



Agenda Day 1 | Monday, July 24, 2023 | Eastern Daylight Time (UTC - 4:00)

| Time | Thrust Area | Title | PI/Organization |
|-------------|-----------------------------|--|---|
| 7:45 | Zoom Login | | |
| 8:00-8:10 | Welcome and Opening Remarks | | Chipping Li, AFOSR / Eric Marineau, ONR / Russ Cummings, HVSI |
| 8:10-8:15 | Propulsion | Introduction to High Speed Propulsion | Program Officers |
| 8:15-8:33 | Propulsion | ONR - High Fidelity Simulations of Combustion in High-Speed Propulsion Engines | R. Johnson, NRL |
| 8:33-8:51 | Propulsion | ONR - Integration of Physics-Based and Data-Driven Turbulent Combustion Models in the JENRE® Multiphysics Framework and Computational Performance Analysis | P. Pal, ANL |
| 8:51-9:09 | Propulsion | ONR- Evaluation, Enhancement, and Application of JENRE on Large-Scale Computing Systems | T. Dunn, LLNL |
| 9:09-9:27 | Propulsion | ONR - Combustion Behavior Within a Solid-Fuel Ramjet at High Altitudes | D. Kessler, NRL |
| 9:27-9:35 | Propulsion | ONR -Improved Flamelet Progress Variable Approach for Compressible High-Speed Flows (new start) | B. Bojko, NRL |
| 9:35-9:43 | Propulsion | ONR - Data-driven, Learning-based, Adaptive Control of Solid Fuel Ramjet (new start) | A. Goel, UMBC |
| 9:43-10:03 | BREAK | | |
| 10:03-10:21 | Propulsion | ONR - Experimental and Numerical Investigation on the Combustion Characteristics of Solid Fuels in Supersonic Combustors | G. Young, Virginia Tech |
| 10:21-10:38 | Propulsion | ONR - Combustion in Solid Fuel Ramjets (new start) / Transport Physics in Reacting Turbulent Boundary Layers (wrap up) | C. Slabaugh, Purdue U |
| 10:38-10:46 | Propulsion | ONR - Temperature and Compositional Measurements in Model Solid Fuel Ramjet Inlet and Exhaust Flows (new start) | R. Hanson, Stanford U. |
| 10:46-11:04 | Propulsion | ONR - High Fidelity Modeling of Hypersonic Air-Breathing Propulsion | T. Taylor, APL |
| 11:04-11:22 | Propulsion | ONR - Optimized Simulations of High-Speed Turbulent Combustion | G. Candler, U of MN |
| 11:22-11:30 | Propulsion | ONR - Intrinsic Instability of Compressible Reacting Flows and Its Role in Scramjet Unstart and Transition (new start) | A. Poludnenko, UConn |
| 11:30-11:48 | Propulsion | ONR - Active Mitigation of Unstart in Scramjets | R. Acharya, UTISI |

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| 11:48-13:03 | LUNCH | | |
| 13:03-13:21 | Propulsion | ONR - Mach 4 Inlet Unstart Investigation and Mitigation with Self Energizing Vortex Generating Jets | G. Hobson, NPS |
| 13:21-13:39 | Propulsion | ONR - Data-Driven Input-Output Models for Reacting, High-Enthalpy Flows | B. McKeon, Stanford U |
| 13:39-13:44 | NEE | Introduction in Non-Equilibrium Effects (NEE) | Program Officers |
| 13:44-14:09 | NEE | AFOSR - Spectroscopic Measurements for Recombination Modeling in High-Enthalpy Expanding / Spectroscopic Measurements and Nonequilibrium Modeling for High-Enthalpy Air (new start) | J. Austin, Caltech |
| 14:09-14:24 | BREAK | | |
| 14:24-14:42 | NEE | AFOSR - Modeling of Recombination in Hypersonic Flows: A Combined Theoretical and Experimental Approach (virtual) | M. Panesi, UIUC |
| 14:42-15:00 | NEE | AFOSR - High-fidelity modeling of non-equilibrium gas-phase recombination for hypersonic air flows (YIP) | R. MacDonald, U of CO |
