

Monday

Opening Remarks

8:30	Opening Remarks				
9:00	Plenary Lecture 1: Scott Jackson, Los Alamos National Laboratory, USA <i>Condensed Phase Detonation: Are mesoscale effects needed to predict performance?</i> Metcalf Hall, Chair: U. Maas				
10:00	Coffee Break				
Room	Auditorium	Ballroom A	Ballroom B	East Balcony	Terrace Lounge
Topic	Chemical Kinetics and Reaction Dynamics 1 <i>Chairs: P. Dagaut, M.H. Wu</i>	Laminar Flames 1 <i>Chairs: N. Chaumeix, Y. Ju</i>	Detonation Engines 1 <i>Chairs: J. Yoh, R. Zitoun</i>	Detonation Boundary Interactions 1 <i>Chairs: C.B. Kiyanda, M. Radulescu</i>	Flames in Narrow Tubes and Microchannels 1 <i>Chairs: G. Dayma, K. Maruta</i>
10:30	A Rapid Compression Expansion Machine (RCEM) for Measuring Species Histories (859) <i>M. Werler, R. Schießl, U. Maas</i>	Effects of Pressure and Temperature on Laminar Burning Velocity of a Kerosene Surrogate (1069) <i>R. le Dortz, M. Bellenoue, J. Sotton, C. Strozzi</i>	Mid-Infrared Imaging of a Non-Premixed Rotating Detonation Engine (833) <i>B.A. Rankin, J.R. Codoni, K.Y. Cho, J.L. Hoke, F.R. Schauer</i>	Interactions of a Detonation Wave Confined by a High-Temperature Compressible Layer (970) <i>M. Reynaud, F. Viot, A. Chinnayya</i>	Large-Activation-Energy Analysis of Gaseous Reacting Flow in Pipes (808) <i>D.M. Boza, I. Iglesias, A.L. Sánchez</i>
10:55	Validation of Hierarchical REDIM Based Reduced Models (1061) <i>V. Bykov, A. Neagos, U. Maas</i>	Observation of Double Flame Structures in Near-Limit Premixed Flames (1083) <i>C.B. Reuter, Y. Ju</i>	Performance Evaluation of a Rotating Detonation Engine (1098) <i>J. Nishimura, K. Ishihara, K. Goto, S. Nakagami, K. Matsuoka, J. Kasahara, A. Matsuo, I. Funaki, H. Mukae, K. Yasuda, D. Nakata, K. Higashino, H. Moriai</i>	Oblique Detonation Interaction with a Wall for Large Angles of Attack (1105) <i>M. Short, C. Chiquete, J.B. Bdzil, C.D. Meyer</i>	Effects of Stoichiometry on Premixed Flames Propagating in Planar Microchannels (771) <i>D. Fernandez-Galisteo, C. Jiménez, M. Sánchez-Sánchez, V.N. Kurdyumov</i>
11:20	Predicting Large-Scale Effects During Cookoff of PBXs and Melt-Castable Explosives (852) <i>M.L. Hobbs, M.J. Kaneshige, W.W. Erikson</i>	Distinct Dependence of Flame Speed to Stretch and Curvature (1040) <i>F. Thiesset, F. Halter, C. Bariki, C. Chauveau, I. Gokalp</i>	Orderly Wave Initiation in a Rotating Detonation Engine (1088) <i>C. Knowlen, M. Kurosaka</i>	Effects of Lateral Relief of Detonation in a Thin Channel (815) <i>K.Y. Cho, J.R. Codoni, B.A. Rankin, J.L. Hoke, F.R. Schauer</i>	Numerical Study on Asymmetric Flame Spread in A Narrow Combustible Channel (1029) <i>T. Matsuoka, S. Murakami, T. Yamazaki, Y. Nakamura</i>
11:45	Construction of Simple Reaction Mechanisms for C₃H₈/Air Mixtures Considering Five Combustion Properties (919) <i>Y. Sasaki, H. Nakamura, K. Maruta</i>	A Numerical Study on the Effect of Hydrogen Mole Fraction on NO Formation in H₂/CO Syngas/Air Laminar Diffusion Flames (801) <i>Y. Ye, Z. Gu, J. Xi, A. Haiyang, Z. Xianpeng</i>	Pulse Detonation Operation at Kilohertz Frequency (1065) <i>H. Taki, N. Hirota, K. Matsuoka, K. Akira, J. Kasahara, H. Watanabe, A. Matsuo, T. Endo</i>	Effect of Boundary Streamline Deflection Angle on Detonation Propagation (1077) <i>C. Chiquete, M. Short, C.D. Meyer, J.J. Quirk</i>	Flame Behaviour During Propagation in Small Tubes Characterized by Different Degrees of the End Opening (869) <i>A.N. Gutkowski, P. Jasinski, M. Lecki, B. Jedrowiak</i>
12:10	Lunch				

Topic	Chemical Kinetics and Reaction Dynamics 2 <i>Chairs: P. Dagaut, M.H. Wu</i>	Laminar Flames 2 <i>Chairs: N. Chaumeix, Y. Ju</i>	The Current Status and Future Outlook on Gaseous Detonation Research 1 <i>Chairs: A. Higgins, H.D. Ng</i>	Dust Explosions 1 <i>Chairs: R. Houim, A. Kuhl</i>	Flames in Narrow Tubes and Microchannels 2 <i>Chairs: G. Dayma, K. Maruta</i>
13:50	Kinetic Effects of n-Propylbenzene on n-Dodecane Cool Flame Extinction (1101) <i>O.R. Yehia, C.B. Reuter, Y. Ju</i>	Influence of Monodispersed Mist of Inert Liquid on Gas Flame Propagation (1053) <i>N.S. Belyakov, V.I. Babushok, S.S. Minaev</i>	The Current Status and Future Outlook on Gaseous Detonation Research <i>J.H.S. Lee</i>	Explosion-Induced Ignition and Combustion of Acetylene Clouds (938) <i>A.L. Kuhl, H. Reichenbach, J.B. Bell, V.E. Beckner</i>	Stationary Premixed Flames in Narrow Tubes with External Heat Transfer (1082) <i>A.O. Velázquez, L. Bauwens, F. Fachini</i>
14:15	Utilization of Transport of Species and Heat Release to a DRG-Method-Based Reduction (996) <i>K. Yamasaki, S. Honya, A. Uemichi, M. Nishioka</i>	Laminar Flame Speed of Diluted DME-Air Mixtures (1019) <i>A. Mohammad, A.N. Mohammed, K.A. Juhany, S. Kumar, R.K. Velmati</i>	The Usefulness of a 1D Hydrodynamic Model for the Detonation Structure for Predicting Detonation Dynamic Parameters (1140) <i>M.I. Radulescu</i>	Effect of Particle Size on the Dispersion of Dust Produced by a Shock Wave (1113) <i>O.J. Ugarte, R.W. Houim, E.S. Oran</i>	Experiments on Flame Propagation Regimes in a Thin Layer Geometry (1132) <i>M. Kuznetsov, J. Grune</i>
14:40	Modeling Real Gas Equations of State in High Density Combustion (1127) <i>C. Zheng, D. Coombs, B. Akih-Kumgeh</i>	Pressure and Radiation Effects on the Dynamics of Hot and Cool Diffusion Flames (1073) <i>C.B. Reuter, E. Lin, Y. Ju</i>	Computation of the Mean Hydrodynamic Structure of Detonation with Losses (961) <i>A. Chinnayya</i>	Promotion and Mitigation of Premixed Flame Acceleration in Dusty-Gaseous Environment with Various Combustible Dust Distributions: A Computational Study (1138) <i>S. Demir, H. Sezer, T. Bush, V. Akkerman</i>	Pulsating Combustion of Ethylene in Micro-Channels with Controlled Temperature Gradient (755) <i>A. di Stazio, C. Chauveau, G. Dayma, P. Dagaut</i>
15:05	Validation of Detailed Chemical Kinetics Mechanisms for Reproduction of Ignition Delay Times of C2-C5 Alkenes (927) <i>A. Jach, W. Rudy, A.A. Pękalski, A. Teodorczyk</i>	Laminar Flame Speed Determination for H₂/N₂/O₂/Steam Mixtures Using the Spherical Bomb Method (594) <i>R. Grosseuvres, A. Bentaïb, N. Chaumeix</i>	Discussion Period	Turbulent Clustering of Particles and Radiation-Induced Mechanism of Dust Explosions (798) <i>M. Liberman, N. Kleeorin, I. Rogachevskii, N. Haugen</i>	Experimental and Numerical Study of Premixed Flame Penetration in a Set of Microchannels (845) <i>R. Fursenko, E. Sereshchenko, G. Uriupin, E. Odintsov, T. Tezuka, S. Minaev, K. Maruta</i>
15:30	Coffee Break				

