State University, Columbus, OH	1730 hrs AIAA-2016-2942 <b>Acoustic fields of a supersonic jet deflected by wedges mounted on a flat plate</b> S. Patel, J. Mathew, Indian Institute of Science, Bangalore, India	

<b>Tuesday, 31 May 2016</b>								
<b>43-AA-40</b>	<b>Turbomachinery Noise IV: Broadband</b>							<b>Saint Clair 2</b>
Chaired by: H. ATASSI, University of Notre Dame								
1400 hrs AIAA-2016-2943 <b>Acoustic Characterization of Forward- and Backward-Skewed Axial Fans under Increased Inflow Turbulence</b> F. Zenger, University of Erlangen-Nürnberg, Erlangen, Germany; G. Herold, Brandenburg University of Technology, Cottbus, Germany; S. Becker, University of Erlangen-Nürnberg, Erlangen, Germany	1430 hrs AIAA-2016-2944 <b>Fan-OGV interaction broadband noise prediction in a rigid annular duct with swirling and sheared mean flow.</b> V. Masson, University of Sherbrooke, Sherbrooke, Canada; H. Posson, Airbus, Toulouse, France; M. Sanjose, T. Léonard, S. Moreau, University of Sherbrooke, Sherbrooke, Canada; M. Roger, École Centrale de Lyon, Lyon, France	1500 hrs AIAA-2016-2945 <b>Turbofan Broadband Noise Prediction using the Lattice Boltzmann Method</b> D. Casalino, A. Hazir, Exa Corporation, Stuttgart, Germany; A. Mann, Exa Corporation, Brisbane, CA	1530 hrs AIAA-2016-2946 <b>Investigation of methods for including vane geometry in predictions of fan broadband noise</b> S. Grace, D. Villafranco, A. Wixom, Boston University, Boston, MA	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-2947 <b>Analytical models based on a mode-matching technique for turbulence impingement noise on axial-flow outlet guide vanes</b> B. François, S. Bouley, M. Roger, École Centrale de Lyon, Ecully, France; S. Moreau, Université de Sherbrooke, Sherbrooke, Canada	1700 hrs AIAA-2016-2948 <b>Effects of Vane Sweep on Fan-Wake/Outlet-Guide-Vane Interaction Broadband Noise</b> H. Ju, General Electric Company, Niskayuna, NY	1730 hrs AIAA-2016-2949 <b>Three-Dimensional Modeling of Annular Cascade Trailing-Edge Noise</b> M. Roger, B. François, M. Bauerheim, École Centrale de Lyon, Ecully, France	1800 hrs AIAA-2016-2950 <b>Turbofan broadband noise predictions using a 3-D ZDES rotor blade approach</b> V. Bonneau, Safran, Magny-les-Hameaux, France; C. Polacsek, ONERA, Châtillon, France; L. Castillon, J. Marty, ONERA, Meudon, France; Y. Gervais, Institut Pprime, Poitiers, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada

**Wednesday**

<b>Wednesday, 1 June 2016</b>								
<b>44-AA-41</b>	<b>Leading Edge Noise II: Control</b>							<b>Saint Clair 3B</b>
Chaired by: P. JOSEPH, ISVR/University of Southampton								
0800 hrs AIAA-2016-2951 <b>Towards Understanding Aerofoils with Dual-Frequency Wavy Leading Edges Interacting with Vortical Disturbances</b> J. Turner, J. Kim, C. Paruchuri, P. Joseph, University of Southampton, Southampton, United Kingdom	0830 hrs AIAA-2016-2952 <b>Towards Understanding Aerofoils with Wavy Leading Edges Interacting with Vortical Disturbances</b> J. Turner, J. Kim, University of Southampton, Southampton, United Kingdom	0900 hrs AIAA-2016-2953 <b>Experimental validation of a wind turbine turbulent inflow noise prediction code</b> S. Buck, Siemens, Boulder, CO; S. Oerlemans, Siemens, Brande, Denmark; S. Palo, University of Colorado, Boulder, Boulder, CO	0930 hrs AIAA-2016-2954 <b>Experimental Investigation of Leading Edge Hook Structures for Wind Turbine Noise Reduction</b> T. Geyer, Brandenburg University of Technology, Cottbus, Germany; S. Wasala, J. Cater, S. Norris, University of Auckland, Auckland, New Zealand; E. Sarraj, Brandenburg University of Technology, Cottbus, Germany	1000 hrs AIAA-2016-2955 <b>Experimental Study of Wake / Flap Interaction Noise and the Reduction of Flap Side Edge Noise</b> F. Hutcheson, NASA Langley Research Center, Hampton, VA; D. Stead, Northrop Grumman Corporation, Hampton, VA; G. Plassman, National Institute of Aerospace, Hampton, VA	1030 hrs AIAA-2016-2956 <b>An Experimental and Numerical Investigation of Airfoil Instability Noise with Leading Edge Serrations</b> W. Chen, W. Qiao, Northwestern Polytechnical University, Xi'an, China; X. Wang, State Key Laboratory of Aerodynamics, Mianyang, China; L. Wang, F. Tong, Northwestern Polytechnical University, Xi'an, China			

