

Sunday					
17:00 - 20:00	Welcome Reception Tabaret (TBT) 112				
Monday					
08:30	Welcome				
09:00	Plenary Lecture: Kareem Ahmed, University of Central Florida, USA Detonations from hypersonic propulsion engines to exploding stars <i>C140</i>				
Room	C309	C307	C140	C308	C240
Set M1	Low carbon fuels 1 (4)	Ignition 1 - shock tubes (4)	Models - stability (4)	DDT 1 (4)	Detonation engines 1 - injection (4)
Set M2	Propellants 1 (4)	Optical diagnostics - kinetics 1 (4)	Liquid phase detonation (4)	DDT 2 (4)	Detonation engines 2 - disk shape(4)
Set M3	Carbon free fuels - metals (5)	Ignition 2 - characteristics (4)	Liquid phase detonation (5)	Explosions (4)	Detonation engines 3 - cooling and heat transfer (5)
Tuesday					
08:30	Plenary Lecture: Pascale Domingo, CORIA-CNRS, France Fast and capricious: combustion at high speed <i>C140</i>				
Room	C309	C307	C140	C308	C240
Set T1	Low carbon fuels 2 (4)	Kinetics modeling 2 (5)	Narrow detonations (5)	DDT 4 (4)	Detonation engines 4 - numerical (5)
Set T2	Propellants 2 (4)	Flame front structure and instabilities 1 (3)	Diffusive effects in detonations (4)	DDT 5 (4)	Detonation engines 5 - numerical (3)
Set T3	Propellants 3 (3)	Turbulent combustion (4)	Diffusive effects in detonations (4)	DDT 6 (3)	Detonation engines 6 (3)
Wednesday					
Room	C309	C307	C140	C308	C240
Set W1	Carbon Free Fuels - Ammonia 1 (4)	Flame propagation 1 (4)	Detonation numerical (4)	Curved and divergent detonation (4)	Detonation engines 7 - numerical (4)
Set W2	Battery Kinetics and Safety 1 (3)	Flame propagation 2 (4)	Detonation (re)initiation 1 (4)	Condensed-Phase Detonation (4)	Detonation engines 8 (2)
Thursday					
08:30	Plenary Lecture: Aamir Farooq, KAUST, Saudi Arabia New perspectives on multi-mode and multi-scale shockwave dynamics <i>C140</i>				
Room	C309	C307	C140	C308	C240
Set R1	Application of deep/machine learning to reactive systems (4)	Flame behavior and instabilities (4)	Non-equilibrium effets in detonations (5)	Double cellular structure and inhibition (4)	Detonation engines 9 / Oblique (5)
Set R2	Carbon Free Fuels - Ammonia 2 (3)	Flame ignition (4)	Non-equilibrium effets in detonations (4)	Detonation (re)initiation 2 (4)	Scramjets / ramjets 1 (4)
Set R3	Battery Kinetics and Safety 2 (3)	DDT 3 (3)	Flame front structure and instabilities 2 (3)	Dust flames and explosions (3)	Imploding / jet detonation (3)
Friday					
08:30	Plenary Lecture: Andrzej Pekalski, Shell U.K. Learnings and advancements in understanding Vapour cloud explosions since Buncefield accident <i>C140</i>				
Room	C309	C307	C140	C308	C240
Set F1	Laser diagnostics - kinetics 3 (4)	Carbon Free Fuels - safety (4)	Detonation cell size (5)	Detonation structure (4)	Scramjets / ramjets 2 (2)
					Fire dynamics (2)
Set F2				Detonation (numerical) (4)	Propellants 4 (3)

**Monday**

08:30	WELCOME				
09:00	Plenary Lecture: Kareem Ahmed, University of Central Florida, USA Detonations from hypersonic propulsion engines to exploding stars <i>C140</i>				
10:00	COFFEE BREAK 20 min				
Room	C309	C307	C140	C308	C240
Set M1	Low carbon fuels 1	Ignition 1 - shock tubes	Models - stability	DDT 1	Detonation Engine 1 (injection)
10:20	Visualization of Internal Structural Changes during Transient Pyrolysis of Wood Containing Ammonium Nitrate (14) <i>T. Daitoku*, T. Tsuruda, T. Kinugasa</i>	Challenges Associated with Shock-Tube Ignition Experiments in Undiluted Oxygen Environments (44) <i>M. Sandberg*, E. Petersen</i>	News from the Chapman-Jouguet detonation front: A Velocity-Entropy Invariance theorem (172) <i>P. Vidal*, R. Zitoun</i>	Transition to detonation due to shock focusing in C2H6-air mixtures (28) <i>W. Rudy*, A. Pekalski</i>	High-Speed Schlieren Imaging of Rotating Detonation Engine Fuel Injection During Operation (58) <i>M. Stocke*, T. Wanstall, B. Sell, J. Hoke, M. Fotia</i>
10:45	Experimental study on the effects of turbulence and ambient composition on butanol droplet evaporation (57) <i>P. Cheung, A. Arabkhajal, M. Birouk*</i>	Large Eddy Simulations of Remote Ignition in Methane/Air mixtures behind Reflected Shock Waves (204) <i>T.A. Kashif*, J. Subburaj, A. Farooq</i>	Effect of Curvature on the Neutral Stability Boundary for Cellular Gaseous Detonations (264) <i>M. Short*, S. Voelkel, C. Chiquete</i>	Flame morphology during acceleration in unobstructed channels: effect of fundamental combustion properties (61) <i>C. Mejia-Batero, J. Melguzo-Gavilanes*, L.F. Figueira da Silva, F. Virot</i>	Design of a Premixed Rotating Detonation Engine with a Porous Injector (60) <i>Y. Koyama*, N. Suto, K. Matsuoka, N. Itouyama, A. Kawasaki, H. Watanabe, J. Kasahara, Y. Ide</i>
11:10	Effects of Equivalence Ratio on the Fire Characteristics of Hydroprocessed Esters and Fatty Acids derived Sustainable Aviation Fuel for Aeronautical Application (108) <i>A.M. Raji*, B. Manescu, K. Chetehoua, L. Lamoot</i>	Changes in Ignition Behavior of Aged Fuels and Lubricants Behind Reflected Shock Waves (134) <i>R. Juarez*, A. Lira, M. Abulail, E. L. Petersen</i>	Stabilizing Effects of Real Gas for Cellular Detonations (12) <i>Z. Weng, R. Mevel*, Z. Ren, S. Shuai</i>	Suppression of Deflagration-to-Detonation Transition by Sintered Wire Mesh (67) <i>K. Kashiro*, K. Ishii</i>	Experimental Research of the Effect of the Slit on the Coupled Rotating Detonation Engine (91) <i>A. Nakama Akihito*, S. Inamori, N. Itouyama, K. Matsuoka, M. Yasui, J. Kasahara, A. Matsuo, I. Funaki, H. Tanno</i>