Topic	Ignition 1 <i>Chairs: S. Coronel, J. Melguizo-Gavilanes</i>	Explosion Safety 1 <i>Chairs: S. Dorofeev, I.S. Jeung</i>	The Current Status and Future Outlook on Gaseous Detonation Research 2 <i>Chairs: A. Higgins, H.D. Ng</i>	Flame-Wall Interaction <i>Chairs: A. Comandini, U. Maas</i>	Turbulent Reacting Flows 1 <i>Chairs: A. Poludnenko, L. Vervisch</i>
16:00	Hot Spot Dynamics: Quenching, Ignition, Flame Propagation and Extinction (1115) <i>J. Santner, S.S. Goldsborough</i>	Flame Arrester Performance at Increased Oxygen Concentrations (1060) <i>S. Zakel, S. Henkel, F. Stolpe, M. Beyer, U. Krause</i>	Critical Condition for Detonation Diffraction with Stable and Unstable Mixtures (963) <i>J. Kasahara, A. Kawasaki</i>	REDIM Reduced Modeling of Quenching at a Cold Inert Wall with Detailed Transport and Different Mechanisms (811) <i>C. Strassacker, V. Bykov, U. Maas</i>	On the Supersonic Flame Structure in the Hyshot II Scramjet Combustor (985) <i>C. Fureby</i>
16:25	Effect of Orientation on the Ignition of Stoichiometric Ethylene Mixtures by Stationary Hot Surfaces (981) <i>J. Melguizo-Gavilanes, J.E. Shepherd</i>	Effects of Open Area of a Rupture Disk on the Self-Ignition of High Pressurized Hydrogen Released Through a Tube (1023) <i>H.J. Lee, S.Y. Lee, B.J. Lee, I.S. Jeung</i>	Planar Blast Initiation of Detonations Using a Simplified Model (1116) <i>S.M. Lau-Chapdelaine, L.M. Faria, R. Rosales, M.I. Radulescu</i>	Flame-Wall Interaction in Premixed Reactive Turbulence (775) <i>P. Zhao, L. Wang, N. Chakraborty</i>	Extinction in Non-Premixed Ethanol Spray Flames Using Direct Numerical Simulation (1002) <i>J.C. Tang, H. Wang, E.R. Hawkes, M. Bolla</i>
16:50	Effect of Initial Laser Beam Diameter on Breakdown and Ignition Properties of n-Decane/Air (741) <i>S. Rudz, P. Gillard</i>	Modeling the Growth and Formation of Instabilities During Spherical Flame Propagation (4301) <i>C.R.L. Bauwens, J.M. Bergthorson, S.B. Dorofeev</i>	Comparison of Models Predicting the Mode of Ignition Behind Reflected Shock Waves in the Context of DDT (990) <i>L.R. Boeck</i>	3-D Flame Patterns in a Backward Facing Step Mesoscale Combustor for Non-Adiabatic Wall Conditions (857) <i>M. Malushte, S. Kumar</i>	Dynamic Pressure Characterization of a Dual-Mode Scramjet (1157) <i>C. Aguilera, A. Ghosh, K.H. Shin, K.H. Yu</i>
17:15	<p style="text-align: center;"><i>Free</i></p>	Numerical Modelling of Vented Lean Hydrogen–Air Deflagration Using Hyfoam (1093) <i>V.C.M. Rao, J.X. Wen</i>	<p style="text-align: center;"><i>Discussion Period</i></p>	Heat Flux and Flow Topology Statistics in Oblique Quenching of Turbulent Premixed Flames by Isothermal Inert Walls (939) <i>J. Lai, N. Chakraborty</i>	Development of a Multiscale Adaptive Reduced Chemistry Solver (MARCS) for Computationally Efficient Combustion Simulations (1081) <i>W. Sun, L. Wang, T. Grenga, Y. Ju</i>
17:40	Adjourn				

