

International Symposium on Mechanical Systems Innovation

Tetsumon Conference Hall, Hongo Campus
The University of Tokyo

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March 8, 2004

- 9:30-9:45 **Welcome**
Shinichiro Ohgaki (Dean, School of Engineering, The University of Tokyo)
- 9:45-10:15 **"The 21st Century COE Program: Mechanical Systems Innovation"**
Nobuhide Kasagi (The University of Tokyo)
- 10:15-11:00 **"Predictability and Uncertainty in Large-scale Simulations"**
George Em Karniadakis (Brown University)
- 11:00-11:30 **"Industrial Applications of Unsteady Turbulent Flow Simulations"**
Chisachi Kato (The University of Tokyo)
- 13:00-13:45 **"Current Challenges in Computational Biomechanics"**
C. Ross Ethier (The University of Toronto)
- 13:45-14:15 **"Micro/Nano Production Technology for Bio/Nano Science Devices"**
Masayuki Nakao (The University of Tokyo)
- 14:15-15:00 **"Computer-Integrated Surgery: Coupling Information to Action in the 21'st Century"**
Russell H. Taylor (The Johns Hopkins University)
- 15:30-16:00 **"Medical Robotics and Telesurgery"**
Mamoru Mitsuishi (The University of Tokyo)
- 16:00-16:45 **"Therapeutic Ultrasound"**
Lawrence A. Crum (University of Washington)
- 16:45-17:15 **"Medical Application of Ultrasound with Micro-bubbles"**
Yoichiro Matsumoto (The University of Tokyo)

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- 9:30-10:15 **"Bio-Information-Nano Fusion"**
Chih-Ming Ho (University of California, Los Angeles)
- 10:15-10:45 **"Research and Development of PEFC and Its Application to Hydrogen Energy System"**
Takayuki Terai (The University of Tokyo)
- 10:45-11:30 **"SOFCs for Portable Power: A New Approach to Micro-Fuel Cells"**
Sossina M. Haile (California Institute of Technology)
- 11:30-12:00 **"A New Fiber-optic Vibration/Acoustic Sensor and its Application to Structural Health Monitoring"**
Kazuro Kageyama (The University of Tokyo)
- 13:30-14:00 **"Development of Environmental Cleaning Methods"**
Toyohisa Fujita (The University of Tokyo)
- 14:00-14:45 **"Microscale Combustion for Power Generation"**
Carlos Fernandez-Pello (University of California, Berkeley)
- 14:45-15:15 **"Dynamic Power Conversion for Miniature Thermo-fluid Systems"**
Toshio Nagashima (The University of Tokyo)
- 15:45-16:30 **"Active and Passive Control of Turbulence"**
Haechon Choi (Seoul National University)
- 16:30-17:00 **"Application of Hot Hardness Test to the Evaluation of Remaining Life of Fossil Power Plant"**
Shinsuke Sakai (The University of Tokyo)
- 17:00-17:10 **Closing**



主催：東京大学 21世紀COEプログラム「機械システム・イノベーション」

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