

Time	Monday 25 July 2016		
08:00-08:30	Registration (Bayshore Hotel Dalian's Lobby)		
08:30-09:20	Opening (Lijing Hall) Prof. Guiling Ning (Vice-President)—Prof. Piotr Wolański (International Organizing Committees, Chair)—Prof. Mingshu Bi (Local Organizing Committees, Chair)		
09:20-09:50	Plenary I (Lijing Hall, Chair: Piotr Wolański) ISH001—Inverse Analysis of Tianjin Port Explosion Load and Corresponding Blast Wave Induced Damage (Juncheng Jiang, Nanjing Tech University)		
09:50-10:20	Plenary II (Lijing Hall, Chair: Piotr Wolański) ISH002—A catastrophic aluminium-alloy dust explosion in China (Gang Li, Northeastern University)		
10:20-10:45	Coffee break (Guanhai Hall)		
10:45-12:00	Session 1.1: Dust explosions (Lijing Hall, Chair: Ulrich Krause)	Session 1.2: Gas explosions (Guanlan Hall, Chair: Dieter Gabel)	Session 1.3: Detonation & DDT (Victoria Hall, Chair: Andrzej Teodorczyk)
10:45-11:10	ISH044—Intrinsic instabilities of dust flames: Philippe Julien, James Vickery, et al.	ISH104—Deflagration characteristics beyond original premixed hydrogen/air: Qi Zhang, Qiuju Ma, et al.	ISH010—Calculation of detonation characteristics of silane-air mixtures: P.A. Fomin, A.V. Fedorov, et al.
11:10-11:35	ISH047—Marginally explosible dust: A critical review: Martin P. Clouthier, Robert G. Zalosh, et al.	ISH108—Evaluating the applicability of turbulent burning velocity correlations for large-scale flames: C.R.L. Bauwens, J.M. Bergthorson, et al.	ISH011—Effect of orifice plate spacing on detonation propagation: Z. Wang, J. Lu, et al.
11:35-12:00	ISH055—Some aspects of dust dispersion in 1 m <sup>3</sup> chamber: Janovsky, B., Dastidar, A.G., et al.	ISH113—Turbulent flame propagation stage of gas explosion in pipe based on image processing: Baisheng Nie, Longlong Yang, et al.	ISH013—Experimental and numerical investigation of hydrogen-air detonation: M. Zbkowska, A. Dabkowski, et al.
12:00-14:00	Lunch (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		
14:05-15:20	Session 1.4: Dust explosions (Lijing Hall, Chair: Jérôme Taveau)	Session 1.5: Gas explosions (Guanlan Hall, Chair: Minggao Yu)	Session 1.6: Detonation & DDT (Victoria Hall, Chair: Ryan William Houim)
14:05-14:30	ISH028—A speditive explosibility test for dusts: Enrico Danzi, Antonio Tomasso, et al.	ISH103—Chemical kinetic characteristics of methane-air mixture explosion and its affecting factors: Longlong Yang, Baisheng Nie, et al.	ISH014—Effects of low-temperature plasma on detonation combustion of ethylene air mixture: Dianfeng Zheng & Bing Wang
14:30-14:55	ISH029—Calibration of new dust dispersion systems in the 1m <sup>3</sup> standard dust explosion vessel for fibrous biomass testing: Hamed Sattar, Clara Huescar-Medina, et al.	ISH117—Response surfaces for advanced consequence models two approaches: Anna-Lena Braatz & Helene Hisken	ISH016—LES of flame acceleration and DDT in small-scale channels: Yongyao Zhao & Cheng Wang
14:55-15:20	ISH178—Discussion on the autoignition probability of dust clouds: Enrico Bibbona, Elisabetta Carità, et al.	ISH120—Numerical simulation on size effects of methane-air mixtures explosion in linked vessels: Zhen Yaya, Wang Zhirong, et al.	ISH012—Effects of silicone rubber and aerogel blanket walled tubes on H <sub>2</sub> /Air gaseous detonation: Qiaofeng Xie, Haocheng Wen, et al.
