Time	Sunday, June 15
16.00 / 19.00	Registration
17.30 / 19.30	Welcome cocktail
Time	**Monday, June 16**
08.30	Registration
	Room Chiostro
09.20/10.00	**Opening Session** **Paola Russo** Chair **Carlo Massimo Casciola** Dean of the Faculty of Civil and Industrial Engineering, Sapienza University of Rome **Paolo De Filippis** Head of Department of Chemical Engineering, Materials and Environment, Sapienza University of Rome **Giulia Monteleone** Director of ENEA Dept. of Energy, Technologies and Renewable Energy Sources

10.00/11.00	**PLENARY LECTURE** **Progress in Computational Hydrogen Safety: Overview of Selected Problems** Vladimir Molkov	
11.00/11.30	*Coffee break and poster viewing*	
11.30/12.20	**HIGHLIGHTED PRESENTATIONS** **HYDROGEN SAFETY**	
11.30/11.55	**Thermal effects in concrete slabs impacted by impinging hydrogen jet flames** Markert Frank, Sørensen Lars Schiøtt, Liu Wenqian, Gaathaug Andre Vagner, Lach Agnieszka W. 68	
11.55/12.20	**Numerical investigation on the pressure multi-peaks structure of a LH2 storage tank "BLEVE"** Cirrone Donatella, Makarov Dmitriy, Molkov Vladimir 112	
12.20/14.00	*Lunch*	
	Room Chiostro	**Room 1**
14.00/15.40	**HYDROGEN SAFETY I**	**BATTERY SAFETY I**
14.00/14.20	**Experimental results and comparison with FLIC model of delayed ignition of impinging under expanded hydrogen jet on pipe geometry in open atmosphere** Lach Agnieszka, Lundberg Joachim, Vågsæther Knut 119	**Unveiling the relationship between the energy released during thermal runaway of Li-ion cells and their stored electrical energy** Dubourg Sébastien, Rochard Thibaut, Marteau Daniel, Bengaouer Alain, Brun-Buisson David, Reytier Magali, Vincent Rémi 45
14.20/14.40	**Numerical modelling of dynamic flashing behaviour in the release of ammonia from pressurised vessel** Sivaraman Srinivas, Cirrone Donatella, Makarov Dmitriy, Truchot Benjamin, Molkov Vladimir 60	**Analysis of ventilation parameters for explosion risk mitigation in Li-ion battery rooms** Olsø Brynhild Garberg, Alonso Maria Justo, Risholt Birgit, Karchniwy Ewa Malgorzata 71

14.40/15.00	**The impact of hydrogen concentration on the explosion risk of a biogas-hydrogen-air mixture** Kim Joonsik, Kim Wookyung, Kang Chankyu, Park Byungjik, Yoon Unggi, Kim Yangkyun 20	**Comprehensive Modeling of Lithium-Ion Batteries Thermal Runaway Behavior** Chakaroun Sirar, Coste Pierre, de Persis Stéphanie, Bengaouer Alain, Cognard Jerome, Chaumeix Nabiha 81
15.00/15.20	**Safe operation of gas fires and cooker hobs on hydrogen** Andrews G.E., Quinonez Ramon, Massey R., Phylaltou H.N., Wakeman R., Maxfield J., Smith S. 144	**Flame heat emissions in 18650-type lithium-ion battery thermal runaway with thermally active particles** Sadeghi Hosein, Restuccia Francesco 7
15.20/15.40	**Numerical Experiments on Flame Geometry and Thermal Heat Fluxes on Surfaces of New Hydrogen Trailer Using FDS Software** Dréan Virginie, Rengel Borja, Soubeyran Aurelien, Bernard Laurence, Paris Laurent, Guillaume Eric, Paping Philippe 37	**Exploring the thermal stability of NaNi1/3Fe1/3Mn1/3O2 cathode for sodium ion batteries** Gan Yixiu, Gao Wei 33
15.40/16.10	*Coffee break and poster session*	
16.10/17.30	**HYDROGEN SAFETY II**	**BATTERY SAFETY II**
16.10/16.30	**Understanging the conceptual sLH2 Refuelling Protocol: Importance of Restriction on the Initial Mass Flow Rate** Ebne-Abbasi Hazhir, Makarov Dmitriy, Molkov Vladimir 95	**Quantifying the Hazard from E-Scooter Explosions in a Residential Scale Compartment** Fleischmann Charles, Madrzykowski Daniel 140
16.30/16.50	**Enhancing Hydrogen Safety and Streamlining Permit Processes: A Preliminary Investigation into Permitting Hydrogen Refueling Stations in Norway** Claussner Lucas, Faisal Muhammad, Ustolin Federico 145	**State of the Art and Safety Challenges of Lithium-ion Batteries in Underground Mining Operations** Jahn Wolfram, Fernanda García, Caro Rodrigo, Ramirez Gonzalo, Rivera Juan de Dios, Walker-Ravenna Carlos 51
16.50/17.10	**Performance of standard and self-venting conformable hydrogen storage systems in fires** Kashkarov Sergii, Molkov Vladimir 49	**Characteristics of Gas Venting and Detection During Thermal Runaway of LiFePO4 Battery** Huang Po-Hsun, Huang Yi-Peng, Yeh Li-Yu, Peng Hsiang-Ching, Tsai Hsiao-Yun, Chen Jenq-Renn 115

