



PROGRAM OF THE
FOURTH MEDITERRANEAN COMBUSTION SYMPOSIUM
Instituto Superior Técnico
Lisbon, Portugal, October 6-10, 2005



TIME TABLE OF THE FOURTH MEDITERRANEAN COMBUSTION SYMPOSIUM

Time	Thursday, 6/10	Friday, 7/10	Saturday, 8/10	Sunday, 9/10	Monday, 10/10
8:00		Registration			
9:00		Lawrence A. Kennedy	Assaad R. Masri	<i>Combustion diagnostics and radiative transfer</i>	Robert W Pitz
9:50		Iskender Gokalp	Henning Bockhorn		Pedro Coelho
10:40		Coffee Break		<i>Reaction kinetics of combustion</i>	Coffee Break
11:00		<i>Fire and explosions Solid fuels and waste combustion Pollutants formation and control</i>	<i>Turbulent combustion Stationary sprays and gas combustion systems Propulsion and engines combustion</i>	<i>New concepts in combustion technology</i>	<i>Propulsion and engines combustion Laminar flames New concepts in combustion technology</i>
13:05		Lunch Break			
14:30		Poster Sessions			<i>Propulsion and engines combustion</i>
15:00				Sightseeing Tour: Lisbon, Estoril, Cascais	<i>Laminar flames</i>
15:30		Eliseo Ranzi	<i>Turbulent combustion</i>		<i>Turbulent combustion</i>
16:20		Afternoon tea	<i>Stationary sprays and gas combustion systems</i>		
16:40		<i>Fire and explosions Solid fuels and waste combustion Pollutants formation and control</i>	<i>Pollutants formation and control</i>		
17:00	Registration				
18:30	Welcome Party				
20:00				Buffet Dinner at Palace Hotel of Seteais (Sintra)	

Friday, 7/10			
8:40	Opening speech		
Plenary sessions		Chairs: N. Selçuk	
9:00	<i>Combustion synthesis of carbon nanotubes</i> Lawrence A. Kennedy, University of Illinois at Chicago, USA		
9:50	<i>Studies on the structure of high pressure turbulent flames</i> Iskender Gokalp. Laboratoire de Combustion et Systemes Réactifs, CNRS, Orléans, France		
Parallel sessions			
	Fire and explosions	Solid fuels and waste combustion	Pollutants formation and control
	Chairs:	Chairs:	Chairs:
11:00	VIII 1 - <i>Numerical Simulation of Wind-Aided Flame Spread over Horizontal Surface of Condensed Fuel in a Model Tunnel</i> H. Y. Wang and P. Joulain <i>Laboratoire de Combustion et de Détonique C.N.R.S. UPR 9028 -E.N.S.M.A., Université de Poitiers BP 109 - Site du Futuroscope 86960, Futuroscope Cedex, France</i>	III 1 - <i>A Combined Theoretical and Experimental Investigation of Char Burnout in Co-Firing of Coal and Biomass</i> B. Moghtaderi <i>The University of Newcastle, Callaghan, NSW, Australia</i>	VII 1 - <i>Spectral properties of soot in the UV-visible range</i> A. Tregrossi*, M. Alfè**, R. Barbella*, A. Ciajolo* <i>*Istituto Ricerche sulla Combustione, CNR, Naples, Italy</i> <i>** Centro Regionale di Competenza "Analisi e Monitoraggio del Rischio Ambientale" CRdC-AMRA, Naples, Italy</i>
11:25	VIII 2 - <i>On the Flame Height Definition for Upward Flame Spread</i> J.L. Consalvi *, Y. Pizzo **, B. Porterie *, J.C. Loraud *, M. Coutin **, L. Audouin ** and J.L. Torero *** <i>* Polytech'Marseille, IUSTI, CNRS, Marseille, France</i> <i>** Institut de Radioprotection et de Sûreté Nucléaire, DPAM, Cadarache, Saint Paul lez Durance, France</i> <i>***The University of Edinburgh, Edinburgh, UK</i>	III 2 - <i>Modelling of Spontaneous Combustion of Coals</i> A. Arisoy*, B. Beamish**, E. Çetegen <i>*Istanbul Technical University, Turkey</i> <i>**University of Queensland, Australia</i>	VII 2 - <i>Improve Efficiency of Thermal Regenerators and VOCS Abatement Systems. An Experimental and Modeling Study.</i> S. Frigerio*, M. Mehl*, E. Ranzi*, D. Schweiger **, J. Schedler** <i>*Politecnico di Milano, Italy</i> <i>**CTP Air Pollution Control, Graz, Austria</i>