| 15:00-15:18 | NEE | AFOSR - Formulation of a General Collisional-Radiative Model for NO to Study Non-Equilibrium, Hypersonic Flows | D. Levin, UIUC |
| 15:18-15:36 | NEE | ONR - Deep Learning Closure of Non-Equilibrium Fluid Mechanics | J. MacArt, Notre Dame |
| 15:36-15:51 | BREAK | | |
| 15:51-16:09 | NEE | AFOSR - Wall Temperature and Bluntness Effects in High Enthalpy Hypersonic Separated Flows | S. Gai, UNSW, Australia |
| 16:09-16:17 | NEE | AFOSR - Ultra-fast DSMC based on explainable AI for all flow regimes including rarefied hypersonics (new start) (virtual) | R. S. Myong, Gyeongsang National U, Korea |
| 16:17-16:35 | NEE | ONR - Experimental Study of Non-Equilibrium Turbulence-Chemistry Interaction in External Hypersonic Flows | A. Veeraragavan, U of Queensland, Australia |
| | MEETING ADJOURN | | |
| 17:00-19:00 | WELCOME RECEPTION (IRIBE BUILDING LOBBY) | | |

| Agenda Day 2 Tuesday, July 25, 2023 Eastern Daylight Time (UTC - 4:00) | | | |
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| Time | Thrust Area | Title | PI/Organization |
| 7:45 | Zoom Login | | |
| 8:00-8:18 | NEE | AFOSR - Molecular processes at the extreme temperatures relevant for the hypersonic flight regime | O. Denis Alpizar, Universidad Autonoma de Chile, Chile |

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| 8:18-8:36 | NEE | AFOSR - Machine Learning for Chemical Reaction Dynamics in High Energy, Rarefied Gas Flow | J.C. San Vicente Veliz, Univ. of Basel, Switzerland |
| 8:36-8:54 | | AFOSR - Evaluation of Aerothermochemistry Models Through Sensitivity Analysis and Low-Uncertainty Experiments | I. Boyd, U of CO |
| 8:54-9:12 | NEE | AFOSR - Quantification and Mitigation of Thermochemical Non-Equilibrium in High-Enthalpy Hypersonic Wind Tunnels | D. Baccarella, U of TN |
| 9:12-9:30 | NEE | AFOSR - Energy Exchanges and Transport Phenomena in Aerothermodynamics of High-Speed Platforms | P. Valentini, AFRL |
| 9:30-9:38 | NEE | AFOSR - Fundamental Studies of Vibrationally Resolved Air Kinetics in the Vicinity of a Partially Catalytic Surface (new start) | D. Andrienko, U of CO |
| 9:38-9:56 | NEE | AFOSR - Topology-Aware Learning and Modeling of High-Rate Dynamic Systems (virtual) | C. Hu, UConn |
| 9:58-10:16 | BREAK | | |
| 10:16-10:21 | GSI | Introduction to Gas-Surface Interaction (GSI) | Program Officers |
| 10:21-10:39 | GSI | AFOSR - Surface catalytic recombination on carbon-based TPS materials | K. Stephani, UIUC |
| 10:39-10:57 | GSI | AFOSR - Experimental/Computational Study of Gas-phase and Gas-surface Interactions for High Speed Rarefied Flow (new start) | T. Schwartzenruber, UMin |
| 10:57-11:15 | GSI | ONR - Computational and Experimental Study of the Temporal Response of UHTC Materials for Thermal Protection of Hypersonic Vehicles | I. Boyd, U of Colorado |
| 11:15-11:33 | GSI | ONR - Forward Thomson Scattering for the Measurement of Weakly Ionized Plasmas in Hypersonic Flows / Characterization of High Enthalpy Flows and Ablation Products Surrounding Hypersonic Platforms (new start) | R. Miles, TAMU |
| 11:33-12:48 | LUNCH | | |
| 12:48-12:53 | FSI | Introduction to Fluid Structure Interactions (FSI) | Program Officers |