Tuesday

9:00	Plenary Lecture 2: Katharina Kohse-Hoeinghaus, Universität Bielefeld, Germany <i>Combustion Chemistry Developments Between Experiments, Modeling, and Theory</i> Metcalf Hall, Chair: S. Shy				
10:00	Coffee Break				
Room	Auditorium	Ballroom A	Ballroom B	East Balcony	Terrace Lounge
Topic	Chemical Kinetics and Reaction Dynamics 3 <i>Chairs: U. Riedel, A. Teodorczyk</i>	Turbulent Flames 1 <i>Chairs: J. Driscoll, H. Kobayashi</i>	DDT 1 <i>Chairs: L. Boeck, G. Ciccarelli</i>	Detonation Structure <i>Chairs: C. Chiquete, J. Kasahara</i>	Combustion Stability, Instabilities 1 <i>Chairs: E. Petersen, F. Williams</i>
10:30	Effect of CO₂ Dilution on the Burning Velocity of Equimolar Syngas Mixtures at Elevated Temperatures (1033) <i>R.J. Varghese, S. Kumar, H. Kolekar</i>	A New Measured Regime Diagram of Turbulent Premixed Combustion, Based on Images of Flame Structure (949) <i>A.W. Skiba, T.M. Wabel, J.F. Driscoll, C.D. Carter, S. Hammack</i>	Flame Acceleration and Deflagration-to-Detonation Transition Through an Array of Obstacles (1109) <i>H. Xiao, R.W. Houim, E.S. Oran</i>	On the Averaging Analysis for Unstable Detonations (1085/1134) <i>X. Mi, H.D. Ng, C.B. Kiyanda, A.J. Higgins, N. Nikiforakis</i>	The Origin and Evolution of Mechanical and Thermodynamic Disturbances Caused by Localized Energy Deposition in Gaseous Volumes (816) <i>D.R. Kassoy</i>
10:55	Influence of Microscopic Stochastic Properties on the Auto-Ignition of Hydrogen / Oxygen Mixture (1052) <i>C. Yang, Q. Sun</i>	Influence of Turbulence on the Propagation of C₇H₈/Air Flames at Atmospheric Pressure and Temperature (1058) <i>A. Lefebvre, M. Nait-Daoud, N. Chaumeix</i>	Flame - Shock Wave Dynamic Studies at DDT in Diluted Stoichiometric Acetylene-Oxygen Mixtures (959) <i>Y.A. Baranyshyn, P.N. Krivosheev, O.G. Penyazkov, K.L. Sevrouk</i>	Structure of Detonation Propagating in Lean and Rich Dimethyl Ether-Oxygen Mixtures (870) <i>R. Mével</i>	Subcritical Thermoacoustic Bifurcation in Turbulent Combustors: Effects of Inertia (828) <i>G. Bonciolini, D. Ebi, E. Boujo, N. Noiray</i>
11:20	Reduced Order Models for Shock-Induced Combustion of Fuel Mixtures (982) <i>D.A. Schwer, K. Kailasanath</i>	Combustion and Emission Characteristics of Premixed and Non-Premixed Ammonia/Air Turbulent Swirl Flames at the High Pressure and Temperature (997) <i>K.D.K.A. Somarathne, A. Hayakawa, H. Kobayashi</i>	Stages of Flame Acceleration and Detonation Transition in a Thin Channel Filled with Stoichiometric Ethylene/Oxygen Mixture (1017) <i>H.P. Chan, M.H. Wu</i>	Influence of Water Sprays on a Multi-Cellular Regular Detonation (1041) <i>G. Jarsalé, F. Viot, A. Chinnayya</i>	The Effects of Lewis Number on the Combustion Limit, Near-Limit Extinction Boundary, and Flame Regimes of Low-Lewis-Number Counterflow Flames Under Microgravity (904) <i>T. Okuno, H. Nakamura, T. Tezuka, S. Hasegawa, M. Kikuchi, K. Maruta</i>
11:45	Laminar Burning Velocities of Spherically Expanding Hydrogen/Air Mixtures for Temperatures Up to 423K at Ambient Pressure (1175) <i>J. Beeckmann, H. Pitsch</i>	Fuel Similarity and Turbulent Burning Velocities of Stoichiometric Iso-Octane, Lean Hydrogen, and Lean Propane at High Pressure (1176) <i>M. Nguyen, L. Jiang, S. Shy</i>	Cylindrical Flame Acceleration and Deflagration-to-Detonation Transition in Confinement Space (792) <i>W. Han, N. Du, Z. Liu, W. Kong</i>	<i>Free</i>	On the Effect of Pressure on Intrinsic Flame Instabilities in Lean Hydrogen-Air Mixtures – Part I: Detailed Chemistry Based Direct Numerical Simulation (765) <i>J. Hasslberger, P. Katzy, T. Sattelmayer</i>
12:10	Lunch				

Topic	Fire Dynamics <i>Chairs: C.R. Bauwens, C. Proust</i>	Turbulent Flames 2 <i>Chairs: H. Kobayashi, S. Shy</i>	Detonation Initiation <i>Chairs: M. Ihme, P. Vidal</i>	Detonation Limits <i>Chairs: C. Chiquete, J. Kasahara</i>	Combustion Stability, Instabilities 2 <i>Chairs: E. Pertersen, F. Williams</i>
13:50	Smoldering Spread Velocity Along a Thin Solid in a Narrow Channel (1005) <i>K. Kuwana, K. Suzuki, Y. Tada, G. Kushida</i>	Large Eddy Simulation of Supersonic H₂-O₂ Combustion (915) <i>U. Guven, G. Ribert</i>	Numerical Simulation of Detonation Initiation by Shock-Multiple Discrete Flames Interaction (1059) <i>A.L. Gunter, H.D. Ng, C.B. Kiyanda, K.C.T. Yuk, X.C. Mi, N. Nikiforakis</i>	Nonlinear Dynamics of Gaseous Detonations with Losses (1042) <i>A. Sow, A. Kasimov, R. Semenko</i>	Experimental Study of the Head-on Interaction of a Shock Wave with a Cellular Flame (1131) <i>M. la Flèche, Q. Xiao, Y. Wang, M.I. Radulescu</i>
14:15	The Critical Conditions for the Onset of Pool-Fire Puffing (993) <i>W. Coenen, D. Moreno-Boza, A.L. Sánchez</i>	Dependence of Limiting Oxygen Index of Buoyant Turbulent Diffusion Flame on Fuel (1074) <i>D. Zeng, Y. Wang</i>	Growth to Detonation in Hexanitrostilbene (HNS) (983) <i>J.D. Olles, R.R. Wixom, R. Knepper, A.S. Tappan, C.D. Yarrington</i>	A Study on Suppression of Detonation Propagation by Inert Gas Injection (1031) <i>K. Ishii, K. Seki</i>	On the Effect of Pressure on Intrinsic Flame Instabilities in Lean Hydrogen-Air Mixtures – Part II: Experimental Investigation Based on OH-PLIF Technique (764) <i>P. Katzy, J. Hasslberger, T. Sattelmayer</i>
14:40	Horizontal Flame Spread Along a Thin Paper-Disk in a Narrow Space (1047) <i>T. Daitoku, T. Takahashi, T. Tsuruda</i>	The Reattachment Process of Turbulent Lifted Diffusion Jet Flames Induced by Repetitive D.C. Electric Pulse Discharges (1125) <i>T.W. Chang, H.Y. Li, T.S. Cheng, Y.C. Chao, M.H. Shen</i>	Effects of Disturbance on Direct Detonation Initiation in H₂/O₂/Ar Mixture (956) <i>Y. Wang, C. Qi, R. Deiterding, Z. Chen</i>	Effect of Spatial Inhomogeneities on the Propagation Limit of Gaseous Detonations (1129) <i>X. Mi, A.J. Higgins, H.D. Ng, C.B. Kiyanda, N. Nikiforakis</i>	Combustion Instability Prediction Using Minimal Experimental or Computational Data (1130) <i>S. Park, A. Ghosh, K. Yu</i>
15:05	Traveling Vortex in a Natural Convection Field (1011) <i>T. Tsuruda</i>	Combustion Characteristics of Transverse Hydrogen Jet in a Supersonic Compact Inlet/Combustor Model (858) <i>Z.W. Huang, G.Q. He, F. Qin, X.G. Wei, S. Wang</i>	<i>Free</i>	<i>Free</i>	Application of Dynamic Mode Decomposition for Stabilization of Reactive Flow in a Subscale Combustor with an Injector (754) <i>Y.J. Kim, G. Jourdain, C.H. Sohn</i>
15:30	Coffee Break				
15:30	Poster Session I (15:30 - 16:45) <i>Ziskind Lounge</i>				