11:50	VIII 3 - <i>Wind and Vegetation Effects on the Dynamics of a Fire Spreading Across an Heterogeneous Mediterranean Scrub</i> J.-L. Rossi, A. Simeoni, P.-A. Santoni, F. Bosseur, F. Morandini, X. Silvani, L. Rossi, J.-H. Balbi, T. Marcelli, E. Leoni., D. Cancellieri, F. Rinieri and E. Innocenti <i>SPE, CNRS, Università di Corsica, Corti, France</i>	III 3 - <i>Modeling of NOx Emissions from Fluidized Bed Combustion of High Volatile Lignites</i> O. Afacan, Y. Gogebakan and N. Selçuk <i>Middle East Technical University, Ankara, Turkey</i>	VII 3 - <i>Influence of Hydrogen Addition to Acetylene-Air Laminar Diffusion Flames on Soot Formation</i> Praveen Pandey*, B. P. Pundir* and P. K. Panigrahi** * <i>Indian Institute of Technology, Kanpur, India</i> ** <i>German Aerospace Center, Goettingen, Germany</i>
12:15	VIII 4 - <i>Chemfire: a Zone Model for Predicting Chemical Effects of Pool Fire in a Single Forced Ventilation Enclosure</i> S. Brohez*, C. Delvosalle* and G. Marlair** * <i>Faculté Polytechnique de Mons, Belgium</i> ** <i>Institut National de l'Environnement Industriel et des Risques, Verneuil-en-Halatte (Oise), France</i>	III 4 - <i>Numerical Investigation of Air Injection During Biomass Gasification in a Two-Stage Downdraft Configuration</i> Luc Gerun, Jérôme Bellettre and Mohand Tazerout <i>Ecole des Mines de Nantes, Nantes, France</i>	VII 4 - <i>Soot Formation and Oxidation in Normal and Inverse Diffusion Flames</i> M. M. Kamal <i>Ain Shams University, Cairo, Egypt</i>
12:40	VIII 5 - <i>Importance of Buoyancy and Chemistry Modelling in Steady Rans Simulations of Well-Ventilated Tunnel Fires</i> K. Van Maele and B. Merci <i>Ghent University, Ghent, Belgium</i>	III 5 - <i>Material Recovery of Thermohardening Wastes</i> S. Leszczynski <i>AGH University of Science and Technology, Cracow, Poland</i>	
13:05	Lunch break		
14:30	Poster sessions		
	Plenary session		Chairs:
15:30	<i>Kinetic modeling of real transportation fuels</i> Eliseo Ranzi, Politecnico di Milano Italy		
	Fire and explosions	Solid fuels and waste combustion	Pollutants formation and control
	Chairs:	Chairs:	Chairs:
16:40	VIII 6 - <i>Measurements of Integral Scales in a Free Wildland Fire</i> X. Silvani, F. Morandini and L. Rossi <i>Laboratoire des Systèmes Physiques de l'Environnement, CNRS -Université de Corse, Corte, France</i>	III 6 - <i>To the Interaction of Porous Carbon Particle with Steam and Carbon Dioxide</i> V. M. Gremyachkin <i>Institute for Problems in Mechanics, Russian Academy of Sciences , Moscow, Russia</i>	VII 5 - <i>A New Ca-Based Sorbent to Remove Acid Gases</i> S. Bertagna*, F. Hugony*, N. Mazzei*, G. Migliavacca*, B. Passaro** * <i>Stazione Sperimentale per i Combustibili, San Donato Milanese, Italy</i> ** <i>Gruppo Public Consult Spa, Milano, Italy</i>

