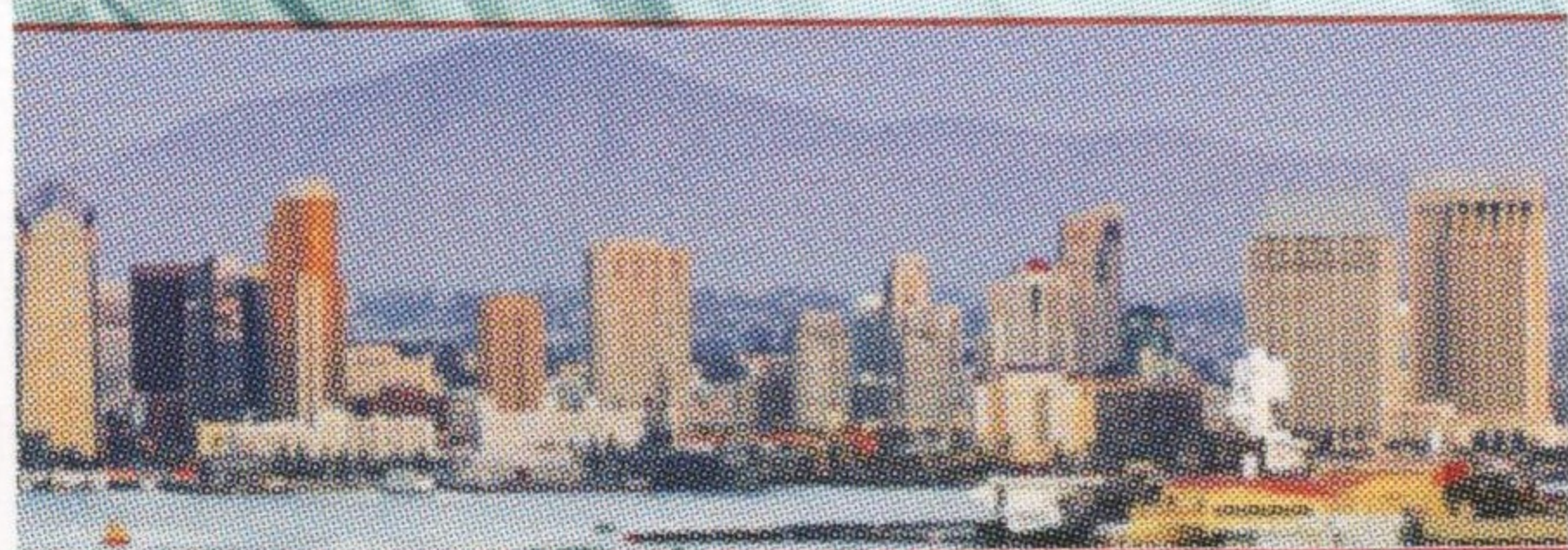


2013

ASME International Mechanical Engineering Congress & Exposition

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



PROGRAM

Includes Exposition Directory

8-5 14TH SYMPOSIUM ON FUNDAMENTAL ISSUES AND PERSPECTIVES IN FLUID MECHANICS

8-5-1 Turbulence Modeling and Applications

2nd Floor, Manchester Grand Hyatt, Betsy C 9:45am–11:30am

Session Organizer: **Deify Law**, *California State University, Fresno, Fresno, CA, United States*

Session Co-Organizer: **Khaled Hammad**, *Central Connecticut State University, Simsbury, CT, United States*

9:45am Application of a Novel Approach for Turbulence Model Initialization

Technical Presentation. IMECE2013-65771

Bertrand Rollin, Nicholas A. Denissen, Jon M. Reisner, Malcolm Andrews, *Los Alamos National Laboratory, Los Alamos, NM, United States*

10:02am Dynamic Modeling of Turbulence

Technical Paper Publication. IMECE2013-62330

Abdel Mazher, Changki Mo, *Washington State University, Richland, WA, United States*

10:19am Some Results of Statistical Modeling of the Small-Scale Structure of Turbulent Flows Revealed With Consideration of Intermittency

Technical Paper Publication. IMECE2013-62645

Yuriy Nuzhnov, *Al-Farabi Kazakh National University, Combustion Problems Institute, Almaty, Kazakhstan*

10:36am Mach Number on Outlet Plane of a Straight Micro-Tube

Technical Paper Publication. IMECE2013-64188

Yutaka Asako, Daisuke Kawashima, *Tokyo Metropolitan University, Hachioji Tokyo, Japan*, Toru Yamada, *Lund University, Lund, Sweden*, Chungpyo Hong, *Kagoshima University, Kagoshima, Japan*

10:53am LES Investigation of Passive Flow Control Around an Ahmed Body

Technical Paper Publication. IMECE2013-62373

Sinisa Krajnovic, *Chalmers University of Technology, Göteborg, Sweden*

11:10am Numerical Investigation of the Flow Instability on the Rear of a Vehicle-Like Bluff Body

Technical Presentation. IMECE2013-62337

Sinisa Krajnovic, *Chalmers University of Technology, Göteborg, Sweden*

8-6 SYMPOSIUM ON CFD APPLICATIONS FOR OPTIMIZATION AND CONTROLS

8-6-1 CFD Applications for Optimization and Controls I

2nd Floor, Manchester Grand Hyatt, Edward A 9:45am–11:30am

Session Organizer: **Zhongquan Zheng**, *University of Kansas, Lawrence, KS, United States*

Session Co-Organizer: **Ning Zhang**, *McNeese State University, Lake Charles, LA, United States*

9:45am High Fidelity Simulation of Multiscale Turbulent Flows in the Environment

Invited Presentation. IMECE2013-67381

Sutanu Sarkar, *University of California, La Jolla, United States*

10:15am Study of Turbulent Incompressible Flow Separation on High Lift Devices Using CutCell Meshing

Technical Paper Publication. IMECE2013-62623

Ramadan Ghmatl, *Tripoli University, Tripoli, Libya*, Selin Arslan, Badih Jawad, Liping Liu, *Lawrence Technological University, Southfield, MI, United States*

10:30am Three-Dimensional Mesh Morphing Methodology for Scouring Around Bridge Piers Based on Computational Fluid Dynamic Solution

Technical Paper Publication. IMECE2013-62278

Pradip Majumdar, Chris Edwards, *Northern Illinois University, DeKalb, IL, United States*, Steven Lottes, *Argonne National Laboratory, Lemont, IL, United States*

10:45am Effect by Guide Vane Swirl and Tumble Device to Improve the Air-Fuel Mixing of Diesel Engine Running With Higher Viscous Fuels

Technical Paper Publication. IMECE2013-62297

Idris Saad, *Universiti Teknologi MARA, University of South Australia, Shah Alam, Selangor, Malaysia*, Saiful Bari, *University of South Australia, Adelaide, Australia*

11:00am New Curve Optimization Method and Its Application to Shape Design for Die Casting Using a CFD Simulation

Technical Paper Publication. IMECE2013-62541

Ken'ichi Kanazawa, Ken'ichi Yano, *Mie University, Tsu, Mie, Japan*, Jun'ichi Ogura, *Yamaha Motor Co., Ltd., Iwata, Shizuoka, Japan*, Shuhei Baba, *Flow Science Japan, Inc., Hamamatsu, Shizuoka, Japan*