<b>Wednesday, 1 June 2016</b>								
<b>45-AA-42</b>	<b>Airframe Noise IV: High-Lift Systems</b>							<b>Saint Clair 3A</b>
Chaired by: Y. GUO, NEAT Consulting								
0800 hrs AIAA-2016-2957 <b>Modeling and Prediction of Krueger Device Noise</b> Y. Guo, NEAT Consulting, Seal Beach, CA; C. Burley, R. Thomas, NASA Langley Research Center, Hampton, VA	0830 hrs AIAA-2016-2958 <b>Computational Design of a Krueger Flap Targeting Conventional Slat Aerodynamics</b> H. Akaydin, J. Housman, C. Kiris, NASA Ames Research Center, Moffett Field, CA; C. Bahr, F. Hutcheson, NASA Langley Research Center, Hampton, VA	0900 hrs AIAA-2016-2959 <b>Study on Change of Noise Generation from Slat Track Shape</b> M. Murayama, Y. Yokokawa, Y. Ito, K. Yamamoto, T. Takaishi, H. Ura, Japan Aerospace Exploration Agency (JAXA), Mitaka, Japan; et al.	0930 hrs AIAA-2016-2960 <b>Aeroacoustic Measurements of Leading-Edge Slat Noise</b> K. Pascioni, L. Cattafesta, Florida State University, Tallahassee, FL	1000 hrs AIAA-2016-2961 <b>A Comparison of the Noise Characteristics of a Conventional Slat and Krueger Flap</b> C. Bahr, F. Hutcheson, R. Thomas, NASA Langley Research Center, Hampton, VA; J. Housman, NASA Ames Research Center, Moffett Field, CA	1030 hrs AIAA-2016-2962 <b>Noise Prediction of a Simplified High-Lift Device</b> P. Salas, S. Moreau, University of Sherbrooke, Sherbrooke, Canada	1100 hrs AIAA-2016-2963 <b>Slat Noise Predictions using Higher-Order Finite-Difference Methods on Overset Grids</b> J. Housman, C. Kiris, NASA Ames Research Center, Moffett Field, CA		

Wednesday, 1 June 2016							
46-AA-43	CAA VII						Rhône 3A
Chaired by: M. KHORRAMI, NASA Langley Research Center							
0800 hrs AIAA-2016-2964 <b>Realization of Arbitrary Vorticity Spectra using Generic Stochastic Turbulence</b> N. Reiche, R. Ewert, German Aerospace Center (DLR), Braunschweig, Germany	0830 hrs AIAA-2016-2965 <b>Canonical Stochastic Realization of Turbulent Sound Sources via Forced Linear Advection-Diffusion-Dissipation Equation</b> R. Ewert, German Aerospace Center (DLR), Braunschweig, Germany	0900 hrs AIAA-2016-2966 <b>On Efficient Vertex-Centered Schemes on Hybrid Unstructured Meshes</b> T. Kozubskaya, P. Bakhvalov, Russian Academy of Sciences, Moscow, Russia	0930 hrs AIAA-2016-2967 <b>GPU CABARET Solutions for the SILOET Jet Noise Experiment: Flow and Noise Modelling.</b> A. Markesteijn, Queen Mary University of London, London, United Kingdom; V. Semiletov, University of Cambridge, Cambridge, United Kingdom; S. Karabasov, Queen Mary University of London, London, United Kingdom	1000 hrs AIAA-2016-2968 <b>Scattering to Higher Harmonics for Quarter Wave and Helmholtz Resonators</b> K. Förner, Technical University of Munich, Munich, Germany; J. Tournadre, P. Martinez-Lera, Siemens, Leuven, Belgium; W. Polifke, Technical University of Munich, Munich, Germany			

Wednesday, 1 June 2016							
47-AA-44	CAA VIII						Rhône 3B
Chaired by: D. CASALINO, EXA GmbH							
0800 hrs AIAA-2016-2969 <b>Direct Noise Computation with a Lattice-Boltzmann Method and Application to Industrial Test Cases</b> R. Brionnaud, M. Chávez Modena, G. Trapani, D. M. Holman, Next Limit Technologies, Madrid, Spain	0830 hrs AIAA-2016-2970 <b>An Adaptive, High-Order Finite Element Method for Aeroengine Acoustics</b> G. Gabard, University of Southampton, Southampton, United Kingdom; H. Beriot, Siemens, Leuven, Belgium; A. Prinn, University of Southampton, Southampton, United Kingdom; K. Kucukcoskun, Siemens, Leuven, Belgium	0900 hrs AIAA-2016-2971 <b>Artificial Damping Methods for Stable Computations with Linearized Euler Equations</b> Y. Sun, S. Zhong, X. Zhong, Hong Kong University of Science and Technology, Hong Kong, Hong Kong; J. Gill, X. Chen, University of Southampton, Southampton, United Kingdom	0930 hrs AIAA-2016-2972 <b>A flux reconstruction technique for non-conforming grid interfaces in aeroacoustic simulations</b> S. Le Bras, CERFACS, Toulouse, France; H. Deniau, ONERA, Toulouse, France; C. Bagey, École Centrale de Lyon, Ecully, France	1000 hrs AIAA-2016-2973 <b>Linearized Navier-Stokes Equations and their Numerical Solution</b> A. Lario, R. Arino, Technical University of Turin, Torino, Italy	1030 hrs AIAA-2016-2974 <b>Impact of the Mean Flow Representation on DGM Simulations of Flow Acoustics</b> M. Williamschen, G. Gabard, University of Southampton, Southampton, United Kingdom; H. Beriot, Siemens, Leuven, Belgium	1100 hrs AIAA-2016-2975 <b>On fully-implicit solutions of the time-linearized Euler equations in a DG/Chimera solver</b> N. Wukie, P. Orkwis, University of Cincinnati, Cincinnati, OH	

