

Stanford



John Eaton

Charles Lee Powell Foundation Professor in the School of Engineering, Emeritus
Mechanical Engineering

CONTACT INFORMATION

- **Alternate Contact**

Susan Dorman - Administrative Assistant

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Bio

BIO

Eaton uses experiments and computational simulations to study the flow and heat transfer in complex turbulent flows, especially those relevant to turbomachinery, particle-laden flows, and separated flows, and to develop new techniques for precise control of gas and surface temperature during manufacturing processes.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Mechanical Engineering
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Perin Award for Undergraduate Teaching, Stanford University (2013)
- Fellow, American Society of Mechanical Engineers (2013)
- Presidential Young Investigator Award, National Science Foundation (2013)
- Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford University (2013)
- Three-Year Graduate Fellowship, National Science Foundation (2013)
- Silver Medal Award, Royal Society of the Arts (2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- member, Editorial Advisory Board of International Journal of Heat and Fluid Flow (2013 - present)
- member, Tau Beta Pi (2013 - present)
- member, Phi Beta Kappa (2013 - present)
- member, Sigma Xi (2013 - present)

PROFESSIONAL EDUCATION

- PhD, Stanford University, Mechanical Engineering (1980)

Teaching

COURSES

2021-22

- Convective Heat Transfer: ME 352C (Spr)

2020-21

- Introduction to Mechanical Engineering: ME 1 (Aut)

Publications

PUBLICATIONS

- **Comparison of Immersed Boundary Simulations of Heart Valve Hemodynamics Against In Vitro 4D Flow MRI Data.** *Annals of biomedical engineering*
Kaiser, A. D., Schiavone, N. K., Elkins, C. J., McElhinney, D. B., Eaton, J. K., Marsden, A. L.
2023
- **A coupled framework for symbolic turbulence models from deep-learning** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Lav, C., Banko, A. J., Waschkowski, F., Zhao, Y., Elkins, C. J., Eaton, J. K., Sandberg, R. D.
2023; 101
- **Experimental investigation of particle aggregation in a humid and turbulent environment** *INTERNATIONAL JOURNAL OF MULTIPHASE FLOW*
Hoffman, D. W., Eaton, J. K.
2023; 163
- **MRV challenge 2: phase locked turbulent measurements in a roughness array** *EXPERIMENTS IN FLUIDS*
Benson, M. J., Banko, A. J., Elkins, C. J., An, D., Song, S., Bruschiowski, M., Grundmann, S., Bandopadhyay, T., Roca, L., Sutton, B., Han, K., Hwang, W., Eaton, et al
2023; 64 (1)
- **Magnetic Resonance Imaging measurements of scalar dispersion for a scaled urban transient release** *BUILDING AND ENVIRONMENT*
Homan, T. A., Benson, M. J., Banko, A. J., Elkins, C. J., Chung, D. H., Rhee, J., Mooradian, L. D., Eaton, J. K.
2021; 205
- **On the generality of tensor basis neural networks for turbulent scalar flux modeling** *INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER*
Milani, P. M., Ling, J., Eaton, J. K.
2021; 128
- **Isotropic turbulence apparatus with a large vertical extent** *EXPERIMENTS IN FLUIDS*
Hoffman, D. W., Eaton, J. K.
2021; 62 (10)
- **Velocity and concentration field measurements and large eddy simulation of a shaped film cooling hole** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Gunady, I. E., Milani, P. M., Banko, A. J., Elkins, C. J., Eaton, J. K.
2021; 90
- **Conjugate Heat Transfer Analysis Using the Discrete Green's Function** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*
Hoffman, D. W., Eaton, J. K.
2021; 143 (3)
- **In Vitro Assessment of Right Ventricular Outflow Tract Anatomy and Valve Orientation Effects on Bioprosthetic Pulmonary Valve Hemodynamics.** *Cardiovascular engineering and technology*
Schiavone, N. K., Elkins, C. J., McElhinney, D. B., Eaton, J. K., Marsden, A. L.
2021
- **Turbulent scalar flux in inclined jets in crossflow: counter gradient transport and deep learning modelling** *JOURNAL OF FLUID MECHANICS*

