

FINAL PROGRAM

Opening Session				OPENING SESSION	Chairs: Terese Lovas, Fabrizio Scala	14 04	08:50 09:00
Plenary 1	Kneer	Reinhold	<i>RWTH Aachen University, Germany</i>	Oxyflame - scientific achievements from fundamental research on solid oxyfuel combustion	Chair: Fabrizio Scala	14 04	09:00 10:00
Laminar and turbulent flames 1	Shin	Junsu	<i>Bundeswehr University Munich, Institute for Thermodynamics, Munich, Germany</i>	Searching the Principal Combustion Parameters using Deep Neural Network	Shin Junsu, Hansinger Maximilian, Pfitzner Michael, Klein Markus	14 04	10:00 10:30
Laminar and turbulent flames 1	Panaget	Thomas	<i>Université de Lille, PC2A - PhysicoChimie des Processus de Combustion et de l'Atmosphère, Villeneuve d'Ascq, France</i>	Investigation of the structure of DME cool flames enhanced by ozone-seeding in a stagnation plate burner	Panaget Thomas, Mokrani Nabil, Batut Sébastien, Fenard Yann, Pillier Laure, Vanhove Guillaume	14 04	10:00 10:30
Laminar and turbulent flames 1	Chi	Cheng	<i>University of Magdeburg, Lab. of Fluid Dynamics and Technical Flows, Magdeburg, Germany</i>	Pre-chamber turbulent hot jet ignition by DNS: impact of turbulence	Chi Cheng, Abdelsamie Abouelmagd, Thévenin Dominique	14 04	10:00 10:30
Laminar and turbulent flames 1	Eckart	Sven	<i>TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	Experimental and Numerical Investigations on Extinction Strain Rates and Laminar Burning Velocities in C2 Hydrocarbon Flames in Laminar Flat Flames	Eckart Sven, Yu Chunkan, Maas Ulrich, Krause Hartmut	14 04	10:00 10:30
Laminar and turbulent flames 1	Fritsche	Chris	<i>TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	Methane flames with a substitution of 50 to 100 percent hydrogen: Experimental and numerical investigation of the temperature and pressure dependence of the laminar burning velocities	Fritsche Chris, Eckart Sven, Shrestha Krishna Prasad, Mauss Fabian, Krause Hartmut	14 04	10:00 10:30
Laminar and turbulent flames 1	Hansinger	Maximilian	<i>Bundeswehr University Munich, Institute for Thermodynamics, Munich, Germany</i>	Machine learning assisted development of a premixed combustion model using deep residual networks	Hansinger Maximilian, Shin Junsu, Pfitzner Michael, Klein M.	14 04	10:00 10:30
Laminar and turbulent flames 1	Hefele	Martin	<i>TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	Comparison of Characteristics between the Premixed and Non-Premixed case of CH ₄ -H ₂ -Air Flames on a Swirl Burner System	Hefele Martin, Blanas Marinos, Chaves Humberto, Krause Hartmut	14 04	10:00 10:30
Laminar and turbulent flames 1	Lampmann	Arne	<i>Bundeswehr University Munich, Institute for Thermodynamics, Neubiberg, Germany</i>	LES of a turbulent CH ₄ /air multi-regime burner configuration using an artificially thickened flame model with reduced finite-rate chemistry	Lampmann Arne, Hansinger Maximilian, Pfitzner Michael	14 04	10:00 10:30
Laminar and turbulent flames 1	Niemietz	Kai	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	The Influence of Flame-Wall Interaction on CO Emissions in Gas Turbine Combustors: A DNS Study	Niemietz Kai, Denker Dominik, Kleinheinz Konstantin, Attili Antonio, Pitsch Heinz	14 04	10:00 10:30
Laminar and turbulent flames 1	vom Lehn	Florian	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Laminar burning velocity prediction based on group contributions and artificial neural network	vom Lehn Florian, Copa Cáceres Bruno, Cai Liming, Pitsch Heinz	14 04	10:00 10:30
Laminar and turbulent flames 1	Mitsopoulos	Evangelos Panagiotis	<i>University of Patras, Mechanical Engineering & Aeronautics Department, Patra, Greece</i>	Characteristics of bluff-body stabilized, turbulent, pre-vaporized n-heptane-air flames under the impact of inlet mixture stratification.	Mitsopoulos Evangelos Panagiotis, Souflas Konstantinos, Koutmos Panagiotis	14 04	10:00 10:30
Laminar and turbulent flames 1	Cecere	Donato	<i>ENEA, Department of Energy Technologies and Renewable Sources, Rome, Italy</i>	Direct Numerical Simulation of Turbulent Lean Premixed CH ₄ /H ₂ - Air Slot Flames at 25 bar	Cecere Donato, Giacomazzi Eugenio, Arcidiacono Nunzio Maria	14 04	10:00 10:30
Laminar and turbulent flames 1	Kojourimanesh	Mohammad	<i>Eindhoven University of Technology, Mechanical Engineering Department, Eindhoven, The Netherlands</i>	Theoretical and experimental investigation on the linear growth rate of the thermo-acoustic combustion instability	Kojourimanesh Mohammad, Kornilov Viktor, Lopez Arteaga Ines, de Goey Philip	14 04	10:00 10:30



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Laminar and turbulent flames 1	Füzesi	Dániel	<i>Budapest University of Technology and Economics, Energy Engineering, Budapest, Hungary</i>	Numerical modeling of waste cooking oil biodiesel combustion in a turbulent swirl burner	Füzesi Dániel, Csémány Dávid, Cheng Tung Chong, Józsa Viktor	14 04	10:00 10:30
Combustion diagnostics 1	Kim	Haisol	<i>Division of Combustion Physics, Lund University, Lund, Sweden</i>	Development of a Background Suppression Technique for Raman Spectroscopy using Temporal Polarization Lock-in Filtering	Kim Haisol, Aldén Marcus, Brackmann Christian	14 04	10:30 11:00
Combustion diagnostics 1	Barviau	Benoit	<i>CORIA, Reactive flows, Saint Etienne du Rouvray, France</i>	Femtosecond Rovibrational Chirped-Probe-Pulse CARS for Single-Shot Thermometry in High-Pressure Kerosene Spray Flames	Legros Sylvain, Barviau Benoit, Idlahcen Saïd, Puggelli Stefano, Zurbach Stéphan, Grisch Frédéric	14 04	10:30 11:00
Combustion diagnostics 1	Rajamanickam	Kuppuraj	<i>CORIA - CNRS UMR 6614, Reactive Flows, Rouen, France</i>	Insights into the dynamics of local flame extinction events in CH ₄ – H ₂ turbulent flames	Rajamanickam Kuppuraj, Lefebvre Frank, Gobin Carole, Godard Gilles, Lacour Corine, Lecordier Bertrand, Cessou Armelle, Honore David	14 04	10:30 11:00
Combustion diagnostics 1	Xavier	Pradip	<i>CNRS-CORIA / INSA Rouen Normandie, Reactive Flows, Saint Etienne du Rouvray, France</i>	Optimization of the temperature precision with the ratiometric phosphor thermometry	Xavier Pradip, Petit Sylvain, Godard Gilles, Grisch Frédéric	14 04	10:30 11:00
Combustion diagnostics 1	YI	Junghwa	<i>Université Paris-Saclay, CNRS, CentraleSupélec, Laboratoire EM2C, Gif-sur-Yvette, France</i>	On the feasibility of Laser-Induced Incandescence technique for TiO ₂ nanoparticles analysis	YI Junghwa, Betrancourt Christopher, Darabiha Nasser, Franzelli Benedetta	14 04	10:30 11:00
Combustion diagnostics 1	Diethelm	Rebecca	<i>Physikalisch-Technische Bundesanstalt, 3.5, Braunschweig, Germany</i>	Laser-induced fluorescence spectra of tracer gases and investigation of temperature dependencies	Diethelm Rebecca, Horstmann Jacqueline, Brunzendorf Jens, Essmann Stefan, Markus Detlev	14 04	10:30 11:00
Combustion diagnostics 1	El Moussawi	Abbas	<i>University of Duisburg Essen, IVG-RF, Duisburg, Germany</i>	Multi-line SiO fluorescence imaging in the flame synthesis of silica nanoparticles from SiCl ₄	El Moussawi Abbas, Endres Torsten, Peukert Sebastian, Dreier Thomas, Schulz Christof	14 04	10:30 11:00
Combustion diagnostics 1	Hellmuth	Maximilian	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Impact factors on ion current for premixed laminar CH ₄ -fuel blends	Hellmuth Maximilian, Langer Raymond, Chen Bingjie, Plümke Marco, Pitsch Heinz	14 04	10:30 11:00
Combustion diagnostics 1	Horstmann	Jacqueline	<i>Universität Bielefeld, Fakultät für Chemie, Bielefeld, Germany</i>	Temperature and mixing ratio fields in turbulent jet ignition derived from Rayleigh and laser-induced fluorescence measurements	Horstmann Jacqueline, Diethelm Rebecca, Brunzendorf Jens, Essmann Stefan, Markus Detlev	14 04	10:30 11:00
Combustion diagnostics 1	Sunkavalli	Viswa		Measurement of the temperature field induced by an electric discharge using BOS	Sunkavalli Viswa Ratnasri, Grosshans Holger, Brunzendorf Jens, Markus Detlev, Essmann Stefan	14 04	10:30 11:00
Combustion diagnostics 1	Zenk	Martin	<i>Karlsruhe Institute of Technology, Institute of Technical Thermodynamics, Karlsruhe, Germany</i>	Investigation of a multi-phase turbulent combustion system by Raman spectroscopy	Zenk Martin, Schießl Robert	14 04	10:30 11:00
Combustion diagnostics 1	Belmuso	Silvia	<i>CNR-STEMS, Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili, Napoli, Italy</i>	In-Flow optical characterization of carbon nanoparticles probed from a premixed flame	De Iullis Silvana, Migliorini Francesca, Belmuso Silvia, Dondè Roberto	14 04	10:30 11:00
Combustion diagnostics 1	Escofet-Martin	David	<i>The University of Edinburgh, Institute of Multiscale Thermofluids, Edinburgh, United Kingdom</i>	1D HRCARS and phosphor thermometry to study unsteady thermal boundary layer development with a transient pressure-temperature environment	Escofet-Martin David, Ojo Anthony, Collins Joshua, Peterson Brian	14 04	10:30 11:00
Solid fuels combustion, pyrolysis and gasification 1	Hoang	Quynh N.	<i>KU Leuven, Department of Materials Engineering, Leuven, Belgium</i>	CFD-based Simulation of the Combustion of Low-Rank Solid Fuels in Packed Beds	Hoang Quynh N., Vanierschot Maarten, Croymans Tom, Pittoors Rudi, Van Caneghem Jo	14 04	11:00 11:30



