



Preliminary Program February 20 2026

| Time | Day 0 - April 19 2026 Sun. | |
|-------------|---|------------------------------------|
| 14:00-17:00 | Pre-registration | |
| Time | Day 1 - April 20 2026 Mon. | |
| 09:00-09:20 | Registration | |
| 09:20-09:50 | Opening Room: 301B | |
| 09:50-10:30 | Plenary 1 Room: 301B | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | |
| 11:00-12:15 | Dust & Explosion Mitigation I 301B | Battery Safety I 302A |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | |
| 13:45-15:25 | AI & Databasing Applied to Explosions 301B | Flame Propagation 302A |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | |
| 15:50-16:40 | Hydrogen and Gas Safety I 301B | Risk Management I 302A |
| 17:05-19:00 | Welcome reception at Belon near Yacht Harbor | |
| Time | Day 2 - April 21 2026 Tue. | |
| 09:10-09:50 | Plenary 2 Room: 301B | |
| 09:50-10:30 | Plenary 3 Room: 301B | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | |
| 11:00-12:15 | Dust & Explosion Mitigation II 301B | Explosion Modelling 302A |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | |
| 13:45-15:25 | Battery Safety I 301B | Ignition & Extinction I 302A |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | |
| 15:50-16:40 | Dust & Hybrid Explosions I 301B | Hydrogen and Gas Safety II 302A |



| Time | | Day 3 - April 22 2026 Wed. | |
|-------------|---|--|--|
| 09:10-09:50 | Plenary 4 Room: 301B | | |
| 09:50-10:30 | Plenary 5 Room: 301B | | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Dust & Explosion Mitigation III 301B | Hydrogen and Gas Safety III 301B | |
| 12:15-13:00 | Lunch box en route on bus to Guided tour | | |
| 13:00-17:00 | Guided tour 3 Options | | |
| 17:00-18:00 | Bus return to Restaurant | | |
| 18:00-20:00 | Gala dinner Old New Taiwanese Cuisine, a Bib Gourmand Restaurant | | |
| Time | | Day 4 - April 23 2026 Thr. | |
| 09:10-09:50 | Plenary 6 Room: 301B | | |
| 09:50-10:30 | Plenary 7 Room: 301B | | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Detonation & DDT 301B | Ignition & Extinction II 302A | |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | | |
| 13:45-15:25 | Dust & Explosion Mitigation IV 301B | Explosion Prevention & Mitigation 302A | |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | | |
| 15:50-16:40 | Dust & Hybrid Explosions II 301B | Risk Management II 302A | |
| Time | | Day 5 - April 24 2026 Fri. | |
| 09:10-10:25 | Dust & Explosion Mitigation V 301B | Work-in-Progress Poster Presentation 302A | |
| 10:25-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Ignition & Extinction III 301B | Battery Safety I 302A | |
| 11:50-12:20 | Closing & Best Paper Award 301B | | |
| 12:20-15:00 | Lunch on Boat Tour to Kaohsiung Harbor Board from Yacht Harbor | | |