Topic	Minimum Ignition Energies, Flammability Limits <i>Chairs: M. Beyer, F. Marra</i>	Explosion Safety 2 <i>Chairs: S. Dorofeev, I.S. Jeung</i>	The Current Status and Future Outlook on Gaseous Detonation Research 3 <i>Chairs: A. Higgins, H.D. Ng</i>	Dust Explosions 2 <i>Chairs: A. Kuhl, M. Liberman</i>	Reactive Systems 1 <i>Chairs: K. Ishii, J. Yao</i>
16:45	Evaluation of Flammability Limits of H₂/O₂ Mixtures in Conditions Relevant to Nuclear Waste Transportation: Pressure and Nitrogen Addition Effects. (1032) <i>N. Kouame, A. Comandini, M. Idir, P. Jean, C. Thomas, N. Chaumeix</i>	Understanding the Effect of Multiple Adjacent Vent Panels on Explosion Overpressures (4300) <i>C.R.L. Bauwens, S.B. Dorofeev</i>	Autoignition and Detonation Development From a Hot Spot in Hydrogen/Air Mixture (793) <i>Y. Gao, Z. Chen</i>	Potential Accelerating Effect of Thermal Radiation in Dust Flame Propagation : Some Experimental Evidence (1096) <i>C. Proust, R.B. Moussa, M. Guessasma, K. Saleh, J. Fortin</i>	The Inability of Heterogeneously Reacting Particles to Ignite Below a Critical Size (818) <i>M. Soo, S. Goroshin, J. Lightstone, D.L. Frost, J.M. Berghorson</i>
17:10	Effects of Composition Fluctuations on the Structure and Development of Laminar and Turbulent Flame Kernels (1043) <i>A. Er-raiy, Z. Bouali, A. Mura</i>	Re-Ignition by Hot Free Gas Jets A Parameter Study (1026) <i>F. Seitz, R. Schießl, D. Markus</i>	An Evaluation of Ignition Criteria Through State Classification and Detailed Simulation (1072) <i>K.P. Grogan, M. Ihme</i>	Flame Propagation in Nano-Metal Dust Explosions (768) <i>W. Gao, M. Bi, T. Mogi, R. Dobashi</i>	The Vaporization-Controlled Inertial Regime in Nonpremixed Counterflow Spray Combustion (1119) <i>J. Carpio, A. Linan, D. Martínez-Ruiz, A.L. Sánchez, F.A. Williams</i>
17:35	Effects of Fuel Stratification on Ignition Kernel Development and Minimum Ignition Energy (807) <i>Y. Wang, W. Han, Z. Chen</i>	Influence of Congestion on Vented Hydrogen Deflagrations in 20-Foot ISO Containers: Homogeneous Fuel-Air Mixtures (1120) <i>T. Skjold, H. Hisken, S. Lakshmipathy, G. Atanga, M. van Wingerden, K.L. Olsen, M.N. Holme, N.M. Turøy, M. Mykleby, K. van Wingerden</i>	The Role of Flame-Generated Turbulence in the Deflagration-to-Detonation Transition (1247) <i>A.Y. Poludnenko</i>	Investigation on the Diffraction of a Medium Scale Gaseous Deflagration Pressure Wave Behind a Protective Wall (1049) <i>L. Heudier, G. Lecocq, Y. Grégoire, C. Proust</i>	Propagation Limits of Flames in Binary-Fuel Mixtures (876) <i>J. Palecka, S. Goroshin, J.M. Berghorson, A.J. Higgins</i>
18:00	Adjourn				

Wednesday

9:00	Plenary Lecture 3: Hideaki Kobayashi, Tohoku University, Japan <i>Dynamics of Ammonia Combustion</i> Metcalf Hall, Chair: M. Short				
10:00	Coffee Break/Work in Progress Poster Session (10:00 - 13:00) Ziskind Lounge				
Room	Auditorium	Ballroom A	Ballroom B	East Balcony	Terrace Lounge
Topic	Explosions and Combustion in IC Engines Chairs: D. Dunn-Rankine, O. Penyazkov	Chemical Kinetics in Shock Tubes, in memory of Paul Roth Chairs: L. Bauwens	Detonation Engines 2 Chairs: A. Chinnayya, R. Zitoun	Detonation Boundary Interactions 2/ Detonation in Narrow Channels Chairs: A. Matsuo, X. Mi	Turbulent Reacting Flows 2 Chairs: A. Poludnenko, L. Vervisch
10:30	Direct Numerical Simulation of Two-Stage Combustion and Flame Stabilisation in Diesel Engine-Relevant Conditions (1143) D. Dalakoti, E.R. Hawkes, M.S. Day, J.B. Bell	<i>The Contributions of Paul Roth in the Field of Dynamics and Explosions of Reactive Systems</i>	Rotating Detonation Wave Mechanics Through Ethylene-Air Mixtures in Hollow Combustors, and Implications to High Frequency Combustion Instabilities (992) V. Anand, A.S. George, C.F. de Luzan, E. Gutmark	Interaction of a Condensed-Phase Explosive Detonation with a Compliant Boundary (988) J.B. Bdzil, M. Short, C. Chiquete	Two-Dimensional Numerical Analysis on Shock Flame Interaction in Premixed Gas of Hydrocarbon/Oxygen with Multi-Step Reaction Model (1050) M. Iwai, K. Yoshida, Y. Morii, N. Tsuboi, A.K. Hayashi
10:55	Shock Wave and Flame Front Induced Detonation in Rapid Compression Machine (995) Y. Wang, S. Xiang, Y. Qi, R. Mével, Z. Wang	Ignition Delay Time Study of Aromatic LIF Tracers in a Wide Temperature and Pressure Range (795) J. Herzler, M. Fikri, C. Schulz	Experimental Observations of Semi-Confined Steadily-Rotating Detonation (1084) V. Rodriguez, P. Vidal, R. Zitoun	Detonation Propagation in a Linear Channel with Discrete Injectors and Side Relief (1107) J.R. Burr, K.H. Yu	Experimental Investigation on the Flame Wrinkle Fluctuation Under External Acoustic Excitation (978) L. Zheng, S. Ji, Y. Zhang
11:20	Effects of Fuel/Air Mixture Distribution on End-Gas Autoignition and Pressure Wave Generations in Knocking Combustion (1008) T. Satoh, H. Terashima, N. Oshima	High Speed Imaging of Inhomogeneous Ignition in a Shock Tube (1004) A.M. Tulgestke, S.E. Johnson, D.F. Davidson, R.K. Hanson	3D Numerical Study on Continuous Detonation Engine Using Reactive Navier-Stokes Equations (1066) L. Zhang, S. Zhang, J. Wang	Hydrogen-Oxygen-Argon Detonation Diffraction in a Narrow Channel (922) R. Mével, Q. Xiao, M.I. Radulescu	Sub-Grid Scale Modeling of the Equation of State for Fully Compressible Combustion LES (931) G. Ribert, P. Domingo, L. Vervisch