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Solid fuels combustion, pyrolysis and gasification 1	Li	Tao	<i>Technical University of Darmstadt, Mechanical Engineering, Darmstadt, Germany</i>	Particle motion and swelling during the volatile combustion in a laminar flow condition	Li Tao, Li B., Dreizel A., Böhm B.	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Senneca	Osvalda	<i>CNR, STEMS, Napoli, Italy</i>	Morphological changes of different carbon materials upon very fast pyrolysis	Cerciello Francesca, Allouis Christophe, Russo Carmela, Cortese Luciano, Apicella Barbara, Schiemann Martin, Senneca Osvalda	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Bieniek	Artur	<i>AGH University of Science and Technology, Heat Engineering and Environment Protection, Cracow, Poland</i>	The influence of sweeping gas flow rate on intermediate pyrolysis of pine bark in a fixed bed reactor	Bieniek Artur, Magdziarz Aneta, Jerzak Wojciech	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Ferreira	Ana F.	<i>Instituto Superior Técnico, University of Lisbon, IDMEC, Lisbon, Portugal</i>	Valorization of olive and wine industry co-products – techno-economic analysis and life cycle assessment	Ramos João, Ferreira Ana F.	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Martins	António	<i>Instituto Superior Técnico, Mechanical engineering, Lisbon, Portugal</i>	Reduced reaction model for secondary gas phase in biomass gasification	Martins António, Ferreira Ana Isabel, Segurado Raquel, Mendes Miguel A.A.	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Manić	Nebojša	<i>University of Belgrade, Faculty of Mechanical Engineering, Fuel and Combustion Laboratory, Belgrade, Serbia</i>	Identification of multiple-step nature of food waste pyrolysis by the model-free kinetic modelling and iso-kinetic relationship for value-added chemicals production	Manic Nebojša, Jankovic Bojan, Stojiljkovic Dragoslava, Jovovic Aleksandar, Jovanovic Vladimir, Radojevic Miloš	14 04	11:00 11:30
Solid fuels combustion, pyrolysis and gasification 1	Mai Duc	Thuan	<i>University of Miskolc, Institute of Energy and Quality, Miskolc, Hungary</i>	Effects of temperature and steam on Hungarian low-rank coal gasification	Mai Duc Thuan, Arnold KÁLLAY András	14 04	11:00 11:30
Fundamental physical and chemical aspects of combustion	Minwegen	Heiko	<i>RWTH Aachen University, Physico-Fundamentals of Combustion, Aachen, Germany</i>	Acetone oxidation: Novel approach to shock tube species measurements	Minwegen Heiko, Ramalingam Ajoy Kumar, Heufer Karl Alexander	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Vinkeloe	Johann	<i>Technische Universität Berlin, Institute of Fluid Dynamics and Technical Acoustics, Combustion Kinetics, Berlin, Germany</i>	Tailoring the temperature sensitivity of ignition delay times for Shockless Explosion Combustion (SEC) application by blending dimethyl ether and dimethoxymethane	Vinkeloe Johann, Altenbuchner Adam Michael, Zander Lisa, Djordjevic Neda	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Laso	Iker	<i>Technion - Israel Institute of Technology, Faculty of Aerospace Engineering, Haifa, Israel</i>	Optimization of Energy Distribution in Nanosecond-Pulsed High-Frequency Discharge Ignition	Laso Iker, Shen Si, Lefkowitz Joseph	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Rahnama	Pourya	<i>Technical University of Eindhoven, Mechanical Engineering, EINDHOVEN, Netherlands Antilles</i>	A chemical kinetic study of low alcohol/iso-octane blends in both premixed and partially premixed combustion	Rahnama Pourya, Bao Hesheng, Somers Bart, Paykani Amin, Novella Ricardo	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Kritikos	Efstratios	<i>Imperial College London, Mechanical Engineering, London, United Kingdom</i>	Effects of electrostatic fields on hydrocarbon combustion: a reactive molecular dynamics study	Kritikos Efstratios, Lele Aditya, van Duin Adri, Giusti Andrea	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Yang	Junfeng	<i>University of Leeds, School of Mechanical Engineering, Leeds, United Kingdom</i>	CFD Modelling of Hydrogen Jet Flames in Cross Flows	Yang Junfeng, Gomez Camille, Wu Chengpei, Jia Hekun	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Rodríguez-Gutiérrez	David	<i>Instituto Nacional de Técnica Aeroespacial, Propulsion, Torrejón de Ardoz (Madrid), Spain</i>	The effect of geometry on thermoacoustic instabilities in slender microchannels	Rodríguez-Gutiérrez David, Gómez-Miguel Raquel, Fernández-Tarrazo Eduardo, Sánchez-Sanz Mario	14 04	11:30 12:00
Fundamental physical and chemical aspects of combustion	Surapaneni	Anurag	<i>Barcelona Supercomputing Center (BSC), Computer Applications in Science & Engineering, Barcelona, Spain</i>	Semi implicit solver for high fidelity LES/DNS solutions of reacting flows	Surapaneni Anurag, Mira Daniel	14 04	11:30 12:00
Soot, nanoparticles, PAH and other large molecules 1	Kholghy	Reza	<i>Carleton University, Mechanical and Aerospace Engineering, Ottawa, Canada</i>	Surface Growth, Coagulation and Oxidation of Soot by a Monodisperse Population Balance Model	Kholghy Reza, Kelesidis Georgios	14 04	12:00 12:30



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Soot, nanoparticles, PAH and other large molecules 1	Serwin	Marek	<i>Ryerson University, Aerospace Engineering, Toronto, Canada</i>	A Sudden Reversal in the Effect of O2 Addition into Dimethyl Ether on Soot Formation	Karatas Ahmet E., Serwin Marek	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Darabiha	Nasser	<i>Université Paris-Saclay, CNRS, CentraleSupélec, Laboratoire EM2C, 91190, Gif-sur-Yvette, France</i>	Numerical investigation of titanium dioxide nanoparticles synthesis in laminar flames	Orlac'h Jean-Maxime, Darabiha Nasser, Candel Sebastián, Veynante Denis, Franzelli Benedetta	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Ellas	Jessy	<i>PC2A ADEME University of Lille, Chemistry department, Villeneuve d'Ascq, France</i>	Coupling of ToF-SIMS and Raman spectroscopy for the characterization of the chemical species involved in the soot nucleation process	Elias Jessy, Faccinetto Alessandro, Mercier Xavier, Pirim Claire, Nuns Nicolas, Focsa Cristian	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Franzelli	Benedetta	<i>Université Paris-Saclay, CNRS, CentraleSupélec, Laboratoire EM2C, 91190, Gif-sur-Yvette, France</i>	Using in situ measurements to experimentally characterize TiO2 nanoparticle synthesis in a turbulent isopropyl alcohol flame	Franzelli Benedetta, Scoufflaire Philippe, Darabiha Nasser	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Herzler	Jürgen	<i>University of Duisburg-Essen, Institute for Combustion and Gasdynamics – Reactive fluids, Duisburg, Germany</i>	Shock-tube study of the oxidation and soot formation of fuel-rich CH4 and CH4/oxygenated-additive mixtures in the context of polygeneration: Extinction, CO-concentration and temperature measurements	Nativel Damien, Herzler Jürgen, Fikri Mustapha, Schulz Christof	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Karaminejad	Sadrollah	<i>Institute for Combustion and Gas Dynamics – Reactive Fluids, Department of Mechanical and Process Engineering, Duisburg, Germany</i>	Investigation of Flame Stability in the SpraySyn Nanoparticle-Synthesis Burner Using High-Repetition-Rate Chemiluminescence Imaging	Karaminejad Sadrollah, Endres Torsten, Dreier Thomas, Schulz Christof	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Nativel	Damien	<i>University of Duisburg-Essen, Institute for Combustion and Gasdynamics – Reactive fluids, Duisburg, Germany</i>	Shock-tube study on the influence of oxygen and alcohols on C2H4 pyrolysis: Measurement of soot inception times and temperature under pyrolytic conditions	Nativel Damien, Herzler Jürgen, Peukert Sebastian, Fikri Mustapha, Schulz Christof	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Schmitz	Robert	<i>Technical University of Darmstadt, Institute for Simulation of reactive Thermo-Fluid Systems (STFS), Darmstadt, Germany</i>	Numerical study on the effect of the blending ratio of oxymethylene ether-3 in ethylene flames on soot particle formation	Schmitz Robert, Sirignano Mariano, Hasse Christian, Ferraro Federica	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Viavakis	Petros	<i>Karlsruhe Institute of Technology, DEPARTMENT OF CHEMICAL AND PROCESS ENGINEERING, Karlsruhe, Germany</i>	Effect of ethanol addition on PAHs and soot formation in laminar non-premixed counterflow flames of gasoline-surrogate	Viavakis Petros, Khare Rohit, Hagen Fabian, Loukou Alexandra, Trimis Dimosthenis	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Scialabba	Gandolfo	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	The relevance of soot diffusion in counterflow laminar flame configurations	Scialabba Gandolfo, Langer Raymond, Attili Antonio, Berger Lukas, Pitsch Heinz	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Kalbhor	Abhijit	<i>Eindhoven University of Technology, Department of Mechanical Engineering, Eindhoven, The Netherlands</i>	Effects of preferential diffusion on soot modeling with the sectional method and FGM tabulated chemistry	Kalbhor Abhijit, van Oijen Jeroen	14 04	12:00 12:30
Soot, nanoparticles, PAH and other large molecules 1	Tan	Yong Ren	<i>University of Cambridge, Department of Chemical Engineering and Biotechnology, Cambridge, United Kingdom</i>	Impact of blending oxygenated fuels with jet fuel on soot formation in wick-fed laminar diffusion flames	Tan Yong Ren, Salamanca Maurin, Akroyd Jethro, Kraft Markus	14 04	12:00 12:30
Gas turbine combustion 1	Petit	Sylvain	<i>CNRS CORIA // INSA Rouen Normandie, Reactive Flows, Saint Etienne du Rouvray, France</i>	Simultaneous measurements of flame front location and wall temperature during flame-wall interaction	Petit Sylvain, Xavier Pradip, Vandel Alexis, Godard Gilles, Grisch Frédéric	14 04	12:30 13:00
Gas turbine combustion 1	Christou	Thomas	<i>Karlsruhe Institute of Technology, Engler-Bunte-Institute, Karlsruhe, Germany</i>	Experimental Investigation of Spray Response under Acoustic Forcing on a Model Prefilmer	Christou Thomas, Steizner Björn, Zarzalis Nikolaos	14 04	12:30 13:00



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Gas turbine combustion 1	Weis	Christof G.	<i>Karlsruhe Institute of Technology / KIT, Engler-Bunte-Institute Combustion Technology, Karlsruhe, Germany</i>	Large Eddy Simulation of the Two-Phase Reactive Flow Field in a Single Sector Laboratory Scale Rich-Quench-Lean Combustion Chamber	Kaddar Driss, von Langenthal Thomas, Weis Christof G., Galeazzo Flavio Cesar Cunha, Habisreuther Peter, Zarzalis Nikolaos	14 04	12:30 13:00
Gas turbine combustion 1	Langone	Leonardo	<i>University of Florence, DIF - Departement of Industrial Engineering, Florence, Italy</i>	Analysis of a gaseous partially premixed lifted flame in swirling flow through different LES combustion models	Langone Leonardo, Pampaloni Daniele, Mazzei Lorenzo, Andreini Antonio	14 04	12:30 13:00
Gas turbine combustion 1	Matino	Alessandra	<i>INSITUT PPRIME, Fluides, thermique et combustion., Poitiers, France</i>	Influence of temperature and pressure on energy deposition efficiency of aeronautical spark ignitors	Matino Alessandra, Sotton Julien, Bellenoue Marc	14 04	12:30 13:00
Gas turbine combustion 1	Mira	Daniel	<i>Barcelona Supercomputing Center (BSC), Computer Applications in Science & Engineering, Barcelona, Spain</i>	High-fidelity simulations of the mixing and combustion of a technically premixed hydrogen flame	Stathopoulos Panagiotis, Gomez Samuel, Mira Daniel, Both A., Tanneberger Tom, Lehmkuhl O., Gomez s., Forck J., Paschereit C.O.	14 04	12:30 13:00
Presentation of the Journal Gases	Kolomańska	Agata	<i>Publishing Manager of the journal Gases</i>	Presentation of the Journal Gases		14 04	13:15 13:45
Plenary 2	Chaumeix	Nabiha	<i>ICARE CNRS-INSIS, France</i>	Risk and mitigation assessments of H2 explosions: towards a safer H2 Society	Chair: Mara de Joannon	14 04	14:00 15:00
Internal combustion engines	Wang	Yu	<i>Eindhoven University of Technology, Department of Mechanical Engineering, Eindhoven, The Netherlands</i>	Ignition and combustion characteristics of n-butanol and FPBO/n-butanol blends with addition of ignition improver	Wang Yu, Han Jinlin, Maes Noud, Somers Bart	14 04	15:00 15:30
Internal combustion engines	Ossman	Hicham	<i>ISAE-ENSMA, Institut Pprime, Departement Fluide Thermique Combustion, Chasseneuil du Poitou, France</i>	Experimental and numerical study of Auto-Ignition Front/Deflagration transition limit in a Rapid Compression Machine	Ossman Hicham, Strozzli Camille, Sotton Julien, Bellenoue Marc	14 04	15:00 15:30
Internal combustion engines	Banke	Kai	<i>University of Duisburg-essen, Institute for combustion and gas dynamics, Duisburg, Germany</i>	Syngas production from biogas in a polygeneration process - simultaneous partial oxidation and dry reforming in a piston engine	Banke Kai, Kaiser Sebastian A.	14 04	15:00 15:30
Internal combustion engines	Chu	Hongchao	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Investigation of residual gas effects on early flame kernel development under engine conditions	Chu Hongchao, Davidovic Marco, Elmestikawy Hani, Welch Cooper, Böhm Benjamin, Dreizler Andreas, Pitsch Heinz	14 04	15:00 15:30
Internal combustion engines	Esposito	Stefania	<i>RWTH Aachen University, Institute for Combustion Technology (ITV), Aachen, Germany</i>	Comparison of Measured Speciated HC Emissions from a Spark-Ignition Direct-Injection Engine between a Market Gasoline and its Surrogate	Esposito Stefania, Cai Liming, Günther Marco, Pitsch Heinz, Pischinger Stefan	14 04	15:00 15:30
Internal combustion engines	Freund	Dominik	<i>University of Duisburg-Essen, Institute for Combustion and Gas Dynamics, Thermodynamics, 47048 Duisburg, Germany</i>	Ozone and dimethyl ether in fuel-rich HCCI engines: an exergetic evaluation	Freund Dominik, Atakan Burak	14 04	15:00 15:30
Internal combustion engines	Hasenzahl	Max	<i>Technical University of Darmstadt, Simulation of reactive Thermo-Fluid Systems, Darmstadt, Germany</i>	Numerical investigation of the effects of operating points on mixture homogeneity and the combustion process of a direct injection gasoline engine.	Hasenzahl Max, Pati Andrea, Hasse Christian	14 04	15:00 15:30
Internal combustion engines	Laichter	Judith	<i>Universität Duisburg-Essen, Institute for Combustion and Gas Dynamics - Reactive Fluids, Duisburg, Germany</i>	Investigation of cyclic variations in a direct-injection spark-ignition engine by high-speed optical diagnostics	Laichter Judith, Schulz Christof, Kaiser Sebastian A.	14 04	15:00 15:30
Internal combustion engines	Pati	Andrea	<i>TU Darmstadt, STFS, Darmstadt, Germany</i>	LES simulation of early flame propagation and turbulent combustion in DISI engines	Pati Andrea, Federica Ferraro, Hasse Christian	14 04	15:00 15:30

