

# Program for the 2014 ISSST

## Overview of the program

Date Time	November 4	November 5		November 6
7:00	Breakfast	Breakfast		Breakfast
8:00-12:00	8:30 Opening Ceremony 9:00 Group photo session	Session A1	Session B1	Visiting the Great Wall → State Key Laboratory of Explosion Science and Technology (Beijing Institute of Technology).
	Invited plenary presentation 1	Session A2	Session B2	
12:00-13:30	Lunch	Lunch		
13:30-18:00	Invited plenary presentation 2	Session A3	Session B3	
	15:15-15:40 Poster session Invited plenary presentation 3	Session A4	Session B4	
18:00	Supper	Closing Ceremony and Banquet (18:30)		Supper

- Accommodations and symposium are arranged at the Beijing Xijiao Hotel (北京西郊宾馆).
- On-site registration will be held in the lobby of the Beijing Xijiao Hotel 13:00–22:00 on November 3.
- Venue for Breakfast, Lunch, Supper, Shangyuan Restaurant(赏园), the 2nd floor, Building No. 5, Beijing Xijiao Hotel.
- Venue for Banquet: Xiyuan Seafood Restaurant(西园), the 1st floor, Building No. 1, Beijing Xijiao Hotel.
- Venue for opening ceremony and invited papers presentation: Jinyuan Hall(金缘厅), 2<sup>nd</sup> floor, Building No.5, Beijing Xijiao Hotel.
- Venue for session A: Jinyuan Hall(金缘厅), the 2<sup>nd</sup> floor, Building No.5, Beijing Xijiao Hotel.
- Venue for session B: Huiyuan Hall(荟缘厅), the 2<sup>nd</sup> floor, Building No.5, Beijing Xijiao Hotel.
- Group photos and participants list will be distributed before the end of the symposium.
- The badges of volunteers are in orange color.

## **November 4**

### **7:00 Breakfast**

### **8:30-9:00 Opening Ceremony**

**Venue: Jinyuan Hall(金缘厅), the 2<sup>nd</sup> floor, Building No.5, Beijing Xijiao Hotel.**

**Chair: Prof. WANG Cheng (China)**

### **9:00-9:30 Group photo session & Coffee break**

#### **Invited Plenary Presentation 1**

**Chair: Prof. FENG Changgen (China)**

**Prof. Jan BERGHMANS (Belgium)**

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|--------------------|--|-------------------------------------|
| <b>9:30-10:05</b>  | Recent progress in public safety science and technology ( <i>Supplement</i> )  | <i>Prof. FAN Weicheng (China)</i>   |
| <b>10:05-10:40</b> | Challenges in the context of the development and application of risk-informed regulations in the domain of safety technology (1) | <i>Dr. Peter KAFKA(Austria)</i>     |
| <b>10:40-11:15</b> | QSAR/QSPR modeling of diverse materials in safety and environmental applications ( <i>Supplement</i> )                           | <i>Prof. JIANG Juncheng(China)</i>  |
| <b>11:15-11:50</b> | Layer of Protection Analysis(9)  | <i>Prof. Ronald J. WILLEY (USA)</i> |

### **12:00 Lunch**

#### **Invited Plenary Presentation 2**

**Chair: Prof. Ronald J. WILLEY (USA)**

**Prof. QIAN Xinming (China)**

- |                    |   |                                      |
|--------------------|---|--------------------------------------|
| <b>13:30-14:05</b> | Explosion Protection according to the EU Directives using the Data from CHEMSAFE Database (233) | <i>Dr. Maria MOLNARNE (Germany)</i>  |
| <b>14:05-14:40</b> | Safety aspects of CNG cars(28)  | <i>Prof. Jan BERGHMANS (Belgium)</i> |
| <b>14:40-15:15</b> | Vulnerability and resilience under effects of tsunamis: case of industrial plants (828)         | <i>Prof. Ahmed MÉBARKI (France)</i>  |

**15:15-15:40 Coffee Break and poster presentation (Poster setup will be held in the back of Jinyuan Hall)**

Effects of Daytime Running Lamps on pedestrians visual reaction time: implications on vehicles and human factors (533)

*Juan DE OÑA*

Considerations on the effects of automotive lighting to enhance alert and avoid sleepiness in night time drivers via melatonin inhibition(537)

