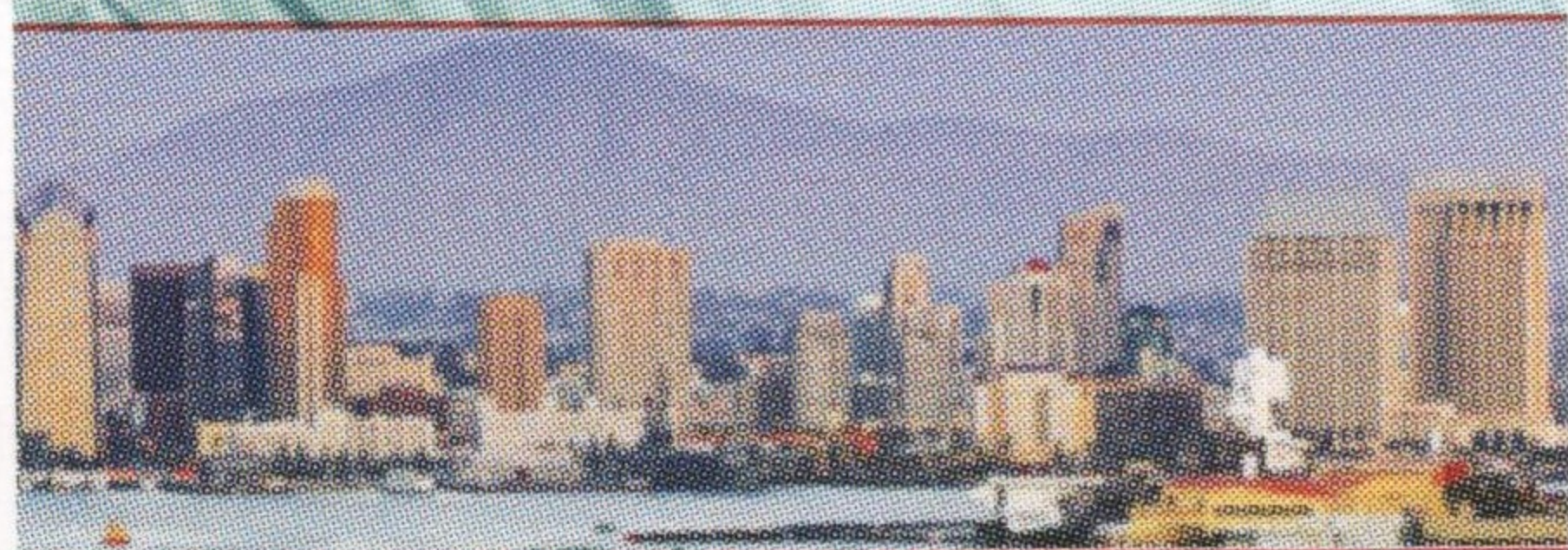


2013

ASME International Mechanical Engineering Congress & Exposition

**November 15–21, 2013
San Diego, California USA**



PROGRAM

Includes Exposition Directory

**16-18 THE GRADUATE STUDENT POSTER SESSION
IN HEAT TRANSFER AND FLUID SCIENCES**

**16-18-1 The Graduate Student Poster Session in Heat
Transfer and Fluid Sciences**

1st Floor, Manchester Grand Hyatt, Douglas Pavilion **11:30am–3:00pm**

**Thermal Study on Chemical Vapor Deposition Equipment
Processing Two Silicon Wafers**

Poster Presentation. IMECE2013-67000
Tomoji Watanabe, Shigeki Hirasawa, *Kobe University, Kobe, Hyogo, Japan*

**Thermodynamic Analysis for Near-Field Thermal Radiation:
Energy and Entropy Transfer**

Poster Presentation. IMECE2013-67022
Yi Zheng, Arvind Narayanaswamy, *Columbia University, New York, NY, United States*

**Effective Temperature Jump Length and Influence of Axial
Conduction for Thermal Transport Through Channels With
Superhydrophobic Walls**