17.10/17.30	**Operational safety analysis for prototype hydrogen production via PEM** Jorjani Sasan, Testi Matteo 41	**Physics-Based Model to Quantify the Fire Hazard of Lithium-Ion Batteries Based Energy Storage Systems** Hodges Jonathan, Kapahi Anil, Kraft Stefan 42
Time	**Tuesday, June 17**	
	Room Chiostro	
09.00/10.00	**PLENARY LECTURE** **Combined Use of Testing, Computer Modeling and Analytical Correlations to Address Fire Protection Problems** Franco Tamanini	
10.00/10.30	**SESSION IN MEMORY OF PROF. JAMES G. QUINTIERE**	
10.30/11.00	*Coffee break and poster viewing*	
	Room 1	
11.00/11.50	**HIGHLIGHTED PRESENTATIONS** **WILDLAND FIRES**	
11.00/11.25	**Investigating the Potential of Biogenic Volatile Organic Compound Accumulation to Cause Eruptive Fires within Windless Canyons** He Zhuoyang, Liu Naian, Xie Xiaodong, Zhang Linhe, Zhang Yang, Jiang Siqi 114	
11.25/11.50	**Wildfire NaTech Accidents in the Wildland-Industrial Interface: Exposure Pathways Analysis** Dossi Simona, Ricci Federica, Planas Eulalia, Scarponi Giordano, Cozzani Valerio, Pastor Elsa 90	
	Room Chiostro	**Room 1**
11.50/12.50	**FUNDAMENTALS OF FIRES AND EXPLOSIONS I + TWO PHASE EXPLOSION**	**WILDLAND FIRES I**
11.50/12.10	**Can Fluidized Bed Reactor Technology Provide a Novel Solution for Measuring Dust Flammability/Explosion Parameters?** Di Benedetto Almerinda, Portarapillo Maria, Sanchirico Roberto 122	**Firebrands-Induced Cavity Development in Pressure Treated Wood Decking** Mohamed Mohamed, Penman Trent, Filkov Alexander 25