| 12:53-13:11 | FSI | ONR - Fluid-thermal-structure Interaction of a Finned Model at Mach 6 | D. Bodony, UIUC |
| 13:11-13:29 | FSI | ONR - Electromagnetic Launch For Hypersonic Research and Development | M. Libeau, NSWCD |
| 13:29-13:47 | FSI | ONR - Peridynamic Modeling Development for High Velocity Weather Encounter Damage | I. Guven, VA Commonwealth U |
| 13:47-14:05 | FSI | ONR - A Numerical Investigation of Particle and Droplet Impingement for Hypersonic Flow Conditions Including Material Response Modeling | C. Brehm, U of MD |
| 14:05-14:20 | BREAK | | |
| 14:20-14:38 | FSI | AFOSR - The Role of Cavitation in Droplet Breakup: Understanding and Predicting Hypersonic Structural Loading through Multiscale Simulations and Shock-tube Experimentation | S. Grace, Boston U |

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| 14:38-14:56 | FSI | ONR - Resolving Shock-Driven Droplet Breakup and Evaporation at Hypersonic Conditions | D. Jarrahbashi, TAMU |
| 14:56-15:04 | FSI | ONR - Investigating the Formation of Ice Crystal Aggregates and their Impacts on Hypersonic Vehicles (new start) | H. Chelmo, U of North Dakota |
| 15:04-15:22 | FSI | ONR - Fragmentation and Melting of Ice Particles Subjected to Hypersonic Aerothermodynamic Environments | S. Poovathingal, U of Kentucky |
| 15:22-15:30 | FSI | ONR - Water Entry of Hypervelocity Projectiles (YIP) (new start) | B. Schmidt, Case Western U |
| 15:30-15:38 | FSI | ONR - Modeling Support for Water Entry of Hypervelocity Projectiles (new start) | E. Walzer, NSWC_CD |
| 15:38-15:53 | BREAK | | |
| 15:53-16:01 | FSI | AFOSR - Real-Time, High-Fidelity Analysis of Thermal Fluids and Effects on Materials for High-Speed Aircraft Using Data-/AI-Driven Methods (new start) | S. Choi, Gwangju Inst. of Technology, Korea |
| 16:01-16:19 | FSI | AFOSR - Hypersonic Vehicle Shape Distortion Sensing with Optical Fibre Bragg Gratings | G. Wild, UNSW, Australia |
| 16:19-16:44 | FSI | AFOSR - Unit Cases to Investigate Hypersonic Fluid-Structure Interaction / Hypersonic FTSI Unit Case for a Thermally-Buckled Structural Panel (new start) | A. Neely, UNSW, Australia |
| 16:44-17:02 | FSI | AFOSR - Transonic Flutter of Hypersonic Skin-Panels | C. Gaetano, National Cheng Kung U, Taiwan |
| | MEETING ADJOURN | | |

| Agenda Day 3 Wednesday, July 26, 2023 Eastern Daylight Time (UTC - 4:00) | | | |
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| Time | Thrust Area | Title | PI/Organization |
| 7:45 | Zoom Login | | |
| 8:00-8:18 | FSI | AFOSR - Experiments on Hypersonic Fluid-Structure Interaction in the Wind Tunnel H2K (virtual) | D. Daub, DLR |
| 8:18-8:36 | FSI | AFOSR - Fluid Structural Thermal Interactions (FSTI) in Hypersonic Flow | V. Narayanaswamy, NCS |
| 8:36-8:54 | FSI | AFOSR - Decoding fluid-structural coupling during shock-boundary layer interactions acting on compliant surfaces | J. McNamara, OSU |
| 8:54-9:12 | FSI | AFOSR - Measurement and Modeling of an Oblique Shock Grazing a Compliant Panel | D. Bodony, UIUC |
| 9:12-9:17 | TF | Introduction to Turbulent Flows (TF) | Program Officers |
| 9:17-9:35 | TF | HVSI - Double Cone Experiment in the X3 Expansion Tube | M. McGilvray, Oxford U |