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Internal combustion engines	Poschen	Felix	<i>Karlsruher Institut für Technologie (KIT), Institut für Physikalische Chemie (IPC), Karlsruhe, Germany</i>	Formation of NO _x and Formaldehyde in Oxymethylene Ether/n-Heptane Combustion: Engine Studies and Kinetic Modeling	Poschen Felix, Notheis Denis, Wagner Uwe, Velji Amin, Koch Thomas, Olzmann Matthias	14 04	15:00 15:30
Internal combustion engines	Rudolph	Charlotte	<i>University of Duisburg-Essen, Institute for Combustion and Gas Dynamics, Thermodynamics, Duisburg, Germany</i>	Piston engines as reformers for exergy storage and carbon capture and usage: A modeling study on the thermodynamics and kinetics	Rudolph Charlotte, Atakan Burak	14 04	15:00 15:30
Internal combustion engines	Wultschner	Jürgen	<i>University of Siegen, Institute of Engineering Thermodynamics, Siegen, Germany</i>	Spectrally resolved combustion analysis in a reformat gas engine	Wultschner Jürgen, Schmitz Ingo, Dieding Felix, Pennings Dominik, Yapici Kurt Imren, Warkentin Sergej, Pohl Elmar, Seeger Thomas	14 04	15:00 15:30
Internal combustion engines	Gaucherand	Jessica	<i>Norwegian University of Science and Technology, Department of Energy and Process Engineering, Trondheim, Norway</i>	Emission prediction for low-carbon fuels in marine applications using detailed chemistry with stochastic reactor model	Gaucherand Jessica, Lewandowski Michal T., Netzer Corinna, Løvås Terese	14 04	15:00 15:30
Internal combustion engines	Khare	Shivang	<i>Norwegian University of Science and Technology, Department of Energy and Process Engineering, TRONDHEIM, Norway</i>	Development of Experimental Setup of Ammonia Fueled Compression Ignition Engine	Khare Shivang, Xue Zhongye, Emberson David Robert, Løvås Terese	14 04	15:00 15:30
Laminar and turbulent flames 2	Wartha	Eva-Maria	<i>Technische Universität Wien, Institute of Chemical, Environmental and Bioscience Engineering, Vienna, Austria</i>	Artificial Neural Networks to Substitute the ODE Solver in Reactive Flow Simulations	Wartha Eva-Maria, Cabrera Ormaza Marlon Danilo, Bösenhofer Markus, Harasek Michael	14 04	15:30 16:00
Laminar and turbulent flames 2	Pestre	Antoine	<i>CERFACS, CFD, Toulouse, France</i>	Evaluation of numerical methods for explicit chemistry integration and application on DNS of turbulent kerosene ignition at high altitude conditions	Pestre Antoine, Cuenot Bénédicte, Riber Eleonore	14 04	15:30 16:00
Laminar and turbulent flames 2	Veynante	Denis	<i>Université Paris-Saclay, CNRS, CentraleSupélec, Laboratoire EM2C, 91190, Gif-sur-Yvette, France</i>	A validation strategy for LES subgrid scale models	Franzelli Benedetta, Vié Aymeric, Veynante Denis	14 04	15:30 16:00
Laminar and turbulent flames 2	Hartl	Sandra	<i>University of Applied Sciences Darmstadt, Department of Mechanical and Plastics Engineering, Darmstadt, Germany</i>	Characterizing local reaction zones in a piloted inhomogeneous jet flame series	Hartl Sandra, Hasse Christian, Cutcher Hugh C., Masri Assaad R., Geyer Dirk, Barlow Robert S.	14 04	15:30 16:00
Laminar and turbulent flames 2	Li	Ningyi	<i>Karlsruhe Institute of Technology, Mechanical Engineering, Karlsruhe, Germany</i>	Application of reaction-diffusion manifolds (REDIM) for the simulation of two-dimensional axisymmetric laminar diffusion flames	Li Ningyi, Yu Chunkan, Zirwes Thorsten, Maas Ulrich	14 04	15:30 16:00
Laminar and turbulent flames 2	Nista	Ludovico	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Turbulent mixing predictive model with physics-based Generative Adversarial Network	Nista Ludovico, Schumann Christoph D. K., Grenga Temistocle, Karimi Amir N., Scialabba Gandolfo, Bode Mathis, Attili Antonio, Pitsch Heinz	14 04	15:30 16:00
Laminar and turbulent flames 2	Wu	Chunwei	<i>Karlsruhe Institute of Technology, Institute of Technical Thermodynamics, Karlsruhe, Germany</i>	Numerical Studies on Minimum Ignition Energy of Primary Reference Fuels	Wu Chunwei, Schießl Robert, Maas Ulrich	14 04	15:30 16:00
Laminar and turbulent flames 2	Zirwes	Thorsten	<i>Karlsruhe Institute of Technology, Steinbuch Centre for Computing, Karlsruhe, Germany</i>	Response of local and global flame dynamics to unsteady stretch	Zhang Feichi, Zirwes Thorsten, Habisreuther Peter, Bockhorn Henning, Trimis Dimosthenis	14 04	15:30 16:00
Laminar and turbulent flames 2	Castellani	Simone	<i>University of Florence, Department of Industrial Engineering, Firenze, Italy</i>	Numerical Modelling of a Non-Premixed H ₂ Flame Representative of Flame-Holding in Premixing Systems	Castellani Simone, Nassini Pier Carlo, Andreini Antonio	14 04	15:30 16:00
Laminar and turbulent flames 2	Wildemans	Roeland	<i>Eindhoven University of Technology, Mechanical Engineering, Eindhoven, The Netherlands</i>	Experimental proof of existence of pure intrinsic thermo-acoustic modes	Wildemans Roeland, Kornilov Viktor, de Goey Philip, Lopez Arteaga Ines	14 04	15:30 16:00

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Laminar and turbulent flames 2	Brearley	Peter	Newcastle University, School of Engineering, Newcastle-upon-Tyne, United Kingdom	A-priori Direct Numerical Simulation evaluation of the cross-scalar dissipation rate of reaction progress variable and mixture fraction in turbulent stratified flames	Brearley Peter, Ahmed Umair, Chakraborty Nilanjan	14 04	15:30 16:00
Laminar and turbulent flames 2	Pérez-Sánchez	Eduardo Javier	Barcelona Supercomputing Center, Computer Applications in Science and Engineering Department, Barcelona, Spain	Development of the Conditional Moment Closure with a multi-code approach in the frame of Large Eddy Simulations	Pérez-Sánchez Eduardo Javier, Mira Daniel, Lehmkühl Oriol, Houzeaux Guillaume	14 04	15:30 16:00
Reaction kinetics 1	Bauerfeldt	Glauco	Universidade Federal Rural do Rio de Janeiro, Departamento de Química Fundamental, Seropédica, Brazil	Assessment of Uni and Bimolecular Reaction Kinetics of Dimethoxymethane with KINPRO Package	Vieira Guilherme Sabino, dos Santos Luan Gabriel, Almeida Cristiano, Tejero Tatiane, da Rocha Vinícius, Xavier, Jr Neubi Francisco, Machado Gladson, Bauerfeldt Glauco	14 04	16:00 16:30
Reaction kinetics 1	Chicharo Prata Lisboa	Antonio	Universidade Federal Rural do Rio de Janeiro, Departamento de Química Fundamental, Seropédica, Brazil	UFRRJcin: an Open Source Tool for Combustion Kinetics	Chicharo Prata Lisboa Antonio, Bauerfeldt Glauco	14 04	16:00 16:30
Reaction kinetics 1	Chen	Jin-Tao	Institute of Engineering Thermophysics, Chinese Academy of Sciences, Combustion Chemistry, Beijing, China	Experimental and modeling study of benzyl alcohol pyrolysis	Chen Jin-Tao, Jin Zhi-Hao, Li Wang, Jin Kai-Ru, Song Shu-Bao, Yang Jiu-Zhong, Tian Zhen-Yu	14 04	16:00 16:30
Reaction kinetics 1	Jin	Zhi-Hao	University of Chinese Academy of Science, Institute of Engineering Thermophysics, Beijing, China	An experimental and kinetic modeling study on furfural combustion	Jin Zhi-Hao, Yu Dan, Liu Yue-Xi, Tian Zhen-Yu, Richter Sandra, Braun-Unkloff Marina, Naumann Clemens, Yang Jiu-Zhong	14 04	16:00 16:30
Reaction kinetics 1	Bourgalais	Jérémy	CNRS, LRGP, Nancy, France	A Combined Theoretical/Experimental Laboratory Study on Isopropyl Nitrate Pyrolysis	Bourgalais Jérémy, Vin Nicolas, Herbinet Olivier, Carstensen Hans-Heinrich, Azueta Maria Uxue, Battin-Leclerc Frédérique	14 04	16:00 16:30
Reaction kinetics 1	Döntgen	Malte	RWTH Aachen University, Physico-Chemical Fundamentals of Combustion, Aachen, Germany	Shock Tube Study and Chemical Kinetic Modeling of Trimethoxymethane Combustion	Döntgen Malte, Heufer Alexander	14 04	16:00 16:30
Reaction kinetics 1	Fuller	Mark	RWTH Aachen University, Physico-Chemical Fundamentals of Combustion, Aachen, Germany	Reaction Class-Based CHON Combustion Mechanism Development	Fuller Mark, Morsch Philipp, Goldsmith C. Franklin, Heufer K. Alexander	14 04	16:00 16:30
Reaction kinetics 1	Gaiser	Nina	German Aerospace Center, Chemical Kinetics and Analytics, Stuttgart, Germany	Disentangling of linear and branched ethers: Flow reactor study of OME2 and trimethoxymethane using molecular beam mass spectrometry and synchrotron photoionization	Gaiser Nina, Bierkandt Thomas, Oßwald Patrick, Zinsmeister Julia, Shaqiri Shkelqim, Hemberger Patrick, Kasper Tina, Köhler Markus, Aigner Manfred	14 04	16:00 16:30
Reaction kinetics 1	Janzer	Corina	German Aerospace Center (DLR), Institute of Combustion Technology, Stuttgart, Germany	Ethane / Nitrous Oxide Mixtures as Green Propellants Substituting Hydrazine: Reduction of Optimized Reaction Mechanism for CFD Simulations	Janzer Corina, Methling Torsten	14 04	16:00 16:30
Reaction kinetics 1	Kaczmarek	Dennis	University of Duisburg-Essen, Mass spectrometry in reactive flows, Duisburg, Germany	Kinetic investigation of the ozone-assisted partial oxidation of fuel-rich natural gas mixtures at elevated pressure	Kaczmarek Dennis, Rudolph Charlotte, Atakan Burak, Kasper Tina	14 04	16:00 16:30
Reaction kinetics 1	Manna	Maria Virginia	University of Napoli Federico II, Department of Chemical, Materials and Production Engineering, Napoli, Italy	Experimental characterization of ammonia oxidation regimes and thermokinetic instabilities in a Jet Stirred Flow Reactor	Manna Maria Virginia, Sabia Pino, Ragucci Raffaele, de Joannon Mara	14 04	16:00 16:30

