

WEDNESDAY–28 JULY 2004

50TH ANNIVERSARY LECTURE – 8:30 am
Combustion at the Focus: Laser Diagnostics and Control, K. Kohse-Höinghaus, R.S. Barlow, M. Aldén, J. Wolfrum
Katharina Kohse-Höinghaus, Lecturer
Chairs: Ronald K. Hanson and R. Peter Lindstedt

9:30

BREAK

Room	Lecture Center F4	BSB 250	IL Rm A&B	Lecture Center F1	Lecture Center F6	Lecture Center A1	Lecture Center F3
	Pollutants: PAH & Soot <i>Chairs: M. Frenklach H. Jander</i>	Kinetics <i>Chairs: P. Dagaut P. Roth</i>	Lifted Turbulent Flames <i>Chairs: R.S Barlow S.S. Shy</i>	Flame Diagnostics <i>Chairs: J.B. Jeffries M.B. Long</i>	Propulsion <i>Chairs: Y.-C. Chao J.C. Hermanson</i>	Laminar Diffusion Flames <i>Chairs: M.Y. Choi P. Papas</i>	Heterogeneous Combustion <i>Chairs: S.G. Buckley P. Salatino</i>
10:00	3A01: Detailed Modeling of PAH and Soot Formation in a Laminar Premixed Benzene/ Oxygen/Argon Low-Pressure Flame <i>H. Richter, S. Granata, W.H. Green, J.B. Howard</i>	3B01: Experimental and Modeling Study of 1-Hexene Oxidation Behind Reflected Shock Waves <i>M. Yahyaoui, N. Djebaili-Chaumeix, C.-E. Paillard, S. Touchard, R. Fournet, P.A. Glaude, F. Battin-Leclerc</i>	3C01: The Stabilization Mechanism and Structure of Turbulent Hydrocarbon Lifted Flames <i>A. Joedicke, N. Peters, M. Mansour</i>	3D01: Studies of a Fuel-Rich Propane Flame with Photoionization Mass Spectrometry <i>T.A. Cool, K. Nakajima, C.A. Taatjes, A. McIlroy, P.R. Westmoreland, M.E. Law, A. Morel</i>	3E01: Extending Low-NO _x Operating Range of a Lean-Premixed Prevaporized Gas Turbine Combustor by Reaction of Secondary Mixtures Injected into Primary Stage Burned Gas <i>S. Hayashi, H. Yamada, M. Makida</i>	3F01: Computational and Experimental Study of a JP-8 a Surrogate, and Its Components in Counterflow Diffusion Flame <i>J.A. Cooke, M. Bellucci, M.D. Smooke, A. Gomez, A. Violi, T. Faravelli, E. Ranzi</i>	3G0: Absolute Radical Concentration Measurements in Low-Pressure H ₂ /O ₂ Flames During the Combustion of Graphite <i>T. Bohm, G. Peiter, H.-R. Volpp, J. Wolfrum, N. Ditzian, S. Cheskis</i>
10:25	3A02: Experimental Investigation of the Structure of a Sooting Premixed Benzene/Oxygen/Argon Flame Burning at Low Pressure <i>F. Defoieux, V. Dias, C. Renard, P.J. Van Tiggelen, J. Vandooren</i>	3B02: Shock Tube Study of the Ignition of Lean <i>n</i> -Heptane/Air Mixtures at Intermediate Temperatures and High Pressures <i>J. Herzler, L. Jerig, P. Roth</i>	3C02: A Numerical Study on the Formation of Diffusion Flame Islands in a Turbulent Hydrogen Jet-Lifted Flame <i>Y. Mizobuchi, J. Shinjo, S. Ogawa, T. Takeno</i>	3D02: Unsteady Effects on Flame Extinction Limits During Gaseous and Two-Phase Flame/Vortex Interactions <i>A. Lemaire, K. Zähringer, T.R. Meyer, J.C. Rolon</i>	3E02: Combustion of Lean Prevaporized Fuel-Air Mixtures Mixed with Hot Burned Gas for Low-NO _x Emissions over an Extended Range of Fuel-Air Ratios <i>N. Aida, T. Nishijima, S. Hayashi, H. Yamada, T. Kawakami</i>	3F02: Structure of Partially Premixed <i>n</i> -Heptane/Air Counterflow Flames <i>P. Berta, I.K. Puri, S.K. Aggarwal</i>	3G02: Density Functional Study of the Chemisorption of O ₂ on the Armchair Surface of Graphite <i>K. Sendt, B.S. Haynes</i>