11:45	Autoignition of End Gas in a Rapid Compression Machine Under Super Knock Conditions (929) <i>Y. Qi, Y. Wang, H. Liu, J. Wang, Z. Wang</i>	Experimental Study of Nitromethane Oxidation: CO and H₂O Time-Histories Behind Reflected Shock Waves (911) <i>O. Mathieu, C. Mulvihill, E. Petersen</i>	Detonation Regimes in a Small-Scale RDE (1037) <i>S. Hansmetzger, R. Zitoun, P. Vidal</i>	Experimental Study on Behavior of Methane/Oxygen Gas Detonation Near Propagation Limit in Small Diameter Tube: Effects of Equivalent Ratio (822) <i>K. Yoshida, T. Inoue, Y. Morii, K. Murakami, N. Tsuboi, A.K. Hayashi</i>	Reaction Front Characterization in Turbulent Combustion Based on Entropy Production Field Curvature (1187) <i>R. Schießl, V. Bykov</i>
12:10	Measurement of the Carcinogenic Polyaromatic Compounds in the Exhaust Gases of a Gasoline Internal Combustion Engine (909) <i>M.S. Assad, O.G. Penyazkov, I.N. Tarasenko</i>	Combustion Properties of n-Heptane/Hydrogen Mixtures (1045) <i>A. Comandini, K. Brialix, N. Chaumeix, J. MacLean, G. Ciccarelli</i>	Baffled Tube Ram Accelerator Combustion (1117) <i>C. Knowlen, T. Byrd, J. Dumas, N. Daneshvaran, A.P. Bruckner, A.J. Higgins</i>	Detonation Limits in Highly Argon Diluted Acetylene-Oxygen Mixtures (802) <i>B. Zhang</i>	Effect of Asymmetric Fuel Injection on the Combustion Characteristics of Liquid Fuel Fired Flameless Combustor (924) <i>S. Sharma, H. Pingulkar, A. Chowdhury, S. Kumar</i>
12:35	Lunch				
14:00	Excursion				
21:00	Adjourn				

Thursday

Room	Auditorium	Ballroom A	Ballroom B	East Balcony	Terrace Lounge
Topic	Memories of Toshi Fujiwara: Kindness, Splendor, and Physics <i>Chairs: A.K. Hayashi, A. Matsuo</i>	Laminar Flames 3 <i>Chairs: F. Halter, H. Im</i>	DDT 2 <i>Chairs: L. Boeck, G. Ciccarelli</i>	Diagnostics, Sensoring 1 <i>Chairs: R. Schießl, S.Y. Yang</i>	Reactive Systems 2 <i>Chairs: D. Dunn-Rankin, K. Ishii</i>
9:00	Numerical Analysis on Liquid JP10 Rotating Detonation Engine (1003) <i>A.K. Hayashi, W. Yoshida, M. Asahara, N. Tsuboi</i>	Effect of Multi-Component Transport Model on Soot Prediction in Opposed-Jet Ethylene Diffusion Flames (1044) <i>A. Borg, H. Lehtiniemi, F. Mauss</i>	Effect of Surface Roughness on Deflagration-to-Detonation Transition in Submillimeter Channels (1067) <i>R.W. Houim, E. Oran</i>	High Speed PIV of Flame Propagation in Obstructed Channels (1070) <i>T. Li, R.P. Lindstedt</i>	Near-Structure Air Blast Simulations Using Zapotec, A Coupling of CTH and Sierra/SM (1094) <i>A. Gullerud</i>
9:25	Memories of Toshi Fujiwara <i>E. Oran, J.H.S. Lee, J.P. Wang</i>	Impact of Acoustic Excitation Frequency on Laminar Premixed Flame (979) <i>L. Zheng, S. Ji, Y. Zhang</i>	Deflagration-To-Detonation Transition in an Unconfined Space (759) <i>A. Koksharov, V. Bykov, L. Kagan, G. Sivashinsky</i>	Experimental Assessment of the Displacement and Consumption Speeds in Flame/Vortex Interactions (1038) <i>F. Thiesset, F. Halter, C. Bariki, C. Lapeyre, C. Chauveau, I. Gokalp, L. Selle, T. Poinsot</i>	Raman Study of Structural Change in 1,3,5-Triamino-2,4,6-Trinitrobenzene Under Non-Hydrostatic Pressure (903) <i>X. Sun, C. Gao, Z. Sui, R. Dai, Z. Wang, X. Zheng, Z. Zhang</i>
9:50	Modelling Mixing Near HE-Air Interfaces in Explosions (937) <i>A.L. Kuhl, D. Grote, J.B. Bell, V.E. Beckner</i>	Elevated Temperature Effects on Laminar Burning Velocity Temperature Exponent of Liquid Fuels (1012) <i>A. Katoch, R. Kumar, S. Kumar</i>	Propagation Mechanism of Detonations in Rough Walled Tube (1000) <i>J. Li, J. Ning</i>	Extinction Measurements of Soot Particles in a Diffusion Flame When Submitted to a DC Electric Field (1015) <i>P. Gillon, V. Gilard, M. Idir, B. Sarh</i>	Porous Wall Fed Liquid Fuel Nonpremixed Swirl-Type Tubular Flames (1114) <i>V.M. Sauer, D. Dunn-Rankin</i>
10:15	Memories of Toshi Fujiwara <i>P. Wolanski, A. Matsuo</i>	Effects of Applied Electric Fields on Liftoff Height in Laminar Lifted Coflow-Jet Flames (976) <i>B.H. Seo, K.H. Van, G.T. Kim, N.P. Sapkal, O. Kwon, J. Park, S.H. Chung</i>	<i>Free</i>	High Speed PIV Analysis of the Combustion Regimes During Autoignition of Homogeneous Fuel - Air Mixtures in a RCM (1124) <i>C. Strozzi, A. Delicourt, M. Bellenoue, J. Sotton</i>	Behavior of Explosive Bubbles Behind an Underwater Shock Wave (1024) <i>N. Watanabe, K. Ishii</i>
10:40	Coffee Break				