Wednesday, 1 June 2016							
48-AA-45	Duct Acoustics V						Rhône 2
Chaired by: M. JONES, NASA-Langley Research Center							
0800 hrs AIAA-2016-2976 <b>Analytic model and concise impedance boundary condition for viscous acoustics in ducted shear flow</b> D. Khamis, E. Brambley, University of Cambridge, Cambridge, United Kingdom	0830 hrs AIAA-2016-2977 <b>Determination of the acoustic properties of liners under high level multi-tone excitation</b> H. Boden, Royal Institute of Technology (KTH), Stockholm, Sweden	0900 hrs AIAA-2016-2978 <b>Impedance and attenuation measurements of acoustic absorbers in a hot environment</b> C. Richter, C. Lahiri, Rolls-Royce Group plc, Blankenfelde-Mahlow, Germany; F. Bake, K. Knobloch, German Aerospace Center (DLR), Berlin, Germany; R. Pongratz, D. Redmann, Airbus, Ottobrunn, Germany	0930 hrs AIAA-2016-2979 <b>Acoustic Liner Drag: Measurements on Novel Facesheet Perforate Geometries</b> B. Howerton, M. Jones, NASA Langley Research Center, Hampton, VA	1000 hrs AIAA-2016-2980 <b>Acoustic Characterization of a Hybrid Liner Consisting of Porous Material by Using A Unified Linearized Navier-Stokes Approach</b> W. Na, S. Boij, G. Efraimsson, Royal Institute of Technology (KTH), Stockholm, Sweden	1030 hrs AIAA-2016-2981 <b>Enhancement of sound absorption in ducts using porous material with embedded inclusions</b> L. Xiong, University of Maine, Le Mans, France; H. Posson, D. Lizarazu, Airbus, Toulouse, France; Y. Auregan, University of Maine, Le Mans, France	1100 hrs AIAA-2016-2982 <b>Development of a single degree of freedom micro-perforate impedance model under grazing flow and high SPL</b> P. Murray, University of Southampton, Southampton, United Kingdom; C. Donnan, Bombardier Aerospace, Belfast, United Kingdom; C. Richter, Rolls-Royce Group plc, Dahlewitz, Germany; R. Astley, University of Southampton, Southampton, United Kingdom	