Poster Presentation. IMECE2013-67036
Adam Cowley, Daniel Maynes, *Brigham Young University, Provo, UT, United States*

**Droplet Rebound From Rib and Post Patterned
Superhydrophobic Surfaces**

Poster Presentation. IMECE2013-67046
Cristian Clavijo, Daniel Maynes, *Brigham Young University, Provo, UT, United States*

**Modeling and Design of a Micro Evaporator for a Micro
Rankine Cycle**

Poster Presentation. IMECE2013-67071
Hassan Azarkish, *University of Sistan and Baluchestan, Sherbrooke, Canada*, Selin Arslan, *Lawrence Technology University, Southfield, MI, United States*, Amin Behzadmehr, *University of Sistan and Baluchestan, Zahedan, Iran*, Luc Frechette, *Université de Sherbrooke, Sherbrooke, QC, Canada*

Drag Reduction for Automotive-Carrying Style Rail Cars

Poster Presentation. IMECE2013-67072
Rob Condie, Daniel Maynes, *Brigham Young University, Provo, UT, United States*

**Statistical Modeling of the Turbulent Far Wake Behind the
Cross-Flowed and Slightly Heated Cylinder**

Poster Presentation. IMECE2013-67079
Yadykar Ibragimov, Yuriy Nuzhnov, *Al-Farabi Kazakh National University, Combustion Problems Institute, Almaty, Kazakhstan*

**Experimental Investigation of Two-Phase Refrigerant Flow
Characteristics in a Mini-Channel Helical Heat Exchanger**

Poster Presentation. IMECE2013-67128
Charles Okaeme, Guanqiu Li, TieJun Zhang, *Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emir.*

**Design of a Transcritical CO₂ Rankine Cycle Using a
Expander and Diaphragm Pump**

Poster Presentation. IMECE2013-67137
Alexander Higgo, Guanqiu Li, TieJun Zhang, *Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emir.*

**Dynamic Control of Radiation-Based Thermal Management
Through Origami-Inspired Design**

Poster Presentation. IMECE2013-67157
Jared Park, Brian Iverson, Matthew Jones, Larry Howell, *Brigham Young University, Provo, UT, United States*, Ismael Delimont, *Brigham Young University, Lacey, WA, United States*

**Thermal Transport in Chemically Ordered Materials for
Thermoelectric Devices**

Poster Presentation. IMECE2013-67160
LeighAnn Larkin, Justin L. Smoyer, MacKenzie R. Smith, *University of Virginia, Charlottesville, VA, United States*, Pamela M. Norris, *University of Virginia, Charlottesville, VA, United States*

**Effects of a Stability Control Device on the Performance
Inducer in a Turbopump**

Poster Presentation. IMECE2013-67179
Ryan Lundgreen, Daniel Maynes, *Brigham Young University, Provo, UT, United States*

**Laminar Jet Impingement on a Superhydrophobic Surface
With Thin Film Breakup**

Poster Presentation. IMECE2013-67202
Jonathan Stoddard, Julie Crockett, *Brigham Young University, Provo, UT, United States*

**VOF-Based Modeling of Condensation Heat Transfer in
Microscale Geometries**

Poster Presentation. IMECE2013-67216
Harish Ganapathy, *University of Maryland College Park, College Park, MD, United States*

**Thermal Transport Due to Quasi-Localization of Vibrations
in Amorphous Silicon**

Poster Presentation. IMECE2013-67220
Caroline S. Gorham, *University of Virginia, Charlottesville, VA, United States*

**Experimental and Numerical Study of Rapid Transient
Heating in 3D Embedded On-Chip Interconnects**

Poster Presentation. IMECE2013-67247
Banafsheh Barabadi, *Georgia Institute of Technology, Atlanta, GA, United States*

**Theory on Electron-Phonon Coupling and Thermal
Conductance at Free Electron Metal/Insulator Interfaces**

Poster Presentation. IMECE2013-67278
Ashutosh Giri, *University of Virginia, Charlottesville, VA, United States*