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Novel concepts, technologies and systems 1	Bösenhofer	Markus	<i>TU Wien, Institute of Chemical, Environmental and Bioscience Engineering, Vienna, Austria</i>	opiTemp: A low budget, open-source optical temperature sensing system	Bösenhofer Markus, Resch Felix, Nanz Thomas, Harasek Michael	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Gagnon	Jean-Philippe	<i>Telops, Measurement services, Québec, Canada</i>	Combustion Gas Quantification and Plume Temperature Calculation Using Thermal Infrared Multispectral Imaging	Gagnon Jean-Philippe, Saute benjamin, Ball Timothy, Boubanga Stephane, Martin Larivière-Bastien	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Blanchard	Victorien	<i>CNRS, CentraleSupélec, Université Paris-Saclay, Laboratoire EM2C, Gif-sur-Yvette, France</i>	Lean combustion performances of a high-power swirled burner stabilized by nanosecond discharges	Blanchard Victorien, Scoufflaire Philippe, Laux Christophe, Ducruix Sébastien	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Gokalp	Iskender	<i>CNRS, ICARE, ORLEANS, France</i>	Decarbonizing with hydrogen and precautionary regulating: what energy sciences, policy and law studies have to say in common	Kart Ayse Sehnaz, Gokalp Iskender	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Eckart	Sven	<i>TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	Conception of a pilot plant scaled optically accessible combustion chamber for determining the combustion properties of process, mixed and natural gases under the influence of external recirculation..	Eckart Sven, Fritsche Chris, Hefele Martin, Pestel Andreas, Behrend Ralph, Drubetskoi Eugen, Krause Hartmut, Hasche Anna	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Schießl	Robert	<i>Karlsruhe Institute of Technology, Institut für Technische Thermodynamik, Karlsruhe, Germany</i>	Modeling studies on the conversion between mechanical and chemical energy under piston-engine conditions	Schießl Robert	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Katsourinis	Dimitrios	<i>National Technical University of Athens, School of Mechanical Engineering, Athens, Greece</i>	Combustion characterization of solvents used in coil coating processes: experiments and kinetic modelling	Malliotakis Zisis, Weinbrecht Petra, Cameron Florence, Katsourinis Dimitrios, Vourliotakis George, Weis Christof, Skevis George, Trimis Dimosthenis, Founti Maria	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Coppola	Antonio	<i>Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili, Napoli, Italy</i>	Techno-economic analysis and life cycle assessment of a CCU Process combining calcium looping CO2 capture with sorption enhanced methanation	Chirone Roberto, Paulillo Andrea, Coppola Antonio, Scala Fabrizio	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Giuntini	Lorenzo	<i>University of Pisa, Department of Civil and Industrial Engineering, Pisa, Italy</i>	Numerical investigation of a Regenerative Thermal Oxidizer for the abatement of Volatile Organic Compounds	Giuntini Lorenzo, Bertei Antonio, Tortorelli Sonia, Percivale Matteo, Paoletti Emiliano, Tognotti Leonardo, Nicoletta Cristiano, Galletti Chiara	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Molignano	Laura	<i>Università di Napoli Federico II, DICMaPI, Napoli, Italy</i>	Diagnostics of solid mixing by capacitance probes in dense fluidized beds for thermochemical conversion of solid fuels	Molignano Laura, Troiano Maurizio, Solimene Roberto, Tebianian Sina, Salatino Piero, Joly Jean-Francois	14 04	16:30 17:00
Novel concepts, technologies and systems 1	PASCUAL	SARA	<i>Universidad de Zaragoza, Departamento de Ingeniería Mecánica. Escuela de Ingeniería y Arquitectura (EINA). C/ María de Luna s/n, 50018, Zaragoza, Spain</i>	Improvement of performance of fluidized bed calcium looping for thermochemical solar energy storage: modelling and experiments	Pascual Sara, Di Lauro Franceca, Lisbona Pilar, Romeo Luis Miguel, Tregambi Claudio, Montagnaro Fabio, Solimene Roberto, Salatino Piero	14 04	16:30 17:00
Novel concepts, technologies and systems 1	Alhaleeb	Mustafa	<i>Atılım University, Chemical Engineering Department, Ankara</i>	Simulation of Flame Spray Pyrolysis Process with a Reduced Computational Time	Alhaleeb Mustafa, E. Machin Nesrin	14 04	16:30 17:00
Catalytic combustion	Arshad	Muhammad Fahad	<i>University of Chinese academy of sciences, Combustion Chemistry, Beijing, China</i>	Ab-initio calculation of surface thermochemistry for popular solid transition metal-based species	Arshad Muhammad Fahad, Wu Ling-Nan, El Kasmi Achraf, Qin Wu, Tian Zhen-Yu	14 04	17:00 17:30

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Catalytic combustion	Quintens	Hugo	<i>Institut PPRIME, ISAE ENSMA, Université de Poitiers, FTC, Poitiers, France</i>	Hypergolic ignition with highly concentrated hydrogen peroxide for space propulsion	Quintens Hugo, Boust Bastien, Beauchet Romain, Batonneau Yann, Bellenoue Marc	14 04	17:00 17:30
Fuel processing and upgrading	Krochmalny	Krystian	<i>Wroclaw University of Science and Technology, Engineering Conversion Energy, Wroclaw, Poland</i>	The study of the effect of a catalyst doping on properties of torrefaction products of wood biomass defined shape	Krochmalny Krystian, Niedzwiecki Lukasz, Czajka Krzysztof, Pawlak-Kruczek Halina, Tkaczuk Serafin Monika	14 04	17:00 17:30
Smart energy carriers	Bollmann	Jonas	<i>Friedrich-Alexander Universität (FAU) Erlangen-Nürnberg, Lehrstuhl für Technische Thermodynamik (LTT), Erlangen, Germany</i>	Heat supply for the dehydrogenation of a chemical hydrogen carrier using a burner	Bollmann Jonas, Schmidt Nikolas, Zigan Lars, Will Stefan	14 04	17:00 17:30
Smart energy carriers	Skevis	George	<i>Centre for Research & Technology Hellas (CERTH), Chemical Process & Energy Resources Institute (CPERI), Thessaloniki, Greece</i>	Combustion and Emission Characteristics of DME-Hydrocarbon Mixtures in a Swirl-stabilised Burner	Keramiotis Christos, Vourliotakis George, Skevis George, Founti Maria	14 04	17:00 17:30
Smart energy carriers	Cimino	Stefano	<i>Cnr, STEMS, Napoli, Italy</i>	CO2 capture and methanation over alkali promoted Ru/Al2O3 catalysts	Cimino Stefano, Lisi Luciana	14 04	17:00 17:30
Smart energy carriers	Cavaliere da Rocha	Rodolfo	<i>Instituto Superior Técnico, University of Lisbon, IDMEC - Mechanical Engineering Department, Lisbon, Portugal</i>	Numerical and experimental characterization of partially premixed NH3/H2/air flames on a laboratory scale combustor	Cavaliere Rocha Rodolfo, Pernicha Pacheco Gonçalo, Almeida Mendes Miguel Abreu, Fernandes Edgar Caetano, Coelho Pedro Jorge, Bai Xue-Song	14 04	17:00 17:30
Smart energy carriers	Lubrano Lavadera	Marco	<i>Lund University, Division of Combustion Physics, Lund, Sweden</i>	Comparative effect of ammonia addition on the laminar burning velocities of archetype hydrocarbons	Lubrano Lavadera Marco, Han Xinlu, Konnov Alexander A.	14 04	17:00 17:30
Stationary combustion systems	Wang	Xiaozan	<i>Technical University of Denmark, Department of Chemical Engineering, Kongens Lyngby, Denmark</i>	Experimental study of mineral particle deposition in cement production	Wang Xiaozan, Wu Hao, Jensen Peter Arendt, Pedersen Morten Nedergaard, Zhou Haosheng	14 04	17:00 17:30
Stationary combustion systems	Chakchak	Sawssen	<i>ENIM - National Engineering School of Monastir/university of orléans, ICARE CNRS, Orleans, France</i>	Numerical and experimental investigation of turbulent swirling flows on a coaxial burner	Chakchak Sawssen, Hidouri Ammar, Chrigui Mouldi, Boushaki Toufik	14 04	17:00 17:30
Stationary combustion systems	Rabello de Castro	Ricardo	<i>Université d'Orléans, PRISME LABORATORY, Orléans, France</i>	Syngas/diesel dual-fuel: laminar flame speeds and engine performance	Rabello de Castro Ricardo, Brequigny Pierre, Mounaïm-Rousselle Christine	14 04	17:00 17:30
Stationary combustion systems	Chelladurai	Punithan	<i>Eindhoven University of Technology, Mechanical Engineering, Eindhoven, The Netherlands</i>	Effect of Hydrogen Addition to Methane Laminar Flames on Flame Speed and Pollutants	Chelladurai Punithan, Teerling O.J., de Goey L.P.H., Arteaga Ines L.	14 04	17:00 17:30
Plenary 3	Wang	Hai	<i>Stanford University, USA</i>	Detailed kinetic modeling of complex combustion chemistry - what's next?	Chair: Tiziano Faravelli	14 04	17:30 18:30
Meeting of the Board				Meeting of the Board of the European Sections of the Combustion Institute (for Members only)		14 04	18:30 20:30
Plenary 4	Rein	Guillermo	<i>Imperial College London, UK</i>	Smouldering combustion in science and technology	Chair: Ernesto Salzano	15 04	09:00 10:00
MILD combustion	Benbouaziz	Oussama	<i>Oum el Bouaghi University, Department of Mechanical Engineering, OUM EL BOAUGHI, Algeria</i>	Effect of co-flow oxygen concentration on the MILD combustion of Biogas-Syngas	Oussama Benbouaziz, Mameri Abdelbaki, Hadeif Ammar, Boussetta Salsabil, Aouachria Zeroual	15 04	10:00 10:30
MILD combustion	Boussetta	Salsabil	<i>FSSA, University Oum El Bouaghi, Mechanical Engineering, Oum El Bouaghi, Algeria</i>	The Effect of Injection Temperature and Oxygen Concentration in Oxidizer on MILD Combustion of Biogas-Syngas Mixture	Boussetta Salsabil, Mameri Abdelbaki, Hadeif Amar, Benbouaziz Oussama	15 04	10:00 10:30