-
- Milani, P. M., Ling, J., Eaton, J. K.
2020; 906
- **The Discrete Green's Function for Convective Heat Transfer-Part 1: Definition and Physical Understanding** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*
Eaton, J. K.
2020; 142 (10)
 - **Experimental Analysis of a Particle Separator Design With Full-Field Three-Dimensional Measurements** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Borup, D. D., Elkins, C. J., Eaton, J. K.
2020; 142 (10)
 - **The Discrete Green's Function for Convective Heat Transfer-Part 2: Semi-Analytical Estimates of Boundary Layer Discrete Green's Function** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*
Eaton, J. K., Milani, P. M.
2020; 142 (10)
 - **Temperature statistics in a radiatively heated particle-laden turbulent square duct flow**
Banko, A. J., Villafane, L., Kim, J., Eaton, J. K.
ELSEVIER SCIENCE INC.2020
 - **The 2019 MRV challenge: turbulent flow through a U-bend** *EXPERIMENTS IN FLUIDS*
Benson, M. J., Banko, A. J., Elkins, C. J., An, D., Song, S., Bruschewski, M., Grundmann, S., Borup, D. D., Eaton, J. K.
2020; 61 (6)
 - **Experimental Study of Flow Inside a Centrifugal Fan Using Magnetic Resonance Velocimetry** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*
Hoffman, D. W., Villafane, L., Elkins, C. J., Eaton, J. K.
2020; 142 (4)
 - **Large-eddy simulation study of unsteady wake dynamics and geometric sensitivity on a skewed bump** *JOURNAL OF FLUID MECHANICS*
Ching, D. S., Eaton, J. K.
2020; 885
 - **Shear layer of inclined jets in crossflow studied with spectral proper orthogonal decomposition and spectral transfer entropy** *INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER*
Milani, P. M., Ching, D. S., Banko, A. J., Eaton, J. K.
2020; 147
 - **An improved three-dimensional concentration measurement technique using magnetic resonance imaging** *EXPERIMENTS IN FLUIDS*
Banko, A. J., Benson, M. J., Gunady, I. E., Elkins, C. J., Eaton, J. K.
2020; 61 (2)
 - **Transport and dispersion of particle-Laden streaks in a standardized human nasal geometry** *EXPERIMENTS IN FLUIDS*
Borup, D. D., Engel, L. E., Elkins, C. J., Eaton, J. K.
2020; 61 (2)
 - **Generalization of Machine-Learned Turbulent Heat Flux Models Applied to Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Milani, P. M., Ling, J., Eaton, J. K.
2020; 142 (1)
 - **Enriching MRI mean flow data of inclined jets in crossflow with Large Eddy Simulations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Milani, P. M., Gunady, I. E., Ching, D. S., Banko, A. J., Elkins, C. J., Eaton, J. K.
2019; 80
 - **3D MRI measurements of the effects of wind direction on flow characteristics and contaminant dispersion in a model urban canopy** *ENVIRONMENTAL FLUID MECHANICS*
Shim, G., Prasad, D., Elkins, C. J., Eaton, J. K., Benson, M. J.
2019; 19 (4): 851–78