12.10/12.30	**Spherical Flame Propagation Behaviours in Iron-Methane-air Mixture** Ueda Akihiro, Endo Takuma, Johzaki Tomoyuki, Kim Wookyung 74	**Numerical study of the effect of thermally inert structures on fire spread in discrete fuel arrays** Wang Fengqi, Wang Yu 82
12.30/12.50	**Silicon Dust Explosions in Ducts and Pipes** Skjold Trygve, Faye Andreas, Bjørnsen Anders, van Wingerden Matthijs, Arntzen Bjørn Johan, Buseth Torfinn 137	**Small-World Network with Adaptive Time Steps for Upslope Fire Spread: Balancing Simulation Accuracy and Efficiency** Wang Xinyu, Lei Jiao, Dai Jiakun, Zekri Nouredine 54
12.50/14.00	*Lunch*	
14.00/15.40	**INDUSTRY-SPECIFIC FIRE AND EXPLOSION RESEARCH: RENEWABLE ENERGY, AEROSPACE, OIL AND GAS, NUCLEAR, PROCESS INDUSTRY**	**WILDLAND FIRES II**
14.00/14.20	**Effects of Underwater Explosions: A Small-Scale Study with High-Speed Imaging** Trelat Sophie, Sturtzer Michel 56	**Review of the Interaction between Extreme Climate and the Wildfires Spread** Ran Dezhi, Wang Yu 83
14.20/14.40	**Experimental study of flame radiation characteristics and thermal hazard analysis of pool fires with crosswinds** Tao Ruoyi, Tang Fei, Deng Lei, Peng Xinyu, Hu Longhua 26	**How does smoldering wildfires impact the plant roots?** Zhang Yichao, Qin Yunzhu, Chen Yuing, Lin Shaorun, Shu Yang, Huang Xinyan, Zhou Mei 29
14.40/15.00	**Experimental Study of Burning Rate and Flame Pulsation of Fires Considering the Interactions between a Thin Layer Pool and an Oil Tank** Fang Lulu, Fang Jun, Hu Yong, Tao Shangqing 43	**Experimental and Numerical Study on Flashovers Induced by VOC Accumulations in Forest Valley** Wang Hui Ying, Jamaladdeen Rawaa, Coudour Bruno, Garo Jean Pierre 16

15.00/15.20	**Full-scale pool fire plume characteristics in the 800 kV transformer station surrounded by the U-shaped firewalls** Zhu Xiaolong, Zhao Jiangyue, Hu Shi, Cheng Kaige, Pan Chuanyu, Wang Xishi 32	**Quantifying Burning Dynamics in Wildland Surface Fires: An Experimental and Computational Analysis** Ziazi Reza, Selvaraj Muthu Kumaran, Porwal Sumukh, Singh Abhinandan, Simeoni Albert 101
15.20/15.40	**Inspection activity after a major accident: the case of handling flammable substances** Marrazzo Romualdo, Bragatto Paolo 6	**CFD Modeling of Wildfire Suppression Operations: A Case Study of Ischia Island** Galuppi Marta, Berardi Davide, Lombardi Mara 15
15.40/16.10	*Coffee break and poster session*	
16.10/17.10	**INDUSTRIAL RISK AND SUSTAINABILITY**	**CRITICAL AND TRANSIENT COMBUSTION PHENOMENA I + COMBUSTION IN EXTRAORDINAL ENVIRONMENT**
16.10/16.30	**Combustible Dust Management: Regulatory Frameworks and best practices to improve safety in the industries** Panico Alessandro, Tonelli Giovanni 116	**Flame spread in large compartment experiments: comparison of Obora and CodeRed** Mitchell Harry, Rackauskaite Egle, Amin Rikesh, Kotsovinos Panagiotis, Rein Guillermo 65
16.30/16.50	**Smoldering Fire and Explosion Risks of Black Mass in the Lithium-ion Battery Recycling Industry** Wu Dejian, Norman Frederik, Hack Jens 131	**In-depth temperature during fire spread on a wooden panel at intermediate scale** Terrei Lucas, Acem Zoubir, Mehaddi Rabah, Boulet Pascal, Parent Gilles, Aguilar Boris, Lejeune Sébastien 98
16.50/17.10		**An Exotic Oxygen-Enriched Explosion: Forensic Analysis of a Diesel Tank Incident** Puccia Vincenzo 117
19.00/22.30	*River Boat Standing Aperitif Dinner*	
Time	**Wednesday, June 18**	
	Room Chiostro	

09.00/10.00	**PLENARY LECTURE** **Computational Fluid Dynamics from Explosion of Atomic Bomb to New Concept of Space Propulsion** Akiko Matsuo	
10.00/10.50	**HIGHLIGHTED PRESENTATIONS** **FIRE AND EXPLOSION MODELLING IN COMPUTER CODES**	
10.00/10.25	**Uncertainty of Calorimetry Measurement for Medium-scale Fire Experiments** Chaudhari Dushyant M, Dow Nicholas 97	
10.25/10.50	**Physics-based model for wood charring accurate for a wide range of compartment fire conditions** Castagna Alexander, Rein Guillermo 84	
10.50/11.20	*Coffee break and poster session*	
	Room Chiostro	**Room 1**
11.20/12.40	**FIRE AND EXPLOSION MODELLING IN COMPUTER CODES I**	**DEFLAGRATION, DDT, DETONATION AND THEIR MITIGATION I**
11.20/11.40	**Influence of Compartment Geometry on Internal Flows in a Fully developed Fire** Calderón Ignacio, Majdalani Agustín H., Arnold Lukas, Jahn Wolfram 78	**Development of a Non-Reactive Explosion Vent Panel Testing Methodology** Bauwens C. Regis L., Dorofeev Sergey B. 104
11.40/12.00	**A mesoscale CFD model to simulate wood combustion** Banagiri Shrikar, Khadakkar Ishanee, Parameswaran Manjunath, Meadows Joseph, Lattimer Brian 100	**Blast effect of sand-buried explosive charges** Sturtzer Michel, Trélat Sophie, Gilbart Franck 58