11:35	Thermal Properties of Some African Tropical Woods: Okoume, Bilinga, Movingui, Ozigo and Nove and their Potential as Biofuel Feedstocks (109) <i>A.M. Raji*, B. Manescu, K. Chetehoua, S. Ekomy Ango</i>	Ignition Behavior of Hydrogen in the Presence of Lube Oil Behind Reflected Shock Waves (209) <i>M. Adil*, J. Subburaj, T. Kashif, T. F. Hong, E. Cenker, A. S. Ramadan, A. Farooq</i>	Decay of Shock Perturbations: A Geometrical Shock Dynamics Study (267) <i>A. Sow*, Y. Amor, M. I. Radulescu</i>	DDT Induction Distance Measurements for Methane/hydrogen/oxygen (211) <i>T. Elia*, G. Ciccarelli</i>	Effect of Injector Arrangement in Disk-type Rotating Detonation Engine (270) <i>M. Mizota*, S. Yamazaki, S. Matsuzono, E. Dzieminska</i>
LUNCH 1 h 30					
Set M2	Propellants 1	Optical diagnostics - kinetics 1	Liquid phase detonation 1	DDT 2	Detonation Engine 2 (Disk type +)
13:30	Effects of an Fe-Based MOF Additive on the Burning Rate of AP/HTPB Composite Propellants (43) <i>J. Pantoya*, E. Petersen, T. Swindell</i>	Towards the Development of an IR Spectra-Based Approach for Characterizing Fuel Combustion Behavior (19) <i>P. Biswas*, V. Boddapati, A. Klingberg, H. Wang, R. K. Hanson</i>	A 1D Lagrangian scheme on NASG stiffened medium model with varying cross-section area (188) <i>W. Wang*, M. I. Radulescu</i>	The influence of nitrogen dilution level in stoichiometric H2-O2 mixture on the transition to detonation in a 90-deg wedge (130) <i>W. Rudy*, A. Teodorczyk</i>	Effects of Exhaust Dilution in a Disk-shaped Pressure Gain Combustor (29) <i>A. Lim*, P.H. Chua, X. Huang, Z.W. Teo, J.-M. Li, C.J. Teo, B.C. Khoo</i>
13:55	Influence of Triphenylphosphine-Coated Aluminum Nanoparticles on the Combustion Dynamics of Al/CuO Nanothermites Mesh in Confined Spaces (129) <i>X.-R. Lu, M.-H. Wu*, Y.-S. Cheng, C.-W. Huang</i>	Laser Absorption Measurements of H35Cl in a Shock Tube for Investigating the Chemical Kinetics of Rocket Propellants (31) <i>C. Gregoire*, E. L. Petersen</i>	Decane droplet combustion onset in air behind a Mach 5.3 shock wave (201) <i>F. Virot*, A. Claverie</i>	Detonation Propagation over a Surface of Water in Oxyhydrogen Mixture (146) <i>S. Mall*, E. Dzieminska</i>	Experimental Investigation of the Effects of Geometry on the Performance Characteristics of the Disk-shaped Pressure Gain Combustor (30) <i>P.H. Chua*, A. Lim, Z.W.A. Teo, X. Huang, J.-M. Li, C.J. Teo, B.C. Khoo</i>
14:20	Laser Ignition of Al-Mo-O Thermites (245) <i>S. Riel*, A. Higgins, F. Kelly, J. Loiseau</i>	Experimental Investigation of Liquid Fuel Autoignition: Insights from Advanced Optical Diagnostics (159) <i>C. Fouchier*, J. Shepherd</i>	Shock-induced breakup of liquid fuel jet: a coupled momentum and energy transfer theory (223) <i>A. Jayaraman*, N. Kateris, E. Genter, H. Wang</i>	The Role of Perturbations on the Shock-Flame Complex Leading to Detonation (205) <i>S. Miri*, K. Cheevers, H. Yang, R. Murugesan, V. Premnath, D. Rajagopalan Kannan, J. Jeevaraman, B. Maxwell, M. Radulescu</i>	Symmetric Square Lattice Injector Pattern Design and Testing for a Bi-Propellant Rotating Detonation Engine (142) <i>V. Joseph*, J. Kasahara, K. Matsuoka, N. Itouyama, M. Yasui, Y. Ide, A. Matsuo, I. Funaki, K. Higashino</i>
14:45	Effect of metal and metal hydride additives on combustion characteristics of composite solid propellants (144) <i>R. K. Deepachanthiran*, K. Gnanaprakash</i>	Ignition delay time and multi-speciation measurements of ammonia/C1 mixtures in shock tube (103) <i>N. Farzana *, B. Shu, H. Karas; M. Li, S. Agarwal, R. Fernandes, D. Zhu</i>	Unsteady Effects on Pathological Droplet-fueled Detonations (233) <i>R. Hernández Sánchez*, J. Carpio Huertas, D. Martínez Ruiz, C. Huete</i>	Fast-Flame to Detonation Transition in a Round Tube (207) <i>M. Moran*, G. Ciccarelli</i>	Operational Characteristics and Performance of the Disk-RDRE (183) <i>K.-H. Lee*, M.-S. Jo, G.-U. Mo, S.-W. Choi, B.-K. Sung, J.-Y. Choi</i>
COFFEE BREAK 20 min					
Set M3	Carbon free fuels - metals	Ignition 2 - characteristics	Liquid phase detonation 2	Explosions	Detonation Engine 3 (Cooling and heat transfer)
15:30	Ignition mechanisms of aluminum particles in hydrocarbon products (45) <i>D. Keo*, P. Graumer, C. Chauveau, S. Courtiaud, F. Halter</i>	Numerical Studies on Minimum Ignition Energies of Lean Primary Reference Fuels at Elevated Pressure (136) <i>C. Wu*, R. Schießl, U. Maas</i>	Detonability and Propagation Limits of Spray Detonations in Jet Fuel-Air Mixtures (33) <i>S.S. Damatt*, A. Poludnenko</i>	Background oriented Schlieren measurements for pressure relief systems in the free field (6) <i>M. Gerbeit*, H. Seiber, D. Grasse, M. Donner, D. Krentel</i>	Experimental Study of Heat Transfer to Thin Wall in Water-Cooled Cylindrical Rotating Detonation Engine (92) <i>S. Inamori*, A. Nakamori, Y. Ide, N. Itouyama, K. Matsuoka, M. Yasui, J. Kasahara, A. Matsuo, I. Funaki, K. Higashino</i>