Wednesday, 1 June 2016							
49-AA-46		Jet Noise VIII: Experiments					Auditorium Pasteur
Chaired by: P. JORDAN, CNRS PPRIME INSTITUTE							
0800 hrs AIAA-2016-2983 <b>Design of a Facility for Shock-Cells Noise Experimental Investigation on a Subsonic/Supersonic Coaxial Jet</b> D. Guariglia, University of Rome "La Sapienza", Rome, Italy; A. Rubio Carpio, C. Schram, von Kármán Institute for Fluid Dynamics, Rhode-Saint-Genèse, Belgium	0830 hrs AIAA-2016-2984 <b>Estimation of convection speed in underexpanded jets from schlieren pictures</b> T. Casteloin, Claude Bernard University Lyon 1, Lyon, France; R. Gojon, B. Mercier, C. Bogey, École Centrale de Lyon, Ecully, France	0900 hrs AIAA-2016-2985 <b>Vortex Dynamics and Sound Emission in an Excited High-Speed Jet</b> M. Crawley, C. Kuo, M. Samimy, Ohio State University, Columbus, OH	0930 hrs AIAA-2016-2986 <b>Noise Prediction for Installed Jet</b> B. Lyu, A. Dowling, University of Cambridge, Cambridge, United Kingdom	1000 hrs AIAA-2016-2987 <b>Assessment of WALE and Sigma(<math>\sigma</math>) Sub-Grid Scale Models for Jet Noise Prediction</b> M. Mahak, M. Moratilla-Vega, G. Page, H. Xia, Loughborough University, Loughborough, United Kingdom			
Wednesday, 1 June 2016							
50-AA-47		Jet Noise IX					Rhône 1
Chaired by: D. BODONY, University of Illinois at Urbana-Champaign							
0800 hrs AIAA-2016-2988 <b>Simple Jet Noise Reduction Technique for Variable Nozzle of Supersonic Aircraft</b> J. Akatsuka, Y. Watanabe, T. Ishii, Japan Aerospace Exploration Agency (JAXA), Mitaka, Japan	0830 hrs AIAA-2016-2989 <b>Experimental and Numerical Study of Injector Design and Operation on Supersonic Jet Noise Reduction Using Fluidic Corrugations</b> S. Hromisin, J. Lampenfield, D. McLaughlin, P. Morris, Pennsylvania State University, State College, PA	0900 hrs AIAA-2016-2990 <b>Extending On-Demand Noise Reduction to Industry Scale for Tactical Aircraft</b> D. McLaughlin, P. Morris, Pennsylvania State University, State College, PA; S. Martens, E. Lariviere, General Electric Company, Evendale, OH	0930 hrs AIAA-2016-2991 <b>An Experimental Investigation of Jet Noise from Septae Nozzles</b> K. Zaman, J. Bridges, A. Fagan, C. Brown, NASA Glenn Research Center, Cleveland, OH	1000 hrs AIAA-2016-2992 <b>The Aeroacoustics of Offset Three-Stream Jets for Future Commercial Supersonic Aircraft</b> B. Henderson, D. Huff, NASA Glenn Research Center, Cleveland, OH			
Wednesday, 1 June 2016							
51-AA-48		Propeller and Rotor Noise II: Turbulence Ingestion					Saint Clair 1
Chaired by: W. ALEXANDER, Virginia Tech							
0800 hrs AIAA-2016-2994 <b>Phased Array Measurements of a Rotor Ingesting a Turbulent Shear Flow</b> W. Alexander, N. Molinaro, C. Hickling, H. Murray, W. Deavenport, Virginia Polytechnic Institute and State University, Blacksburg, VA; S. Glegg, Florida Atlantic University, Boca Raton, FL	0830 hrs AIAA-2016-2995 <b>Sound Radiation from a Rotor Operating at High Thrust Near a Wall</b> S. Glegg, J. Grant, Florida Atlantic University, Boca Raton, FL; H. Murray, W. Deavenport, W. Alexander, Virginia Polytechnic Institute and State University, Blacksburg, VA	0900 hrs AIAA-2016-2996 <b>Effect of the Edge-and-Tip Vortex on Airfoil Selfnoise and Turbulence Impingement Noise</b> J. Giez, L. Vion, Safran Group, Moissy-Cramayel, France; M. Roger, École Centrale de Lyon, Lyon, France; S. Moreau, University of Sherbrooke, Sherbrooke, Canada	0930 hrs AIAA-2016-2997 <b>Boundary Layer induced Rotor Noise using an Analytical Modal Approach</b> M. Stagat, A. Moreau, S. Guerin, German Aerospace Center (DLR), Berlin, Germany	1000 hrs AIAA-2016-2998 <b>Computation of the Noise of Rotor Interaction with a Turbulent Wake</b> J. Wang, K. Wang, M. Wang, University of Notre Dame, Notre Dame, IN	1030 hrs AIAA-2016-2999 <b>Aeroacoustic Study of the Interaction of a Rotating Blade with a Batchelor Vortex</b> P. Zehner, F. Falissard, ONERA, Châtillon, France; X. Gloerfelt, Paris Institute of Technology, Paris, France		



<b>Wednesday, 1 June 2016</b>							
<b>52-AA-49</b>		<b>Turbomachinery Noise V: Engines</b>					<b>Saint Clair 2</b>
Chaired by: E. ENVIA, NASA Glenn Research Center							
0800 hrs AIAA-2016-3000 <b>Large Eddy Simulation of a scale-model turbofan for fan noise source diagnostic</b> T. Leonard, M. Sanjose, S. Moreau, University of Sherbrooke, Sherbrooke, Canada; F. Duchaine, CERFACS, Toulouse, France	0830 hrs AIAA-2016-3001 <b>Noise Transmission Characteristics of a High Pressure Turbine Stage</b> K. Knobloch, S. Guerin, A. Holewa, German Aerospace Center (DLR), Berlin, Germany; Y. Mahmoudi-Larimi, T. Hynes, University of Cambridge, Cambridge, United Kingdom; F. Bake, German Aerospace Center (DLR), Berlin, Germany	0900 hrs AIAA-2016-3002 <b>Characterisation and modelling of axial fan noise</b> B. Faverjon, National Institute of Applied Sciences (INSA), Lyon, France; J. Fischer, C. Doolan, D. Moreau, Z. Prime, University of New South Wales, Sydney, Australia	0930 hrs AIAA-2016-3003 <b>Measurements of Interaction and Scattered Modes in a Mixed Bypass/Core Duct due to Multiple Rotating Source</b> D. Sutilff, NASA Glenn Research Center, Cleveland, OH; T. Marotta, Honeywell International, Inc., Phoenix, AZ	1000 hrs AIAA-2016-3004 <b>Indirect Noise Generation in a High Pressure Turbine Stage</b> F. Bake, German Aerospace Center (DLR), Berlin, Germany; P. Goetani, G. Persico, Technical University of Milan, Milan, Italy; L. Neuhaus, K. Knobloch, German Aerospace Center (DLR), Berlin, Germany	1030 hrs AIAA-2016-3005 <b>Efficacy of a Multiple Degree of Freedom Acoustic Liner Installed in the Bypass of a Scale Model High Speed Fan</b> D. Sutilff, NASA Glenn Research Center, Cleveland, OH; D. Nark, M. Jones, NASA Langley Research Center, Hampton, VA	1100 hrs AIAA-2016-3006 <b>Farfield Acoustic Characteristics of the DGEN380 Turbofan Engine as Measured in the NASA Glenn AeroAcoustic Propulsion Laboratory</b> D. Sutilff, C. Brown, NASA Glenn Research Center, Cleveland, OH; B. Bayon, Price Induction, SA, Anglet, France; D. Sree, Tuskegee University, Tuskegee, AL	