17:05	VIII 7 - <i>Model Phases of Free Air Jet Effect on Temperature in a Large Compartment with a Single Fire</i> O. Cite, M.M. Lebey and E. Lambert <i>University of Le Havre, Le Havre, France</i>	III 7 - <i>Hot-Spot Combustion of Heterogeneous Condensed Mixtures</i> S. Rashkovsky <i>Institute for Problems in Mechanics, Russian Academy of Sciences, Moscow, Russia</i>	VII 6 - <i>Homogeneous Oxidation of Volatile Nitrogen (NH₃, HCN) to Nitrogen Oxides: a Modeling Study of The Effect of Alkali Vapors</i> J. R. Hernández and P. Kilpinen <i>Åbo Akademi University, Turku/Åbo, Finland</i>
17:30	VIII 8 - <i>Comparison between RNG and Fractal Combustion Models for LES of Unconfined Explosion</i> D. Makarov*, Yu Gostintsev**, V. Molkov** <i>Uni of Ulster, Newtonabbey, UK</i> <i>**Inst. of Chemical Physics, Moscow, Russia</i>		VII 7 - <i>The Effect of CO Addition on Extinction Limits and NO_x Formation in Lean Counterflow CH₄/Air Premixed Flames</i> H. Guo, G. J. Smallwood <i>Institute for Chemical Process and Environmental Technology, National Research Council of Canada, Ottawa, Ontario, Canada</i>
17:55	VIII 9 - <i>Mathematical Modelling of Crown Forest Fire Spread</i> V.A. Perminov <i>Belovo, Kemerovo region, Russia</i>		
Saturday, 8/10			
Plenary sessions		Chairs:	
9:00	<i>Turbulence, chemistry and instabilities in non-premixed swirling flames</i> Assaad R. Masri, The University of Sydney, Australia		
9:50	<i>Pattern formation and instabilities in flame propagation of premixed flames</i> Henning Bockhorn, University of Karlsruhe, Germany		
Parallel sessions			
	Turbulent Combustion	Stationary sprays and gas combustion systems	Propulsion and engines combustion
	Chairs:	Chairs:	Chairs:
11:00	II 1 - <i>Scalar Transport in Self-similar Developing, Premixed, Turbulent Flames</i> A. Lipatnikov <i>Chalmers University of Technology, Gothenburg, Sweden</i>	IV 1 - <i>Near Field Flow Structure of Isothermal Swirling Flows and Reacting non-Premixed Swirling Flames</i> A. Olivani, G. Solero, F. Cozzi and A. Coghe <i>Politecnico di Milano, Milano, Italy</i>	V 1 - <i>Activated Self-Propagating High-Temperature Synthesis of Aluminum and Titanium Nitrides</i> V. Rosenband and A. Gany <i>Technion-Israel Institute of Technology, Haifa, Israel</i>