15:55	In-situ measurement of spectral emissivity of aluminum flame combustion products using saturated atomic lines (82) <i>E. Antar*, C. Wong, C. Heng, N. Chepel, S. Goroshin, J. Bergthorson</i>	Sustainable aviation fuels vs. Jet A1: experimental insights into laminar burning velocity and minimum ignition energy (152) <i>N. Hamamousse*, E. Brodu, C. Strozzi, B. Boust, J. Sotton, M. Bellenoue, C. Viguer</i>	Hydrodynamic Droplet Breakup Modeling in Liquid-Fueled Detonations (113) <i>S. Agee, M. Paudel, P. Ramaprabhu, J. McFarland*</i>	PDRFoam performance for flame acceleration in congested quiescent clouds (200) <i>J. Melguzo-Gavilanes*, A. Pekalski</i>	Film Cooling Implementation in Micro Rotating Detonation Combustor (101) <i>M. Tagliaferri*, A. Picchi, M. Polanka, A. Andreini, B. Facchini</i>
16:20	Characterization of the impact of oxygen concentration on the alumina cloud surrounding a burning aluminum droplet (90) <i>H. Keck*, C. Chauveau, G. Legros, S. Gallier, F. Halter, G. Dayma</i>	Experiments on Ignition Delay and Low Limit Boundary for RP-3 Kerosene (194) <i>S. Xu*, E. Liu, L. Zhang</i>	Theory and Canonical Experiment Development for Strong Shock-Induced Droplet Drag and Vaporization (115) <i>N. Kateris*, E. Genter, A. Jayaraman, H. Wang</i>	Explosive Characteristics of a Typical Li-ion battery Vent Gases with Inert Gas Addition (195) <i>A. Lindalen*, M. Henriksen, D. Bjerketvedt</i>	Impact of heat transfer on a 1 inch rotating detonation rocket engine (213) <i>D. Ramesh*, P. Meagher, X. Zhao</i>
16:45	Silicon energetic dust particles as carbon-free energy carriers (97) <i>H. Heng*, C. Mani, N. Chepel, K. Mangalvedhe, E. Antar, S. Goroshin, J. Bergthorson</i>	Study on the combustion characteristics of high temperature activation gas-solid binary fuel (169) <i>H. Wang*, W. Song, G. Song</i>	Experimental Investigation of Fuel Droplet Size Effects on Liquid Cloud Detonations (117) <i>T. Brown, R. Hytovick, K. Ahmed*</i>	Experimental and modeling study on the thermal response of vertical storage tanks with different filling levels (37) <i>X. Yu*, J. Bai, C. Zhu, R. Zong</i>	Regenerative Cooling Based Gasification of Liquid Reactants for Rotating Detonation Engine Operation (230) <i>R. Kalmanson*, C. Kiyananda, S. Connolly-Boutin</i>
17:10	Effect of heating process on the ignition behavior of fine iron particles—A theoretical analysis (112) <i>X. Mi*</i>		A real liquid Volume-of-fluid framework with evaporation dynamics (187) <i>L. Angelilli*, V. Raman</i>		Evaluation Method For The Non-ideal Heat Release Characteristics of the Rotating Detonation Combustor (110) <i>Y. Shi*, W. Dai, P. Zhao, H. Wen, B. Wang</i>
			Short discussion session : 15 min		

Tuesday					
08:30	Plenary Lecture: Pascale Domingo, CORIA-CNRS, France Fast and capricious: combustion at high speed C140				
09:30	COFFEE BREAK 20 min				
Room	C309	C307	C140	C308	C240
Set T1	Low carbon fuels 2		Kinetics modeling 2		Narrow detonations
09:50	Experimental investigation on biogas flame stability in laboratory coaxial burners and gas stoves (165) <i>M. Hassene, Y. Jery, B. Sarh, A.A. Yontar, H. H. El Bari, T. Boushaki*</i>		Reaction-Diffusion Manifolds (REDIMs) - gradient embedding approach (176) <i>S. Shashidharan*, R. Schiessl, V. Bykov, U. Maas</i>	Delayed autoignition in Propagating Detonations (263) <i>L. Berson*, R. Hytovick, R. Cideme, K. Ahmed</i>	Detonation Initiation Regimes of Shock-Flame Complexes in Fuel Blends of Hydrogen and Methane (154) <i>R. Murugesan*, S. Miri, H. Yang, K. Cheevers, V. Premnath, D.R. Kannan, J. Jeevarajan, M. Radulescu, B. Maxwell</i>
10:15	Experimental CO Time-History Study of the Pyrolysis of Pentan-1-ol, Neopentanol and 2-Methyl-butanol-1-ol in a Shock Tube (242) <i>M. Khan-Ghauri*, C. Gregoire, Z. Serinyel, O. Clement, G. Dayma, M. Di Teodoro, S. N. Elliott, C. Cavallotti, O. Mathieu, E. Petersen</i>		N2O Laser Absorption Measurements During Toluene/N2O Combustion (46) <i>O. Mathieu*, A. Bhattacharya, C. M. Grégoire, E. L. Petersen</i>	Lean detonability of hydrogen-oxygen mixtures in narrow channels (216) <i>T. Westenhofer*, B. Devine, X. Shi</i>	Collision Modes of Constant-Speed Planar Auto-Ignition waves (236) <i>L. Bonneau, V. Robin*. A. Chinnaya</i>
10:40	Gasification of Argan nut shell biomass in throated downdraft gasifier: Shapes of syngas laminar jet diffusion flame (265) <i>B. Sarh*, Y. Rahib, V. Belandria, T. Boushaki</i>		An Experimental and Kinetic Modeling Approach to a Martian Fuel Combustion (77) <i>N. Amirov, Z. Serinyel, F. Halter, F. Foucher, G. Dayma*</i>	Experimental study of hydrogen detonations in coaxial channels (71) <i>A. Poyet*, H. Watanabe, V. Rodriguez, A. Chinnaya</i>	Computational Investigation of Flame Acceleration and Transition to Detonation (250) <i>J. Jayachandran, N. Dexter-Brown*</i>