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| 9:35-9:43 | TF | AFOSR - Theoretical developments in hypersonic turbulent boundary layers with application to friction and heat transfer estimation (new start) | J. Larsson, U of MD |
| 9:43-10:03 | BREAK | | |
| 10:03-10:11 | TF | AFOSR - Theoretical developments in hypersonic turbulent boundary layers with application to friction and heat transfer estimation (new start) | S. Pirozzoli, Sapienza, Rome |
| 10:11-10:29 | TF | AFOSR - Influence of Mach number, non-adiabatic walls and nonlinear interactions in resolvent analysis of compressible turbulent boundary layers | B. McKeon, Stanford U |
| 10:29-10:47 | TF | HVSI - Evaluation of State-of-the-Art Hypersonic Turbulence Modeling Using M = 6 Benchmark Experiments | M. Semper, USAFA J. Seidel, USAFA |
| 10:47-11:04 | TF | ONR / HVSI - Hypersonic Turbulent Heat Transfer Prediction and Validation (wrap up) / High-Speed High-Reynolds-Number Boundary Layer Measurements and Modeling (new start) | R. Bowersox, TAMU |
| 11:04-11:21 | TF | ONR - Scaling and Structure in Transitional and Turbulent Hypervelocity Flows (YIP) (wrap up) / Turbulence Quantities in Supersonic and Hypersonic Flows (new start) | N. Parziale, Stevens |
| 11:21-11:38 | TF | ONR - Simulation and Modeling of Hypersonic Turbulent Boundary Layers Subject to Pressure Gradient and Wall Cooling (wrap up) / Simulation and Modeling of Hypersonic Turbulent Boundary Layers with Varied Reynolds Numbers and Pressure Gradients (new start) | L. Duan, OSU |
| 11:38-12:53 | LUNCH | | |
| 12:53-13:10 | TF | ONR- A Quasi-Spectral Viscosity (QSV) Dynamic Large-Eddy Simulation Technique for Hypersonic Turbulence (YIP) (wrap up) / Subfilter-scale (SFS) analysis of hypersonic turbulence: a path towards a consistent wall-modeled LES strategy (new start) | C. Scalo, Purdue U |
| 13:10-13:18 | TF | ONR - Development of Improved WMLES Capabilities for Hypersonic Flows for Body-Fitted and IBM-based CFD Solvers (new start) | C. Brehm, U of MD |
| 13:18-13:26 | TF | ONR - Aerothermal Turbulent Predictions of Relevant, High Reynolds Number Hypersonic Flows using Large Eddy Simulation (new start) | R. Powers, NAWC_AD |
| 13:26-13:44 | TF | ONR - Development of Hybrid Simulation Models for Heat Transport in Hypersonic Turbulent Flow | P. Durbin, Iowa State U |
| 13:44-14:02 | TF | ONR - Aero-Optical Studies of Mixing Flows at Supersonic and Hypersonic Speeds | S. Gordeyev, Notre Dame |
| 14:02-14:22 | BREAK | | |
| 14:22-14:40 | TF | AFOSR - Hypersonic Base Flow Characterization | R. Gosse, U of FL |
| 14:40-14:58 | TF | AFOSR - Hypersonic Boundary Layer Turbulence (BOLT-II) Flight Test Experiment | R. Bowersox, TAMU |
| 14:58-15:16 | TF | AFOSR - High-Altitude Turbulence and Particulate Measurements Near the BOLT-II Flight Trajectory | B. Argrow, U of Colorado |

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| 15:16-15:36 | BREAK | | |
| 15:36-15:54 | TF | AFOSR - DNS and Constrained Nonlinear Analysis of the BOLT-II Flight Experiment | G. Candler, U of MN |
| 15:54-16:12 | TF | AFOSR - Research in Support of Flight Experiment BoLT 2: Simulations and Characterization of the Turbulent Flow Regime | P. Martin, U of MD |
| 16:12-16:30 | TF | AFOSR - Advanced Ground Testing and Simulation of the Boundary Layer Transition (BOLT) Flight Experiment | A. Veeraragavan, U of Queensland, Australia |