11:25	<p>II 2 - <i>Experimental Study of Stability, Structure and CH Chemiluminescence in a Pressurized Lean Premixed Methane Turbulent Flame</i> B. Taupin, G. Martins, G. Cabot, and A. Boukhalfa CORIA UMR CNRS, Saint Etienne du Rouvray, France</p>	<p>IV 2 - <i>Mixing and Nozzle Geometry Effects on Flame Structure and Stability</i> F. El-Mahallawy*, A. Abdelhafez*, M. S. Mansour** * Cairo University, Cairo, Egypt **The American University in Cairo, Cairo, Egypt</p>	<p>V 2 - <i>Combustion of a Solid Fuel Tube with Contained Liquid Oxidizer in a Hot Gas Atmosphere</i> A. D. Pelosi and A. Gany Technion, Israel Institute of Technology, Haifa 32000, Israel</p>
11:50	<p>II 3 - <i>On the Theory of Turbulent Flame Velocity</i> V. Bychkov, V. Akkerman and A. Petchenko Umeå University, Umeå, Sweden</p>	<p>IV 3 - <i>A Criterion for Prediction of Micro-Explosion Delay of Water-In-Fuel Emulsion Droplet</i> D. Tarlet*, J. Bellettre*, M. Tazerout*, C. Rahmouni** *Ecole des Mines de Nantes, Nantes, France **Veolia Environnement, C.R.E.E.D., Limay - France</p>	<p>V 3 - <i>Effect of Environmental Variables on Critical Pyrolysate Mass Flux for Piloted Ignition of PMMA And Pp/Gl Composite</i> D. Rich, C. Lautenberger, J. Hernandez and A. C. Fernandez-Pello University of California at Berkeley, Berkeley, CA, USA</p>
12:15	<p>II 4 - <i>Effects of Axial Convective Waves and Turbulent Flame Speed Development on Ducted Flame Oscillations</i> P. Sathiah and A. Lipatnikov Chalmers University of Technology, Gothenburg, Sweden</p>	<p>IV 4 - <i>Study of Water-Oil Emulsion Combustion in Large Pilot Power Plants for Fine Particle Matter Emission Reduction</i> C. Allouis*, A. L'Insalata**, L. Fortunato**, F. Beretta*, A. Saponaro**, * Istituto Ricerche sulla Combustione, CNR, Naples, Italy ** ANSALDO Caldaie, Gioia del Colle - Italy</p>	<p>V 4 - <i>Numerical Study of the Effect of Injection Modeling on Mixing and Flame Stability in Supersonic Combustion</i> M. Akhgari, S. Tabejamaat and N. Seraj Mehdizadeh Amirkabir University of Technology, Tehran, Iran</p>
12:40	<p>II 5 - <i>Flame Propagation Along the Vortex Axis</i> A. Petchenko*, V. Bychkov* and A. Akkerman** *Umea University, SE-901 87 Umea, Sweden **Nuclear Safety Institute, Moscow, Russia</p>	<p>IV 5 - <i>Experimental Investigation of Co-Axial Normal and Inverse Diffusion Flames</i> M. M. Kamal Ain Shams University, Cairo, Egypt</p>	<p>V 5 - <i>Study on Spray Combustion of Hydrogen-Oxygen in a High Pressure Chamber</i> H. Khaleghi, S. Tabejammatt* and A. M. Tousei Amirkabir University of Technology, Tehran, Iran</p>

13:05

Lunch break

14:30	<i>Poster sessions</i>		
	<i>Turbulent Combustion</i>	<i>Stationary sprays and gas combustion systems</i>	<i>Pollutants formation and control</i>
	Chairs:	Chairs:	Chairs:
15:30	<p>II 6 - <i>Interaction Between Chemistry and Micro-Mixing Modeling in Transported PDF Simulations of Turbulent Non-Premixed Flame</i> B. Merci*, B. Naud** and D. Roekaerts*** *Ghent University, Ghent, Belgium **CIEMAT, Madrid, Spain ***Delft University of Technology, The Netherlands</p>	<p>IV 6 - <i>Simple and Multiple Water Fuel Emulsions Preparation in Helical Flow</i> E. Dluska, R. Hubacz and S. Wronski Warsaw University of Technology, Warszawa, Poland</p>	<p>VII 8 - <i>Investigation of Species and Soot Formation in a Coflowing Diffusion Ethylene Flame</i> A. D'Anna*, J.H. Kent** and R.J. Santoro*** *Università di Napoli "Federico II", Naples, Italy **University of Sydney, Australia ***The Pennsylvania State University, PA, USA</p>
15:55	<p>II 7 <i>LES of the Sydney-Swirl Flame Series: an Initial Investigation of the Fluid Dynamics</i> O. Stein and A. M. Kempf Imperial College, London, UK</p>	<p>IV 7 - <i>Experimental Study of the Stabilization Process of a Non-Premixed Flame Via the Destabilization Analysis of the Blue Ring Flame</i> G. Pinguet* and D. Escudé** *Laboratoire de Mécanique des Fluides et d'Acoustique, Ecole Centrale de Lyon, Ecully, France ** Centre de Thermique de Lyon, INSA de Lyon, Lyon, France</p>	<p>VII 9 - <i>Separation and Measurement of flame-formed high molecular weight PAH</i> *B. Apicella, **M. Millan, **A. A. Herod, ***P. Pucci, *A. Ciajolo *Istituto Ricerche sulla Combustione, CNR, Naples, Italy **Imperial College, London, UK, ***Università di Napoli "Federico II", Naples - Italy</p>
16:20	<p>II 8 - <i>Flame Surface Densities in Premixed Combustion at Medium to High Turbulence Intensities</i> *Ö. L. Gülder and **G. J. Smallwood *University of Toronto, Toronto, Ontario, Canada **National Research Council Canada, Ottawa, Ontario, Canada</p>	<p>IV 8 - <i>Combustion Fundamentals of Pyrolysis Oil Based Fuels</i> R. Calabria, P. Massoli Istituto Motori, CNR, Napoli, Italy</p>	<p>VII 10 - <i>Soot and Nanoparticle Formation in Laminar and Turbulent Flames</i> *M. Commodo, *S. Violi, *A. D'anna, *A. D'alesio, **C. Allouis, **F. Beretta, **P. Minutolo *Università di Napoli "Federico II, Naples, Italy **Istituto Ricerche sulla Combustione, CNR, Naples, Italy</p>
16:45	<p>II 9 - <i>Unsteady Behavior, Vortex Breakdown and Stability of Turbulent Swirling Natural Gas Flames</i> *Y. M. Al-Abdeli and **A. R. Masri *University of Tasmania, Hobart, Australia **The University of Sydney, Sydney, Australia</p>	<p>IV 9 - <i>High Speed Imaging of Pressure Swirl Atomizer Instabilities</i> T. Marchione and A. Amoresano Università di Napoli "Federico II", Naples, Italy</p>	