Topic	Chemical Kinetics and Reaction Dynamics 4 <i>Chairs: M. Fikri, A. Teodorczyk</i>	Turbulent Flames 3 <i>Chairs: P. Domingo, F. Halter</i>	Detonation Engines 3 <i>Chairs: S. Jackson, J. Yoh</i>	Detonation Propagation <i>Chairs: A. Kasimov, M. Radulescu</i>	Turbulent Reacting Flows 3 <i>Chairs: U. Maas, G. Ribert</i>
11:10	Reduction of Detailed Chemical Mechanisms by Entropy Production Analysis in the Presence of Irreversible Reactions (1055) <i>L. Acampora, M. Kooshkbaghi, C.E. Frouzakis, F.S. Marra</i>	Combustion in a High-Swirl Turbulent Jet Undergoing Vortex Breakdown. Investigation by PIV and HCHO PLIF (1159) <i>L.M. Chikishev, V.M. Dulin, A.S. Lobasov, D.M. Markovich</i>	Small Size Rotating Detonation Engine: Scaling and Minimum Mass Flow Rate (1133) <i>C.B. Kiyanda, S. Connolly-Boutin, V. Joseph, X. Mi, H.D. Ng, A.J. Higgins</i>	Visualization of Detonation Propagation in a Round Tube Equipped with Orifice Plates (1091) <i>G. Rainsford, G. Ciccarelli</i>	Direct Numerical Simulations of Shock-Scalar Mixing Interaction (883) <i>R. Boukharfane, Z. Bouali, A. Mura</i>
11:35	On the Dynamics of Ignition Process Behind Reflected Shock Waves Under the Influence of Bifurcation (774) <i>O. Pryor, S. Barak, E. Ninnemann, S. Vasu</i>	Experimental Measurements of Turbulent Burning Velocity in Gas Explosions with Two Obstacles of Variable Spacing: Implication to Gas Explosion Scaling (1156) <i>A. Na'inna, H. Phylaktou, G. Andrews</i>	Experimental Study on a Rotating Detonation Turbine Engine with an Axial Turbine (1080) <i>H. Rhee, C. Ishiyama, J. Higashi, K. Akira, K. Matsuoka, J. Kasahara, A. Matsuo, I. Funaki</i>	Single-Head Detonation Propagation in a Partially Obstructed Square Channel (1135) <i>M. Kellenberger, G. Ciccarelli</i>	High-Order Numerics for Simulating Turbulent Deflagration Fronts Over Coarse Meshes (980) <i>E. Bossennec, G. Lodato, L. Vervisch</i>
12:00	Effects of Variation in Sample Mass, Gas Flow and Lid on Chemical Reactions During STA Measurements (1068) <i>D. Lázaro, M. Lázaro, A. Alonso, D. Alvear</i>	Disturbance Energy Analysis of Turbulent Swirling Premixed Flame in a Cuboid Combustor (1001) <i>K. Aoki, M. Shimura, Y. Minamoto, M. Tanahashi</i>	Spectra Signals of Gas Pressure Pulsations in Nozzles (769) <i>V.A. Levin, N.E. Afonina, V. G. Gromov, I.S. Manuylovich, A.N. Khmelevsky, V.V. Markov</i>	Detonation Propagation in Rough Tube (991) <i>Y. Liu, J.H. Lee, H. Tan</i>	Fully-Implicit Density-Based Algorithms for Simulations of Arbitrary Gas Mixtures (1090) <i>L. di Mare, F. Wang, F. Ferraro, F. di Mare</i>
12:25	Lunch				

Topic	Ignition 2 <i>Chairs: S. Coronel, J. Melguizo-Gavilanes</i>	Explosion Safety 3 <i>Chairs: C. Proust, J. Wen</i>	DDT 3 <i>Chairs: M. Ihme, A. Kasimov</i>	Detonation Diffraction 1 <i>Chairs: A. Matsuo, X. Mi</i>	Combustion Stability, Instabilities 3 <i>Chairs: V. Bykov, G. Ribert</i>
13:50	Effect of Low Initial Pressures on Ignition Properties of Lean n-Decane/Air Mixtures for Laser Induced Breakdown (932) <i>S. Rudz, P. Tadini, F. Berthet, P. Gillard</i>	Evaluation of Engineering Models for Vented Lean Hydrogen Deflagrations (1111) <i>A. Sinha, V.C.M. Rao, J.X. Wen</i>	Deflagration-To-Detonation Transition for Hydrogen-Enriched Air Mixtures Through Pressure Wave Focusing in Pipes (968) <i>S. Bengoechea, J. Gray, J. Reiss, J. Moeck, C. Paschereit, J. Sesterhenn</i>	Propagation Characteristics of 2H₂/O₂/2Ar Detonations in Channels with Constant Area Divergence (1110) <i>Q. Xiao, J. Chang, M. la Fleche, Y. Wang, M.I. Radulescu</i>	Effects of External Heating on Flame Stability in A Micro Porous Combustor Fueled with Heptane (944) <i>J. Li, X. Chen, M. Feng, R. Yao, N. Wang</i>
14:15	Thermomechanics of Laser-Induced Shock Waves in Combustible Mixtures (1108) <i>N.D. Peters, D.M. Coombs, B. Akih-Kumgeh</i>	The Essential Role of Science in Explosives Safety (1099) <i>C.B. Skidmore, K.A. Fleming</i>	Numerical Study on Effects of Obstacle Shape on Detonation Transition Mechanism (1027) <i>A. Ago, T. Niibo, N. Tsuboi, A.K. Hayashi</i>	Propagation of a Detonation in a Converging Conical Channel (984) <i>I.H. Hung, J.H. Lee</i>	Tomographic Visualization of Thermo-Diffusive Instabilities of Lean Hydrogen/Air Mixtures (1036) <i>J. Goulier, N. Kouame, M. Idir, N. Chaumeix</i>
14:40	Direct Numerical Simulation of Ignition by Hot Moving Particles (1121) <i>T. Zirwes, F. Zhang, T. Häber, D. Roth, H. Bockhorn</i>	A Model to Account for the Effects of Friction During Explosive Pinch (1020) <i>R. Timms, R. Purvis, J.P. Curtis</i>	Quasi-Detonation in Matrix of Cylinders (1022) <i>P.N. Krivosheyev, A.O. Novitski, O.G. Penyazkov, K.L. Sevrouk</i>	Mechanism for Dynamical Stabilization of Detonation in Expanding Channels (791) <i>X. Cai, J. Liang, R. Deiterding, Z. Lin, S. Liu</i>	Edge Flame Dynamics - Assisting the Stabilization of Diffusion Flames in Mixing Layers (887) <i>Z. Lu, M. Matalon</i>
15:05	Coffee Break				
15:05	Poster Session II (15:05 - 16:20) <i>Ziskind Lounge</i>				