11:05	Pyrolysis of large biomass particles: model validation and application to Coffee Husks valorization (157) <i>M.M. Afessa*, A. Locaspi, P. Debiagi, A. Frassoldati, R. Caraccio, A.V. Ramaya, T. Faravelli</i>		Kinetics of soot formation from benzene pyrolysis (132) <i>T. Viola*, L. Carneiro, M. Idris, N. Chaumeix, A. Comandini</i>	Propagation limits of cellular detonation in narrow channels (256) <i>B. Devine*, T. Westenhofer, X. Shi</i>	Numerical Study on Hydrogen/Air DDT in a Large Scale Channel: physical and chemical models and initial and boundary conditions (269) <i>A.K. Hayashi*, I. Nakamori, T. Tomizuka, A. Takahashi, F. Onishi, M. Kuznetsov, T. Kodama, Y. Tamauchi, N. Satou</i>
11:30	Sensitivity of Reaction-Diffusion Manifolds (REDIMs) with respect to gradient estimates and boundary conditions (147) <i>V. Bykov*, U. Maas</i>		Scaling Analysis of Gaseous Detonation Limits in Tubes (189) <i>X. Zhang, M. Zeng, A. Chinnaya, W. Fan, Q. Xiao</i>	LUNCH 1 h 30	
11:55	Propellants 2				
13:25	Reaction Propagation in Fumed Silica Gelled HAN-Based Propellants (191) <i>Y.-J. Chen, I.-Y. Tsai, P.-F. Yang, M.-H. Wu*</i>		Spatially Resolved Measurements of 3D Cellular Structure of Premixed H2/O2/N2 Flames on a Porous-Plug Burner (104) <i>Z. Yan, X. Nie, S. Wang*</i>	The mean pressure evolution in detonation cells (259) <i>M.I. Radulescu, F. Zangene</i>	Modeling of Flame Acceleration and DDT in Open-Ended Channel with Homogeneous Premixed H2-Air Mixture (150) <i>P. Bosnic*, M. Henriksen, D. Bjerketvedt, K. Vaagsaether</i>
13:50	Burning characteristics of aluminium-magnesium blended hydro-reactive solid propellants (199) <i>P. Jain, R. K. Deepachanthiran, G. Kanagaraj*</i>		Multiphase Simulations of Hybrid Aluminum Particle-Propane Flames in a Hele-Shaw Cell (218) <i>J. Aguilera*, S. Bhalekar, R. W. Houim</i>	Heat Loss Effects on Thin-Channel Detonation Propagation in Hydrogen-Oxygen-Argon Mixtures (114) <i>B. Maxwell*, C. Schmitt, J. Smith</i>	Effect of Numerical Flame Resolution on the Acceleration History of a Premixed Hydrogen-Oxygen Flame Transitioning to Detonation (196) <i>T. Alzér*, J. Melguzio-Gavilanes, I. Wloka, A. Kempf</i>
14:15	Performance Parameter Estimation of Hybrid Rocket with Varying Concentration of Hydrogen Peroxide (258) <i>V.K. Rathi*, R. Kumar</i>		Three-dimensional Visualization of Flame-Vortex Entrainment in Hydrogen/Methane air Mixtures (228) <i>S. Kia*, M. I. Radulescu, K. Cheevers, C. R. L. Bauwens</i>	A DNS study of detonation-turbulence interaction using massless tracer particles: effects of turbulent Reynolds number (116) <i>S. Suzuki, K. Iwata, R. Kai, R. Kurose</i>	Effect of Flow Divergence on the Structure of Detonation Rich H2-NO2/NOx Mixtures (229) <i>B. Shirvani*, Z. Ni, F. Veiga-Lopez, B. Maxwell, R. Mevel, J. Luche, P. Vidal</i>
14:40	Combustion Modeling of Aluminum-Enriched Propellants Using a Surface Tension SPH Model (68) <i>H.-S. Choi*, R. Rajak, J.J. Yoh</i>		Role of the turbulent burning in the quenching limits of gaseous detonation confined by an inert compressible layer (118) <i>H. Watanabe*, V. Robin, A. Chinnaya</i>		Deflagration-to-detonation transition in a gradient of atomic species formed by pulsed nanosecond plasma (219) <i>V. Lafaurie*, S. Starikovskiaia, P. Vidal</i>
15:05	COFFEE BREAK 20 min				
Set T3	Propellants 3	Turbulent combustion	Diffusive effects in detonations 2	DDT 6	Detonation Engine 6 (Experiments)
15:25	Ignition characteristics of pyroelectric solid propellants containing perchlorate and nitrate based ionic oxidizers (138) <i>A. Genot*, M. Bouton, L. Sanchez, H. Bezard</i>		Analytical model of transcritical diffusion flame in a turbulent coaxial jet (5) <i>A. Genot*, M. Bouton, L. Sanchez, H. Bezard</i>	Towards the large-scale modeling of turbulent combustion in fast deflagrations (122) <i>O. Dounia*, J.-J. Hok, F. Meziat, Q. Douasbin, T. Jaravel, H. Shiga*, E. Dzieninska, N. Tsuoboi</i>	Numerical investigation of DDT process in a channel with grooves (145) <i>H. Shiga*, E. Dzieninska, N. Tsuoboi</i>
15:50	Blast wave formation during ballistic impact of consolidated metal powder projectiles (227) <i>J. Tubman*, D. Frost, S. Goroshin, J. Loiseau, D. Idrići, V. Muckensturm</i>		Experimental study of a transcritical LOx/CH4 swirl flame (7) <i>M. Bouton*, A. Nicole, N. Fidua, S. Boulal, L. Vingert, M. Théron, A. Genot, G. Ribert</i>	Experimental Observations on the Reaction of Unburned Pockets (153) <i>M. Frederick*, J. Shepherd, C. Slabaugh</i>	Experimental analysis of the effect of initial conditions on spontaneous detonation development mechanisms for a hydrogen/n-decanate mixture (178) <i>R.N. Ezekeheli*, C. Strozzi, M. Bellenoue, M. Bohon</i>
16:15	Using Magnetic Nano Ferrites to Alter the Ignition Time Delay of Shellac-based Pyrotechnic Igniter (249) <i>L. Bansal*, M. Naagar, A. Thakur</i>		Large Eddy Simulation of a LOx/CH4 swirl flame under transcritical conditions (8) <i>M. Bouton*, A. Nicole, A. Genot, G. Ribert</i>	Role of Viscosity in the Detonation Cell Cycle (252) <i>P. Meagher*, X. Zhao</i>	Elucidating the Mechanism of Shock Wave Generation within a Subsonic Reaction Wave through Extension of Zel'dovich's Ignition Front Theory (248) <i>H. Okada*, Y. Morii, A. Tsunoda, K. Maruta</i>