- **Effects of motion on MRI signal decay from micron-scale particles.** *Journal of magnetic resonance (San Diego, Calif. : 1997)*
Borup, D. D., Elkins, C. J., Eaton, J. K.
2019; 305: 152–61
- **Experimental Study of Periodic Free Stream Unsteadiness Effects on Discrete Hole Film Cooling in Two Geometries** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Borup, D. D., Fan, D., Elkins, C. J., Eaton, J. K.
2019; 141 (6)
- **Stochastic modeling of direct radiation transmission in particle-laden turbulent flow** *JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER*
Banko, A. J., Villafane, L., Kim, J., Esmaily, M., Eaton, J. K.
2019; 226: 1–18
- **GENERALIZATION OF MACHINE-LEARNED TURBULENT HEAT FLUX MODELS APPLIED TO FILM COOLING FLOWS**
Milani, P. M., Ling, J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2019
- **COMPOUND ANGLE EFFECTS ON SHAPED HOLE FILM COOLING**
Gunady, I. E., Borup, D. D., Banko, A. J., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2019
- **Physical Interpretation of Machine Learning Models Applied to Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Milani, P. M., Ling, J., Eaton, J. K.
2019; 141 (1)
- **EXPERIMENTAL STUDY OF FLOW INSIDE A CENTRIFUGAL FAN USING MAGNETIC RESONANCE VELOCIMETRY**
Hoffman, D. W., Villafane, L., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2019
- **EXPERIMENTAL ANALYSIS OF A PARTICLE SEPARATOR DESIGN WITH FULL-FIELD 3D MEASUREMENTS**
Borup, D. D., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2019
- **Unsteady vortex structures in the wake of nonaxisymmetric bumps using spiral MRV** *EXPERIMENTS IN FLUIDS*
Ching, D. S., Elkins, C. J., Alley, M. T., Eaton, J. K.
2018; 59 (10)
- **Investigation of geometric sensitivity of a non-axisymmetric bump: 3D mean velocity measurements** *EXPERIMENTS IN FLUIDS*
Ching, D. S., Elkins, C. J., Eaton, J. K.
2018; 59 (9)
- **Development and validation of an MRI-based method for 3D particle concentration measurement**
Borup, D. D., Elkins, C. J., Eaton, J. K.
ELSEVIER SCIENCE INC.2018: 275–87
- **3D Measurements of coupled freestream turbulence and secondary flow effects on film cooling** *EXPERIMENTS IN FLUIDS*
Ching, D. S., Xu, H. A., Elkins, C. J., Eaton, J. K.
2018; 59 (6)
- **Measurements in discrete hole film cooling behavior with periodic freestream unsteadiness** *EXPERIMENTS IN FLUIDS*
Fan, D., Borup, D. D., Elkins, C. J., Eaton, J. K.
2018; 59 (3)
- **A Machine Learning Approach for Determining the Turbulent Diffusivity in Film Cooling Flows** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Milani, P. M., Ling, J., Saez-Mischlich, G., Bodart, J., Eaton, J. K.
2018; 140 (2)
- **EXPERIMENTAL STUDY OF PERIODIC FREE STREAM UNSTEADINESS EFFECTS ON DISCRETE HOLE FILM COOLING IN TWO GEOMETRIES**

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- Borup, D. D., Fan, D., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2018: 327–41
- **PHYSICAL INTERPRETATION OF MACHINE LEARNING MODELS APPLIED TO FILM COOLING FLOWS**
Milani, P. M., Ling, J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2018
 - **Turbulent Scalar Mixing in a Skewed Jet in Crossflow: Experiments and Modeling** *FLOW TURBULENCE AND COMBUSTION*
Ryan, K. J., Bodart, J., Folkersma, M., Elkins, C. J., Eaton, J. K.
2017; 98 (3): 781-801
 - **TRANSPORT OF MICROPARTICLES IN A TURBULATED SERPENTINE PASSAGE**
Borup, D. D., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2017
 - **MAGNETIC RESONANCE THERMOMETRY EXPERIMENTAL SETUP: A PORTABLE HEAT TRANSFER EXPERIMENT**
Williams, E. T., Spirnak, J. R., Samland, M. C., Tremont, B. G., McQuirter, A. L., VerHulst, C. M., Van Poppel, B. P., Benson, M. J., Elkins, C. J., Burton, L. S.,
Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2017
 - **A MACHINE LEARNING APPROACH FOR DETERMINING THE TURBULENT DIFFUSIVITY IN FILM COOLING FLOWS**
Milani, P. M., Ling, J., Saez-Mischlich, G., Bodart, J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2017
 - **Validation of magnetic resonance concentration measurements with adiabatic wall temperature measurements** *EXPERIMENTS IN FLUIDS*
Sayles, E. L., Eaton, J. K.
2016; 57 (12)
 - **Oscillatory flow in the human airways from the mouth through several bronchial generations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Banko, A. J., Coletti, F., Elkins, C. J., Eaton, J. K.
2016; 61: 45-57
 - **Film Cooling Effectiveness Improvements Using a Nondiffusing Oval Hole** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Issakhanian, E., Elkins, C. J., Eaton, J. K.
2016; 138 (4)
 - **Three-dimensional flow field around and downstream of a subscale model rotating vertical axis wind turbine** *EXPERIMENTS IN FLUIDS*
Ryan, K. J., Coletti, F., Elkins, C. J., Dabiri, J. O., Eaton, J. K.
2016; 57 (3)
 - **Analysis of Turbulent Scalar Flux Models for a Discrete Hole Film Cooling Flow** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Ling, J., Ryan, K. J., Bodart, J., Eaton, J. K.
2016; 138 (1)
 - **The Effect of Land Taper Angle on Trailing Edge Slot Film Cooling** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Ling, J., Elkins, C. J., Eaton, J. K.
2015; 137 (7)
 - **Optimal Turbulent Schmidt Number for RANS Modeling of Trailing Edge Slot Film Cooling** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*
Ling, J., Elkins, C. J., Eaton, J. K.
2015; 137 (7)
 - **Three-dimensional inspiratory flow in the upper and central human airways** *EXPERIMENTS IN FLUIDS*
Banko, A. J., Coletti, F., Schiavazzi, D., Elkins, C. J., Eaton, J. K.
2015; 56 (6)
 - **Near Wall Modeling for Trailing Edge Slot Film Cooling** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*
Ling, J., Rossi, R., Eaton, J. K.
2015; 137 (2)