15:20-15:45	Coffee break (Guanhai Hall)		
15:45-17:00	Session 1.7: Dust explosions (Lijing Hall, Chair: Shengjun Zhong)	Session 1.8: Gas explosions (Guanlan Hall, Chair: Ritsu Dobashi)	Session 1.9: Detonation & DDT (Victoria Hall, Chair: Cheng Wang)
15:45-16:10	ISH045—Investigation on the explosible properties of textile dusts : Luca Marmo, Paolo Rege, et al.	ISH111—Experimental study on the dynamic strain of the thin wall in the gas cloud explosion with ignition energy: Zhou Ning, Geng Ying, et al.	ISH017—Models for shock-induced ignition evaluated by detailed chemical kinetics in the context of deflagration-to-detonation transition: L.R. Boeck, R. Mével, et al.
16:10-16:35	ISH048—Minimum ignition energy of dust mixtures: Dieter Gabel, Marcus Marx, et al.	ISH115—Influence of ignition position on characteristics of premixed methane-air deflagration: Xianshu Lv, Ligang Zheng, et al.	ISH019—Numerical investigation on the effect of obstacles in DDT of hydrogen-air mixture using OpenFOAM: Rafał Porowski & Stanisław Siatkowski
16:35-17:00	ISH049—Numerical investigation on inner particle effects in Lycopodium/Air dust deflagrations: Christoph Spijker & Harald Raupenstrauch	ISH118—Numerical evaluation on characteristics of gas migration and explosion in full-scale coal mine tunnels: Hu Wen, Tao Wang, et al.	ISH024—Decay and recovery of the detonation wave after passing of the steel tube covered by the acoustically-absorbing coatings: Sergey V. Golovastov, Grigory Yu, et al.
18:00-20:30	Welcome Reception (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		

Time	Tuesday 26 July 2016		
08:30-09:00	Registration (Bayshore Hotel Dalian's Lobby)		
09:10-10:10	Plenary III (Lijing Hall, Chair: Rolf K. Eckhoff) ISH004—Dust Explosions: Recent Developments Including Pulverised Biomass (Gordon E. Andrews, University of Leeds)		
10:10-10:35	Coffee break (Guanhai Hall)		
10:35-11:50	<b>Session 2.1: Dust explosions</b> (Lijing Hall, Chair: Masaharu Nifuku)	<b>Session 2.2: Vapour Cloud Explosions</b> (Guanlan Hall, Chair: Baisheng Nie)	<b>Session 2.3: Detonation &amp; DDT</b> (Victoria Hall, Chair: Piotr Wolański)
10:35-11:00	ISH027—A model validation framework for the dust explosion simulator FLACS-DustEx: Challenges, limitations and possibilities: Maryam Ghaffari, Trygve Skjold, et al.	ISH131—Numerical simulation on explosive boiling process of liquefied gas storage tanks: Jing-jie Ren, Ming-shu Bi, et al.	ISH025—Influence of water droplets on propagating detonation: Urszula Niedzielska, Lukasz Jan Kapusta, et al.
11:00-11:25	ISH036—Experimental study on explosion characteristics of 7-ACA dust under different conditions: Zhang Jinfeng, Liu Xin, et al.	ISH175—Experimental study on the vapor explosion process of a drop impact on hot molten-ghee surface: Zhigang Wang, Pei Zhu, et al.	ISH105—Experimental investigation of flame propagation in a long duct with obstacles: Cheng Wang & Yongyao Zhao
11:25-11:50	ISH149—Theoretical model and experimental study on the ignition of oil shale dust cloud: Yang Hong-xia, Li Gang, et al.		ISH182—Analog system of non-ideal detonation with losses: Yuanxiang Sun, Xiaocheng Mi, et al.