<b>Wednesday, 1 June 2016</b>							
<b>53-PLNY-4</b>		<b>A Second Golden Age for Aeroacoustics?</b>					<b>Auditorium Pasteur</b>
<b>1130 - 1230 hrs</b>		<b>Aeroacoustic Modeling - A View Towards the Future.</b>					
Sanjiva Lele Stanford University							

<b>Wednesday, 1 June 2016</b>							
<b>54-AA-50</b>		<b>Loads, Sonic Fatigue and Boom</b>					<b>Saint Clair 1</b>
Chaired by: N. MURRAY, The University of Mississippi							
1400 hrs AIAA-2016-3007 <b>Wavenumber-Frequency Spectra of Pressure Fluctuations Measured via Fast Response Pressure Sensitive Paint</b> J. Panda, N. Roozeboom, J. Ross, NASA Ames Research Center, Moffett Field, CA	1430 hrs AIAA-2016-3008 <b>Unsteady Loading and Dynamic Response of a Structure Excited by a High-Speed Wall-Bounded Jet. Part I: Aerodynamic Excitation</b> J. Winkler, R. Schlinker, J. Simonich, United Technologies Corporation, East Hartford, CT; K. Low, Pratt & Whitney, East Hartford, CT	1500 hrs AIAA-2016-3009 <b>Unsteady Loading and Dynamic Response of a Structure Excited by a High-Speed Wall-Bounded Jet Part II: Structural Response</b> K. Homma, P. Braunwart, United Technologies Corporation, East Hartford, CT; B. Rapp, Pratt & Whitney, East Hartford, CT; R. Schlinker, United Technologies Corporation, East Hartford, CT	1530 hrs AIAA-2016-3010 <b>Finding the boom: Phased array processing applied to sonic boom direction of arrival estimation</b> T. Schultz, J. Underbrink, C. Hunting, J. Giannakis, The Boeing Company, Seattle, WA; M. Moore, Siemens, Phoenix, AZ; E. Hearing, NASA Armstrong Flight Research Center, Edwards, CA; et al.	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3011 <b>Mach Cutoff Analysis and Results from NASA's Farfield Investigation of No-boom Thresholds</b> L. Clift, M. Hill, E. Haering, NASA Armstrong Flight Research Center, Edwards, CA	1700 hrs AIAA-2016-3012 <b>Steepening and smearing of shock front of nonlinear <i>N</i>-wave propagating in a turbulent layer</b> P. Yuldashev, Moscow State University, Moscow, Russia; S. Ollivier, École Centrale de Lyon, Lyon, France; V. Khokhlova, Moscow State University, Moscow, Russia; P. Blanc-Benon, École Centrale de Lyon, Lyon, France	1730 hrs AIAA-2016-3013 <b>Reflection of weak shockwaves from a rough surface</b> D. Dragna, S. Ollivier, C. Desjuy, T. Castelain, P. Blanc-Benon, École Centrale de Lyon, Ecully, France

<b>Wednesday, 1 June 2016</b>							
<b>55-AA-51</b>		<b>Aeroacoustic Interactions V: Boundary Layers and Shear Layers</b>					<b>Saint Clair 3B</b>
Chaired by: X. GLOERFELT, Arts et Métiers ParisTech							
1400 hrs AIAA-2016-3014 <b>Mean Flow Effect on Shielding of Noncompact Aviation Noise Sources</b> N. Ostrikov, S. Denisov, TsAGI, Moscow, Russia	1430 hrs AIAA-2016-3015 <b>Mach Number Dependence on Sound Sources in High Mach Number Turbulent Mixing Layer</b> D. Terakado, T. Nonomura, A. Oyama, K. Fujii, Japan Aerospace Exploration Agency (JAXA), Sagamiyama, Japan	1500 hrs AIAA-2016-3016 <b>Tonal dynamics and sound in subsonic turbulent jets</b> V. Jaunet, P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; A. Towne, T. Colonius, O. Schmidt, California Institute of Technology, Pasadena, CA; et al.	1530 hrs AIAA-2016-3017 <b>Silent Owl Flight: The Effect of the Leading Edge Comb on the Gliding Flight Noise</b> T. Geyer, V. Claus, E. Sarradi, Brandenburg University of Technology, Cottbus, Germany				