Sunday, 9/10

Parallel sessions

	Combustion diagnostics and radiative transfer Chairs:	Reaction kinetics of combustion Chairs:	New concepts in combustion technology Chairs:
9:00	VI 1 - <i>Thermal Radiation Effect On Spray Ignition in a Hot Gas</i> I. Goldfarb, V. Gol'dshtein, and D. Katz <i>Ben Gurion University of the Negev, Beer Sheva, Israel</i>	IX 1 - <i>Vibrational Nonequilibrium and Electronical Excitation During Hydrogen-Oxygen Reaction</i> O.V. Skrebkov and S.P. Karkach <i>Institute of Problems of Chemical Physics, RAS, Chernogolovka, Russia</i>	X 1 - <i>Numerical and Experimental Characterization of a Self-Regenerative Flameless Oxidation Burner Operation in a Pilot-Scale Furnace</i> D. Lupant, B. Pesenti, P. Evrard and P. Lybaert <i>Faculté Polytechnique, Mons, Belgium</i>
9:25	VI 2 - <i>Nongray Radiation Analysis in Participating Media with the Finite Volume Method</i> A. Boutoub*, H. Benticha* and M. Sassi** <i>*Ecole Nationale d'Ingénieurs de Monastir, Tunisie **Petroleum Institut, Abu Dhab,; UAE</i>	IX 2 - <i>Cfd Modeling of Diesel Oil and DME Performance in a Two-Stroke Free Piston Engine</i> V. Golovitchev*, M. Bergman*, and L. Montorsi** <i>*Chalmers University of Technology, Göteborg, Sweden **University of Modena and Reggio Emilia, Modena, Italy</i>	X 2 - <i>Simulation of Flameless Combustion of Natural Gas in a Laboratory Scale Furnace.</i> S. Murer, B. Pesenti and P. Lybaert <i>Faculté Polytechnique de Mons, Mons, Belgium</i>
9:50	VI 3 - <i>Multi-Reaction Zones Imaging Technique For Turbulent Hydrocarbon Flames</i> M. S. Mansour*, A. Joedicke** and N. Peters** <i>*The American University in Cairo, Cairo, Egypt **Institute for Technische Mechanik, RWTH, Aachen, Germany</i>	IX 3 - <i>APTAB: a New Fast Tool for Modeling Combustion Chemistry</i> N. Ebenezer, E. Blurock and F. Mauss <i>Lunds Institute of Technology, Sweden.</i>	X 3 - <i>Numerical and Experimental Investigations to Lower Environmental Impact of an Open Fireplace</i> D. Menghini*, T. Marchione*, G. Martino**, F. S. Marra*, C. Allouis*, F. Beretta* <i>* Istituto Ricerche sulla Combustione, CNR, Naples, Italy ** CTM Termocamini, San Salvatore Telesino (BN), Italy</i>
10:15	VI 4 - <i>GSI Laser Technique for 2-D Characterization of non-Isothermal Sprays</i> R. Calabria, P. Massoli <i>Istituto Motori, CNR, Napoli, Italy</i>	IX 4 - <i>Investigation of a Methane Oxidation Mechanism Via the Visualization of Element Fluxes</i> I. Gy. Zsély, I. Virág, T. Turányi <i>Eötvös University (ELTE), Budapest, Hungary</i>	X 4 - <i>Catalytic Oxidation of CH₄ and SO₂ on Platinum Group Metals Washcoated onto Steel Foil</i> G. Rickett*, V. Dupont* and M. V. Twigg** <i>*University of Leeds, Leeds, UK **Johnson Matthey, Catalytic Systems Division, Royston, UK</i>