12:00-14:00	Lunch (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		
14:05-15:20	<b>Session 2.4: Dust explosions</b> (Lijing Hall, Chair: Proust Christophe)	<b>Session 2.5: Gas explosions</b> (Guanlan Hall, Chair: Luca Marmo)	<b>Session 2.6: Detonation &amp; DDT</b> (Victoria Hall, Chair: Victor Golub)
14:05-14:30	ISH041—Ignition and explosibility of aluminium alloys used in additive layer manufacturing: Stéphane BERNARD, Philippe GILLARD, et al.	ISH116—Influence of various combustible gases in different relative humidity on explosion limits and danger of methane: Luo Zhenmin, Kang Kai, et al.	ISH015—Large scale deflagration to detonation testing: Scott Davis, Derek Engel, et al.
14:30-14:55	ISH053—The role of radiative preheating on flame propagation in aluminum dust clouds: Jessica Droujko, Philippe Julien, et al.	ISH179—Flammability and explosion characteristics of marginally flammable refrigerants: S.G. Davis, J.L. Pagliaro, et al.	ISH185—Numerical modelling of deflagration to detonation transition in inhomogeneous hydrogen/air mixtures: R. KhodadadiAzadboni, J.X. Wen, et al.
14:55-15:20	ISH057—Temperature test and igniting colored powder ability analysis of lighted cigarettes: Siqi Li, Xin Jin, et al.	ISH181—Effect of obstacle on methane-air explosion in spherical vessel connected with pipeline: Qingqing Zuo, Zhirong Wang, et al.	ISH151—Mechanisms of dust scouring behind shock waves: Ryan W. Houim, Orlando Ugarte, et al.
15:20-15:45	Coffee break (Guanhai Hall)		
15:45-17:00	<b>Session 2.7: Dust explosions</b> (Lijing Hall, Chair: David Frost)	<b>Session 2.8: Flame propagation &amp; acceleration</b> (Guanlan Hall, Chair: Detlev Markus)	<b>Session 2.9: Runaway reactions</b> (Victoria Hall, Chair: Juncheng Jiang)
15:45-16:10	ISH038—Flame structure and flame propagation in Lycopodium air mixtures below atmospheric pressure: Hannes Kern, Gerald Wieser, et al.	ISH088—Numerical prediction of H <sub>2</sub> /air ignition and stable combustion considering different chemical reaction mechanism: Bing Wang, Wei Wei, et al.	ISH157—Combustion behavior of lithium iron phosphate battery induced by external heat radiation: Qingsong Wang, Peifeng Huang, et al.
16:10-16:35	ISH050—Numerical simulation of layered coal-dust explosions based on Euler-Lagrange approach: Takuro KANNO, Kei ASANO, et al.	ISH089—Numerical prediction of H <sub>2</sub> /air ignition and stable combustion: effects of gas property models: Bing Wang, Wei Wei, et al.	ISH160—Inherent safer design for chemical process of 1,4-dioldiacetate-2-butene oxidized by ozone: Zhang Lu; Yu Wendi, et al.
16:35-17:00	ISH186—Effects of turbulent intensity on Nano-PMMA flame propagation behaviours: XinYan Zhang, JianLiang Yu, et al.	ISH093—Propagation of a confined explosion to an external cloud: Daubech Jérôme, Proust Christophe, et al.	ISH180—A green approach for pyrolysis behaviour estimate of Huainan coal via thermogravimetry: Jun Deng, Jing-Yu Zhao, et al.

<b>Time</b>	<b>Wednesday 27 July 2016</b>		
<b>08:30-09:00</b>	<b>Registration</b> (Bayshore Hotel Dalian's Lobby)		
<b>09:10-10:10</b>	<b>Plenary IV</b> (Lijing Hall, Chair: Jennifer Wen) ISH006—Consequence analysis of accidental gas explosions (Ritsu Dobashi, The University of Tokyo)		
<b>10:10-10:35</b>	<b>Coffee break</b> (Guanhai Hall)		
<b>10:35-11:50</b>	<b>Session 3.1: Dust explosions</b> (Lijing Hall, Chair: Francesco Tamanini)	<b>Session 3.2: Gas explosions</b> (Guanlan Hall, Chair: Qi Zhang)	<b>Session 3.3: Runaway reactions</b> (Victoria Hall, Chair: Qingsong Wang)
10:35-11:00	ISH030—Determination of the limiting oxygen concentration of dust/air and hybrid mixtures based on thermochemical properties: Ulrich Krause, Emmanuel Kwasi Addai, et al.	ISH188—Experimental and LES investigation of premixed methane/air flame propagating in a obstructed chamber with two slits	ISH158—Comprehensive runaway kinetic analysis and validation of three azo compounds using calorimetric approach and simulation: Shang-Hao Liu, Hung-Yi Hou, et al.