Wednesday, 1 June 2016								
56-AA-52	Trailing Edge Noise III: Control							Saint Clair 3A
Chaired by: F. HUTCHESON, NASA-Langley Research Center								
1400 hrs AIAA-2016-3018 <b>Reduction of wind turbine noise using blade trailing edge devices</b> S. Oerlemans, Siemens, Brande, Denmark	1430 hrs AIAA-2016-3019 <b>The effects of poroelastic blade extensions on scattered noise</b> L. Ayton, University of Cambridge, Cambridge, United Kingdom	1500 hrs AIAA-2016-3020 <b>Experimental and Theoretical Analysis of Bio-Inspired Trailing Edge Noise Control Devices</b> I. Clark, Virginia Polytechnic Institute and State University, Blacksburg, VA; D. Baker, University of Cambridge, Cambridge, United Kingdom; W. Alexander, W. Devenport, Virginia Polytechnic Institute and State University, Blacksburg, VA; S. Glegg, Florida Atlantic University, Boca Raton, FL; J. Jaworski, Lehigh University, Bethlehem, PA; et al.	1530 hrs AIAA-2016-3021 <b>Flow topology and noise emission around straight, serrated and slitted trailing edges using the Lattice Boltzmann methodology</b> W. van der Velden, A. van Zuijlen, D. Ragni, Delft University of Technology, Delft, The Netherlands	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3022 <b>An Integrated Study of Laminar Separation Bubble Effect on Tonal Noise Generation in Transitional Airfoils</b> G. Yakhina, M. Roger, École Centrale de Lyon, Ecully, France; P. Kholodov, Safran Group, Moscow, Russia; L. Nguyen, V. Golubev, Embry-Riddle Aeronautical University, Daytona Beach, FL	1700 hrs AIAA-2016-3023 <b>Trailing-edge noise diagnostics with low-repetition-rate PIV</b> S. Pröbsting, J. Schneiders, F. Avallone, D. Ragni, F. Scarano, Delft University of Technology, Delft, The Netherlands		

Wednesday, 1 June 2016								
57-AA-53	CAA IX							Rhône 3B
Chaired by: C. BOGEY, Ecole Centrale de Lyon								
1400 hrs AIAA-2016-3024 <b>Simulation of aerodynamically generated noise using the wave expansion method</b> J. Hammar, C. O'Reilly, G. Efraimsson, Royal Institute of Technology (KTH), Stockholm, Sweden	1430 hrs AIAA-2016-3025 <b>Computational Aeroacoustics for Rotating Systems</b> M. Kaltenbacher, A. Hüppe, Vienna University of Technology, Vienna, Austria; A. Reppenhausen, VIRTUAL VEHICLE Research and Test Center (VIF), Graz, Austria; F. Zenger, S. Becker, University of Erlangen-Nürnberg, Erlangen, Germany	1500 hrs AIAA-2016-3026 <b>Using Large Eddy Simulations to Predict Fluctuating Wall Pressure Caused by Turbulent Flow over Rough Surfaces</b> H. Shan, .. Slomski, Naval Surface Warfare Center, West Bethesda, MD	1530 hrs AIAA-2016-3027 <b>The Role of Large-scale Structures on Crackle Noise</b> D. Buchta, J. Freund, University of Illinois, Urbana-Champaign, Urbana, IL	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3028 <b>The Effect of Steady Flow Distortion on Noise Propagation in Turbofan Intakes</b> A. Prinn, R. Sugimoto, R. Astley, University of Southampton, Southampton, United Kingdom	1700 hrs AIAA-2016-3029 <b>Time harmonic radiation of a source in a vortical flow</b> A. Bensalah, P. Joly, J. Mercier, ENSTA Paris Tech, Palaiseau, France	1730 hrs AIAA-2016-3030 <b>A Summary of High-Fidelity Numerical Studies of Flow Acoustic Resonant Interactions in Transitional Airfoils</b> L. Nguyen, V. Golubev, R. Mankbadi, Embry-Riddle Aeronautical University, Daytona Beach, FL; G. Yakhina, M. Roger, École Centrale de Lyon, Ecully, France; M. Visbal, Air Force Research Laboratory, Wright-Patterson AFB, OH	1800 hrs AIAA-2016-3031 <b>Overset LES with an Acoustic Relaxation Term for Sound Source Simulations</b> P. Bernicke, R. Akkermans, Technical University of Braunschweig, Braunschweig, Germany; R. Ewert, J. Dierke, German Aerospace Center (DLR), Braunschweig, Germany

Wednesday, 1 June 2016								
58-AA-54	Duct Acoustics VI							Rhône 2
Chaired by: E. PIOT, ONERA								
1400 hrs AIAA-2016-3032 <b>Mutual Incoherence of Broadband Duct Acoustic Modes</b> R. Dougherty, OptiNav, Inc., Bellevue, WA	1430 hrs AIAA-2016-3033 <b>Experimental extraction of turbofan noise sources modal content using a transducer distribution designed with CAA</b> D. Mincu, E. Manoha, J. Bulte, C. Polacsek, ONERA, Châtillon, France; V. Fleury, F. Rey, Dassault Group, Saint Cloud, France	1500 hrs AIAA-2016-3034 <b>In-duct Rotating Beamforming and Mode Detection of Fan Noise Sources</b> L. Caldas, P. Greco, University of São Paulo, São Carlos, Brazil; G. Herold, Brandenburg University of Technology, Berlin, Germany; L. Baccalá, University of São Paulo, São Carlos, Brazil	1530 hrs AIAA-2016-3035 <b>Experimental investigation of sound field decomposition with higher order modes in rectangular ducts</b> C. Weng, C. Otto, German Aerospace Center (DLR), Berlin, Germany; L. Peerlings, Royal Institute of Technology (KTH), Stockholm, Sweden; L. Enghardt, F. Bake, German Aerospace Center (DLR), Berlin, Germany	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3036 <b>Sound Damping by Injector Tubes and Surrounding Ducting used in Liquid Rocket Combustors</b> K. Ahuja, S. Lympany, Georgia Institute of Technology, Atlanta, GA	1700 hrs AIAA-2016-3037 <b>Radial Mode Analysis of Ducted Sound Fields with Sensor Rakes and Wall Flush Sensor Arrays under Consideration of a Radial Flow Profile</b> M. Spitalny, U. Tapken, German Aerospace Center (DLR), Berlin, Germany	1730 hrs AIAA-2016-3038 <b>Efficient Azimuthal Mode Analysis using Compressed Sensing</b> M. Behn, R. Kisler, U. Tapken, German Aerospace Center (DLR), Berlin, Germany	