16:40	Combustion Explicitly Filtered Large-Eddy Simulation: A novel approach to multi-species LES (76) <i>A. Beroudiaux, L. Vervisch*, Q. Cerutti, P. Domingo, G. Ribert</i>		The burning mechanism of non-reacted pockets in cellular detonations (253) <i>F. Zangene*, M.I. Radulescu</i>	Short discussion session : 15 min	
					Airbreathing Kerosene-Fueled Detonation Combustion Chamber-Comparison of Different Combustion Modes (180) <i>M. Kawalec*, A. Bilar, K. Benkiewicz</i>

Wednesday					
Room	C309	C307	C140	C308	C240
Set W1	Carbon free fuels - ammonia 1 Laminar Burning Velocities of Hydrogen and Ammonia Blends (193) <i>M. Herniksen*, J. A. Shin, D. Bjerketvedt</i>	Flame propagation 1 Effect of pressure on the high-temperature flame propagation of ammonia/hydrogen blends (9) <i>M. Figueroa Labastida*, Lingzhi Zheng, Lauren Simitz, Ronald K. Hanson</i>	Detonation (numerical) Numerical Resolution Requirements for Narrow Channel Detonation Simulations (21) <i>M. Martin*, A. S. Venkataraman, E. S. Oran, H. Farah</i>	Curved and divergent detonations Experimental and Detonation-Shock Dynamics analyses of cellular detonations in diverging channels: the effects of the cross-sectional shape (53) <i>V. Monnier, V. Rodriguez*, P. Vidal, R. Zitoun</i>	Detonation Engine 7 (Numerical) Predictive Model for Rotating Detonation Engine Wave Structure (151) <i>R. Burke*, T. Rezzag</i>
09:00	High-Pressure Laminar Flame Speed Measurements of an Ammonia/Hydrogen/Nitrogen Fuel Blend (65) <i>U. Louise Costa*, Y. Almarzoog, A. Hardaya, M. Hay, W. Kulatilaka, E. Petersen</i>	Real gas effects on ammonia-oxygen laminar flame speed (11) <i>F. Veiga-Lopez, Z. Weng, R. Mevel*, G. Wang</i>	Numerical Study of Detonation Propagating in Hydrogen-Nitrogen-Tetroxide Mixtures (42) <i>Z. Ni, S. Gallier, R. Mevel*, G. Wang, B. Wang</i>	Wave Reflections and Velocities Generated by Detonation Propagation Through Circular Arcs (102) <i>S. Jackson*, D. Lont, J. Martinez, M. Short</i>	Flow Structure in Idealized Rotating Detonation Combustor with Supersonic Inflow (156) <i>R. Fernandez*, V. Raman</i>
09:50	Impact of Detailed Molecular Transport on Ammonia/Hydrogen Ignition Delay Time Measurements in Rapid Compression Machines (234) <i>C. Wu*, D. S. L. Oi, N. Chen</i>	Cellular Instabilities and Laminar Burning Velocities of Spherically Expanding H2/air flames doped with methane and diluted with water (163) <i>P. Dievart*, A. Zemba, A. Mousse Rayaleh, T. Katsumi,</i>	Propagation and Structure of Hybrid Aluminum-Hydrogen-Air Detonations: A Computational Approach (54) <i>S. Guhathakurta*</i>	The effect of activation energy on gaseous detonation initiation and propagation in curved geometries (62) <i>C. Chiquete*, M. Short</i>	A model for multi-wave dynamics in a rotating detonation engine (197) <i>S.S. Xiaocheng Mi*, C. Renshaw-Whitman, C. Kiyanda, A. Higgins</i>
10:15	Study on end-gas auto-ignition and knock characteristics of ammonia-hydrogen blends over a wide-range equivalence ratios in a rapid compression machine (48) <i>Q. Zhang*, Z. Yang, R. Zhang, Y. Qi, Z. Wang</i>	Measuring Laminar Flame Speed of Lubrication Oil Mist in Air and CH4-Air Mixtures (235) <i>J. Jacobs*, M. A. Turner, E. L. Petersen</i>	A Global 4-Step Combustion Modelling Strategy for Hydrogen and Blends of Hydrogen and Natural Gas (161) <i>B. Maxwell*, R. Murugesan, S. Miri, V. Premnath, D. R. Kannan, J. Jeevarajan</i>	Critical Initiation of Curved Unsteady Detonation in Noble-Abel and van der Waals Gas (13) <i>Z. Weng, R. Mevel*</i>	Effect of Ozone Addition on the Detonation Wave Structure of Ethylene-Oxygen Systems (243) <i>A. Karthik, A. Dahake, R.K. Singh, A. Vikram Singh*</i>
10:40	COFFEE BREAK 20 min				
Set W2	Battery kinetics and safety 1	Flame propagation 2	Detonation (re)initiation 1	Condensed-Phase Detonation	Detonation Engine 8
11:00	Understanding the Thermochemical Reactions of Lithium and Carbonate Electrolytes at Elevated Temperatures (20) <i>J. Oh*, M. Tang</i>	Simplified Chemical Reaction Model and Its Application in Flame Acceleration and Detonation (35) <i>Y. Sun*</i>	An experimental study of cellular detonations in gaseous dodecane/air mixtures (74) <i>L. Vilasi*, B. Le Naour, P. Vidal, V. Rodriguez</i>	Continuum Modeling of 1-D and 2-D Steady Detonation Wave Propagation in Porous High Explosives (81) <i>J. Garno*, M. Short, S. Voelkel, C. Chiquete</i>	Impact of Turbulence on Wave Propagation in a C2H4-O2 Rotating Detonation Engine (226) <i>S. Connolly-Boutin*, E. Doyle, A. Côté, H. Fazal, A. Higgins, C. Kiyanda</i>