Topic	Energetic Materials 1 <i>Chairs: D. Frost, M. Hobbs</i>	Shock Tubes, Ignition Delay Times, Kinetics 1 <i>Chairs: U. Maas, E. Petersen</i>	Detonation Engines 4 <i>Chairs: R. Houim, C. Kiyanda</i>	Detonation Failure and Propagation <i>Chairs: K. Hayashi, R. Mével</i>	Reactive Systems 3 <i>Chairs: F. Marra, J. Yao</i>
16:20	Burning Characteristics of Aluminum-Air Flames (1054) <i>R. Lomba, F. Lespinasse, V. Lago, C. Chauveau, F. Halter</i>	Ignition Delay Times of Methane/Diethyl Ether Blends Measured in a Rapid Compression Machine (RCM) (812) <i>S. Drost, M. Werler, R. Schießl, U. Maas</i>	Numerical Investigation on the Behavior of Detonation Waves in a Disk-Shaped Rotating Combustor (1046) <i>Y. Sato, A. Matsuo, J. Higashi, C. Ishiyama, K. Matsuoka, J. Kasahara</i>	Detonation Failure in Stratified Layers - the Influence of Detonation Regularity (908) <i>A.V. Gaathaug, K. Vaagsaether, D. Bjerketvedt</i>	Calculation of Thermo-Chemical Equilibrium Using Phase Diagram Methods (1102) <i>A.E. Gheribi, J.J. Lee</i>
16:45	Spherically-Expanding Flames in Hybrid Aluminum-Methane-Oxidizer Mixtures at Atmospheric Pressure (799) <i>J. Vickery, P. Julien, S. Goroshin, J.M. Bergthorson, D.L. Frost</i>	Experimental and Numerical Study of the Ignition Delay Times of Primary Reference Fuels Containing Diethyl Ether (957) <i>M. Fikri, Y. Sakai, J. Herzler, C. Schulz</i>	Numerical Investigation on Detonation Behavior in a Disk-Shaped Rotating Detonation Combustor (1103) <i>Y. Kumazawa, A. Matsuo, S. Nakagami, K. Matsuoka, J. Kasahara</i>	Effect of Vertical Concentration Gradient on Detonation Behavior with Detailed Reaction Mechanism (776) <i>W. Han, W. Kong, N. Du, Z. Liu</i>	Turbulent Fuel Droplet Vaporization and the Initial Size Effect: Experimental Data at Elevated Temperature and Pressure (1076) <i>C. Verwey, M. Birouk</i>
17:10	Experimental Study on Effect of Large-Sized Granules in Powdery Explosives Under Drop-Weight Impact (948) <i>Y. Wu, H. Guo, F. Huang, X. Bao</i>	Ignition Delay Time Measurements of Sarin Surrogate (TEP, DMMP)-Based Mixtures in a Heated Shock Tube (1149) <i>O. Mathieu, W.D. Kulatilaka, E.L. Petersen</i>	A Numerical Study of H₂-Air Rotating Detonation Combustor (1097) <i>S. Yellapantula, V. Tangirala, K. Singh, J. Haynes</i>	Experimental Investigation of Detonation Failure and Re-Initiation in Non-Uniform Compositions (1013) <i>S. Boulal, P. Vidal, R. Zitoun, T. Matsumoto, A. Matsuo</i>	Numerical Investigation on the Initial Development of Layered Coal Dust Combustion (958) <i>K. Shimura, A. Matsuo</i>
17:35	<p style="text-align: center;"><i>Free</i></p>	Ethene / Dinitrogen Oxide - A Green Propellant to Substitute Hydrazine: Investigation on Its Ignition Delay Time and Laminar Flame Speed (1075) <i>C. Naumann, T. Kick, T. Methling, M. Braun-Unkhoff, U. Riedel</i>	Generation of Detonation in a Supersonic Flow of Combustible Mixture with Use of Bended Channel (1106) <i>V.A. Levin, I.S. Manuylovich, V.V. Markov</i>	Numerical Investigation of Detonation Failure in Non-Uniform Compositions and Comparison to Experiments (1030) <i>T. Matsumoto, S. Boulal, A. Matsuo, P. Vidal, R. Zitoun</i>	Impact of Water Mist on Chemical Reaction of Methane/Air/Water-Mist Premixed Flames (1035) <i>S. Nakanishi, Y. Ogami, M. Ito, T. Tsuruda</i>
18:00	Adjourn				

Friday					
Room	Auditorium	Ballroom A	Ballroom B	East Balcony	Terrace Lounge
Topic	Ignition 3 <i>Chairs: D. Markus, S. Shy</i>	Explosion Safety 4 <i>Chairs: T. Tsuruda, J. Wen</i>	Detonation Modeling <i>Chairs: C. Chiquete, M. Short</i>	Detonation Diffraction 2 <i>Chairs: K. Hayashi, R. Mével</i>	Spherical Explosions <i>Chairs: V. Bykov, R. Schießl</i>
9:00	Flame Speed Measurements in Turbulent Dispersions of Liquid Fuels (1064) <i>P.M. de Oliveira, T. Higuchi, P.M. Allison, E. Mastorakos</i>	Electrochemical Reaction Kinetics for CO-CO2 Electrochemical Conversion in the Nickel-Patterned Electrode (884) <i>Y. Luo, Y. Shi, W. Li, N. Cai</i>	Numerical Computation of Linear Stability of Detonations (914) <i>D.I. Kabanov, A.R. Kasimov</i>	Propagation Behavior of Diverging Cylindrical Detonation in Mixture with Reactivity Change (962) <i>T. Okada, A. Matsuo, J.H. Lee</i>	Effects of Endothermic Chain-Branching Reaction on Spherical Flame Initiation and Propagation (1007) <i>H. Li, H. Zhang, Z. Chen</i>
9:25	A Simulation of Ignition Thresholds for Low Voltage Electrical Contact Arcs in a Hydrogen-Air Mixture (910) <i>R. Shekhar, C. Uber, U. Gerlach</i>	Blast From Pressurized CO2 Released Into a Vented Chamber (826) <i>P.M. Hansen, A.V. Gaathaug, D. Bjerketvedt, K. Vaagsaether</i>	A Full Scale Hydrodynamic Simulation of Detonation and Deflagration in an Energetic Component System (892) <i>B. Kim, J.J. Yoh</i>	Prediction of the Critical Curvature for LX-17 with the Time of Arrival Data From DNS (1112) <i>J. Yao, L.E. Fried, W.C. Moss</i>	Dynamic Behavior of Spherically Expanding Flame of H2/Air/CO2 Mixture in a Closed Chamber (867) <i>T. Katsumi, K. Aiba, Y. Itakura, S. Kadowaki</i>
9:50	A Computational Study of the End Gas Autoignition and Shock Development by Flame Front and Local Hot Spot (1021) <i>A. Sow, B.J. Lee, H.G. Im</i>	Flame Spread Over Electrical Wires with Various Diameters Under Applied AC Electric Fields (943) <i>S.H. Park, S.J. Lim, J. Park, O.B. Kwon, O. Fujita, S.H. Chung</i>	<i>Free</i>	The Methods of Control of Stabilized Detonation Location in a Supersonic Gas Flow in a Plane Channel (781) <i>V.A. Levin, T.A. Zhuravskaya</i>	<i>Free</i>
10:15	Coffee Break				