10:40	VI 5 - Radiative Ignition of a Branched Chain Thermal Reaction S. S. Okoya Department of Mathematics, Obafemi Awolowo University, Ile - Ife, Nigeria	IX 5 - Comparison of Full Mechanisms and Reduced Mechanisms in Numerical Modeling of Porous Burners M. Khosravy El_hossaini, M. Maerefat, and K. Mazaheri Tarbiat Modarres University, Tehran, Iran	X 5 - The Catalytic Combustion of CH ₄ over Pd-LaMnO ₃ Catalyst *S. Cimino, *L. Lisi, *R. Pirone, **G. Russo *Istituto Ricerche sulla Combustione, CNR, Napoli, Italy **Univerisità di Napoli Federico II, Naples Italy
Monday, 10/10			
<i>Plenary sessions</i>		Chairs:	
9:00	Hydroxyl tagging velocimetry Robert W Pitz, Vanderbilt University, Nashville, TN, USA		
9:50	The interaction between turbulence and radiation in reactive flows Pedro Coelho, Instituto Superior Técnico, Lisbon, Portugal		
<i>Parallel sessions</i>			
	Propulsion and engines combustion Chairs:	Laminar flames Chairs:	New concepts in combustion technology Chairs:
11:00	V 6 - An Asymptotic Approach to Numerical Modeling of Spray Autoignition in Hot Gas V. Bykov*, I. Goldfarb**, V. Gol'dshtein**, S. Sazhin***, E. Sazhina*** *University of Karlsruhe (TH), Karlsruhe, Germany **Ben-Gurion University of the Negev, Beer-Sheva, Israel ***University of Brighton, Brighton, UK	I 1 - Influence of Channel Width, Symmetry and Local Mixture Fraction Gradient on Methane-Air Triple Flame Velocity. Numerical Investigation K. V. Dobrego*, I. M. Kozlov*, V. V. Vasiliev*, J. P. Martin**, P. Gillon** *Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus **LCSR, CNRS, Orleans, France	X 6 - Characterization of Fuel Flexibility in a 4.97cm ³ Rotary Engine A. Cardes, C. McCoy, K. Inaoka, D.C. Walther, A.P. Pisano and C. Fernandez-Pello University of California, Berkeley, CA, USA
11:25	V 7 - Numerical Investigation of the Soot and NO _x Formation In-Cylinder of Direct Injection Diesel Engine M. Bencherif, A. Liazid, L. Izidi, M. A. Djaber LTE Laboratory, ENSET, El M'naouer, Oran-Algeria	I 2 - Effects of Hydrogen Enrichment on Adiabatic Burning Velocity and Nitric Oxide Formation in Methan-Air Flames F. Coppens, J. De Ruyck and A. A. Konnov Vrije Universiteit Brussel, Brussels, Belgium	X 7 - Numerical Analysis of Hydrogen Mild Combustion P. Sabia*, E. Schießwohl **, M. de Joannon***, A. Cavaliere* *Università di Napoli "Federico II", Naples, Italy **Universität Bayreuth, Bayreuth, Germany ***Istituto di Ricerche sulla Combustione, CNR, Naples, Italy