12.00/12.20	**Numerical Investigation on Blast Waves of Atomic Bombing of Nagasaki** Nakajima Kenta, Matsuo Akiko 24	**Effects of obstacle tilted angle and blockage ratio on the vented ethanol-gasoline vapor explosion in a small-scale channel** Zhao Jiang Yue, Pan Chuan Yu, Wang Xi shi 28
12.20/12.40	**Modeling Monodispersed Water Droplets in Hydrogen Deflagration using OpenFOAM** Lande Anne Marie, Lundberg Joachim, Henriksen Mathias 99	**Effect of Vent Geometry on Dust Explosion Venting Efficiency** Bloching Marius, Boeck Lorenz R., Lottermann Johannes, Becker Dominik, Bunse Roland, Slaunwhite Jeramy, Siwek Richard 72
12.40/14.00	*Lunch*	
	Room 1	
14.00/14.50	**HIGHLIGHTED PRESENTATIONS** **DEFLAGRATION, DDT, DETONATION AND THEIR MITIGATION**	
14.00/14.25	**Experimental observations of Shock-flame interaction** Roque Ccacya Anthony, Idir Mahmoud, Chaumeix Nabiha 125	
14.25/14.50	**Predictions of Blast Pressure Intensity in Open Space Gas Explosions** Dobashi Ritsu, Kaneko Kazumasa, Mogi Toshio 85	
	Room Chiostro	**Room 1**
14.50/16.10	**FIRE AND EXPLOSION MODELLING IN COMPUTER CODES II + EVACUATION**	**DEFLAGRATION, DDT, DETONATION AND THEIR MITIGATION II**
14.50/15.10	**Modeling Occupant Risk during Fire Growth and Evacuation using a System Dynamics Approach** Dueñas Santana Julio Ariel, Van Coile Ruben, Salzano Ernesto, Di Benedetto Almerinda 30	**Experimental and theoretical study on the explosion venting behaviors of ammonia/hydrogen/air in a large aspect ratio duct** Yu Jialing, Cheng Kaige, Wang Xishi 129

15.10/15.30	**A Comparative Analysis of Response Surface Methodology (RSM) and Artificial Neural Networks (ANN) for Predicting Detection Time in Ship Passenger Evacuation** Pratama Tezar, Sunaryo Sunaryo 93	**DDT in Hydrogen/methane/oxygen Mixtures** Ciccarelli Gaby, Chuanyu Pan, Xishi Wang 162
15.30/15.50		**Analytical Study of Developing Combustion to Explosion for Explosion Protection Decision Support Systems** Volkov Victor 107
16.45/19.00	*Walking tour of ancient city*	
Time	**Thursday, June 19**	
	Room Chiostro	
09.00/10.00	**PLENARY LECTURE** **Early Stages of Flame Propagation and Physical Mechanisms of Tulip Flame Formation** Mikhail Liberman	
10.00/10.50	**HIGHLIGHTED PRESENTATIONS** **FUNDAMENTALS OF FIRES AND EXPLOSIONS**	
10.00/10.25	**Combustion instabilities in mechanically ventilated enclosure with propane gas fire** Pretrel Hugues, Kondorkuzhi Bimal, Savino Arthur, Suard Sylvain 13	
10.25/10.50	**IR-Based Analysis of Flame Spread in Open and Ceilinged Room Corner Fire Experiments** Belt Alexander, De Lannoye Karen, Fehr Marc, Arnold Lukas 133	
10.50/11.20	*Coffee break and poster viewing*	
	Room Chiostro	**Room 1**