*Juan DE OÑA*

Dwarf-castor oil made into a suitable biodiesel (822)

*Chun-Ping LIN*

Storage safety control and management of solid naval energetic materials by thermokinetic and hazard simulation (294)

*Chun-Ping LIN*

**Invited Plenary Presentation 3**

**Chair: Dr. Peter KAFKA (Austria)**

**Dr. Maria MOLNARNE (Germany)**

**15:40-16:15** QRA including domino effect as a tool for Engineering Design (19)

*Prof. Rosa NOMEN (Spain)*

**16:15-16:50** Rigorous versus simplified protection layer reliability calculations and problems with popular risk analysis methodologies(43)

*Dr. Jan C. A. WINDHORST(Canada)*

**16:50-17:25** Effectiveness of indirect safety regulation on industrial machines and devices in Korea (114)

*Prof. Gi Heung CHOI (Korea)*

**17:25-18:00** Evaluations on thermal runaway hazard for propylene adsorber using calorimetric technology combined with computational fluid dynamics (*Supplement*)

*Prof. Chi-Min Shu (Taiwan of China)*

**18:00 Supper**

## November 5

### 7:00 Breakfast

<b>Session A-1 Prevention of Fire and Explosion(1)</b> <b>Venue: Jinyuan Hall (金缘厅), the 2<sup>nd</sup> floor</b> <b>Chair: Prof. Hiroshi KOSEKI (Japan)</b> <b>Prof. Chi-Min Shu (Taiwan of China)</b>	<b>Session B-1 Safety Assessment and Risk Analysis</b> <b>Venue: Huiyuan Hall (荟缘厅), the 2<sup>nd</sup> floor</b> <b>Chair: Prof. Ahmed MÉBARKI (France)</b> <b>Prof. Mark WIGGINS (Australia )</b>
<b>8:00-8:30</b> <i>Invited presentation</i> Experimental and numerical Simulation on gas explosion WANG Cheng	<b>8:00-8:20</b> Subjective priors in Bayesian estimation of safety and reliability characteristics(56) Franciszek GRABSKI
<b>8:30-9:00</b> <i>Invited presentation</i> Explosion protection in biogas and hybrid power plants(243) Volkmar SCHROEDER	<b>8:20-8:40</b> Quantitative safety analysis in explosion ( <i>Supplement</i> ) QIAN Xinming
<b>9:00-9:20</b> Progress on fire and explosion suppression technologies for light petroleum fuel (347) LU Changbo	<b>8:40-9:00</b> Cues and cue-based processing: implications for system safety(50) Mark WIGGINS
<b>9:20-9:40</b> The condition for aqueous–organic mixtures not to flash(261) Horng-Jang LIAW	<b>9:00-9:20</b> Improved grey correlative method for safety synthetic evaluation on transportation system in coalmines (103) YANG Yuzhong
	<b>9:20-9:40</b> Bibliometric mapping of “International Symposium on Safety Science and Technology (1998—2012)” (63) LI Jie

### 9:40-10:00 Coffee Break

<p><b>Session A-2 Prevention of Fire and Explosion(2)</b>  <b>Venue: Jinyuan Hall (金缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Prof. Volkmar SCHROEDER (Germany)</b>  <b>Prof. Horng-Jang LIAW (Taiwan of China)</b></p>	<p><b>Session B-2 Traffic and Transportation Safety</b>  <b>Venue: Huiyuan Hall (荟缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Prof. Panos PAPAIOANNOU (Greece)</b>  <b>Prof. YANG Yuzhong (China)</b></p>
<p><b>10:00-10:20</b> Application of dust explosion protection systems(275)  J �r �me TAVEAU</p> <p><b>10:20-10:40</b> Study and countermeasure of hazard of dust explosion of various toner cartridges(255)  Hiroshi KOSEKI</p> <p><b>10:40-11:00</b> Auto-ignition characteristics of selected ionic liquids (265)  Chan-Cheng CHEN</p> <p><b>11:00-11:20</b> Study on the influence of dust on CO/H<sub>2</sub> deflagration characteristic (413)  LIU Yuanyi</p> <p><b>11:20-11:40</b> Effect of heating temperature on the flash point of ionic liquids (271)  Kuan-Yu CHEN</p> <p><b>11:40-12:00</b> Experimental research on minimum ignition temperature of 7-ACA dust cloud (419)  LIU Xin</p>	<p><b>10:00-10:20</b> Preliminary impact analysis of countdown signal timer installations at two intersections in Greece (559)  Panos PAPAIOANNOU</p> <p><b>10:20-10:40</b> A preliminary analysis of two Bus Rapid Transit accidents in Mexico City (550)  Jaime SANTOS-REYES</p> <p><b>10:40-11:00</b> Earthquake risk perception and Mexico City's public safety (583)  Jaime SANTOS-REYES</p> <p><b>11:00-11:20</b> Testing string material selection in environment with multiple deleterious gases (747)  WANG Wei</p> <p><b>11:20-11:40</b> Study on attenuation law of open-pit bench blasting vibration (759)  ZHANG Yuanjuan</p> <p><b>11:40-12:00</b> Coupling of a thermal sweating manikin and a thermal model for simulating human thermal response(780)  YANG Jie</p>