| | | |
|-------------|---|---|
| Time | Day 0 - April 19 2026 Sun. | |
| 14:00-17:00 | Pre-registration | |
| Time | Day 1 - April 20 2026 Mon. | |
| 09:00-09:20 | Registration | |
| 09:20-09:50 | Opening , Room: 301B | |
| 09:50-10:30 | Plenary 1: Kaohsiung Underground Pipeline Explosion – Cause, Response and Recovery Chien-Hsun Wei, Room: 301B | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | |
| 11:00-12:15 | Dust & Explosion Mitigation I 301B | Battery Safety I 302A |
| 11:00-11:25 | 58) Fire and Explosion of Dust Suspensions in Unconfined Environment Enrico Danzi | 174) Explosion Hazard Assessment in Wing-Body Trucks Transporting Reused Lithium-Ion Batteries: A CFD-Based Comparative Study Byoungjik Park |
| 11:25-11:50 | 65) Examining Efficiency of Deflagration Vents Through Physics-based Modelling Lorenz Boeck | 181) Integrating Aging Data and Machine Learning for Real-Time Battery State of Safety Monitoring Maedeh Askarzadehardestani |
| 11:50-12:15 | 75) Dual Strategies to Mitigate Dust Explosions in Humid Environments: Fighting Moisture or Leveraging lit Yajie Bu | 186) Experimental Characterisation of Jet Fires from NMC Battery Thermal Runaway: Passive Fire Protection perspective Part 1 Karthik Nagendra |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | |
| 13:45-15:25 | AI & Databasing Applied to Explosions 301B | Flame Propagation 302A |
| 13:45-14:10 | 62) Data-Driven Prediction of Explosion Limits Using a Hierarchical Machine Learning Approach Solmaz Nadiri | 146) When Gravity Affects Instability Growth: The Dynamics of Ultra-Lean H ₂ /air Flames Jagannath Jayachandran |
| 14:10-14:35 | 113) Intelligent Ensemble System for Tunnel Fire Source Identification: Integrating Gaussian Physical Model with Multi-algorithm Optimization Zihe Gao | 177) Flame Size Analysis in Premixed Starch/Suppressant Powders as a Reference Case for CFD Model Validation Stefan Puttinger |
| 14:35-15:00 | 115) A Metadata Schema for the Field of Explosion Prevention Carsten Uber | 150) Flame-Expansion Wave Interactions: When Venting Enhances Flames Kevin Cheevers |
| 15:00-15:25 | 54) A Data-Driven Approach to Explosion Prevention in High-Hazard Industry Sectors Mohammad Zaid Kamil | 126) Experimental Study on Buoyancy Effects and Instability Behavior of Spherical Flames in Lean Hydrogen –Oxygen Mixtures Weisheng Chu |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | |
| 15:50-16:40 | Hydrogen and Gas Safety I 301B | Risk Management I 302A |
| 15:50-16:15 | 53) Structural Behavior of Aerospace Materials Under Gaseous Hydrogen-Air Explosion Loads: A Combined Experimental and Numerical Approach Romain Le Dortz | 183) Statistical and Probabilistic Modelling of Fire Risks in Plastic Recycling Facilities A Case Study of Kaohsiung, Taiwan Wen-Yen Juan |
| 16:15-16:40 | 82) Hydrogen and Ammonia Dispersion Test in Ventilated Enclosure Elena De Leo | 128) Building a Knowledge Graph of Chemical Accidents by Ontology Cheolhee Yoon |
| 16:40-17:05 | 153) Experimental Characterization of the Temperature Field of Hydrogen Fire Jets Vojtech Jankuj | 107) Taiwan Fire Act Related Hazmat Compliance -An Updated Analysis Chia Lung Wu |
| 17:05-19:00 | Welcome reception at Belon near Yacht Harbor | |



| Time | | Day 2 - April 21 2026 Tue. | |
|-------------|--|--|--|
| 09:10-09:50 | Plenary 2: Explosion Control Guidance for Lithium-Ion Based Battery Energy Storage System Installations Anil Kapahi Room: 301B | | |
| 09:50-10:30 | Plenary 3: Explosion Safety for Battery Energy Storage Systems: Emerging Engineering Best Practices and Research Challenges Lorenz R. Boeck Room: 301B | | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Dust & Explosion Mitigation II 301B | Explosion Modelling 302A | |
| 11:00-11:25 | 76) Numerical Investigation of Vent Shape Effects on Dust Explosion Kasun Weerasekara | 118) Numerical Investigation of the Interaction Between Blast Wave and Structures in Large-Scale Explosions Kenta Nakajima | |
| 11:25-11:50 | 78) Investigation of Potential Explosion Risks in Traditional Chinese Medicine Dust Based on Dust Explosion Characteristic Ming-Yu Hsu | 145) Insights from LES Toward Improving PDR Models for Gas Explosion Safety Mahesh Somasani | |
| 11:50-12:15 | 83) Influence of Vent Ducts and Weather Protection Covers on the Reduced, Maximum Explosion Overpressure in Explosion Vented Dust-Laden Systems Jef Snoeys | 50) CFD-DEM Coarse-Graining for Modelling Self-Heating of Direct Reduced Iron Christoph Spijker | |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | | |
| 13:45-15:25 | Battery Safety I 301B | Ignition & Extinction I 302A | |
| 13:45-14:10 | 163) Behavior of Electric Vehicle (EV) Fires in Tunnels under Different Ventilation Systems Yan Ting Ye | 88) Autoignition Testing: Injection, Mixing, and Ignition Charline Fouchier | |
| 14:10-14:35 | 164) Study on the Impact of Fire Safety Strategies on Electric Vehicle Fire Performance in Underground Car Parks Feng Jui Huang | 94) Prediction of Hot-Surface Ignition Temperature of Hydrogen-Air Mixtures Using a Reduced Model Kazunori Kuwana | |
| 14:35-15:00 | 143) Experimental Characterisation of Jet Fires from NMC Battery Thermal Runaway: Passive Fire Protection Perspective Karthik Nagendra | 95) Study on Flame Spreading Behaviour of Combustibles with Coarsely-wetted Dots Yuji Nakamura | |
| 15:00-15:25 | On the Flammability of Polymer/Acetonitrile Mixtures Gianmaria Pio | 124) Ignition Temperature of Propane Jet in Air Impinging to a Hot Surface Tomohiko Imamura | |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | | |



| Time | | Day 2 - April 21 2026 Tue. | |
|-------------|---|--|--|
| 15:50-16:40 | Dust & Hybrid Explosions I 301B | Hydrogen and Gas Safety II 302A | |
| 15:50-16:15 | 49) Safety of Iron as an Energy Carrier - A View on the Reduction Process Stefan Spitzer | 55) Effect of Temperature and Pressure on Fire-Safety characteristics of the mixture of natural gas and hydrogen Matej Masin | |
| 16:15-16:40 | 66) Modeling Combustible Dust Off-Gassing: Mass Loss Rate and Mole Fraction Accumulation of Ignitable Vapors in a Naturally Ventilated Compartment Hannah Murray | 56) Factors Influencing the Ignition Range and Explosion Regime of Ammonia Hydrogen Mixtures Dieter Gabel | |
| 16:40-17:05 | 72) Dust Explosion Propagation In Vented Interconnected Vessels at Low Reduced Explosion Pressures Marius Bloching | 57) Characterisation of Porous Materials for Utilisation in Explosion Protection Systems Along the Hydrogen Value Chain Sabrina Herbst | |
| 17:05-17:30 | 85) Can an Explosion Chamber of Non-Standard Shape Produce Results Comparable to Standard Explosion Chamber? Bretislav Janovsky | 185) Hydrogen Explosion Dynamics in Complex Geometries: CFD–Experiment Comparison Using PDRFoam Ashok Choudhary | |
| Time | | Day 3 - April 22 2026 Wed. | |
| 09:10-09:50 | Plenary 4: Understanding Flame Dynamics in Gas, Dust, and Hybrid Mixtures Wookyung Kim Room: 301B | | |
| 09:50-10:30 | Plenary 5: Advanced Acoustic Computed Tomography for Real-Time Tunnel Temperature Field Reconstruction: Algorithm Optimization and Intelligent Sensor Layout Zihe Gao Room: 301B | | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Dust & Explosion Mitigation III 301B | Hydrogen and Gas Safety III 301B | |
| 11:00-11:25 | 116) An Attempt to Assess the Laminar Burning Velocity in a Dust/Air Mixtures based on Data from the Standard 1 m3 vessel Zdzisław Dyduch | 117) Reliable Long-Range Detection and Imaging of Small Hydrogen Flames under Daylight Conditions Jens Brunzendorf | |
| 11:25-11:50 | 119) Towards the Implementation of Pyrolysis Mechanisms for Polymer Dust Explosion Simulation Olivier Dufaud | 63) Extending the Capability Limits of Flame Arresters for H2 Applications Using Composite Materials Sabrina Herbst Nils-Hendrik Dennda | |
| 11:50-12:15 | 105) Inspection and Maintenance of Industrial and Commercial Fire Protection Equipment After an Earthquake Chia Lung Wu | 97) Friction-Induced Spontaneous Ignition in Premixed Hydrogen-Air Mixtures Rafał Porowski | |
| 12:15-13:00 | Lunch box en route on bus to Guided tour | | |
| 13:00-17:00 | Guided tour 3 Options | | |
| 17:00-18:00 | Bus return to Restaurant | | |
| 18:00-20:00 | Gala dinner Old New Taiwanese Cuisine, a Bib Gourmand Restaurant | | |