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MILD combustion	Awad	Hazem	Newcastle University, mechanical engineering, Newcastle, United Kingdom	Comparison of Surface Density Function Statistics between MILD and Premixed Turbulent Combustion	Awad Hazem, Abo Amsha Khalil, Ahmed Umair, Chakraborty Nilanjan	15 04	10:00 10:30
MILD combustion	Nguyen	Huu-Tri	ArcelorMittal Research SA / CORIA – CNRS, Normandie Université, INSA de Rouen, Moselle / Seine-Maritime, Maizières-lès-Metz / Saint-Etienne-du-Rouvray, France	Chemistry reduction and optimisation for multi-physics flow simulations: Combining data clustering and principal component analysis with deep learning	Nguyen Huu-Tri, Vervisch Luc, Domingo Pascale, Nguyen Phuc-Danh	15 04	10:00 10:30
MILD combustion	Ariemma	Giovanni Battista	University of Naples Federico II, DICMaPI, Naples, Italy	Ammonia Mild Combustion in a cyclonic burner. Water addition effects	Ariemma Giovanni Battista, Sorrentino Giancarlo, Sabia Pino, de Joannon Mara, Ragucci Raffaele	15 04	10:00 10:30
MILD combustion	Galletti	Chiara	University of Pisa, Dipartimento di Ingegneria Civile e Industriale, Pisa, Italy	Reaction-rate based modeling of MILD Combustion in a cyclonic burner	Silei Tommaso, Sorrentino Giancarlo, Ragucci Raffaele, Galletti Chiara	15 04	10:00 10:30
MILD combustion	Procacci	Alberto	Université Libre de Bruxelles, Aero-Thermo-Mechanics, Bruxelles, Belgium	Correlating OH and OH* in Nonpremixed MILD Combustion using RANS and DNS datasets	Procacci Alberto, Kamal M. Mustafa, Dave Himanshu, Coussément Axel, Parente Alessandro, Swaminathan Nedunchezian	15 04	10:00 10:30
MILD combustion	Ragucci	Raffaele	CONsiglio Nazionale delle Ricerche, Istituto di Scienza e Tecnologia per l'Energia e la Mobilità Sostenibili, Napoli, Italy	MILD Combustion characterization in a scale-bridging burner by means of chemiluminescence	Ariemma Giovanni Battista, de Joannon Mara, Sabia Pino, Sorrentino Giancarlo, Viola Tullio, Ragucci Raffaele	15 04	10:00 10:30
MILD combustion	Sorrentino	Giancarlo	Università degli studi di Napoli Federico II, Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale (DICMaPI), Napoli, Italy	Ammonia-Methane blends combustion in MILD conditions	Sorrentino Giancarlo, Ariemma Giovanni Battista, Sabia Pino, de Joannon Mara, Ragucci Raffaele	15 04	10:00 10:30
MILD combustion	Lewandowski	Michał	Norwegian University of Science and Technology, Department of Energy and Process Engineering, Trondheim, Norway	Identification of combustion regimes in diluted compression ignition conditions	Lewandowski Michał, Netzer Corinna, Emberson David, Løvås Terese	15 04	10:00 10:30
MILD combustion	Miniero	Luigi	ETH Zurich, CAPS lab, department of mechanical and process engineering, Zurich, Switzerland	Effects of the atomization air on the topology of a Jet A-1 spray flame in a turbulent vitiated crossflow	Miniero Luigi, Pandey Khushboo, Shcherbanev Sergey, Doll Ulrich, Noiray Nicolas	15 04	10:00 10:30
Reaction kinetics 2	Wesenauer	Florian	TU Wien, Institute of Chemical, Environmental, and Bioscience Engineering, Vienna, Austria	A three-stage reaction model for the conversion of organic and inorganic carbon in clay brick firing	Wesenauer Florian, Jordan Christian, Pichler Mario, Harasek Michael, Winter Franz, Frei Aron	15 04	10:30 11:00
Reaction kinetics 2	Li	Wang	Chinese Academy of Sciences, Institute of Engineering Thermophysics, Beijing, China	Pyrolysis investigation of n-propylamine with synchrotron photoionization and molecular-beam mass spectrometry	Li Wang, Tian Zhen-Yu, Zhao Long, Jiu Zhong Yang Yang, Yu Dan	15 04	10:30 11:00
Reaction kinetics 2	SHI	SI SHI	University of Sheffield, Mechanical Engineering, Sheffield, United Kingdom	A modelling study of the ignition of 2-methylheptane	SHI SI SHI, Hughes Kevin Hughes	15 04	10:30 11:00
Reaction kinetics 2	Tian	Dong-Xu	Institute of Engineering Thermophysics, Chinese Academy of Sciences, Combustion Chemistry, Beijing, China	Oxidation experiment of acetylene at an elevated pressure	Tian Dong-Xu, Chen Jin-Tao, Jin Zhi-Hao, Li Wang, Du Li-Jun, Tian Zhen-Yu	15 04	10:30 11:00
Reaction kinetics 2	Krep	Lukas	RWTH Aachen University, Mechanical Engineering, Aachen, Germany	Exploring the Reaction Network of 1, 3-Dioxolane-Hydroperoxide Radical Low-Temperature Oxidation with a Novel Molecular Dynamics Acceleration Technique	Krep Lukas, Huang Can, Kopp Wassja, Leonhard Kai	15 04	10:30 11:00
Reaction kinetics 2	Nadiri	Solmaz	Physikalisch-Technische Bundesanstalt, Physical Chemistry, Braunschweig, Germany	Numerical investigation of the correlation between auto-ignition delays and the methane number of liquefied natural gas (LNG)	Nadiri Solmaz, He Xiaoyu, Shu Bo, Fernandes Ravi	15 04	10:30 11:00

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Reaction kinetics 2	Schmalz	Felix	<i>RWTH Aachen University, echnical Thermodynamics, Aachen, Germany</i>	Analysis of recrossing in molecular dynamics simulations from energy fluctuations	Kopp Wassja A., Schmalz Felix, Krep Lukas, Dietze Patrik, Leonhard Kai	15 04	10:30 11:00
Reaction kinetics 2	Wolf	Anne	<i>Karlsruhe Insitute of Technology, Physical chemistry, Karlsruhe, Germany</i>	Experimental studies on the kinetics of the CH ₃ O(CH ₂ O) ₂ CH ₃ + OH reaction	Wolf Anne, Olzman Matthias	15 04	10:30 11:00
Reaction kinetics 2	Stagni	Alessandro	<i>Politécnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica, Milano, Italy</i>	An experimental and kinetic-modeling study of H ₂ S combustion in ideal reactors	Stagni Alessandro, Arunthanayothin Suphapon, Herbinet Olivier, Battin-Leclerc Frédérique, Faravelli Tiziano	15 04	10:30 11:00
Reaction kinetics 2	VASUDEVAN	SOORAJ PM	<i>Kingston University, School of Engineering and Environment, London, United Kingdom</i>	Analytical study of minimum ignition energy of single and dual fuels: a short review	Vasudevan Sooraj PM, Muppala Siva PR, Madhav Rao Vendra C., Heidari Ali, Dembele Siaka	15 04	10:30 11:00
Reaction kinetics 2	Kovács	Márton	<i>Eötvös Loránd University, Institute of Chemistry, Budapest, Hungary</i>	Investigating novel strategies for parameter optimisation on a methanol/NO _x combustion mechanism	Kovács Márton, Papp Máté, Nagy Tibor, Turányi Tamás	15 04	10:30 11:00
Detonations, explosions and supersonic combustion	Gamal	Bassam	<i>CentraleSupélec - University Paris-Saclay, Mechanical engineering, Gif-sur-Yvette, France</i>	The CALIF3S-P2REMICS software: simulation of accelerated deflagrations using RANS and LES approaches	Gamal Bassam, Gastaldo Laura, Veynante Denis	15 04	11:00 11:30
Detonations, explosions and supersonic combustion	Lecointre	Luc	<i>Université Paris Saclay, CEA, Gif sur Yvette, France</i>	A High-resolution numerical solver applied to detonation simulations	Lecointre Luc, Kudriakov Sergey, Studer Etienne, Vicquelin Ronan, Tenaud Christian	15 04	11:00 11:30
Detonations, explosions and supersonic combustion	Tofaili	Hassan	<i>INSA Rouen Normandy CNRS, CORIA, St-Etienne-du-Rouvray, France</i>	One-dimensional dynamics of gaseous detonation revisited	Tofaili Hassan, Lodato Guido, Vervisch Luc, Clavin Paul	15 04	11:00 11:30
Detonations, explosions and supersonic combustion	Garan	Niclas	<i>TU Berlin, Chair of Combustion Kinetics, Berlin, Germany</i>	Stratified fuel injection as a measure for NO _x mitigation in pulse detonation combustion	Garan Niclas, Habicht Fabian, Paschereit Christian Oliver, Djordjevic Neda	15 04	11:00 11:30
Detonations, explosions and supersonic combustion	Zander	Lisa	<i>Technische Universität Berlin, Institut für Strömungsmechanik und Technische Akustik, Berlin, Germany</i>	Suppression of hotspot-induced detonation development by steam dilution of dimethyl ether-air mixtures	Zander Lisa, Schaposchnikow Vera, Vinkeloe Johann, Djordjevic Neda	15 04	11:00 11:30
Detonations, explosions and supersonic combustion	Nassini	Pier Carlo	<i>University of Florence, Department of Industrial Engineering, Firenze, Italy</i>	Numerical Simulation of Hydrogen Detonation for Gas Turbine Applications	Nassini Pier Carlo, Andreini Antonio	15 04	11:00 11:30
Fire and safety research	Ogabi	Raphael	<i>INSA Centre Val de Loire, Univ. Orleans, EA 4229 PRISME, F-18022 Bourges, France</i>	Effects of Fire Behavior and Thermal Degradation on the Toxicity of Composite Materials Impacted by Air/Kerosene Diffusion Flame.	Ogabi Raphael, Manescau Brady, Chetehouna Khaled, Gascoin Nicolas, Senave S., Reynaud I.	15 04	11:00 11:30
Fire and safety research	Max	Dominique	<i>Karlsruhe Institute of Technology, Engler-Bunte-Institute;Combustion Technology;Research Centre for Fire Protection Technology, Karlsruhe, Germany</i>	Flame Length Measurement in Compartment Fires with Image Analysis	Max Dominique, Braun Jan, Dinkov Ilian, Trimis Dimosthenis	15 04	11:00 11:30
Fire and safety research	Pio	Gianmaria	<i>University of Bologna, Department of civil, chemical, environmental, and materials engineering, Bologna, Italy</i>	Development of a kinetic mechanism for the estimation of safety parameters of polyhydroxy alkanoate (PHA)	Pio Gianmaria, Salzano Ernesto	15 04	11:00 11:30
Fire and safety research	Baranovskiy	N.	<i>Tomsk Polytechnic University, School of Energy and Power Engineering, Tomsk, Russian Federation</i>	Mathematical Simulation of Forest Fire Impact on Railway Carriage within 2D Deterministic Model	Baranovskiy N., Malinin A.	15 04	11:00 11:30
Fire and safety research	Kasymov	Denis	<i>Tomsk State University, Department of Physical and Computational Mechanics, Tomsk, Russian Federation</i>	Assessment of the thermal insulation capacity and integrity of building structures and fragments in a fire using infrared thermography	Kasymov Denis, Agafontsev Mikhail, Reyno Vladimir, Orlov Konstantin, Martynov Pavel, Perminov Vladislav	15 04	11:00 11:30