| 16:30-16:38 | TF | AFOSR - Assessment of the Applicability of Quantum Computation for Solving the Problem of Numerical Hypersonic Flow (new start) | D. Ahn, U of Seoul |
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| Agenda Day 4 Thursday, July 27, 2023 Eastern Daylight Time (UTC - 4:00) | | | |
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| Time | Thrust Area | Title | PI/Organization |
| 7:45 | Zoom Login | | |
| 8:00-8:05 | Transition | Introduction to Hypersonic Boundary Layer Transition | Program Officers |
| 8:05-8:23 | Transition | AFOSR - Growth and Control of Nonlinear Gortler Vortices in Hypersonic Boundary Layers Over Concave Surfaces | P. Ricco, Sheffield U, England |
| 8:23-8:41 | Transition | AFOSR - Boundary Layer Transition (BOLT) Post-Flight Research and BOLT II Flight Test Support | B. Wheaton, JHU/APL |
| 8:41-8:59 | Transition | AFOSR - Laminar-Turbulent Transition Prediction on Three-Dimensional Wings, including Airfoil Shape Optimization | V. Theofilis, Universidade de Sao Paulo, Brazil |
| 8:59-9:17 | Transition | ONR - Receptivity to Breakdown Mechanisms During Transition on Hypersonic Forebodies | D. Gaitonde, OSU |
| 9:17-9:34 | Transition | ONR - Transition Prediction and Control for Blunt Hypersonic Configurations with Hemispherical and Ogival Nosedtips (wrap up) / Receptivity and Transition over Blunt Configurations under Noisy and Quiet Hypersonic Conditions (new start) | P. Paredes Gonzalez, Nat. Inst. Of Aerospace |
| 9:34-9:52 | Transition | AFOSR - Novel Concepts for Transition Delay in Hypersonic Boundary Layers and their Optimization | P. Paredes Gonzalez, Nat. Inst. Of Aerospace |
| 9:52-10:12 | BREAK | | |
| 10:12-10:29 | Transition | ONR - Input/Output Analysis of Complex Hypersonic Boundary Layers (wrap up) / Instability and Receptivity of Complex Hypersonic Flows using Input/Output Analysis (new start) | J. Nichols, U of MN |
| 10:29-10:54 | Transition | AFOSR - Stagnation Point Injection in Hypersonic Flow / Effect of Particulates and Free Stream | B. Schmidt, Case Western U |

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| | | Disturbances on Hypervelocity Boundary Layer Transition (new start) | |
| 10:54-11:12 | Transition | ONR - Detailed Investigation of Hypersonic Instability, Breakdown, and Natural Transition under Quiet Flow with Simulated Ablation-Gas Injection | J. Jewell, Purdue U |
| 11:12-11:30 | Transition | AFOSR - A Numerical Investigation of Transpiration Cooling for Transitional and Turbulent Flows over Slender Bodies | C. Brehm, U of MD |
| 11:30-11:48 | Transition | AFOSR - Boundary Layer Transition 1B (BOLT1B) Flight Experiment | B. Wheaton, JHU/APL |
| 11:48-13:03 | LUNCH | | |
| 13:03-13:13 | Transition | ONR - High Reynolds Number Quiet MACH 6 Swept-Fin Cone Experiments: Flow Instabilities and Transition Control (wrap up) | J. Middlebrooks, Notre Dame |
| 13:13-13:23 | Transition | ONR - Hypersonic Finned Cones (wrap up) | H. Reed, TAMU |
| 13:23-13:41 | Transition | ONR - Assessment of Hypersonic Transition and Turbulent Heating Prediction Methods for Complex Geometries (HTT Project) | D. Araya, APL N. Bitter, APL |
| 13:41-13:59 | Transition | ONR - One-way Navier-Stokes for transition prediction in high-speed boundary layers | T. Colonius, CalTech |