Topic	Ignition 4 <i>Chairs: D. Markus, S. Shy</i>	Shock Tubes, Ignition Delay Times, Kinetics 2 <i>Chairs: J. Herzler, U. Maas</i>	DDT 4 <i>Chairs: R. Houim, P. Vidal</i>	Detonation in Non-Uniform Mixtures <i>Chairs: S. Jackson, M. Short</i>	Reactive Systems 4 <i>Chairs: H. Im, W. Sirignano</i>
10:45	Experimental Investigation of the Electrical Characteristics of Low-Voltage Contact-Arcs in Hydrogen-Air Mixture (907) <i>C. Uber, R. Shekhar, U. Gerlach</i>	Experimental Measurement of Ignition Delay Times of Thermally Cracked n-Decane in Shock Tube (788) <i>S. Pei, H. Wang, X. Zhang, S. Xu, L. Wang, G. Liu</i>	Exploration of Turbulence Driven Deflagration to Detonation of Fast Flames (1087) <i>J. Chambers, K. Ahmed, A. Poludnenko</i>	Self-Sustained Oblique Detonation in a Non-Uniform Mixture (1009) <i>K. Iwata, S. Nakaya, M. Tsue</i>	Measurements of Laminar Flame Speeds of Alternative Liquid Fuel Blends (825) <i>S.F. Samim, S. Ahmed</i>
11:10	A Rapid Compression Machine Study of n-Decane Ignition at Intermediate Temperatures (926) <i>V.V. Leschevich, O.G. Penyazkov, S.Y. Shimchenko</i>	Numerical Investigations of the Impact of Tailored Driver Gases and Driver Inserts on Shock Tube Flows (1118) <i>D.M. Coombs, B. Akih-Kumgeh</i>	The Influence of Turbulent Mixing on Deflagration to Detonation Transition (1078) <i>B. Maxwell, M.I. Radulescu, A.A. Pękalski</i>	Numerical Study of a Gaseous Detonation Propagation Across a Density Interface (987) <i>K.C.T. Yuk, X.C. Mi, J.H. Lee, H. Teng, H.D. Ng</i>	Diffusion Flame at High Pressure with Air and Water-Laden Methane (945) <i>A. Jorda, W.A. Sirignano</i>
11:35	Investigation of the Flame Kernel Propagation After Ignition by a Low Energy Electrical Discharge (1006) <i>S. Essmann, D. Markus, U. Maas</i>	Chemical Reaction Mechanisms Validation Based on Ignition Delay Time of C1-C5 Hydrocarbons (928) <i>W. Rudy, A. Jach, A.A. Pękalski, A. Teodorczyk</i>	Numerical Study of Deflagration-to-Detonation Transition in Homogenous and Inhomogeneous Hydrogen-Air Mixtures (834) <i>R.K. Azadboni, A. Heidari, L.R. Boeck, J.X. Wen</i>	Numerical Investigation on Characteristics of a Planar Detonation Wave Across Layers of Burned Gas (994) <i>N. Ohira, A. Matsuo, J. Kasahara, K. Matsuoka</i>	Modelling Mixing Near HE-Air Interfaces in Explosions (937) <i>A.L. Kuhl, D. Grote, J.B. Bell, V.E. Beckner</i>
12:00	Hot Surface Ignition Dynamics in Hydrogen-Air Mixtures Near the Flammability Limits (1100) <i>L.R. Boeck, J. Melguizo-Gavilanes, J.E. Shepherd</i>	<i>Free</i>	<i>Free</i>	Physical and Mathematical Modeling of Interaction of Detonation Waves in Mixtures of Hydrogen, Methane, Silane and Oxidizer with Clouds of Inert Micro- and Nanoparticles (750) <i>D.A. Tropin, A.V. Fedorov</i>	<i>Free</i>
12:25	Lunch				

Topic	Energetic Materials 2 <i>Chairs: D. Frost, C. Proust</i>	Dust Explosions 3 <i>Chairs: G. Ciccarelli, E. Oran</i>	Detonation Engines 5 <i>Chairs: A. Chinnayya, C. Kiyanda</i>	Diagnostics, Sensoring 2 <i>Chairs: R. Schießl, S.Y. Yang</i>	Reactive Systems 5 <i>Chairs: V. Bykov, U. Maas</i>
14:15	On Minimum Flash Ignition Energy of Energetic Igniter Using Aluminum Nanoparticles: Effects of 2D Interparticle Distances (1139) <i>J.Y. Yu, Y.P. Chan, Y.C. Hsu, Y.C. Chao</i>	Analysis of Dust Cloud Combustion Using High-Speed Infrared Imaging (913) <i>F. Marcotte, S. Savary, M.A. Gagnon, V. Morton</i>	Experimental Investigation on Delay Time of Continuously Detonation Engine (796) <i>X. Han, S. Zhang, Z. Ma, J. Wang</i>	Embedded Fiber Optic Sensors for Measuring Transient Detonation/Shock Behavior: Time-of-Arrival Detection and Waveform Determination (766) <i>M.A. Chavez, M.D. Willis, T.T. Covert</i>	A Computational Analysis of Autoignition of H₂/Air Mixture with Temperature Fluctuations Using Computational Singular Perturbation (923) <i>W. Song, E.A. Tingas, S.R. Lee, H.G. Im</i>
14:40	Experimental Investigations of Combustion Enhancement of HAN-Based Green Propellant with K₂CO₃-Activated Carbon (1063) <i>M.K. Atamanov, K. Hori, E. Aliyev, R. Amrousse, Z.A. Mansurov</i>	Dimensional Scaling for Propagation in Particulate Clouds with Lateral and Volumetric Losses (1126) <i>F. Lam, X. Mi, A.J. Higgins</i>	The Effect of Combustor Width on Continuous Rotating Detonation Wave Fueled by Ethylene (947) <i>H. Peng, W. Liu, S. Liu</i>	Possibility of Applying Flame Chemiluminescence and Ionization Current to the Combustion Status Monitoring (933) <i>Y. Ding, D. Durox, N. Darabiha, T. Schuller</i>	IR Absorption Measurements of the Velocity of a Premixed Hydrogen/Air Flame Propagating in an Obstacle-Laden Tube (1057) <i>R. Scarpa, E. Studer, B. Cariteau, S. Kudriakov, N. Chaumeix</i>
15:05	Development of Protection Recommendations for Warehouse Storage of Li-Ion Batteries (817) <i>B. Ditch</i>	Monitoring of a Dust Explosion in a 10 m³ Vessel (891) <i>Y. Grégoire, C. Proust, E. Leprette, D. Jamois</i>	Numerical Study of Reinitiation Phenomenon in Continuous Detonation Engine (898) <i>S. Yao, J. Wang</i>	Infrared Radiation Measurements at Failure of Mobile Gas Vessels (1034) <i>D. Krentel, M. Rudolph, R. Tschirschwitz, M. Kluge, E. Askar, K. Habib, H. Kohlhoff, G. Mair, P.P. Neumann, B. Schalaus, A. Schoppa, S.U. Storm, M. Szczepaniak</i>	Study on Low Temperature Oxidation with a Separated Cool Flame of n-Heptane in a Micro Flow Reactor with a Controlled Temperature Profile (920) <i>R. Tatsumi, H. Nakamura, S. Hasegawa, T. Tezuka, K. Maruta</i>
15:30	<i>Free</i>	<i>Free</i>	Effects of Pre-Ignition Conditions on Continuous Detonation Engine (886) <i>S. Yao, S. Zhang, J. Wang</i>	<i>Free</i>	<i>Free</i>
16:00	Friday Farewell				
18:00	Adjourn				