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Fire and safety research	Kirienko	V.	<i>Tomsk Polytechnic University, School of Energy and Power Engineering, Tomsk, Russian Federation</i>	Mathematical Simulation of Smoke Production from Forest Fuel Element Affected by Forest Fire within 1D Deterministic Model	Kirienko V., Baranovskiy N.	15 04	11:00 11:30
Fire and safety research	Báthory	Csongor	<i>University of Miskolc, Institute of Energy- and Quality Affairs, Miskolc-Egyetemváros, Hungary</i>	Industrial air pollution indicator system with light signal	Báthory Csongor, Dobó Zsolt	15 04	11:00 11:30
Novel concepts, technologies and systems 2	Fonzeu Monguen	Cedric Karel	<i>Institute of Engineering Thermophysics, Chinese Academy of Sciences, Combustion Chemistry, BEIJING, China</i>	Stable chromium-oxide catalysts for oxidative dehydrogenation of propane into propene.	Fonzeu Monguen Cedric Karel, El Kasmi Achraf, Arshad Muhammad Fahad, Mountapbeme Kouotou Patrick, Tian Zhen-Yu	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Tekgul	Bulut	<i>Aalto University, Department of Mechanical Engineering, Espoo, Finland</i>	A load balanced chemistry model with analytical Jacobian for faster reactive simulations in OpenFOAM	Tekgul Bulut, Kahila Heikki, Peltonen Petteri, Gadalla Mahmoud, Kaario Ossi, Vuorinen Ville	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Grenga	Temistocle	<i>RWTH-AACHEN UNIVERSITY, Institut für Technische Verbrennung, Aachen, Germany</i>	Deep learning-driven interpolation of experimental and simulation data of turbulent combustion	Ren Yihua, Yan Haoxin, Grenga Temistocle, Pilva Pourya, Pitsch Heinz	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Schmidt	Nikolas	<i>Friedrich-Alexander Universität (FAU) Erlangen-Nürnberg, Lehrstuhl für Technische Thermodynamik (LTT), Erlangen, Germany</i>	Optimization of low-NOx partially premixed hydrogen burners using numerical simulation and flame diagnostics	Schmidt Nikolas, Bollmann Jonas, Zigan Lars, Will Stefan	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Zhang	Feichi	<i>Karlsruhe Institute of Technology, Engler-Bunte-Institute/Chair of Combustion Technology, Karlsruhe, Germany</i>	Evaluation of NOx emissions from high energy density sulfur combustion	Zhang Feichi, Sebbar Nadia, Zirwes Thorsten, Kurjata Maksymilian, Fedoryk Michal, Stefan Harth, Habisreuther Peter, Trimis Dimosthenis, Bockhorn Henning	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Faingold	Galia	<i>Technion I.I.T, Aerospace Engineering, Haifa, Israel</i>	Enhancing ammonia combustion with hydrogen-ozone mixtures: plasma assisted reforming, ignition and flames	Faingold Galia, Lefkowitz Joseph K.	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Ning	Daoguan	<i>Eindhoven University of Technology, Department of Mechanical Engineering, Eindhoven, The Netherlands</i>	Combustion of laser ignited single iron particles: effect of laser power and formation of the spear point	Ning Daoguan, Shoshin Yuriy, van Oijen Jeroen, de Goey Philip, Finotello G.	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Patel	Ravi	<i>Eindhoven university of technology, Applied Physics, Eindhoven, Netherlands Antilles</i>	Filamentary DBD plasma-assisted ignition in methane-air flows at near atmospheric pressure conditions	Patel Ravi, Emre Yunus, van Oijen Jeroen, Dam Nico, Nijdam Sander	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Saxena	Vertika	<i>Eindhoven University of Technology, Mechanical Engineering, Eindhoven, The Netherlands</i>	Determining thermo-acoustic stability of a system whose boundary conditions are represented by strictly positive real transfer functions.	Saxena Vertika, Kornilov Viktor, Lopez Arteaga Ines, De Goey Philip	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Giannouloudis	Alexandros	<i>Cranfield University, Propulsion Engineering Centre, School of Aerospace, Transport and Manufacturing, Wharley End, Bedfordshire, United Kingdom</i>	On the Development of an Experimental Rig for Hydrogen Micromix Combustion Testing	Giannouloudis Alexandros, Sun Xiaoxiao, Corsar Michael, Booden Scott, Singh Gaurav, Abbott David, Nallanda Devaiah, Sethi Bobby	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Shcherbanev	Sergey	<i>ETH, MAVT, CAPS lab, Zürich, Switzerland</i>	Flame anchoring of a premixed jet flame in vitiated crossflow using nanosecond repetitively pulsed discharge	Shcherbanev Sergey, Solana Perez Roberto, Doll Ulrich, Noiray Nicolas, Moriniere T.	15 04	11:30 12:00
Novel concepts, technologies and systems 2	Hidegh	Gyöngyvér	<i>Budapest University of Technology and Economics, Department of Energy Engineering, Budapest, Hungary</i>	Experimental investigation of waste cooking oil combustion in a novel turbulent swirl burner	Hidegh Gyöngyvér, Csemányi Dávid, Józsa Viktor, Chong Cheng Tung, Kun-Balog A.	15 04	11:30 12:00
Solid fuels combustion, pyrolysis and gasification 2	Stančin	Hrvoje	<i>University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia</i>	Influence of the synergistic effect on the biomass-plastic co-pyrolysis product yield	Stančin Hrvoje, Mkulcic Hrvoje, Strezov Vladimir, Duic Neven	15 04	12:00 12:30



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Solid fuels combustion, pyrolysis and gasification 2	Nath	Syamantak	<i>The Technion, Faculty of Aerospace Engineering, Haifa, Israel</i>	Parametric Study of a Non-Toxic Hypergolic Hybrid Rocket Propellant Combination	Nath Syamantak, Laso Iker, Lefkowitz Joseph	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Netzer	Corinna	<i>Norwegian University of Science and Technology, Energy and Process Engineering, Trondheim, Norway</i>	Nitrogen Oxide Prediction within a Woody Biomass Fuel Bed Using Detailed Chemistry	Netzer Corinna, Li Tian, Løvås Terese	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Sieradzka	Malgorzata	<i>AGH University of Science and Technology, Faculty of Metals Engineering and Industrial Computer Science, Cracow, Poland</i>	Analysis of biomass and RDF wastes gasification process using TG-MS technique	Sieradzka Malgorzata, Mlonka-Medrala Agata, Magdziarz Aneta	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Śliz	Maciej	<i>AGH University of Science and Technology, Faculty of Metals Engineering and Industrial Computer Science, Cracow, Poland</i>	Investigation of the hydrothermal treatment of sewage sludge and its dewaterability enhanced by additives	Wilk Malgorzata, Sliz Maciej, Lubieniecki Boguslaw	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Wilk	Malgorzata	<i>AGH University of Science and Technology, Department of Heat Engineering & Environment Protection, Cracow, Poland</i>	Hydrothermal carbonization of the wet fraction mechanically separated from municipal mixed waste: analysis of main combustion parameters	Wilk Malgorzata, Lombardi Lidia, Sliz Maciej, Michon Aleksander, Magdziarz Aneta, Fabrizi Simone, Czerwinska Klaudia	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Williams	Alan	<i>Leeds University, School of Chemical and Process Engineering, Leeds, United Kingdom</i>	Analysis of Particulate Emissions from a Small Gasifier Cookstove	Price-Allison Andrew, Lea-Langton Amanda, Mitchell Edward, Williams Alan, Spracklen Dominick, McFiggans Gordon, Allan James, Ting Yu-Chieh, Burns Iain, Wilson David, Roy Robert	15 04	12:00 12:30
Solid fuels combustion, pyrolysis and gasification 2	Zadravec	Tomas	<i>University of Maribor, Faculty of Mechanical Engineering, Maribor, Slovenia</i>	CFD Combustion modelling of a residential wood pellet boiler: effect of boundary conditions on freeboard predictions	Zadravec Tomas, Kokalj Filip, Rajh Boštjan, Samec Niko	15 04	12:00 12:30
Formation and control of pollutants and greenhouse gases	Maesen	Arthur	<i>GDTech, CFD, Liège, Belgium</i>	CFD Modeling and Validation For Once-Through Steam Generator Using Open FOAM	Maesen Arthur, Adrien Chatel, Askari Mahvelati Ehsan, Turco Neto Eugenio, Forcinito Mario, Fitschy Laurent	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Bešenić	Tibor	<i>Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Department of Energy, Power and Environmental Engineering, Zagreb, Croatia</i>	Modelling of Nitrogen Oxides Formation During Pulverized Fuel Combustion	Bešenić Tibor, Radojević Miloš, Mikulčić Hrvoje, Manić Nebojša, Vučanović Milan	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Drubetskoi	Eugen	<i>Technische Universität Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	An overview on scale-up of combustion systems under consideration of NO _x emissions	Drubetskoi Eugen, Eckart Sven, Krause Hartmut	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Grigoreva	Ekaterina	<i>Technical University of Munich, Aerospace and Geodesy, Assistant Professorship of Sustainable Future Mobility, Munich, Germany</i>	Estimation of surrogates of alternative jet fuels for subsequent modeling of soot precursors, soot, CO, and NO _x emissions	Grigoreva Ekaterina, Jocher Agnes	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Nishad	Kaushal	<i>Technische Universität Darmstadt, Institute of Energy of Power-plant Technology, Institute of Reactive Flows and Diagnostics (RSM), Darmstadt, Germany</i>	Modeling of AdBlue Film Formation, Reaction Kinetics and Deposit Formation in Diesel DeNO _x SCR System	Nishad Kaushal, Ries Florian, Li Yongxiang, Hasse Christian, Sadiki Amsini	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Koutsonikolas	Dimitris	<i>Centre for Research and Technology Hellas (CERTH), Chemical Process & Energy Resources Institute (CPERI), Thessaloniki, Greece</i>	Novel membrane contactor processes for post-combustion gas pollutants removal in the maritime sector	Koutsonikolas Dimitris, Asimakopoulou Akrivi, Mouratidis Michalis, Skevis George	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Coppola	Antonio	<i>Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili, Napoli, Italy</i>	Direct dry carbonation of mining waste in a fluidized bed	Coppola Antonio, Scala Fabrizio, Azadi Mehdi, Edraki Mansour	15 04	12:30 13:00

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Formation and control of pollutants and greenhouse gases	Farrokhi	Farshid Y.	<i>Koc University, Mechanical Engineering, Istanbul, Turkey</i>	Investigation of NOx emissions from combustion of ammonia/hydrogen/air in a porous burner	Farrokhi Y. Farshid, Karabeyoglu Arif	15 04	12:30 13:00
Formation and control of pollutants and greenhouse gases	Mentes	Dóra	<i>University of Miskolc, Institute of Energy and Quality, Miskolc, Hungary</i>	Investigation of air pollutants from waste-combustion	Mentes Dóra, Póliska Csaba	15 04	12:30 13:00
Missing Naples ? Join us for a Virtual Tour	Rizzo	Antonella	<i>Neapolitan Professional Guide</i>	Missing Naples ? Join us for a Virtual Tour		15 04	13:15 13:45
Plenary 5	Abian	Maria	<i>University of Zaragoza, Spain</i>	Sulfur and nitrogen gas-phase chemistry: its role in a new energetic approach	Chair: Andrea D'Anna	15 04	14:00 15:00
Spray, droplet and supercritical combustion	Badhe	Abhijeet	<i>CERFACS, CFD Team, Toulouse, France</i>	High-fidelity Large Eddy Simulations of the flame transfer function of a turbulent swirling spray flame	Badhe Abhijeet, Laera Davide, Gicquel Laurent	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Carvalho Santos	Artur	<i>CentraleSupélec, EM2C Laboratory, Gif-sur-Yvette, France</i>	Modeling droplet evaporation of multi-component liquid fuel	Carvalho Santos Artur, Vié Aymeric, Sacomano Filho Fernando Luiz	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Monnier	Florian	<i>CORIA - CNRS, Normandie Université, INSA Rouen Normandie, 76800, Saint-Etienne Du Rouvray, France</i>	A reduced chemistry for the simulation of CH ₄ /O ₂ supercritical flames.	Monnier Florian, Ribert Guillaume	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Dasgupta	Malini	<i>University Duisburg Essen, Institute for combustion and Gas dynamics, Duisburg, Germany</i>	Investigation of siloxanes as functionalization reagents for in-line spray-flame synthesis and coating of TiO ₂ nanoparticles	Dasgupta Malini, Sellmann Johannes, Wiggers Prof. Dr. Hartmut	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Deshmukh	Abhishek	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	A Reduced-order Multi-zone Combustion Model for Turbulent Reactive Sprays in Compression Ignition Engines	Deshmukh Abhishek Y., Grenga Temistocle, Davidovic Marco, Pitsch Heinz	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Fröde	Fabian	<i>Institute for Combustion Technology, RWTH Aachen University, Faculty of Mechanical Engineering, Aachen, Germany</i>	Large Eddy Simulation of the SpraySyn Burner Using a Three-Stream Flamelet Model	Fröde Fabian, Ratuschny Christian, Grenga Temistocle, Bieber Malte, Kneer Reinhold, Tischendorf Ricardo, Schmid Hans-Joachim, Pitsch Heinz	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Goeb	Dominik	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Impact of Preferential Evaporation on Ignition in Oxymethylene Ethers – n-Dodecane-Blends	Goeb Dominik, Davidovic Marco, Bode Mathis, Cai Liming, Pitsch Heinz	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Ferrão	Inês	<i>AEROG/Universidade da Beira Interior and IDMEC/IN+/Instituto Superior Técnico, Aerospace Science Department, Lisboa, Portugal</i>	The influence of aluminum particles in a Hydroprocessed Vegetable Oil combustion	Ferrão Inês A. S., Mendes Miguel A. A., Moita Ana S. O. H., Silva André R. R.	15 04	15:00 15:30
Spray, droplet and supercritical combustion	Brito Lopes	Alisson Vinicius	<i>Coventry University, Centre for Fluid and Complex Systems, Coventry, United Kingdom</i>	Impact of the number of computational parcels on the prediction of highly swirling spray-flame mode and structure	Brito Lopes Alisson Vinicius, Emekwuru Nwabueze	15 04	15:00 15:30
Biofuels, biochemicals and biorefinery	Ghabi	Ahlem	<i>University of Orleans, ICARE CNRS, IUT GTE, Orleans, France</i>	Numerical and experimental study of laminar syngas flames	Ghabi Ahlem, Manseur Fathia, Escot Bocanegra Pablo, Sarh Brahim, Boushaki Toufik	15 04	15:30 16:00
Biofuels, biochemicals and biorefinery	Richter	Sandra	<i>German Aerospace Center (DLR), Institute of Combustion Technology, Stuttgart, Germany</i>	Study on the influence of oxymethylene ethers (OMe) blending a diesel surrogate	Richter Sandra, Kathrotia Trupti, Braun-Unkhoff Marina, Naumann Clemens, Köhler Markus	15 04	15:30 16:00
Biofuels, biochemicals and biorefinery	Di Lauro	Francesca	<i>Università degli studi di Napoli Federico II, Scienze chimiche, Napoli, Italy</i>	Outline of a Process for the Hydrothermal Liquefaction of a Tannery Sludge for Biofuel Production	Di Lauro Francesca, Balsamo Marco, Solimene Roberto, Salatino Piero, Montagnaro Fabio, Caracciolo Daniela, Migliaccio Renata	15 04	15:30 16:00