11:25	CO Time-History Measurements and Kinetic Modeling of Trimethyl Phosphate Pyrolysis (94) <i>K. Kanayama*, C. Grégoire, K. Maruta, E. Petersen, O. Mathieu, H. Nakamura</i>	Effect of Preferential Diffusion, Activation Energy and Obstacles Separation Distance on the Acceleration of Premixed Flames (137) <i>L. de Azevedo*, A. Mendiburu, L. Fernandes</i>	Geometric Modeling of Detonation Propagation and Re-Initiation over Obstacles (89) <i>R. Paknahad*, J. Crane</i>	The Influence of High Sound Speed Confinement on Detonation Propagation in High Explosives (186) <i>M. Short*, C. Chiquete, S. Voelkel</i>	Effects of the Injection Inhomogeneity on the Detonation Propagation Speed in a Reflective Shuttling Detonation Engine Using Gaseous Fuel and Oxidizer (246) <i>R. Sato*, H. Inoue, A. Kawasaki, K. Matsuoka, T. Nagaoka, Y. Oda, N. Itouyama, J. Kasahara, A. Matsu</i>
11:50	Characterizing the Safety of Commercial Sodium-ion Cells and Modules (98) <i>D. R. Kannan*, V. Premnath, J. Jeevarajan, C. Lopez</i>	Flame acceleration mechanisms to detonation in an obstacle-laden tube : Experiments and modelling (212) <i>K. Cheevers*, H. Yang, A. Pekalski, M. I. Radulescu</i>	Observation of Detonation Initiation by a High-speed Spherical Projectile Using the Diaphragmless Method (131) <i>S. Maeda*, R. Sato, K. Suzuki, Y. Seki, T. Obara</i>	Axial Detonation Propagation in an Annular Cylinder of the TATB-Based Explosive PBX 9502 (174) <i>G. Montoya, M. Short*, E. Anderson, S. Voelkel</i>	
12:15		Numerical Simulation of Deflagration to Detonation Process Using Adaptive Mesh Refinement Method in Hydrogen/Oxygen Premixed Gas Mixture (198) <i>Y. Ryu*, N. Tsuboi, A. K., Hayashi, T. Obara, X.-M. Tang</i>		Detonation Performance of a High HMX-Content Polymer Bonded Explosive (182) <i>E. Anderson, S. Voelkel, M. Short*, R. Chicas, W. Chapman, C. Chiquete</i>	
12:40	LUNCH				
13:00	EXCURSION				

**Thursday**

Plenary Lecture: Aamir Farooq, KAUST, Saudi Arabia  
New perspectives on multi-mode and multi-scale shockwave dynamics  
C140

08:30					
09:30					
Room	<b>C309</b>	<b>C307</b>	<b>C140</b>	<b>C308</b>	<b>C240</b>
Set R1	<b>Application of deep/machine learning to reactive systems</b>	<b>Flame behavior and instabilities</b>	<b>Non-equilibrium effects in detonations 1</b>	<b>Double cellular structure and inhibition</b>	<b>Detonation Engine 9 (Oblique Detonation)</b>
09:50	Detonation cell sizes in hydrogen-methane blends (171) <i>G. Bakalis*, Y. Lyu, B. Zhang, H.D Ng</i>	Flame Behavior in Expanding Flow (22) <i>T. Tsuruda*, T. Daitoku, H. Osaka</i>	Experimental assessment of thermal non-equilibrium (NEQ) in H <sub>2</sub> -air detonations with emission spectroscopy (73) <i>H. Bilal, K. Chatelain*, D. Lacoste</i>	Stability of One-dimensional Detonation Driven by Lokta-Volterra Oscillating Chemical Schemes (128) <i>M. Faghih, R. Mevel*</i>	Numerical Investigation of Assisted Initiation of Oblique Detonation Waves by Energy Deposition (93) <i>Z. Jiang, Z. Zhang*, Z. Chen, J. Hao, C.-Y. Wen</i>
10:15	Development of an Automated Computer Vision Approach for Detonation Cellular Structure Analysis (179) <i>D. Jalontzki*, A. Zussman, S. Pendurkar, G. Sharon, Y. Kozak</i>	Double shock-flame interactions and the induced flame instabilities (25) <i>X. Zhang*, T. Shen, H. Xiao</i>	Vibrational Nonequilibrium Modeling Framework for High-Speed Combustion Applications (84) <i>S. Voelkel*, M. Short</i>	Inhibition of Hydrogen-air Detonations using Organophosphorus Compounds (247) <i>A. Dahake, R. K. Singh, A. S. Karthik, A. V. Singh*</i>	Boundary Layer Separation Effects on Viscous Oblique Detonations over Compression Corners (96) <i>X. Shao, Z. Zhang*, J. Hao, C.-Y. Wen</i>
10:40	Application of an Ensemble Kalman Filter With Gaussian Anamorphosis to a 1D Detonation Flow (268) <i>J. Hansen*, D. Brouzet, M. Ihme</i>	Buoyancy limit and ascending velocity of lean syngas flames (148) <i>Y. Ballossier*, N. Chaumeix</i>	Idealized Detonation Modeling with Vibrational Nonequilibrium (85) <i>S. Voelkel*, M. Short</i>	Direct Detonation Initiation in Dimethyl Ether-Oxygen-Nitrogen-Carbon Dioxide Mixtures: Effect of Low-Temperature Chemistry and Ozone Addition (55) <i>Z. Huang, R. Mevel*</i>	Structure of Conical Oblique Detonation Waves at an Angle of Attack (210) <i>S.S. Abisleiman*, R. Bielański, V. Raman</i>
11:05	Application of Convolutional Neural Networks for Predicting Explosion Pressures in Vented Systems with Obstacles (80) <i>C. Allen*</i>	Dynamics of acoustically-induced boundary-layer flashbacks in a dump combustor (170) <i>J.-M. Klein*, A. Genot, A. Vincent-Randonnier, A. Mura</i>	A Temperature Non-Equilibrium Reactive Model for Detonation Hydrodynamics (206) <i>W. Morin*, J. G. McDonald, M.I. Radulescu</i>	Enhancing the Lean Detonability Limit of Hydrogen-Oxygen Detonations using Ozone (220) <i>R. Singh, A. Dahake, A. Karthik, A. Singh*</i>	Influence of Inert Gas Boundaries on Detonation Propagation (181) <i>Y. Wahba*, X. Mi, C. Kiyanda, A. Higgins</i>
11:30			A molecular view of shock interactions and reflections with implications in gas-phase detonations (222) <i>A. M. Jayaraman*, E. Genter, H. Wang</i>		
11:55			LUNCH 1 h 30		
Set R2	<b>Carbon free fuels - ammonia 2</b>	<b>Flame ignition</b>	<b>Non-equilibrium effects in detonations 2</b>	<b>Detonation (re)initiation 2</b>	<b>Ramjets and Scramjets 1</b>