11:00-11:25	ISH031—Development of a dust dispersion system for investigations on reduced pressure conditions in the 20 liter SIWEK apparatus using OpenFOAM: Werner Pollhammer, Christoph Spijker, et al.	ISH107—Escalation procedure of gas release, fire and explosion accidents and pre-assessment for accident consequence in petrochemical plants: Fangming Cheng, Bin Xie, et al.	ISH159—Effects of environmental temperature and heat dissipation condition on thermal runaway of lithium ion battery during charge-discharge process: Guo Linsheng, Wang Zhirong, et al.
11:25-11:50	ISH046—Investigations on the influence of the specific surface on the ignition and flame behavior of combustible dust/air-mixtures: Katja Hüttenbrenner, Claudia Donner, et al.	ISH166—Unconfined silane-air explosions: Hsiao-Yun Tsai, Yu-Jhen Lin, et al.	ISH187—The investigation of an adiabatic criterion for runaway detection of semibatch processes: Zichao Guo, Wenshui Bai, et al.
<b>12:00-13:00</b>	<b>Lunch</b> (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		
<b>14:00-17:00</b>	<b>Visit to School of Chemical Machinery and Safety Engineering</b>		

Time	Thursday 28 July 2016		
09:10-10:10	Plenary V (Lijing Hall, Chair: Francesco Tamanini) ISH003—Premixed flame propagation in hydrogen explosions (Jinhua Sun, University of Science and Technology of China)		
10:10-10:35	Coffee break (Guanhai Hall)		
10:35-11:50	<b>Session 4.1: Dust explosions</b> (Lijing Hall, Chair: Trygve Skjold)	<b>Session 4.2: Vented explosions</b> (Guanlan Hall, Chair: Regis C. Bauwens)	<b>Session 4.3: Ignition &amp; extinction</b> (Victoria Hall, Chair: Jie Ji)
10:35-11:00	ISH035—Effects of particle size distributions on flame propagation behaviors through clouds of PMMA particles: Yojiro Yuzuriha, Wei Gao, et al.	ISH169—Gas explosion venting: comparison of experiments with design standards and laminar flame venting theory: Bala M. Fakandu, Gordon E. Andrews, et al.	ISH144—Mechanically triggered ignition at repetitive friction contacts: Lennart Meyer, Martin Thedens, et al.
11:00-11:25	ISH043—Ignition of dust clouds by strong capacitive electric sparks of short discharge times: Rolf K. Eckhoff	ISH171—Flameless venting achievements and difficulties: Yann Grégoire, Emmanuel Leprette, et al.	ISH137—Experimental investigation of low-voltage spark ignition caused by separating electrodes: Carsten Uber, Rajiv Shekhar, et al.
11:25-11:50	ISH146—Numerical investigations on minimum ignition energy and flame propagation in dust/air - mixtures by using a Lagrangian –model in OpenFOAM, Werner Pollhammer, Christoph Spijker, et al.	ISH174—Way and effect of pipeline explosion venting for CBM transfer pipeline: Shao Hao, Jiang Shuguang, et al.	ISH138—Ignition limits of silane-air mixtures: D.A. Tropin & A.V. Fedorov
12:00-14:00	Lunch (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		
14:05-15:20	<b>Session 4.4: Dust explosions</b> (Lijing Hall, Chair: Rolf K. Eckhoff)	<b>Session 4.5: Explosion prevention</b> (Guanlan Hall, Chair: Luc Bauwens)	<b>Session 4.6: Ignition &amp; extinction</b> (Victoria Hall, Chair: Bing Wang)
14:05-14:30	ISH051—Flame speed and $K_{ST}$ reactivity data for pulverized corn cobs and peanut shells: Muhammad Azam Saeed, David J.F. Slatter, et al.	ISH009—Research on industrial explosion safety in Poland: Piotr Wolański	ISH140—Numerical investigation of the ignition of diethyl ether air and propane air mixtures by hot jets: S. Fischer, D. Markus, et al.