- **Shock boundary layer interactions in a low aspect ratio duct** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Campo, L. M., Eaton, J. K.
2015; 51: 353-371
- **BUILDING BLOCK EXPERIMENTS IN DISCRETE HOLE FILM COOLING**
Ryan, K. J., Coletti, F., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2015
- **A COMPARISON OF SHADOWGRAPHY AND X-RAY COMPUTED TOMOGRAPHY IN LIQUID SPRAY ANALYSIS**
Lee, Z., Eichner, D., Tennis, J., Ryan, M., Sowell, T., Benson, M., Van Poppel, B., Nelson, T., Guzman, P., Fahrig, R., Eaton, J., Kurman, M. S., Kweon, et al
AMER SOC MECHANICAL ENGINEERS.2015
- **ANALYSIS OF TURBULENT SCALAR FLUX MODELS FOR A DISCRETE HOLE FILM COOLING FLOW**
Ling, J., Ryan, K. J., Bodart, J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2015
- **FILM COOLING EFFECTIVENESS IMPROVEMENTS USING A NON-DIFFUSING OVAL HOLE**
Issakhanian, E., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2015
- **QUANTITATIVE MRI MEASUREMENTS OF HOT STREAK DEVELOPMENT IN A TURBINE VANE CASCADE**
Yapa, S. D., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2015
- **Confinement effects in shock wave/turbulent boundary layer interactions through wall-modelled large-eddy simulations** *JOURNAL OF FLUID MECHANICS*
Bermejo-Moreno, I., Campo, L., Larsson, J., Bodart, J., Helmer, D., Eaton, J. K.
2014; 758: 5-62
- **Comparison of magnetic resonance concentration measurements in water to temperature measurements in compressible air flows** *EXPERIMENTS IN FLUIDS*
Yapa, S. D., D'Atri, J. L., Schoech, J. M., Elkins, C. J., Eaton, J. K.
2014; 55 (11)
- **Sensitivity of an asymmetric, three-dimensional diffuser to inlet condition perturbations** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Sayles, E. L., Eaton, J. K.
2014; 49: 100-107
- **Three-Dimensional Mass Fraction Distribution of a Spray Measured by X-Ray Computed Tomography** *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME*
Coletti, F., Benson, M. J., Sagues, A. L., Miller, B. H., Fahrig, R., Eaton, J. K.
2014; 136 (5)
- **Fluid flow and scalar transport through porous fins** *PHYSICS OF FLUIDS*
Coletti, F., Muramatsu, K., Schiavazzi, D., Elkins, C. J., Eaton, J. K.
2014; 26 (5)
- **A matching pursuit approach to solenoidal filtering of three-dimensional velocity measurements** *JOURNAL OF COMPUTATIONAL PHYSICS*
Schiavazzi, D., Coletti, F., Iaccarino, G., Eaton, J. K.
2014; 263: 206-221
- **Analysis of Oxide (Al₂O₃, CuO, and ZnO) and CNT Nanoparticles Disaggregation Effect on the Thermal Conductivity and the Viscosity of Nanofluids** *INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING*
Lee, J., Yoon, Y., Eaton, J. K., Goodson, K. E., Bai, S. J.
2014; 15 (4): 703-710
- **A comprehensive model of magnetic particle motion during magnetic drug targeting** *INTERNATIONAL JOURNAL OF MULTIPHASE FLOW*
Cherry, E. M., Eaton, J. K.
2014; 59: 173-185