13:25	Investigation of NH <sub>3</sub> /CH <sub>4</sub> Flame Structure and Dynamics in a Swirl Turbulent Non-Premixed Burner (40) <i>A. Morel*, T. Boushaki</i>	Hot Gas Kernel Expansion Shape Caused by Contact-Break Discharges on Cadmium and Zinc Cathodes in a Hydrogen-Air Mixture (66) <i>D. Bratek*, C. Über, E. Khan, B. Barbu, R. Methling</i>	Non-Equilibrium Translational Effects and the Limits of Weak Detonations in Shock-to-Detonation Transition (160) <i>R. Murugesan*, M. I. Radulescu</i>	Sensitivity of Detonation Re-initiation at a Back-Facing step to Transverse Waves (184) <i>Y. Poroshyna*, G. Ciccarelli, S. Lau-Chapdelaine</i>	Numerical simulation of two-phase combustion in a scramjet (59) <i>F. Kissel, G. Ribert*, P. Domingo</i>
13:50	Experimental investigation of oxygen concentration effect on spherical turbulent flame propagation limits of ammonia-oxygen-nitrogen premixed flames (143) <i>Y. Xia, N. Hashimoto, O. Fujita*</i>	Is there a cryogenic temperature limit for hydrogen deflagration flames? (158) <i>I. Kirillov*, V. Plaksin, B. Potapkin, I. Zaev, A. Lebedev, M. Deminsky, V. Khorkov, M. Okun, D. Shirabaikin</i>	Shocks in n-dodecane/nitrogen mixtures: a molecular dynamics study (225) <i>E. Genter*, A. Jayaraman, A. Nobili, H. Wang</i>	Controlling Parameters for Detonation Re-initiation After Interaction with Cylinders in Hydrogen and Hydrocarbon Mixtures (262) <i>H. Yang*, M. I. Radulescu</i>	Study of a Rotating Detonation Torch for Scramjet Engines (95) <i>M. Kakuda*, K. Norimatsu, S. Suzuki, N. Nishiura, N. Katsumura, N. Itouyama, K. Matsuoka, J. Kasahara, T. Kudo, A. Hayakawa, K. Kobayashi, S. Tomioka</i>
14:15	Reduced chemistry and differential diffusion effects in simulations of ammonia-hydrogen fuel blend (75) <i>G. Grassi, P. Domingo, L. Vervisch*</i>	Study on Effects of Low-Temperature Preheating on Ignition and Combustion of Weakly Caking Coal (166) <i>Z. Li*, S. Zhu, J. Hui</i>	Numerical Modeling of Vibrational Nonequilibrium Detonations in Hydrogen-Oxygen Mixtures (240) <i>S. M. Hussain, A. S. Karthik, A. Dahake, R. K. Singh, A. V. Singh*</i>	Detonation transmission experiments at large scale (203) <i>J. Melguizo-Gavilanes*, A. Pekalski</i>	Effects of $\mu$ PDE-Driven Excitation on a Model Supersonic Combustor (254) <i>K.-H. Lee*, B.-K. Sung, S.W. Choi, G.-U. Mo, J.-Y. Choi</i>
14:40		Effects of Fuel Nozzle Geometry on the Flammability Limits of Low-Swirl Biogas Diffusion Flames (155) <i>Madjid Birouk (University of Manitoba)*</i>	The Translational Non-Equilibrium Structure of Inert Shock Waves and Triple Points with Account for Heat Fluxes (255) <i>E. Rice*, J. McDonald</i>	Mechanisms of Detonation Re-initiation in a Narrow Channel at a Back-Facing Step (185) <i>Y. Poroshyna*, J. Loiseau, S. Lau-Chapdelaine, G. Ciccarelli</i>	Trajectory Analysis of Liquid Fuel Injected Normally to High-Enthalpy Supersonic Crossflows (257) <i>J. Sprunger*, N. Dreyer, K. Ahmed</i>
15:05			Main-Track Poster Session and Coffee (Main Hall)		
Set R3	<b>Battery kinetics and safety 2</b>	<b>DDT 3</b>	<b>Flame front structure and instabilities 2</b>	<b>Dust flames and explosions</b>	<b>Imploding / jet detonation</b>
15:25	Understanding Ignition Mechanisms and Improving Temperature Boundary Condition for Lithium-Ion Battery Vent Gas Simulations (119) <i>N. A. Senarathna*, M.-A. Bérubé, P. Versailles, E. Robert, B. Savard</i>	Choked flame and its transition to detonation in an obstructed channel (107) <i>J. Fan*, M. Li, H. Xiao</i>	The Influence of Wall Conductivity on Flame Thermoacoustics in Rectangular Channels (120) <i>Z. Negrette*, S. Jackson, M. Short</i>	Investigating turbulence and turbulent flame propagation in dust clouds (237) <i>C. Proust*, M. Battikh, J. Daubech</i>	Numerical Simulations of Imploding Detonations (32) <i>L. Shi*, C.-Y. Wen</i>
15:50	Preventing battery thermal runaway via electro-thermal characterization using impedance spectrum (167) <i>P. B. Singh*, J. J. Yoh</i>	Experimental Comparison of Slow and Fast Gas Heating Processes to Reduce the Deflagration-to-Detonation Run-up Distance in Hydrogen-Air Detonations (135) <i>M. Alicherif*, D.A. Lacoste</i>	Geometric Characteristics of Turbulent Premixed Methane-Air Flame in a Constant Volume Vessel and the Impact on Flame-Wall Interaction (124) <i>Y. Wang*, S. Jiang, M. Tanahashi</i>	Examining the effect of reactivity parameters S_T,R and $\chi$ on dust explosion venting (173) <i>C.R. Bauwens*, S. Dorofeev</i>	Behavior of Imploding Detonation Waves in A Cylindrical Chamber (162) <i>K. Ishii*, H. Ueo</i>
16:15	Fundamental Considerations for the Design of Explosion Vents for Battery Energy Storage Systems (24) <i>C. Allen*, A. Brandl, A. Kerbl</i>	Detonation Initiation by Reflection of a Fast-Flame at an Obstacle (208) <i>M. Moran*, G. Ciccarelli</i>	Low Lewis Number Flames Near a Porous-Plug burner: Stability, Dynamics and Limits of Existence (125) <i>D. Fernandez-Galisteo*, C. Jiménez, V.N. Kurdyumov</i>	The Role of Radiation on Spontaneous Ignition Waves in Coal Dust Clouds (215) <i>J. Aguilar*</i>	Modeling and Analysis of the Planar Jet-Stabilized Detonation Waves (36) <i>C. Colby*, A. Poludnenko</i>