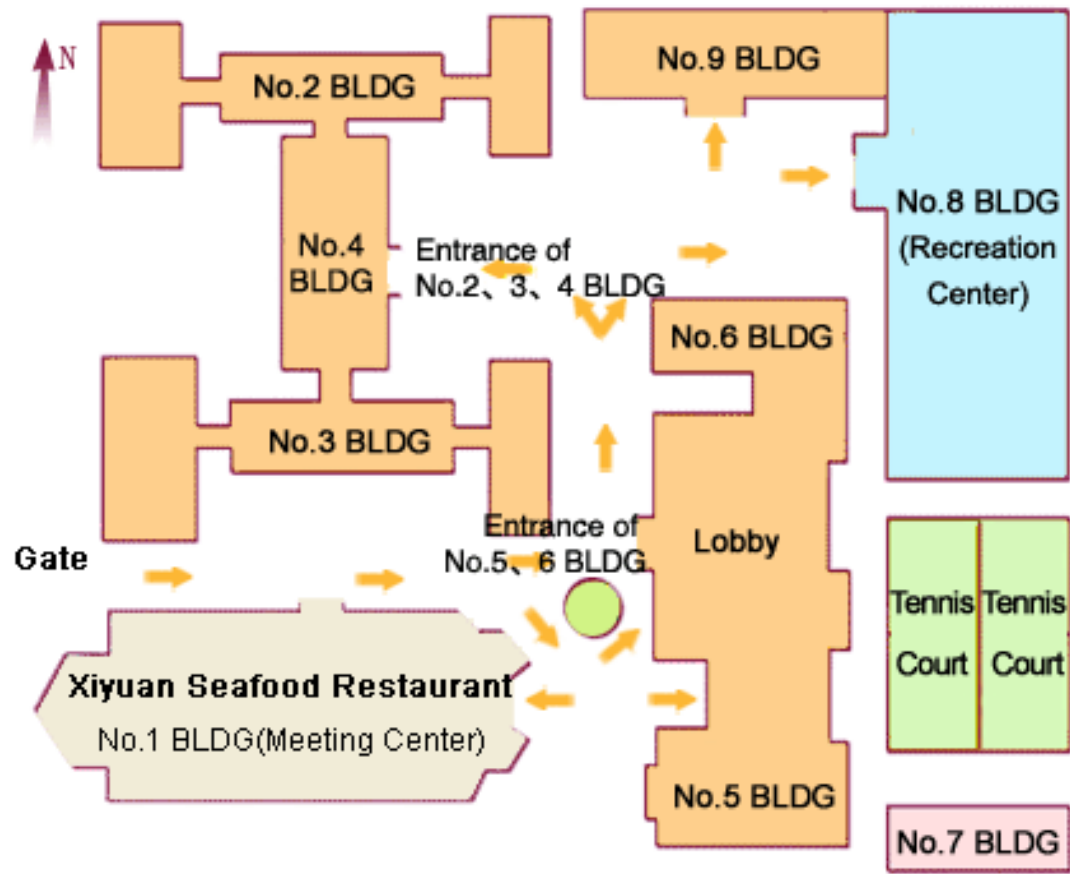
**12:00 Lunch**

<p><b>Session A-3 Prevention of Fire and Explosion(3)</b>  <b>Venue: Jinyuan Hall (金缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Prof. Rosa NOMEN (Spain)</b>  <b>Prof. Chung-Hwei SU (Taiwan of China)</b></p>	<p><b>Session B-3 Safety Management and Education</b>  <b>Venue: Huiyuan Hall (荟缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Dr. Peter KAFKA (Austria)</b>  <b>Prof. Gi Heung CHOI (Korea)</b></p>
<p><b>13:30-13:50</b> Experimental analysis of minimum ignition temperature of coal dust layers in oxy-fuel combustion atmospheres(302)  Dejian WU</p> <p><b>13:50-14:10</b> Research on explosion characteristics of sulfur dust and risk control of the explosion (403)  YU Yanqiu</p> <p><b>14:10-14:30</b> Static experimental study on flame retardant and explosion suppression performances of fire resistant diesel fuel (377)  HUANG Yong</p> <p><b>14:30-14:50</b> Simulation research on human evacuation in subway with a single-point fire scenario (527)  WANG Zhilei</p> <p><b>14:50-15:10</b> Study on coal spontaneous combustion characteristic temperature of growth rate analysis(698)  ZHAO Jingyu</p> <p><b>15:10-15:30</b> Study on correlations between the flammability and dynamic smoke properties of four decorative materials (445)  YAN Long</p>	<p><b>13:30-13:50</b> Implementing scientific and effective supervision by application of RBS/M theory and method (117)  ZHANG Ying</p> <p><b>13:50-14:10</b> Demand-oriented reform on cultivating mode of safety management students (163)  XIONG Hongqin</p> <p><b>14:10-14:30</b> Study on safety capacity of chemical industrial park in operation stage (193)  WANG Rui</p> <p><b>14:30-14:50</b> Quality risk management model for railway construction projects (178)  LI Qing</p> <p><b>14:50-15:10</b> A quantitative judgement method for safety admittance of facilities in chemical industrial parks based on G1-variation coefficient method (201)  QIAN Chengjiang</p> <p><b>15:10-15:30</b> Influence of the cylindrical source size on impact probability caused by fragments (688)  SUN Dongliang</p>