- **THE EFFECT OF LAND TAPER ANGLE ON TRAILING EDGE SLOT FILM COOLING**
Ling, J., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2014
- **THREE-DIMENSIONAL VELOCITY MEASUREMENTS AROUND AND DOWNSTREAM OF A ROTATING VERTICAL AXIS WIND TURBINE**
Ryan, K. J., Coletti, F., Dabiri, J. O., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2014
- **ENDWALL VORTEX EFFECTS ON TURBULENT DISPERSION OF FILM COOLANT IN A TURBINE VANE CASCADE**
Yapa, S. D., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2014
- **OPTIMAL TURBULENT SCHMIDT NUMBER FOR RANS MODELING OF TRAILING EDGE SLOT FILM COOLING**
Ling, J., Elkins, C. J., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2014
- **Experimentally informed optimization of turbulent diffusivity for a discrete hole film cooling geometry** *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW*
Ling, J., Coletti, F., Yapa, S. D., Eaton, J. K.
2013; 44: 348-357
- **Heat Transfer Coefficient Measurements on the Film-Cooled Pressure Surface of a Transonic Airfoil** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Kodzwa, P. M., Eaton, J. K.
2013; 135 (6)
- **Turbulent transport in an inclined jet in crossflow** *7th International Symposium on Turbulence Heat and Mass Transfer (THMT)*
Coletti, F., Benson, M. J., Ling, J., Elkins, C. J., Eaton, J. K.
ELSEVIER SCIENCE INC.2013: 149–160
- **An inclined jet in crossflow under the effect of streamwise pressure gradients** *EXPERIMENTS IN FLUIDS*
Coletti, F., Elkins, C. J., Eaton, J. K.
2013; 54 (9)
- **Local mass transfer measurements for corals and other complex geometries using gypsum dissolution** *EXPERIMENTS IN FLUIDS*
Chang, S., Elkins, C., Eaton, J. K., Monismith, S.
2013; 54 (7)
- **Heat Transfer and Pressure Drop of Lotus-Type Porous Metals** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*
Muramatsu, K., Ide, T., Nakajima, H., Eaton, J. K.
2013; 135 (7)
- **Experimental-Based Redesigns for Trailing Edge Film Cooling of Gas Turbine Blades** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Benson, M., Yapa, S. D., Elkins, C., Eaton, J. K.
2013; 135 (4)
- **Shear thinning effects on blood flow in straight and curved tubes** *PHYSICS OF FLUIDS*
Cherry, E. M., Eaton, J. K.
2013; 25 (7)
- **Three-Dimensional Velocity and Scalar Field Measurements of an Airfoil Trailing Edge With Slot Film Cooling: The Effect of an Internal Structure in the Slot** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Ling, J., Yapa, S. D., Benson, M. J., Elkins, C. J., Eaton, J. K.
2013; 135 (3)
- **Flow Separation Control in an Annular to Conical Diffuser Using Two-Dimensional and Three-Dimensional Wall Steps** *JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME*
Lo, K. P., Elkins, C. J., Eaton, J. K.
2013; 135 (4)

