

Best Technical Presentation

35th AIAA Dayton Cincinnati Aerospace Science Symposium 2010

Flow Control

Jesse Little, OSU, "Control of Flow Separation from an Airfoil Leading Edge using Nanosecond Pulse driven DBD Plasma Actuators"

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Experimental Fluid Dynamics

Sean Bailey, University of Kentucky, "A Nano-scale thermal anemometry probe for the measurement of small scale turbulence"

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Turbomachinery

Ryan Milligan, Taitech, inc., "Dual Mode Scramjet Combustor: Analysis of Two Configurations"

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Experimental Methods

Jonathan Boston, AFIT, "Experimental Validation of the Geometrically-Exact Beam Theory (GEBT)"

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Combustion and Fuels

Jacob Schmidt, Spectral Energies, LLC., "Millisecond Pulsed Current-Voltage Induced Perturbations of a Premixed Propane/Air Flame"

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Vehicle Control

Mark Arlinghaus, GRID Systems Inc., "Hybrid PID/LQR Control for an RC Helicopter"

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Aeroelasticity

Matthew Riley, WSU, "Modeling Uncertainty in Aeroelastic Design"

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Micro Air Vehicles

Jaderic Dawson, WSU, "Designing a Micro Air Vehicle with Figure-8-Pattern Wing Flapping"

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CFD Applications

Daniel Garmann, AFRL, "High Fidelity Simulations of Transitional Flow Over Pitching Airfoils"

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Computational Methods

Nathan Mullenix, Ohio Aerospace Institute, "A Tightly-Coupled Model for Graphite Ablation and Numerical Methods for its Solution"

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Materials

Burak Basaran, University of Kentucky, "Thermo-mechanical Characterization of High Temperature Shape Memory Alloys as A Promising Emerging Aerospace Technology"

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Thermal Management & Power

Joy Davis, WSU, "Free-Edge Effects on Melt Pool Geometry and Solidification Microstructure in Beam Based Solid Freeform Fabrication"

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Fluid Dynamics

Liran Oren, University of Cincinnati, "Turbulence and Flow Characteristics of Axisymmetric and Non-Circular Synthetic Jets"

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Space Applications

Trey Gilliam, University of Kentucky, "Numerical Modeling of Multi-Bilinear Spring Support Structures"

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Structures

Wenbin Yu, Utah State University, "Efficient High-Fidelity Modeling of Dimensionally Reducible Structures"

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Vehicle Design

Alyson Turri, AFRL, "Review of High Alpha Configuration Development Efforts"

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Facilities

John Pyles, Engineering & Scientific Innovations, Inc., “Evaluation of Solid Propellant Gas Generators for Fire Suppression in Engine Nacelles”

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Human Factors

Jerry Czarnecki, UD, “Novel Carbon-engineered Tissue Scaffolds for Medical Applications”