| 13:59-14:09 | Transition | ONR - Predicting hypersonic laminar-turbulent transition with direct numerical simulation (wrap up) | J. Poggie, Purdue U |
| 14:09-14:27 | Transition | AFOSR - Experimental study of the effect of nose bluntness on hypersonic boundary-layer transition | A. Craig, U of AZ |
| 14:27-14:42 | BREAK | | |
| 14:42-15:00 | Transition | ONR - Numerical Investigations of the Nonlinear Transition Stages in Boundary Layers for High Mach Numbers | H. Fasel, U of AZ |
| 15:00-15:18 | Transition | AFOSR - Numerical Investigation of Non-linear Transition Stages in Hypersonic Boundary Layers for Wind-Tunnel and Free-Flight Conditions | H. Fasel, U of AZ |
| 15:18-15:36 | Transition | HVSI - Development and Testing of RANS Transition Models for Hypersonic Boundary Layers | H. Fasel, U of AZ |
| 15:36-15:54 | Transition | HVSI - Hypersonic Transition Modeling Using an Amplification Factor Transport Equation | J. Coder, U of Tennessee |
| 15:54-16:12 | Transition | ONR - Wave Packets in High-Speed Boundary Layers | E. Kerschen, U of AZ |
| 16:12-16:30 | Transition | AFOSR - Competing instability mechanisms in hypersonic boundary layers | J. Kuehl, U of Delaware |
| 16:30-16:45 | BREAK | | |
| 16:45-17:03 | Transition | AFOSR - Effects of Thermal Gradients on Boundary Layer Transition Mechanisms | J. Kuehl, U of Delaware |
| 17:03-17:21 | Transition | AFOSR - Hypersonic boundary-layer transition on control surfaces with separation bubbles | S. Schneider, Purdue U |
| 17:21-17:39 | Transition | AFOSR - An Alternative Approach Towards Investigating Stability and Transition (Fokker-Plank) | S. Gai, UNSW, Australia |
| 17:39-17:57 | Transition | HVSI - Measuring the influence of wall-temperature ratio distribution on transition using optical | S. O'Bryne, UNSW, Australia |

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| Agenda Day 5 Friday, July 28, 2023 Eastern Daylight Time (UTC - 4:00) | | | |
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| Time | Thrust Area | Title | PI/Organization |
| 7:45 | Zoom Login | | |
| 8:00-8:05 | SBLI | Introduction to Shock-Boundary Layer Interactions (SBLI) | Program Officers |
| 8:05-8:23 | SBLI | AFOSR - Nonlinear Flow Receptivity in Shock-Wave Boundary-Layer Interaction | G. Rigas, Imperial College, England |
| 8:23-8:31 | SBLI | AFOSR - Shock-Boundary Layer Interactions in Supersonic Turbine Cascades (new start) | W. Wolf, Universidade Estadual de Campinas, Brazil |
| 8:31-8:48 | SBLI | ONR - A Comprehensive Investigation of Transitional Shock Boundary Layer Interaction Using Experiments, Simulations and Stability Theory (wrap up) / Investigation of Transitional SBLI at Mach 5 using Controlled Forcing: Experiments, Simulations and Theory (new start) | J. Little, U of Arizona |
| 8:48-8:58 | SBLI | ONR - Experimental Investigation of Unsteadiness in Swept Hypersonic Shock-Wave / Boundary-Layer Interactions (wrap up) | S. Laurence, U of MD |
| 8:58-9:08 | SBLI | ONR - Characterization of the Structure and Dynamics of Transitional Shock/Boundary Layer Interactions (wrap up) | J. Schmisser, U of TN |