- **Film-Cooled Trailing Edge Measurements: 3D Velocity and Scalar Field** *JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME*
Benson, M., Laskowski, G., Elkins, C., Eaton, J. K.
2013; 135 (1)
- **THREE-DIMENSIONAL MASS FRACTION DISTRIBUTION OF A SPRAY MEASURED BY X-RAY COMPUTED TOMOGRAPHY**
Coletti, F., Benson, M. J., Sagues, A. L., Miller, B. H., Fahrig, R., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2013
- **MEASUREMENTS OF A TRAILING EDGE SLOT FILM COOLING GEOMETRY DESIGNED FOR REDUCED COOLANT FLOWRATE AND HIGH SURFACE EFFECTIVENESS**
Ling, J., Elkins, C. J., Benson, M. J., Yapa, S. D., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2013
- **Turbulent Transport in an Inclined Jet in Crossflow** *Int. J. Heat and Fluid Flow*
Coletti, F., Benson, M., J., Ling, J., B., Elkins, C., J., Eaton, J., K.
2013
- **3D Velocity and Scalar Field Measurements of an Airfoil Trailing Edge with Slot Film Cooling: The Effect of an Internal Structure in the Slot.** *ASME J. Turbomachinery*
Ling, J., Yapa, S., D., Benson, M., J., Elkins, C., J., Eaton, J., K.
2013; 135 (3): 0131018-1 -8
- **Experimentally Informed Optimization of Turbulent Diffusivity for a Discrete Hole Film Cooling Geometry** *Int. J. Heat and Fluid Flow*
Ling, J., Coletti, F., Yapa, S., D., Eaton, J., K.
2013
- **In-hole and mainflow velocity measurements of low-momentum jets in crossflow emanating from short holes** *EXPERIMENTS IN FLUIDS*
Issakhanian, E., Elkins, C. J., Eaton, J. K.
2012; 53 (6): 1765-1778
- **Three-dimensional features of a Mach 2.1 shock/boundary layer interaction** *EXPERIMENTS IN FLUIDS*
Helmer, D. B., Campo, L. M., Eaton, J. K.
2012; 53 (5): 1347-1368
- **Separation control in a conical diffuser with an annular inlet: center body wake separation** *EXPERIMENTS IN FLUIDS*
Lo, K. P., Elkins, C. J., Eaton, J. K.
2012; 53 (5): 1317-1326
- **HIV Treatment as Prevention: Systematic Comparison of Mathematical Models of the Potential Impact of Antiretroviral Therapy on HIV Incidence in South Africa** *PLOS MEDICINE*
Eaton, J. W., Johnson, L. F., Salomon, J. A., Baernighausen, T., Bendavid, E., Bershteyn, A., Bloom, D. E., Cambiano, V., Fraser, C., Hontelez, J. A., Humair, S., Klein, D. J., Long, et al
2012; 9 (7)
- **Effects of varying Reynolds number, blowing ratio, and internal geometry on trailing edge cutback film cooling** *EXPERIMENTS IN FLUIDS*
Benson, M. J., Elkins, C. J., Yapa, S. D., Ling, J. B., Eaton, J. K.
2012; 52 (6): 1415-1430
- **Sensitivity of an asymmetric 3D diffuser to vortex-generator induced inlet condition perturbations** *EXPERIMENTS IN FLUIDS*
Grundmann, S., Sayles, E. L., Elkins, C. J., Eaton, J. K.
2012; 52 (1): 11-21
- **EXPERIMENTAL-BASED REDESIGNS FOR TRAILING EDGE FILM COOLING OF GAS TURBINE BLADES**
Benson, M., Yapa, S., Elkins, C., Eaton, J. K., ASME
AMER SOC MECHANICAL ENGINEERS.2012: 1175-+
- **3D VELOCITY AND SCALAR FIELD MEASUREMENTS OF AN AIRFOIL TRAILING EDGE WITH SLOT FILM COOLING: THE EFFECT OF AN INTERNAL STRUCTURE IN THE SLOT** *ASME Turbo Expo 2012*
Ling, J., Yapa, S. D., Benson, M. J., Elkins, C. J., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 1279-1288

- **THREE-DIMENSIONAL VELOCITY MEASUREMENTS OF FILM COOLING FLOW UNDER FAVORABLE PRESSURE GRADIENT** *ASME Turbo Expo 2012*
Coletti, F., Elkins, C. J., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 1627–1638
- **HEAT TRANSFER PERFORMANCE OF LOTUS TYPE POROUS METALS** *ASME Summer Heat Transfer Conference (SHTC)*
Muramatsu, K., Ide, T., Nakajima, H., Eaton, J. K.
AMER SOC MECHANICAL ENGINEERS.2012: 31–40
- **MAGNETIC RESONANCE IMAGING STUDIES OF FLOW AND MIXING FOR SINGLE-HOLE FILM COOLING** *ASME Turbo Expo 2011*
Issakhanian, E., Elkins, C. J., Eaton, J. K.
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