10:50	3A03: Allene Addition to a Fuel-Lean Ethylene Flat Flame <i>M.E. Law, T. Carrière, P.R. Westmoreland</i>	3B03: Shock Tube Measurements of Toluene Ignition Times and OH Concentration Time Histories <i>V. Vasudevan, D.F. Davidson, R.K. Hanson</i>	3C03: Structure of Propagating Edge Diffusion Flames in Hydrocarbon Fuel Jets <i>F. Takahashi, V.R. Katta</i>	3D03: Dynamic Behavior of Diffusion Flame Interacting with a Large Scale Vortex by Laser Imaging Techniques <i>M. Komiyama, T. Fujimura, T. Takagi, S. Kinoshita</i>	3E03: Effect of Exhaust Nozzle Geometry on Combustor Flow Field and Combustion Characteristics <i>G. Li, E.J. Gutmark</i>	3F03: Laser Induced Fluorescence Measurements and Modeling of Absolute CH Concentrations in Strained Laminar Methane/Air Diffusion Flames <i>C. Gibaud, J.A. Snyder, V. Sick, R.P. Lindstedt</i>	3G03: The Rate of Gasification by CO ₂ of Chars from Wastes <i>S.A. Scott, J.F. Davidson, J.S. Dennis, P.S. Fennell, A.N. Hayhurst</i>
11:15	3A04: Aromatic Excimers: Evidence for Polynuclear Aromatic Hydrocarbon Condensation in Flames <i>J.H. Miller</i>	3B04: A High Pressure Model for the Oxidation of Toluene <i>R. Sivaramakrishnan, R.S. Tranter, K. Brezinsky</i>	3C04: Simulations of Turbulent Lifted Jet Flames with Two-Dimensional Conditional Moment Closure <i>I.S. Kim, E. Mastorakos</i>	3D04: Experimental and Numerical Investigation of Microscale Hydrogen Diffusion Flames <i>T.S. Cheng, Y.-C. Chao, C.-Y. Wu, Y.-H. Li, Y. Nakamura, K.-Y. Lee, T. Yuan T.S. Leu</i>	3E04: Interaction of a Premixed Flame with a Liquid Fuel Film on a Wall <i>G. Desoutter, B. Cuenot, C. Habchi, T. Poinsot</i>	3F04: Combined Experimental and Computational Study of Laminar, Axisymmetric Hydrogen-Air Diffusion Flames <i>V.V. Toro, A.V. Mokhov, H.B. Levinsky, M.D. Smooke</i>	3G04: On the Origin of Power-Law Kinetics in Carbon Oxidation <i>R.H. Hurt, B.S. Haynes</i>
11:40	3A05: Particle Size Distribution Function of Incipient Soot in Laminar Premixed Ethylene Flames: Effect of Flame Temperature <i>B. Zhao, Z. Yang, Z. Li, M.V. Johnson, H. Wang</i>	3B05: Shock Tube Ignition Measurements of Iso-Octane/Air and Toluene/Air at High Pressures <i>D.F. Davidson, B.M. Gauthier, R.K. Hanson</i>	3C05: Simulation of Flame Lift-Off on a Diesel Jet Using a Generalized Flame Surface Density Modeling Approach <i>F.A. Tap, D. Veynante</i>	3D05: Diffusion Flame Instabilities in a 0.75mm Non-Premixed Microburner <i>C. Miesse, R.I. Masel, M. Short, M.A. Shannon</i>	3E05: Transcritical Oxygen/Supercritical Methane Combustion <i>G. Singla, P. Scoufflaire, C. Rolon, S. Candel</i>	3F05: Experimental Evaluation of Flame Observables for Simplified Scalar Dissipation Rate Measurements in Laminar Diffusion Flamelets <i>K. Bijjula, D.C. Kyritsis</i>	3G05: Nitrogen Release During Reaction of Coal Char with O ₂ , CO ₂ and H ₂ O <i>D.-C. Park, S.J. Day, P.F. Nelson</i>