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Biofuels, biochemicals and biorefinery	Ganda	Elvis Tinashe	<i>Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Università degli Studi di Napoli Federico II, Napoli, Italy</i>	Torrefaction and catalytic pyrolysis of olive stone to produce higher quality pyrolysis oils	Ganda Elvis Tinashe, Urciuolo Massimo, Coppola Antonio, Ruoppolo Giovanna, Scala Fabrizio, Brachi Paola, Migliaccio Renata, Salatino Piero	15 04	15:30 16:00
Biofuels, biochemicals and biorefinery	Michelbach	Christian	<i>University of Leeds, School of Chemical and Process Engineering, Leeds, United Kingdom</i>	Autoignition and Heat Release Behaviour of iso-Butanol and Gasoline Blended Fuels	Michelbach Christian, Tomlin Alison	15 04	15:30 16:00
Oxyfuel combustion	Agizza	Maria Angela	<i>Technische Universität Darmstadt, Reactive Flows and Diagnostics, Darmstadt, Germany</i>	Modeling of an oxy-fuel combustor combining reactor network and residence time data	Agizza Maria Angela, Bürkle Sebastian, Becker Lukas Georg, Bagheri Ghobad, Greifenstein Max, Wagner Steven, Faravelli Tiziano, Dreizler Andreas	15 04	15:30 16:00
Oxyfuel combustion	Sane	Laxmi	<i>Physikalisch Technische Bundesanstalt Braunschweig, Physical Chemistry, Braunschweig, Germany</i>	An experimental and modeling study on the ignition properties of N-and SEC-Butanol at intermediate to high temperatures and pressures for aviation applications	Sane Laxmi, Agarwal Sumit, Shu Bo, Fernandes Ravi X	15 04	15:30 16:00
Laminar and turbulent flames 3	Jurić	Filip	<i>University of Zagreb, Department of Energy, Power and Environmental Engineering, Zagreb, Croatia</i>	Development of Correlation Functions for Autoignition and Laminar Flame Speed Tabulation in Coherent Flame Models	Juric Filip, Ban Marko, Vujanovic Milan, Priesching Peter, Duic Neven	15 04	16:00 16:30
Laminar and turbulent flames 3	Gokalp	Iskender	<i>CNRS, ICARE, ORLEANS, France</i>	Numerical Investigations on Flashback Limits of Premixed Methane-Hydrogen-Air Laminar Flames	Boncu Emre, Guleryuz Dilay, Kiymaz Tahsin Berk, Karaca Mehmet, Yilmaz Baris, Gokalp Iskender, Allouis Christophe	15 04	16:00 16:30
Laminar and turbulent flames 3	Lavabre	Guilhem	<i>Université Paris-Saclay, Laboratoire EM2C, Gif s/Yvette, France</i>	Uncertainty quantification for the LES of the H2 Cabra flame	LAVABRE Guilhem, Gicquel Olivier, Vicquelin Ronan	15 04	16:00 16:30
Laminar and turbulent flames 3	Berger	Lukas	<i>RWTH Aachen University, Institute for Combustion Technology, Aachen, Germany</i>	Interactions of Turbulence and Thermoeffusive Instabilities in Premixed Lean Hydrogen Flames	Berger Lukas, Attili Antonio, Pitsch Heinz	15 04	16:00 16:30
Laminar and turbulent flames 3	Fritsche	Chris	<i>TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany</i>	Temperature and pressure dependency of the burning velocity in laminar premixed methanol and polyoxymethylene dimethyl ether (OME1, OME2, and OME3) flames	Fritsche Chris, Shrestha Krishna Prasad, Eckart Sven, Mauss Fabian, Krause Hartmut	15 04	16:00 16:30
Laminar and turbulent flames 3	Grenga	Temistocle	<i>RWTH-AACHEN UNIVERSITY, Institut für Technische Verbrennung, Aachen, Germany</i>	Predictive data driven turbulence-combustion model through Super Resolution Generative Adversarial Network	Grenga Temistocle, Nista Ludovico, Schumann Christoph, Karimi Amir, Scialabba Gandolfo, Bode Mathis, Attili Antonio, Pitsch Heinz	15 04	16:00 16:30
Laminar and turbulent flames 3	Luo	Yujuan	<i>Technische Universität Darmstadt, Institute for Simulation of Reactive Thermo-Fluid Systems (STFS), Darmstadt, Germany</i>	Numerical and experimental investigation of laminar methane-air Bunsen flames with H2 addition	Luo Yujuan, Breicher Adrian, Schottissek Arne, Ferraro Federica, Dreizler Andreas, Geyer Dirk, Hasse Christian	15 04	16:00 16:30
Laminar and turbulent flames 3	Singh	Manish	<i>Indian Institute of Technology, JODHPUR, India</i>	Numerical study of hydrogen-enriched methane-air inverse diffusion flames	Singh Manish, Mukhopadhyay Sudipto	15 04	16:00 16:30
Laminar and turbulent flames 3	Lamioni	Rachele	<i>Pisa University, DICI (Department of Civil and Industrial Engineering), Pisa, Italy</i>	Characterization of premixed flames in slit geometry: morphology and propagation	Lamioni Rachele, Cinnirella Sebastiano, Bronzoni Cristiana, Folli Marco, Tognotti Leonardo, Galletti Chiara	15 04	16:00 16:30
Laminar and turbulent flames 3	Troiani	Guido	<i>C.R. ENEA CASACCIA, Department of Energy Technologies and Renewable Sources, Rome, Italy</i>	Experimental assessment of intrinsic instabilities in jet flames fed with hydrogen enriched methane-air mixtures	Troiani Guido, Lapenna Pasquale Eduardo, Lamioni Rachele, Creta Francesco	15 04	16:00 16:30

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Laminar and turbulent flames 3	Ahmed	Umair	Newcastle University, School of Engineering, Newcastle-Upon-Tyne, United Kingdom	Influence of wall boundary conditions on premixed flame-wall interaction in turbulent boundary layers	Ahmed Umair, Chakraborty Nilanjan, Klein Markus	15 04	16:00 16:30
Laminar and turbulent flames 3	Attili	Antonio	University of Edinburgh, School of Engineering, Edinburgh, United Kingdom	Investigation of the Extrapolation Performance of Machine Learning Models for LES of Turbulent Premixed Combustion	Attili Antonio, Sorace Nicola, Nista Ludovico, Schumann Christoph, Karimi Amir, Scialabba Gandolfo, Grenga Temistocle, Pitsch Heinz	15 04	16:00 16:30
Laminar and turbulent flames 3	Howarth	Thomas L.	Newcastle University, School of Engineering, Newcastle, United Kingdom	A characteristic scaling model for premixed lean freely-propagating hydrogen flames	Howarth Thomas L., Aspden Andrew J.	15 04	16:00 16:30
Combustion diagnostics 2	Lechner	Valentin	CNES, Direction Des Lanceurs, Paris, France	Instantaneous surface temperature measurements in combustion by an adapted processing of the Laser Induced Phosphorescence signal	Lechner Valentin, Betrancourt Christopher, Mirat Clément, Scouffaire Philippe, Ducruix Sébastien	15 04	16:30 17:00
Combustion diagnostics 2	Truffot	Marie	Safran Aircraft Engine and EM2C Lab - CNRS, CentraleSupélec, Université Paris Saclay, 77550, Moissy-Cramayel, France	Bistability of a modulated downwards oriented laminar flame	Truffot Marie, Ivaldi Axel, Renaud Antoine, Richecoeur Franck, Zimmer Laurent	15 04	16:30 17:00
Combustion diagnostics 2	Agarwal	Sumit	Physikalisch technische Bundesanstalt Braunschweig, Physical Chemistry, Braunschweig, Germany	Low-pressure and high-temperature Gas-Phase-Kinetics of 1 and 2-Butanol using laser absorption spectroscopy: an experimental study	Agarwal Sumit, Sane Laxmi, Shu Bo, Fernandes Ravi Xavier	15 04	16:30 17:00
Combustion diagnostics 2	Johe	Pascal	Technical University of Darmstadt, Department of Mechanical Engineering, Reactive Flows and Diagnostics, Darmstadt, Germany	Introducing a novel pressurized side-wall quenching burner: characterization of the combustion dynamics	Johe Pascal, Zentgraf Florian, Greifenstein Max, Steinhausen Matthias, Hasse Christian, Dreizler Andreas	15 04	16:30 17:00
Combustion diagnostics 2	Kiefer	Johannes	University of Bremen, Technische Thermodynamik, Bremen, Germany	Schlieren imaging study of Laser-Induced breakdown in air: implications for combustion diagnostics	Kiefer Johannes, Hicken Sean, Williamson Andrew, Lampe Anja	15 04	16:30 17:00
Combustion diagnostics 2	Lubnow	Marc	University of Duisburg-Essen, IVG, Duisburg, Germany	Simultaneous measurement of film thickness and solute concentration of aqueous urea solutions with two urea derivatives using NIR absorption	Lubnow Marc, Endres Torsten, Dreier Thomas, Schulz Christof	15 04	16:30 17:00
Combustion diagnostics 2	Pestel	Andreas	TU Bergakademie Freiberg, Institute of Thermal Engineering, Freiberg, Germany	Development of a methodology to investigate the thermal decomposition of paint and coatings on a laboratory scale	Pestel Andreas, Flößner Tommy, Eckart Sven, Krause Hartmut	15 04	16:30 17:00
Combustion diagnostics 2	Stuhr	Michael	Kiel University, Institute of Physical Chemistry, Kiel, Germany	Quantitative and Sensitive Mid-Infrared Frequency Modulation Detection of HCN behind Shock Waves	Stuhr Michael, Hesse Sebastian, Friedrichs Gernot	15 04	16:30 17:00
Combustion diagnostics 2	van der Kley	Sani	Technical University of Darmstadt, Reactive flows and diagnostics, Darmstadt, Germany	Oil Film Thickness and Temperature Measurement Method for in-situ Diagnostic	van der Kley Sani, Einspieler Valentina, Goet Gabriele, Maliha Malki, Schmidt Anna, Kubach Heiko, Koch Thomas, Wagner Steven	15 04	16:30 17:00
Combustion diagnostics 2	Nourani Najafi	Seyed Bahram	University of Groningen, Faculty of Science and Engineering, Energy and Sustainability Research Institute, Energy Conversion, Groningen, The Netherlands	Spectrally resolved measurements of radiation from laminar coflow diffusion methane/air flames seeded with ammonia	Nourani Najafi Seyed Bahram, Levinsky Howard, Mokhov Anatoli	15 04	16:30 17:00
Combustion diagnostics 2	Collins	Joshua	The University of Edinburgh, School of Engineering, Institute of Multiscale Thermofluids, Edinburgh, United Kingdom	Simultaneous 1D hybrid fs/ps pure rotational CARS and CH ⁺ chemiluminescence imaging in a side-wall quenching burner	Joshua Collins, David Escofet-Martin, Anthony O. Ojo, Florian Zentgraf, Andreas Dreizler, Brian Peterson	15 04	16:30 17:00