11:50	V 8 - <i>Effects of Turbulence on Spark Ignition in Inhomogeneous Mixtures: a Direct Numerical Simulation (DNS) Study</i> N. Chakraborty, E. Mastorakos and R. S. Cant <i>Cambridge University Engineering Department, Cambridge, UK</i>	I 3 - <i>Sooting Behaviour Dynamics of a Non-Buoyant Laminar Diffusion Flame</i> A. Fuentes*, G. Legros*, S. Rouvreau*, P. Joulain*, J.-P. Vantelon*, J. L. Torero** and C. Fernandez-Pello*** <i>*Laboratoire de Combustion et de Détonique, CNRS, Poitiers, France</i> <i>**The University of Edinburgh, Edinburgh, UK</i> <i>***University of California, Berkeley, CA, USA</i>	X 8 - <i>Hydrogen-Enriched Methane Mild Combustion in a Well Stirred Reactor</i> P. Sabia*, M. de Joannon**, S. Fierro*, A. Tregrossi**, A. Cavaliere* <i>*Università di Napoli "Federico II", Naples, Italy</i> <i>**Istituto di Ricerche sulla Combustione, CNR, Naples, Italy</i>
12:15	V 10 - <i>Effects of Pressure and Temperature on the Ignition Delay and Combustion Characteristics of Kerosene Droplets</i> Q. S. Khan, S. W. Baek and H. Ghassemi <i>Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea</i>	I 4 - <i>Numerical Investigation of Spark-Ignition in a Laminar Methane-Air Counterflow</i> E. Richardson* and E. Mastorakos <i>Cambridge University Engineering Department, Cambridge, UK</i>	X 9 - <i>Numerical Modeling of High-Temperature Diluted Air Combustion</i> K. W. Lee and D. H. Choi <i>Korea Advanced Institute of Science and Technology, Daejeon, Korea</i>
12:40		I 5 - <i>Flame Dynamics and Flow Field Character at Combustion in Thin Semiclosed Tubes</i> K. V. Dobrego, I. M. Kozlov and V. V. Vasiliev <i>Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Belarus,</i>	
13:05	Lunch break		
<i>Parallel sessions</i>			
	<i>Propulsion and engines combustion</i>	<i>Laminar flames</i>	<i>Turbulent Combustion</i>
	Chairs:	Chairs:	Chairs:
14:30	V 9 - <i>Diagnostic System of Aircraft Gas Turbine Engine's Health</i> A. M. Pashayev, D. D. Askerov, R. A. Sadiqov, P. S. Abdullayev <i>National Academy of Aviation, Baku, Azerbaijan</i>	I 6 - <i>Combustion Reactions of Paraffin Components in Liquid Transportation Fuels Using Generic Rates</i> H. R. Zhang, E. G. Eddings and A. F. Sarofim <i>The University of Utah, Salt Lake City, UT, USA</i>	II 10 - <i>Measurements and Simulations of Mixing and Autoignition of an N-Heptane Plume in a Turbulent Flow of Heated Air</i> C.N. Markides*, G. De Paola* and E. Mastorakos* <i>*Hopkinson Laboratory, University of Cambridge, UK</i>
14:55	V 11 - <i>Air Density Effect on the Atomization of Liquid Jets in Crossflow</i> R. Ragucci*, A. Bellofiore**, A. Cavaliere** <i>* Istituto Ricerche sulla Combustione, CNR, Naples, Italy</i> <i>**Università di Napoli, Federico II, Naples, Italy</i>	I 7 - <i>A Novel CFD Code Based on Method of Lines for Reacting Flows: Verification on Methane/Air Diffusion Flame</i> T. Tarhan and N. Selçuk <i>Middle East Technical University, Ankara, Turkey</i>	II 11 - <i>Joint RANS/LES Approach to Premixed Combustion Modeling</i> V.L. Zimont and V. Battaglia <i>CRS4 Research Center POLARIS, Pula (CA), Italy</i>

15:20		<p>I 8 - <i>Accelerating Flames in Tubes with non-slip at the Walls</i> V. Akkerman**, V. Bychkov* and A. Petchenko* *Umeå University, Umeå, Sweden **Nuclear Safety Institute, Moscow, Russia</p>	<p>II 12 - <i>Combustion in a Cross Flow with Air Jet Nozzles</i> M. M. Kamal Ain Shams University, Cairo, Egypt</p>
15:45			<p>II 13 - <i>Characteristics of Impinging Flames</i> M. M. Kamal Ain Shams University, Cairo, Egypt</p>
16:10	End of the Symposium		