| 9:08-9:33 | SBLI | ONR - Multi-scale Modeling of Unsteady Shock-Boundary Layer Hypersonic Flow Instabilities / Kinetic Treatment of Sources and Mechanisms that Drive Unsteady, Shock-dominated Flow Instability (new start) | D. Levin, UIUC |
| 9:33-9:51 | SBLI | AFOSR - Study of Shock-Wave/Boundary-Layer Interaction on the STORT Configuration | S. Willems, DLR |
| 9:51-10:11 | BREAK | | |
| 10:11-10:29 | SBLI | AFOSR - Investigation of 3D Shockwave Boundary Layer Interaction and Related Phenomena for the STORT Flight Program | J. Little, U of Arizona |
| 10:29-10:47 | SBLI | AFOSR - Turbulent Separation and Unsteadiness in Compound Shock/Boundary Layer Interactions | F. Alvi, FSU |
| 10:47-11:05 | SBLI | ONR - The Origin and Scaling of Low-Frequency Unsteadiness in Shock-Separated Boundary layers using DNS, LES and Input/Output Analyses | P. Martin, U of MD J. Nichols, UMin |
| 11:05-11:23 | SBLI | AFOSR - Hypersonic Boundary-Layer Response to Localized Shock-Induced Vorticity (virtual) | M. Borg, AFRL/RQ |
| 11:23-11:41 | SBLI | AFOSR - Investigation of the effects of ablation-induced distributed roughness on shock- | C. Combs, UTSA |

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| | | wave/boundary-layer (YIP) | |
| 11:41-11:59 | SBLI | ONR - Improved Simulation of Internal and External Hypersonic Flows using High-Order Implicit Shock Tracking (YIP) | M. Zahr, Notre Dame |
| 11:59-12:17 | SBLI | ONR - High-Order Implicit Shock Fitting for Three-Dimensional Hypersonic Flows | A. Kercher, NRL |
| 12:17-13:32 | LUNCH | | |
| 13:32-13:37 | DFI | Introduction to Diagnostics, Facilities and Instrumentation (DFI) | Program Officers |
| 13:37-13:45 | DFI | ONR - Development of spontaneous Raman spectroscopy for optical diagnostics in detonation engines (new start) | P. Varghese, UT Austin |
| 13:45-14:03 | DFI | ONR - Arc-Jet Freestream Turbulence Characterization and its Influence on Laminar Heating Augmentation in the Stagnation Region | L. Maddalena, UTA |
| 14:03-14:20 | DFI | ONR - Spectrally-Resolved Laser Diagnostics for High-Enthalpy Flow Measurements (new start) /Spectrally-Resolved Laser Diagnostics for High-Enthalpy Flow Sensing (wrap up) | R. Hanson, Stanford U. |
| 14:20-14:38 | DFI | ONR - Development and Assessment of Detonation-Drivers for Hypervelocity Expansion Tube Ground Testing | J. Shepherd, Caltech |
| 14:38-14:56 | DFI | AFOSR - Canonical Validation Experiments for Fundamental Hypersonic Aerodynamics | C. Limbach, U of MI |
| 14:56-15:26 | BREAK | | |
| 15:26-15:34 | DFI | AFOSR - Development of Advanced Off-Surface Flow and Thermodynamic Measurements in Hypersonic Environments (new start) | J. Sutton, OSU |
| 15:34-15:52 | DFI | AFOSR - New Mexico Basic Research Center of Excellence for Hypersonic Sensor Development and Testing | L. Cifuentes, NMSU |
| 15:52-16:00 | DFI | AFOSR - Technology Development for High-Temperature Sensors (new start) | M. Sheplak, U of Florida |
| 16:00-16:18 | DFI | AFOSR - "Async-ELF": 10k USD, 1kg, 100kHz-Equivalent 3D Optical Diagnostics for Hypersonic Testing | T. Puayen, National Yang Ming Chiao Tung U, Taiwan |
| 16:18-16:36 | DFI | AFOSR - Non-Intrusive, Reliable, and Portable Laser Induced Breakdown Spectroscopy for Instantaneous Gas Composition and Density Measurements in High-Speed Flows | H. Do, Seoul National U, Korea |
| | MEETING ADJOURN | | |