<b>Wednesday, 1 June 2016</b>								
<b>59-AA-55</b>	<b>Integration Effects and Flight Acoustics</b>							<b>Rhône 3A</b>
Chaired by: C. BURLEY, NASA-Langley Research Center								
1400 hrs AIAA-2016-3039 <b>Potential for Landing Gear Noise Reduction on Advanced Aircraft Configurations</b> R. Thomas, C. Nickol, C. Burley, NASA Langley Research Center, Hampton, VA; Y. Guo, NEAT Consulting, Seal Beach, CA	1430 hrs AIAA-2016-3040 <b>Progress of Aircraft System Noise Assessment with Uncertainty Quantification for the Environmentally Responsible Aviation Project</b> R. Thomas, C. Burley, NASA Langley Research Center, Hampton, VA; Y. Guo, NEAT Consulting, Seal Beach, CA	1500 hrs AIAA-2016-3041 <b>Quantification of Acoustic Scattering Prediction Uncertainty for Aircraft System Noise Assessment</b> C. Burley, R. Thomas, NASA Langley Research Center, Hampton, VA; Y. Guo, NEAT Consulting, Seal Beach, CA	1530 hrs AIAA-2016-3042 <b>Testing Installed Propulsion For Shielded Exhaust Configurations</b> J. Bridges, G. Podboy, C. Brown, NASA Glenn Research Center, Cleveland, OH	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3043 <b>The effect of pylon on the excess jet-flap interaction noise</b> G. Faranosov, V. Kopiev, N. Ostrikov, V. Kopiev, TsAGI, Moscow, Russia	1700 hrs AIAA-2016-3044 <b>CFD-CAA Validation on a Large-Scale High-Lift Configuration</b> A. Kolb, Airbus, Munich, Germany; R. Ewert, J. Dierke, M. Pott-Pollenske, German Aerospace Center (DLR), Braunschweig, Germany; A. Buescher, Airbus, Bremen, Germany		

<b>Wednesday, 1 June 2016</b>								
<b>60-AA-56</b>	<b>Jet Noise X</b>							<b>Auditorium Pasteur</b>
Chaired by: A. PILON, Lockheed Martin Aeronautics								
1400 hrs AIAA-2016-3045 <b>Analysis of Turbulent Jet Flow and Associated Noise with Round and Chevron Nozzles using Large Eddy Simulation</b> N. Dhamankar, G. Blaisdell, Purdue University, West Lafayette, IN; A. Lyrintzis, Embry-Riddle Aeronautical University, Daytona Beach, FL	1430 hrs AIAA-2016-3046 <b>Large Eddy Simulation of Jet Noise from Unstructured Grids with Turbulent Nozzle Boundary Layer</b> F. Vuillot, N. Lupoglazoff, M. Lorteau, F. Clero, ONERA, Châtillon, France	1500 hrs AIAA-2016-3047 <b>Far-field Noise Prediction of Round and Serrated Jets with Increasingly Refined Grids</b> M. Angelino, H. Xia, M. Moratilla-Vega, G. Page, Loughborough University, Loughborough, United Kingdom	1530 hrs AIAA-2016-3048 <b>Numerical study on the relation between hydrodynamic fluctuations and noise in hot jets at high Reynolds number</b> R. Biolchini, Safran Group, Moissy-Cramayel, France; C. Bailly, École Centrale de Lyon, Lyon, France; J. Bousuge, CERFACS, Toulouse, France; R. Fernando, Safran Group, Moissy-Cramayel, France	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3050 <b>Large eddy simulation for jet noise: azimuthal decomposition and intermittency of the radiated sound</b> G. Brès, Cascade Technologies, Inc., Palo Alto, CA; V. Jaunet, M. Le Rallic, P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; A. Towne, O. Schmidt, California Institute of Technology, Pasadena, CA; et al.	1700 hrs AIAA-2016-3051 <b>Large Eddy Simulation of the Flight Effects on Single Stream Heated Jets</b> Z. Wang, I. Naqavi, P. Tucker, University of Cambridge, Cambridge, United Kingdom		