**15:30-15:50 Coffee Break**

<p><b>Session A-4 Fire Safety</b>  <b>Venue: Jinyuan Hall (金缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Prof. Chan-Cheng CHEN (Taiwan of China)</b>  <b>Mr. Jérôme TAVEAU (USA)</b></p>	<p><b>Session B-4 Public Safety</b>  <b>Venue: Huiyuan Hall (荟缘厅), the 2<sup>nd</sup> floor</b>  <b>Chair: Dr. Jan WINDHORST (Canada)</b>  <b>Prof. Franciszek GRABSKI (Poland)</b></p>
<p><b>15:50-16:10</b> Great East Japan Earthquake disaster waste and the occurrence of fires (423)  Hiroshi KOSEKI</p> <p><b>16:10-16:30</b> Longitudinal ventilation for smoke control of urban traffic link tunnel: hybrid field-network simulation (520)  YANG Dong</p> <p><b>16:30-16:50</b> Determination of fire load and heat release rate for high-rise residential buildings (439)  Jing LIU</p> <p><b>16:50-17:10</b> Study on the reasonable smoke exhaust rate of the cross range exhaust duct in double-layer shield tunnel (452)  LIU Yangyang</p> <p><b>17:10-17:30</b> The assessment of fire suppression capability for the ammonium dihydrogen phosphate dry powder of commercial fire extinguishers(434)  Chung-Hwei SU</p>	<p><b>15:50-16:10</b> Study on correlation factors that influence terrorist attack fatalities using Global Terrorism Database (613)  LU Song</p> <p><b>16:10-16:30</b> Comparison of turbulent pedestrian behaviors between Mina and Love parade (622)  WANG Jiayue</p> <p><b>16:30-16:50</b> Crowd evacuation: experiments and modeling – Case of rooms (Supplement)  Ahmed MÉBARKI</p> <p><b>16:50-17:10</b> Research of emergency venting time in natural gas pipeline accidents with SPS (811)  ZHANG Liping</p>

**18:30 Closing Ceremony and Banquet**



Plan of Beijing Xijiao Hotel