			BANQUET		

Friday					
08:30	Plenary Lecture: Andrzej Pekalski, Shell U.K. Learnings and advancements in understanding Vapour cloud explosions since Buncefield accident C140				
09:30	COFFEE BREAK 20 min				
Room	C309	C307	C140	C308	C240
Set F1	Laser diagnostics - kinetics 3	Carbon free fuels - safety	Detonation cell size	Detonation structure	Ramjets and Scramjets 2
09:50	High-Temperature Absorption Coefficient Measurement of NH <sub>2</sub> at 597 nm (47) <i>M. Abulail*, C. M. Grégoire, O. Mathieu, E. L. Petersen</i>	Ignition Limits of Hydrogen-Diluted Jets in Shock Tubes with a Partially Opened Diaphragm (121) <i>M. Alves, O. Nassar, S. Kudriakov, E. Studer, L. Ishay, Y. Kozak</i>	The Correlation Between Cell Structure and Detonation Stability Parameters Across Multiple Fuels and Diluents (86) <i>D. Lont*, S. Jackson</i>	Detonation Structural Modulation Using Waveguides: An Experimental Study (232) <i>R. Punna*, G. Ciccarelli, J. Crane</i>	Baffled-Tube Ram Accelerator Operation with Aluminum Projectiles (126) <i>J. Correy, J. Clevenger, C. Knowlen*, A. Higgins</i>
10:15	Validation of the polyyne mechanism in soot formation (133) <i>T. Viola*, L. Carneiro Piton, M. Idir, N. Chaumeix, A. Comandini</i>	Experimental flammability limits of H <sub>2</sub> -CO-CO <sub>2</sub> -air mixtures and kinetic model simulation (139) <i>A. P. Martinez*, M. Comito, A. Mandy, A. Bentaib, A. Comandini, N. Chaumeix</i>	Comparison of detonation cell size models for alternative fuel blends composed of H <sub>2</sub> , CO, CH <sub>4</sub> (141) <i>A. Gupta*, A. Poyet, R. Stowe, V. Rodriguez, A. Chinnaya, S. Lau-Chapdelaine</i>	Experimental and calculated detonation cells in gaseous ethanol-oxygen mixtures (72) <i>T. Fessard*, L. Vilasi, V. Rodriguez, P. Vidal</i>	Experimental Investigation of Hollow-Body Ramjet Rotating Detonation Engine for Hypersonic Propulsion (266) <i>Z. White*, A. Kotler, M. Thornton, J. Lahm, K. Ahmed</i>
10:40	Experimental and Modeling Study of NH <sub>3</sub> /C <sub>2</sub> H <sub>4</sub> Combustion (127) <i>O. Mathieu*, M. Abulail, C. M. Grégoire, A. Mousse-Rayaleh, A. Palomino, N. Chaumeix, H. Hashemi, P. Glarborg, E. L. Petersen</i>	Enclosed Ammonia Vapor Cloud Explosion Testing (271) <i>P. Diakow, D. Malik, V. Martinez, O. Rodriguez, J. K. Thomas</i>	Detonation Structure at Realistic Pressures: a Differential Diagnosis for the Discrepancy between Numerical Simulations and Experiments (238) <i>A. Poludnenko*, A. Ghosh, S. S. Dammati</i>	Experimental and Numerical Analysis of the Cellular Detonation Structure for Ethylene-Oxygen Mixtures (239) <i>A. Dahake, A. S. Karthik, S. M. Hussain, R. K. Singh, A. V. Singh*</i>	Fire dynamics
11:05	Comprehensive Study of 1,1-Diethoxypropane Oxidation: Shock Tube Experiments, Laser Speciation, and Kinetic Model Development (190) <i>M. Z. Ali Khan*, C. Cao, T. A. Kashif, A. Farooq</i>	Detection of small burning hydrogen leaks at open-air industrial installations (214) <i>J. Brunzendorf*</i>	Numerical Investigation of the Detonation Cell Size in Hydrogen and Hydrocarbons with Complex Multi-step Kinetics (244) <i>A. Ghosh*, S. S. Dammati, A. Poludnenko</i>	Study of Detonation in Isopropyl Nitrate-Air Mixtures (56) <i>X. Huang, V. Sankar, K. Chatelain, R. Mevel*, D. Lacoste</i>	Experimental Study on Pool Fire Behavior and the Ignition Risk of Unburnt Gases in a Reduced-Scale Chamber of Chambord Castle (164) <i>Z. Chen*, B. Manescu, K. Chetehoua, I. Sellami, L. Lamoot</i>
11:30			Comparison of Soot-foil and Velocity Map Measurements in Gaseous Detonations (251) <i>D. R. Hart, L. Berson, R. Hytovick, K. A. Ahmed</i>	3D Numerical Simulation on Shock Front Structure of Hydrogen/Air Spinning Detonation (202) <i>H. Okuda*, N. Tsuboi, A. K. Hayashi</i>	Experimental Study on the Laminar Flame Speed of Hydrogen Doped with Trimethyl Phosphate (217) <i>M. Nielsen*, U. Costa, J. Jacobs, O. Mathieu, E. Petersen</i>
11:55	LUNCH 1 h 30				
Set F2			Detonation (numerical)		Propellants 4
13:25			Formation conditions of double cellular detonation in C <sub>2</sub> H <sub>4</sub> /O <sub>2</sub> /O <sub>3</sub> /N <sub>2</sub> mixtures with two-stage reactions (23) <i>J. Sun*, Z. Chen</i>		Investigation of Thermal Decomposition of Solid Propellant Components by Online Atmospheric Pressure Photoionization Mass Spectrometry (38)
13:50			A numerical high-speed reacting flow model based on the AMReX frame (140) <i>Q. Wen, Y. Zhang, X. Wang, H. Wen</i>		Numerical Simulation Study of the Thermal Response Process of GAP Solid Propellant under Nozzle Structural Constraints (51) <i>J. Yang, H. Xia, X. Wang, S. Guo, Y. Wu*</i>
14:15			GPU-Accelerated High-Performance Numerical Simulation of Detonation Using Detailed Chemical Kinetics (175) <i>X. Wang, Y. Zhang, Q. Wen, H. Wen, B. Wang</i>		Investigation of Cook-Off Response Characteristics of GAP Propellant under Structural Constraints (50) <i>S. Guo, Y. Wu*, J. Wang, F. Jin, X. Wang</i>
14:40			Inhibition of detonation (221) <i>N. Smirnov, E. Mikhalchenko*, E. Skryleva</i>		
15:30	Farewell party Tabaret (TBT) 112				