14:30-14:55	ISH060—Turbulent Flame Propagation in large Dust Clouds: Proust Christophe	ISH063—Investigation on the approach of intercepting fragments generated by vessel explosion using barrier net: Dongliang Sun, Juncheng Jiang, et al.	ISH141—Ignition of hydrogen-air mixtures by a localized stationary hot surface: R. Mevel, J. Melguizo-Gavilanes, et al.
14:55-15:20	ISH125—Explosivity of hybrid solid/solid mixtures coexistence of metals and graphite dusts: Miriam D'Amico, Olivier Dufaud, et al.	ISH064—Investigations of static and dynamic stresses of flameproof enclosures: Tim Krause, Jürgen Bewersdorff, et al.	ISH143—Incendivity of aluminium bronze in mechanical friction contacts: Lennart Meyer, Martin Thedens, et al.
15:20-15:45	Coffee break (Guanhai Hall)		
15:45-17:00	<b>Session 4.7: Dust explosions</b> (Lijing Hall, Chair: Gordon E Andrews)	<b>Session 4.8: Explosion prevention</b> (Guanlan Hall, Chair: Jenq-Renn Chen)	<b>Session 4.9: Ignition &amp; extinction</b> (Victoria Hall, Chair: Michael Beyer)
15:45-16:10	ISH059—TNT Equivalent method predicts the scope of damage that industrial dust collector explodes: Lihong Chen, Gang Li, et al.	ISH061—Explosion safety of highly concentrated hydrogen peroxide: Grzegorz Rarata, Paweł Surmacz, et al.	ISH136—Evolution of flame kernel in one eddy turnover of high-speed droplet laden shear layers: Zhaoxin Ren, Bing Wang, et al.
16:10-16:35	ISH085—Flame propagation of a zirconium dust cloud in a Hartmann tube: Sepideh Hosseinzadeh, Maarten Vanierschot, et al.	ISH066—Pressure testing flameproof equipment intended for extremely low temperatures: Jim Munro, Kou Xiaoguang, et al.	ISH163—The influence of inert materials on the self-ignition temperature and maximum reaction temperature of bulk materials: Christoph Wanke, Benjamin Binkau, et al.
16:35-17:00	ISH183—Thermal radiation in dust flame propagation: Proust Christophe, Ben Moussa Rym, et al.	ISH177—Preventing the explosion of acetylene cylinders involved in fire: Marzena Polka, Bożena Kukfisz	ISH184—The energy distribution structure and dynamic characteristics of energy release in electrostatic discharge process: Qingming Liu, Huige Shao, et al.