11.20/13.00	FUNDAMENTALS OF FIRES AND EXPLOSIONS II	FIRE SUPPRESSION AND MITIGATION SYSTEMS I
11.20/11.40	**Limiting Oxygen Concentrations for Flame Balls, Deflagrations and Detonations in Dry Hydrogen-Air Mixtures for Wide Temperature Range** Kirillov Igor, Plaksin Vadim 50	**A Machine Learning-Based Approach to Model Sprinkler Actual Delivered Density** Han Dong, Chen Shaoxuan, Gopala Yogish, Sienkiewicz Seth, Ditch Benjamin, Xin Yibing 21
11.40/12.00	**Physical mechanism of formation and evolution of tulip flames: the role of flame-pressure waves collisions and tubes aspect ratios** Mikhail Liberman, Qian Chengeng 4	**Experimental Study of Aerosol Fire Protection in Enclosure with Openings** Zhou Xiangyang, White James, Fuglsby Jason 22
12.00/12.20	**Neural network for real-time estimation of solid phase pyrolysis parameters** Lázaro David, Lázaro Mariano, Alvear Daniel, Jiménez Miguel A., Morgado Eugenia 61	**Inert Gas Extinguishing Systems: Emphasizing Extinguishment** Zimak Jon, Simeoni Albert 40
12.20/12.40	**Biohydrogen Production from Biowaste: Assessment of the Flammability of Bioreactors Gaseous Mixtures** Russo Paola, Lancia Maria Chiara, Lauri Roberto, Gottardo M., Valentino Francesco 150	**Comparative Evaluation of Water Foam and Mist Systems in Suppressing Wood Pallet Fires within Road Tunnels** Berardi Davide, Galuppi Marta, Lombardi Mara, Stantero Luca, Boffa Natalino, Bezzi Francesco 17
12.40/13.00		**Correlating Firefighting Foam Suppression Performance to Bench-scale Characterization** Parameswaran Manjunath, Islam Mehran, Lattimer Brian 151
13.00/14.00	*Lunch*	
	Room Chiostro	
14.00/14.50	**HIGHLIGHTED PRESENTATIONS** **HYDROGEN SAFETY**	

14.00/14.25	**Assessment of the distance of effects based on engineering models for a new design of hydrogen trailer** Soubeyran Aurélien, Bernard Laurence, Drean Virginie, Rengel Borja, Papin Philippe, Paris Laurent 64	
14.25/14.50	**An Experimental Study on the Effect of Equipment Hatch Size on Explosion during Deflagration of Hydrogen-Air Mixture in a Semi-Confined Space** Yoon Unggi, Kim Joonsik, Park Byungjik, Hwang Inju, Kim Wookyung, Kim Yangkyun 57	
	Room Chiostro	**Room 1**
14.50/15.50	**HYDROGEN SAFETY III**	**MATERIAL FLAMMABILITY AND FLAME RETARDANCY + FIRE TOXICITY**
14.50/15.10	**Critical Diameter and Flame Stability in Hydrogen-Methane Mixtures** Kazemi Mina, Brennan Sile, Molkov Vladimir 62	**Advancing on the Flame Spread over electrical wires predictions by using Machine Learning with data categorization and augmentation strategies** Rivera Jose, San Martin Daniel, Fernandez-Pello Carlos, Gollner Michael J, Olson Sandra 23
15.10/15.30	**Numerical Study on Diffusion Characteristics of Leaked Hydrogen and Associated Safety in the Underground Space with Hydrogen Facilities** Shin Hong-Cheol, Hwang Inju, Seo Hyeonseok 124	**Experimental analysis of required ignition times of unattended incidents in kitchens** Alonso Ipiña Alain, Alvear Portilla Daniel, Lázaro-Urrutia Mariano 67
15.30/15.50	**Validation of FDS and FLACS-Fire Codes Against Radiation from Free Horizontal Hydrogen Jet Fires** Rengel Borja, Dréan Virginie, Paris Laurent, Guillaume Eric 36	**Pyrolysis of Pine in a Nitrogen Atmosphere using the Cone Calorimeter** Irshad Aysha, Andrews Gordon, Phylaktou Horodotos, Gibbs Bernard 123
15.50/16.10	*Coffee break and poster session*	
16.10/17.10	**CRITICAL AND TRANSIENT COMBUSTION PHENOMENA II**	**BATTERY SAFETY III**