<b>Wednesday, 1 June 2016</b>								
<b>61-AA-57</b>	<b>Jet Noise XI: Stability, Coherent Structures</b>							<b>Rhône 1</b>
Chaired by: A. AGARWAL, University of Cambridge								
1400 hrs AIAA-2016-3052 <b>PSE-based sensitivity analysis of turbulent and supersonic single stream jet</b> T. Ansalidi, C. Airaud, Fluid Mechanics Institute of Toulouse (IMFT), Toulouse, France; C. Pérez Arroyo, G. Puigt, CERFACS, Toulouse, France	1430 hrs AIAA-2016-3053 <b>Linear Stability Implications of Chevron Geometry Modifications for Turbulent Jets</b> A. Sinha, A. Rajagopalan, Indian Institute of Technology Bombay, Mumbai, India; S. Singla, PEC University of Technology, Chandigarh, India	1500 hrs AIAA-2016-3054 <b>Effect of Heating and Compressibility on the Instability of Supersonic Jets</b> A. Samanta, Indian Institute of Science, Bangalore, India	1530 hrs AIAA-2016-3055 <b>Control of Supersonic Jet Noise Using Linear Feedback</b> M. Natarajan, J. Freund, D. Bodony, University of Illinois, Urbana-Champaign, Urbana, IL	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3056 <b>High-frequency wavepackets in turbulent jets</b> A. Cavalieri, K. Sasaki, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; O. Schmidt, T. Colonius, California Institute of Technology, Pasadena, CA; G. Brès, Cascade Technologies, Inc., Palo Alto, CA	1700 hrs AIAA-2016-3057 <b>Parabolized Stability Analysis of Dual-Stream Jets</b> A. Sinha, Indian Institute of Technology Bombay, Mumbai, India; D. Gaitonde, Ohio State University, Columbus, OH; N. Sohoni, Indian Institute of Technology Bombay, Mumbai, India	1730 hrs AIAA-2016-3058 <b>Two-point coherence of wavepackets in turbulent jets</b> V. Jaunet, École Nationale Supérieure de Mécanique et d'Aérotechnique, Poitiers, France; P. Jordan, National Center for Scientific Research (CNRS), Poitiers, France; A. Cavalieri, Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil	1800 hrs AIAA-2016-3059 <b>Validating the Ffowcs Williams and Hawkings acoustic analogy implementation in Antares</b> D. Di Stefano, A. Rona, E. Hall, C. Morfey, University of Leicester, Leicester, United Kingdom; G. Puigt, CERFACS, Toulouse, France

<b>Wednesday, 1 June 2016</b>							
<b>62-AA-58</b>	<b>Turbomachinery Noise VI: Tones</b>						<b>Saint Clair 2</b>
Chaired by: N. PEAKE, University of Cambridge							
1400 hrs AIAA-2016-3060 <b>Tones from an Aero-Engine Fan: Comparison between Harmonic-Balance Simulation and Experiment</b> A. Holewa, S. Guerin, L. Neuhaus, German Aerospace Center (DLR), Berlin, Germany; L. Danwang, T. Huijin, Aviation Industry Corporation of China (AVIC), Shanghai, China	1430 hrs AIAA-2016-3061 <b>Rotor-Stator Wake-Interaction Tonal Noise Modeling with an Edge-Dipole Approach</b> S. Bouley, École Centrale de Lyon, Ecully, France; A. Finez, Vibratéc, Ecully, France; M. Roger, École Centrale de Lyon, Ecully, France	1500 hrs AIAA-2016-3062 <b>Tonal and Broadband Noise Control of an Axial Flow Fan with Metal Foams: Design and Experimental Validation</b> C. Xu, Y. Mao, Xi'an Jiaotong University, Xi'an, China; Z. Hu, University of Southampton, Southampton, United Kingdom	1530 hrs AIAA-2016-3063 <b>Modal identification of a small-scale ducted fan</b> A. Pereira, École Centrale de Lyon, Ecully, France; A. Finez, Vibratéc, Ecully, France; Q. Leclere, National Institute of Applied Sciences (INSA), Villeurbanne, France; E. Salze, P. Souchoffe, École Centrale de Lyon, Ecully, France	1600 hrs <b>Break</b>	1630 hrs AIAA-2016-3064 <b>Acoustic Power Transmission Loss Through A Ducted Fan</b> E. Envia, NASA Glenn Research Center, Cleveland, OH	1700 hrs AIAA-2016-3065 <b>Comparison of the Fraction of the Sound Power Level due to Rotor-TEC-Interaction with the Overall Sound Power Level for Different Turbine Exit Guide Vane Designs</b> A. Marn, T. Selic, F. Schönleitner, S. Bauinger, S. Zerobin, F. Heitmeir, Graz University of Technology, Graz, Austria	1730 hrs AIAA-2016-3066 <b>Investigation of Acoustic Resonance in a Three-Dimensional Cascade Interacting with Oncoming Unsteady Wakes</b> H. Kodama, IHI Corporation, Nishitama, Japan
<b>Wednesday, 1 June 2016</b>							
<b>63-AA-59</b>	<b>Array Methods</b>						<b>Saint Clair 4</b>
1400 - 1830 hrs							

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