18:30-21:00	Banquet (Lijing Hall, Bayshore Hotel Dalian) – ticket required		

Time	Friday 29 July 2016		
09:10-10:10	Plenary VI (Lijing Hall, Chair: Trygve Skjold) ISH005—Mitigation of gaseous detonations (Andrzej Teodorczyk, Warsaw University of Technology)		
10:10-10:35	Coffee break (Guanhai Hall)		
10:35-11:50	<b>Session 5.1: Hydrogen safety</b> (Lijing Hall, Chair: Jennifer Wen)	<b>Session 5.2: Explosion suppression &amp; isolation</b> (Guanlan Hall, Chair: Jun Deng)	<b>Session 5.3: Risk management</b> (Victoria Hall, Chair: Zhirong Wang)
10:35-11:00	ISH130—Spontaneous ignition and deflagration behavior of high-pressure hydrogen release through a tube with local enlargement: Qiangling Duan, Feng Zhang, et al.	ISH106—Effect of size on methane-air mixture explosions and explosion suppression in spherical vessel connected with pipes: K. Zhang, Z. R. Wang, et al.	ISH153—New possibilities in gas explosion blast wave risk mitigation by blast proofing in critical infrastructure buildings: J. Paappa & J. Ronkainen
11:00-11:25	ISH133—Validating, documenting and qualifying models used for consequence assessment of hydrogen explosion scenarios: Helene Hisken, Gordon Atanga, et al.	ISH071—Effect of wire mesh on double-suppression of CH <sub>4</sub> /air mixture explosions in a spherical vessel connected to pipelines: Cui Yangyang, Wang Zhirong, et al.	ISH155—Risk analysis of fire & explosion accidents in dangerous chemical warehouses based on the dynamic risk balance: Li Jingjing, Liu Xuanya, et al.
11:25-11:50	ISH176—Effects of the ignition position on the overpressure originated from a delayed ignition of high pressure releases of hydrogen: Elena Vyazmina, Simon Jallais, et al.	ISH072—Effect of dust explosion suppression by sodium bicarbonate with different granular composition: Xi Chen, Xianfeng Chen, et al.	ISH156—Study of dynamic risk management system for flammable and explosive dangerous chemicals storage area: Liu Xuanya & Li Jingjing
12:00-14:00	Lunch (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		
14:05-15:20	<b>Session 5.4: Hybrid explosions</b> (Lijing Hall, Chair: Xianfeng Chen)	<b>Session 5.5: Explosion suppression &amp; isolation</b> (Guanlan Hall, Chair: Carsten Uber)	
14:05-14:30	ISH102—Explosibility of Hybrid Mixtures of Lycopodium Dust and Methane: Wentao Ji, Xingqing Yan, et al.	ISH073—Experimental study on the synergistic inhibition effect of gas-liquid two phase medium on gas explosion: Bei Pei, Minggao Yu, et al.	
14:30-14:55	ISH123—Evaluating regime diagrams for closed volume hybrid explosions: Chris T. Cloney, Robert C. Ripley, et al.	ISH075—Numerical analysis of impact factor of explosion suppression effect by vacuum chamber: Shao Hao, Jiang Shuguang, et al.	
14:55-15:20	ISH126—Influence of carbon black nanoparticles on the front flame velocity of methane/air explosions: David Torrado, Nicolas Cuervo-Rodriguez, et al.	ISH077—Experimental study of influence of metal mesh on dynamics of premixed methane-air flame propagation in a closed duct: Kaiqiang Jin, Feng Zhang, et al.	
15:20-15:45	Coffee break (Guanhai Hall)		
15:45-17:00	<b>Session 5.6: Hybrid explosions</b> (Lijing Hall, Chair: Gang Li)	<b>Session 5.7: Explosion suppression &amp; isolation</b> (Guanlan Hall, Chair: Changjian Wang)	
15:45-16:10	ISH124—Experimental study on explosion characteristics for methane - coal dust mixtures: Jun Deng, Jiao Qu, et al.	ISH074—Suppression of methane/air explosion in pipeline by water mist: Wang Fahui, Yu Minggao, et al.	
16:10-16:35	ISH128—Investigation of the minimum ignition temperature and lower explosion limit of multi-components hybrid mixtures in the Godbert- Greenwald furnace: Emmanuel Kwasi Addai, Dieter Gabel, et al.	ISH076—Numerical simulation on the suppression of methane air explosion by ultrafine water mist: Xingyan Cao, Yiming Li, et al.	
16:35-17:00	ISH129—The flow field measurement of methane coal hybrid explosion with PIV method under obstacle and ultra-fine water mist: Hongli Xu, Yuan Li, et al.		
18:00-20:30	Farewell & Best paper awards & Closing (Huanyu Restaurant, 25th Floor, Bayshore Hotel Dalian) – ticket required		