16.10/16.30	**Measuring the External Heat Release Rate from a Large-Scale Fire Compartment using Computer Vision** Amin Rikesh, Mitchell Harry, Kotsovinos Panagiotis, Rein Guillermo 52	**Quantitative Investigation of Immersion Cooling Agents for Thermal Runaway Suppression** Zhang Lei, Liu Yanhui, Ye Congliang, Zhou Yuxin, Su Yanghan, Huang Xinyan 47
16.30/16.50	**Fire Behaviour of Biopolymer Soaked by Flammable solvents** De Liso Benedetta Anna, Pio Gianmaria, Salzano Ernesto 18	**Fire behaviour tests for lithium-ion batteries: A systematic review of battery characteristics, fire test conditions and fire properties** Sanfeliu Melia Cristina, Steen-Hansen Anne, Meraner Christoph 87
16.50/17.10	**Measurement of Hot Surface Ignition Temperature of Some Low Global Warming Potential (GWP) Refrigerants and Their Blends** Imamura Tomohiko, Sawayama Tomoki, Hayamizu Hiroki 53	**Measurement of total and temporal heat generation carried by ejected and non-ejected contents during thermal runaway of 18650 lithium-ion batteries** Garg Priya, Xiong Gang, Gagnon Lauren, Zeng Dong, Wang Yi, Barlow Robert 91
19.30/22.30	Social Dinner	
Time	**Friday, June 20**	
	Room Chiostro	
09.15/10.15	**PLENARY LECTURE** **Field-scale Experiments of Wildfires for Fire Behavior** Albert Simeoni	
10.15/10.35	**Greetings and Introduction to the Activities of the Italian Fire Corps** Eros Mannino Chief of National Fire and Rescue Corps	
10.35/11.00	*Coffee break*	
	Room Chiostro	

11.00/11.50	HIGHLIGHTED PRESENTATIONS BATTERY SAFETY	
11.00/11.25	**Insights on thermal runaway and fire propagation in a lithium-ion battery energy storage system** Cuevas Juan, Zeng Dong, Wang Yi 44	
11.25/11.50	**Investigating Heat Transfer to Surroundings from Flaming Batteries Using a Surrogate Fuel Model** Lugaresi Francesca, Restuccia Francesco 86	
	Room Chiostro	**Room 1**
11.50/12.40	**WILDLAND FIRES III**	**BATTERY SAFETY IV**
11.50/12.10	**2D Gaussian Dispersion Model for Low-lying Smoke from a Wildfire Including Downwind Ground Effects** Kalogeropoulos Nikolaos, Castagna Alexander, Rein Guillermo 48	**Enhancing Safety in Lithium-ion Battery Recycling: Lessons from the Hunan Brunp Explosion and Process Optimization** Fang Zheng, Wu Zhenwei, Bontempi Elza, Sun Jinhua, Wang Qingsong 63
12.10/12.20	**Laboratory Investigation of Smouldering Combustion of Boreal Peat from Thurso UK: Effect of Particle Size** Mulyasih Hafizha, Tarasi Dimitra, Voulgarakis Apostolos, Rein Guillermo 94	**Flammability properties of Lithium-ion battery vent gas under different intial conditions** Ubaldi Sofia, Russo Paola 121
12.20/12.40	**Ignition and Spread of Smouldering in Subantarctic Peat from Falkland Islands** Walker-Ravena Carlos, Mulyasih Hafizha, Elliott Andy, Rein Guillermo 108	**Numerical Modeling of Premixed Combustion and Flame Acceleration of Li-ion Battery Thermal Runaway Gases** Alison Paul, Beccantini Alberto, Kudriakov Sergey, Bengaouer Alain, Tenaud Christian 35
12.40/13.15	**Closing session. Best presentation/poster awards**	

