



PRINCETON UNIVERSITY
DEPT. OF MECHANICAL & AEROSPACE ENGINEERING

SEMINAR NOTICE

Turbulent Combustion in a High-pressure and High-temperature Environment

Prof. Hideaki Kobayashi
Institute of Fluid Science
Tohoku University

Experimental study of turbulent premixed combustion at high pressure and high temperature for burner stabilized flames in a high pressure chamber has been performed. Effects of pressure on turbulent burning velocity, intrinsic flame instability and smallest scale of flame wrinkling obtained from fractal analysis as fundamental characteristics, as well as applications to high-temperature air combustion and syngas combustion, will be presented.

Biography:

Educations

1981	Bachelor of Engineering (Mechanical Engineering), Tohoku University
1983	Master of Engineering (Mechanical Engineering), Tohoku University
1991	Doctor of Engineering (Mechanical Engineering), Tohoku University Professional experiences
1983-1983	Researcher, Central Research Institute of Nissan Motors Corp.
1984-1991	Research Associate, Department of Mechanical Engineering, Tohoku University
1991-1992	Research Associate, Institute of Fluid Science, Tohoku University
1992-2003	Associate Professor, Institute of Fluid Science, Tohoku University
1994-1995	Visiting Researcher, University of California, San Diego
2000 to date	Board of Directors, Combustion Society of Japan
2003 to date	Professor, Institute of Fluid Science, Tohoku University
2006 to date	Program Co-chair of the 32nd International Symposium on Combustion, Montreal, The Combustion Institute
2008 to date	Board of Directors, The Combustion Institute

Friday, October 23rd, 2009
3:30 PM

Room 222
Bowen Hall

For inquiries, please contact the Dept. of Mechanical & Aerospace Engineering at 609-258-5126

ALL VISITORS ARE WELCOME!

Social Period in atrium outside of Bowen 222 following the seminar.