| Time | | Day 4 - April 23 2026 Thr. | |
|-------------|--|---|--|
| 09:10-09:50 | Plenary 6: The Detonation Research Test Facility – Going Upscale! Elaine Oran, Room: 301B | | |
| 09:50-10:30 | Plenary 7: Chemical Suppression Systems: Review of Best Practices for Optimal Performance and Reliability Jeremy Slaunwhite, Room: 301B | | |
| 10:30-11:00 | Break with tea/coffee at 301B rear section | | |
| 11:00-12:15 | Detonation & DDT 301B | Ignition & Extinction II 302A | |
| 11:00-11:25 | 104) Heat Flux Investigations for Acetylene and Oxygen Explosions in Pressure Relief Systems Marco Gerbeit | 127) Effect of Flow Velocity on the Quenching Distance of Methane–Air Premixed Flame Jun-ichi Suematsu | |
| 11:25-11:50 | 123) DDT Process subsequent to Flame Acceleration Luc Bauwens | 159) Assessing the Degree of Pyrophoricity for Gaseous Silanes Trung Thanh Nguyen | |
| 11:50-12:15 | 144) A One-Dimensional Model to Elucidate Pressure Gain During Flame Acceleration in Smooth Channels Jagannath Jayachandran | 133) Observation of Blowoff Process of a Diffusion Flame Formed on a Wooden Cylinder in a Blast Extinguishment with a Micro-explosive Makiko Fukuda | |
| 12:15-13:45 | Lunch Buffet at Belon near Yacht Harbor | | |
| 13:45-15:25 | Dust & Explosion Mitigation IV 301B | Explosion Prevention & Mitigation 302A | |
| 13:45-14:10 | 120) Hybrid Mixture Explosion from Biomass: When 1 + 1 Does Not Necessarily Equal 2 Olivier Dufaud | 52) New Tools for Measuring and Modeling Particle Charging to Improve Gas, Liquid, and Dust Safety Holger Grosshans | |
| 14:10-14:35 | 132) Explosibility of polymeric-biomass dust mixtures in energy recovery process: combustion behavior analysis Maria Portarapillo | 140) Inhibition Effects of Ammonium Salt-Modified Dry Water on Hydrogen-Air Explosion Kangxue Zheng | |
| 14:35-15:00 | 180) Interpreting Measurements of Iron Dust Explosions in 20-L sphere: Insights from Mass and Heat Balance Analysis Aleksandra Semenova | 171) Industrial Safety and Explosion Risk Management of Isopropyl Nitrate Ayan Mousse Rayaleh | |
| 15:00-15:25 | 184) Electrostatic Discharges from Workwear Charged by Electrostatic Induction Kwangseok Choi | 179) Important Safety Gaps for Process Industries for Dust Explosion Risk! Ricky Chang | |
| 15:25-15:50 | Break with tea/coffee at 301B rear section | | |
| 15:50-16:40 | Dust & Hybrid Explosions II 301B | Risk Management II 302A | |
| 15:50-16:15 | 101) Effect of Carbon Dioxide Concentration on the Minimum Explosible Concentration of Aluminium Powder Ryosuke Inoue | 100) Sustainability of Emission Reduction During Storage and Elimination of Environmental and Workplace Hazards and Risks Klaus Kopia | |
| 16:15-16:40 | 111) Study on Flame Stability of Powder–Gas Hybrid Combustion Yuji Nakamura | 59) CESAR – A New Explosion Network for Safety Science Barbora Dvořáková | |
| 16:40-17:05 | 114) Effects of Hydrogen Concentration on Flame Speed of Iron-Hydrogen-Air Mixtures Akihiro Ueda | 71) A Calibrated Flashover Resilience Index for Constrained Enclosures Han Shun Hsu | |
| 17:05-17:30 | 115) Explosion Characteristics of TiFe–Mn Alloy Powder in Air and Sub-LEL Hydrogen Atmospheres: Implications for Hydrogen Storage Safety Patrick Funnemann | 160) Application of the Fire Defense-in-Depth Concept to Mitigate Fire Spread in Residential-Industrial Hybrid Buildings using Numerical Simulation Chung Hwei Su | |



| Time | Day 5 - April 24 2026 Fri. | |
|-------------|--|--|
| 09:10-10:25 | Dust & Explosion Mitigation V 301B | Work-in-Progress Poster Presentation 302A |
| 09:10-09:35 | 158) Investigation of an Organic Peroxide Dust Explosion Incident Hsiang-Ching Peng | TBD |
| 09:35-10:00 | 86) Explosion Detection Delay in Open Enclosures Andreas Brandl | |
| 10:00-10:25 | 84) Assessing the Explosion Risk Differences Between Aged and Fresh Metal Dusts: A Case Study on Magnesium and Aluminum Chia-You Gao | |
| 10:25-11:00 | Break with tea/coffee at 301B rear section | |
| 11:00-12:15 | Ignition & Extinction III 301B | Battery Safety III 302A |
| 11:00-11:25 | 176) Effect of Ambient Oxygen Concentration on Flame Extinction with Water Vapor Yoshitoshi Matsushima | 108) A CFD Study on Predicting Deflagration Venting System Performance in a Battery Energy Storage System (BESS) Prasanna Chinnathambi |
| 11:25-11:50 | 157) Risk of Silane Formation from Aminosilanes Hydrolysis Shao-En Tian | 109) Comparative Assessment of CFD Tools for Gas Dispersion Modeling in Lithium-Ion Battery Energy Storage Systems against Large-Scale Tests Prasanna Chinnathambi |
| 11:50-12:20 | Closing Best Paper Award 301B | |
| 12:20-15:00 | Farewell Party Lunch on Boat Tour to Kaohsiung Harbor Board from Yacht Harbor | |