POSTERS
Poster Session June 16 and 17

Poster number	Title	Authors
1	**171 - Development of a hydrogen fire burner for testing aircraft materials and components**	Hidalgo Juan P., Dier Florence, Carrascal Jeronimo
2	**172 - Experimental study on reducing overpressure of hydrogen gas explosion using water mist**	Park Byoungjik, Kim Yangkyun, Yoon Unggi, Kim Joonsik
3	**173 - Experimental and Analytical Study on Hydrogen-air Deflagrations in Open Atmosphere**	Yangkyun Kim, Park Byungjik, Yoon Woonggi, Kim JoonSik, Hwang In-Ju, Wookyung Kim
4	**142 - Investigating the Thermal Hazard to the Immediate Surroundings of a Burning Electric Vehicle**	Dehghani Parham, DiDomizio Matthew, Sauer Nathaniel, Barowy Adam
5	**158 - Quantitative Analysis of Flames Generated by Li-ion Battery Thermal Runaway**	Sponem Léa, Bengaouer Alain, Dubourg Sébastien, Kawka Sébastien, Koudriakov Sergey, Reytier Magali
6	**159 - A simplified methodology to enhance efficiency in numerical simulation of thermal runaway in Li-ion batteries for safety applications**	Yhuel Emilie, Bengaouer Alain, Kawka Sebastien
7	**156 - CFD-based Risk Analysis in Natech Scenarios for Hythane distribution infrastructure**	Capasso Elena
8	**160 - When Lightning Strikes: Risk Analysis of a Major Accident at the Matanzas Hydrocarbon Facility**	Dueñas Santana J.A, Salzano E., Di Benedetto A., Van Coile R.
9	**126 - CFD SIMULATIONS OF H2/CH4/H2S DISPERSION AND CONSEQUENCES FOR THE RISK ANALYSIS OF LARGE SCALE H2 STORAGE**	Enicchiaro Domenico, Portarapillo Maria, Polidoro Franco, Di Benedetto Almerinda
10	**128 - Risk assessment of Integrated Fuel Cell Systems for Rail Transport**	Portarapillo Maria, Bellucci Sessa Augusto, Di Benedetto Almerinda

11	**143 - On Measurements, and Modeling of Diffusion Flames Temperatures Aboard the International Space Station**	Dehghani Parham
12	**176 - Lift-off and blowout behavior of non-premixed turbulent jet flames with hydrogen-blended natural gas under sub-atmospheric pressure**	Tang Fei, Zhu Nannan, Fan Xinyang, Peng Xinyu, Hu Longhua
13	**170 - Overpressure Resistance in Structures Subject to Energetic Materials Deflagrations**	Paquet Frederick, Paquet Mario
14	**165 - The Initiation and Suppression of Organic Peroxide Dust Explosion**	Tsai Hsiao-Yun, Peng Hsiang-Ching, Yeh Li-Yu, Huang Po-Hsun, Chen Jenq-Renn
15	**148 - Hydrogen release and dispersion in a underground car park under natural ventilation**	Russo Paola, Meo Maria Grazia, Nassi Luca
Poster Session June 18 and 19		
1	**163 - Investigating the Soil Temperature in Wildfires**	Arnold Simone, Nagel M., Schultze T.
2	**167 - Estimation of Fuel Characteristics and Adaptation of Fuel Maps for the WRF-SFIRE Model in Tropical Peatlands**	Katashima Kei, Kobayashi Takuma, Takayama Naru, Segah Hendrik
3	**157 - Experimental study on the toxicity of different halogenated olefins to mice**	Zong Ruowen, Yao Fuyao, Wang Kaitao
4	**88 - Study on the spill fire behaviour and radiant characteristics of compartment fire with double openings under crosswinds**	Zheng Yipeng, Tang Fei, Fan Xinyang, Hu Longhua
5	**164 - Thermal analysis and dust explosion characteristics of terpene phenolic resin**	Choi Yi-rac, Lee Han-Hee, Seo Dong-Hyun

6	**106 - Analysis of vented dust explosions in large silos using CFD simulations**	Varela Alejandro, Tascón Alberto
7	**118 - High-Confinement Explosion Analysis in a Residential Building: A Comparative Study of TNO Model Estimates and Real Gas Consumption Data**	Puccia Vincenzo
8	**168 - Study on Personnel Evacuation from Ancient Pavilion Architectural Structures-Taking Yellow Crane Tower as an Example**	Zelin Zhang, Yang Ling