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Combustion diagnostics 2	Nicolas	Alexander	<i>The University of Edinburgh, School of Engineering, Institute for Multiscale Thermofluids, Edinburgh, United Kingdom</i>	Evaluation of Wavelet-based Optical Flow Velocimetry for Wall-Bounded Flows	Nicolas Alexander, Zentgraf Florian, Johe Pascal, Böhm Benjamin, Dreizler Andreas, Peterson Brian	15 04	16:30 17:00
Combustion diagnostics 2	Ojo	Anthony	<i>University of Edinburgh, Institute for Multiscale Thermofluids, Edinburgh, United Kingdom</i>	High-speed surface phosphor thermometry in a fixed-volume combustion chamber	Ojo Anthony, Escofet-Martin David, Collins Joshua, Peterson Brian	15 04	16:30 17:00
Reaction kinetics 3	Santos	Luan Gabriel Fonseca	<i>Universidade Federal Rural do Rio de Janeiro, Departamento de Química Fundamental, Seropédica, Brazil</i>	Theoretical Investigation of Rate Coefficients for Methyl Acetate Reactions	Santos Luan Gabriel Fonseca, Tejero Tatiane, Xavier Jr Neubi Francisco, Machado Gladson, Bauerfeldt Glauco	15 04	17:00 17:30
Reaction kinetics 3	Fuller	Mark	<i>RWTH Aachen University, Physico-Chemical Fundamentals of Combustion, Aachen, Germany</i>	NO _x -Cycling Reactions of Oxy and Peroxy Radicals	Fuller Mark, Döntgen Malte, Minwegen Heiko, Preußker Matthias, Wildenberg Alina, Heufer Karl Alexander	15 04	17:00 17:30
Reaction kinetics 3	Kopp	Wassja A.	<i>RWTH Aachen University, Chair of Technical Thermodynamics, Aachen, Germany</i>	Anharmonicity in Hydrogen Abstraction by HO ₂	Niessen Oliver, Kopp Wassja A., Minwegen Heiko, Beeckmann Joachim, Leonhard Kai	15 04	17:00 17:30
Reaction kinetics 3	Nanjaiah	Monika	<i>University of Duisburg-Essen, Department of Fluid Dynamics, Institute for Combustion and Gas Dynamics, Duisburg, Germany</i>	Compact, global-skeletal reaction mechanisms for combustion of xylene/air and n-butanol/air	Nanjaiah Monika, Roderigo Kevin, Janbazi Hossein, Kempf Andreas, Wlokas Irenaeus	15 04	17:00 17:30
Reaction kinetics 3	Ramirez	Astrid	<i>University of Stuttgart, Institute of Combustion Technology for Aerospace Engineering (IVLR), Stuttgart, Germany</i>	Reaction model development and optimization for 1,3,5-trimethylbenzene – an important aromatic for kerosene surrogates	Ramirez Astrid, Kathrotia Trupti, Methling Torsten, Braun-Unkhoff Marina, Riedel Uwe	15 04	17:00 17:30
Reaction kinetics 3	Roy	Indu Sekhar	<i>RWTH Aachen University, Mechanical Engineering, Aachen, Germany</i>	Reaction Kinetics for low-temperature oxidation of 1,3-dioxolane	Roy Indu Sekhar, Huang Can, Leonhard Kai	15 04	17:00 17:30
Reaction kinetics 3	Sebbar	Nadia	<i>Karlsruhe Institut of Technology, Engler-Bunte-Institut Verbrennungstechnik, Karlsruhe, Germany</i>	Thermochemical and Kinetic Study of the Reaction of the α -Naphthalenyl Radical with Molecular Oxygen	Sebbar Nadia, Bockhorn Henning, Bozzelli Joseph. W., Trimis Dimosthenis	15 04	17:00 17:30
Reaction kinetics 3	Shaqiri	Shkelqim	<i>University of Duisburg-Essen, Mass Spectrometry in Reactive Flows, Duisburg, Germany</i>	An experimental investigation of high-pressure oxidation pathways of iso-octane	Shaqiri Shkelqim, Kaczmarek Dennis, Kasper Tina	15 04	17:00 17:30
Reaction kinetics 3	Shrestha	Krishna Prasad	<i>Brandenburg University of Technology, Thermodynamics and Thermal Process Engineering, Cottbus, Germany</i>	A Kinetic Modeling Study for the Effect of NO _x on Oxymethylene ethers (OMe _n , n = 0 and 1) oxidation	Shrestha Krishna Prasad, Giri Binod Raj, Seidel Lars, Farooq Aamir, Mauss Fabian	15 04	17:00 17:30
Reaction kinetics 3	Pratali Maffei	Luna	<i>Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica, Milano, Italy</i>	Lumping of the low temperature oxidation of n-pentane: application of MEL	Pratali Maffei Luna, Pelucchi Matteo, Faravelli Tiziano	15 04	17:00 17:30
Reaction kinetics 3	Sabia	Pino	<i>National Council of Research, Institute of Sustainable Energy and Mobility, Napoli, Italy</i>	Interaction of NH ₃ on the H ₂ oxidation chemistry	Sabia Pino, Manna Maria Virginia, Ragucci Raffaele, de Joannon Mara	15 04	17:00 17:30
Reaction kinetics 3	Nagy	Tibor	<i>Research Centre for Natural Sciences, Institute of Materials and Environmental Chemistry, Budapest, Hungary</i>	Minimal Spline Fit: a model free method for determining statistical noise of experimental data series	Nagy Tibor, Turányi Tamás	15 04	17:00 17:30
Soot, nanoparticles, PAH and other large molecules 2	Kholghy	Reza	<i>Carleton University, Mechanical and Aerospace Engineering, Ottawa, Canada</i>	Morphology, Composition and Optical Properties of Jet Engine-like Soot Made by Flame Spray Pyrolysis	Kholghy Reza	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Ferraro	Federica	<i>Technical University of Darmstadt, Simulation of reactive Thermo-Fluid Systems, Darmstadt, Germany</i>	Large eddy simulation of the Delft Adelaide Flame III using a quadrature-based method of moments	Ferraro Federica, Gierth Sandro, Salenbauch Steffen, Han Wang, Hasse Christian	15 04	17:30 18:00

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Soot, nanoparticles, PAH and other large molecules 2	Nanjalah	Monika	<i>University of Duisburg-Essen, Department of Fluid Dynamics, Institute for Combustion and Gas Dynamics, Duisburg, Germany</i>	Impact of early particle formation and combustion in iron pentacarbonyl doped flames on experimentally observable quantities	Wlokas Irenaeus, Nanjaiah Monika, Lalanne Matthieu, Pilipody-Best Anita, Sellmann Johannes, Kempf Andreas, Cheskis Sergey, Rahinov Igor	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Ren	Yihua	<i>RWTH-AACHEN UNIVERSITY, Institut für Technische Verbrennung, AACHEN, Germany</i>	Single droplet model for particle formation in flame spray pyrolysis	Ren Yihua, Cai Jinzhi, Pitsch Heinz	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Sellmann	Johannes	<i>Duisburg-Essen, Fluidynamics, Duisburg, Germany</i>	Hybrid LES/Lagrange-FDF Approach for the Sub-grid Modelling of Turbulent Nanoparticle Synthesis	Sellmann Johannes, Wolny Patrick, Baik Seung-Jin, Samer Suleiman, Wiggers Hartmut, Wlokas Irenaeus, Kempf Andreas	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Lalanne	Matthieu	<i>Open University of Israel, Gush Dan, Raanana, Israel</i>	Chemiluminescence study of nanoparticle synthesis H ₂ /O ₂ /Ar flame doped with iron pentacarbonyl	Lalanne Matthieu, Pilipodi Best Anita, Wlokas Irenaeus, Rahinov Igor, Cheskis Sergey	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Apicella	Barbara	<i>CNR, STEMS, Naples, Italy</i>	On the application of EELS for investigating soot nanostructure	Apicella Barbara, Russo Carmela, Ciajolo Anna, Pawlyta Mirosława	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	De Falco	Gianluigi	<i>University Of Naples, DICMAPI, Napoli, Italy</i>	Exploring nanomechanical properties of soot particles by atomic force microscopy nanoindentation	De Falco Gianluigi, Commodo Mario, Minutolo Patrizia, D'Anna Andrea, Carbone Francesco	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Parisi	Arianna	<i>Università di Napoli Federico II, Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Napoli, Italy</i>	Electrophoretic deposition of carbon nanoparticles films produced in flame: a preliminary investigation	Parisi Arianna, Carotenuto Claudia, De Falco Gianluigi, Sirignano Mariano, Di Natale Francesco	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Picca	Francesca	<i>Università Degli Studi Di Napoli Federico II, Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Napoli, Italy</i>	On the Binding properties and HOMO-LUMO gaps of Polycyclic Aromatic Hydrocarbon clusters through DFT calculations	Picca Francesca, Gentile Francesco Silvio, De Falco Gianluigi, Commodo Mario, Minutolo Patrizia, Causà Mauro, D'Anna Andrea	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Russo	Carmela	<i>CNR, STEMS, Naples, Italy</i>	Carbon dots from fuel-rich combustion: analysis of absorption and emission spectra of size-segregated components of blue-fluorescing species	Russo Carmela, Apicella Barbara, Ciajolo Anna	15 04	17:30 18:00
Soot, nanoparticles, PAH and other large molecules 2	Tian	Lu	<i>Imperial College London, Mechanical Engineering, London, United Kingdom</i>	The impact of soot diffusion in turbulent sooting jet flame	Tian Lu, Lindstedt Peter	15 04	17:30 18:00
Gas turbine combustion 2	Zhang	Fangyu	<i>University of Birmingham, Mechanical Engineering, Birmingham, United Kingdom</i>	Combustion and Emission Characteristics of Ammonia/Hydrogen dual-fuelled Generic Gas Turbine	Zhang Fangyu, Chen Gen, Wu Dawei	15 04	18:00 18:30
Gas turbine combustion 2	Wirtz	Jonathan	<i>CERFACS, CFD, Toulouse, France</i>	Numerical Study of Alternative Fuels Burning in a Swirl-Stabilized Combustion Chamber	Wirtz Jonathan, Riber Eleonore, Cuenot Benedicte	15 04	18:00 18:30
Gas turbine combustion 2	Shastry	Varun	<i>CERFACS, CFD, Toulouse, France</i>	Large Eddy Simulations of complex multicomponent swirling spray flames in a realistic gas turbine combustor	Shastry Varun, Riber Eleonore, Gicquel Laurent, Cuenot Bénédicte, Bodoc Virginel	15 04	18:00 18:30
Gas turbine combustion 2	Nassini	Pier Carlo	<i>University of Florence, Department of Industrial Engineering, Firenze, Italy</i>	Impact of Hydrogen Addition on the NO _x Emission of an Industrial Annular Combustor	Meloni Roberto, Nassini Pier Carlo, Andreini Antonio	15 04	18:00 18:30
Gas turbine combustion 2	Gkantonas	Savvas	<i>University of Cambridge, Department of Engineering, Cambridge, United Kingdom</i>	Effects of mixing history and lubricant oil impurities on the autoignition of methane under gas turbine conditions	Gkantonas Savvas, Iavarone Salvatore, Mastorakos Epaminondas	15 04	18:00 18:30
Gas turbine combustion 2	Kovaleva	Marina	<i>Cardiff University, College of Physical Sciences and Engineering, Cardiff, United Kingdom</i>	Empirical and Numerical Investigation of Turbulent Flows in a Novel Design Burner for Ammonia-Hydrogen Combustion	Kovaleva Marina, Mashruk Syed, Valera-Medina Agustin	15 04	18:00 18:30



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Gas turbine combustion 2	Both	Ambrus	<i>Barcelona Supercomputing Center (BSC), Computer Applications in Science & Engineering, Barcelona, Spain</i>	Optimization of the progress variable definition using a genetic algorithm for the combustion of complex fuels	Both Ambrus, Mira Daniel, Lehmkuhl Oriol	15 04	18:00 18:30
Gas turbine combustion 2	Novoselov	Alex G.	<i>ETH Zürich, Mechanical and Process Engineering, Zürich, Switzerland</i>	Large Eddy Simulations of Boundary Layer Flashback in Turbulent Swirling Flows	Novoselov Alex G., Ebi Dominik, Noiray Nicolas	15 04	18:00 18:30
Poster Awards and Closing Ceremony				Poster Awards and Closing Ceremony		15 04	18:30 19:00