DAPS2015 Programme at Glance

Time	Monday, 18th May 2015	Tuesday, 19th May 2015			Wednesday, 20th May 2015			Thursday, 21st May 2015		Friday, 22nd May 2015
0800hr		Registration			Registration			Registration		**Post Conference Workshop: Design and Analysis of Structures to Resist Disproportionate Collapse**
0830hr		Opening Ceremony								
0900hr		Keynote - Theodor Krauthammer SC: Zhiye ZHAO			Keynote - Phillip L. Gould SC: Theodor KRAUTHAMMER			Keynote -Magnus Langseth SC: Leonard HENG		
0940hr		Keynote - Kang Hai Tan SC: Zhiye ZHAO			Keynote - José L. Torero SC: Theodor KRAUTHAMMER			Keynote - Yulong Li SC: Leonard HENG		
1020hr		Teabreak and Poster Session @ Jupiter Ballroom								
1050hr		Material Behaviour under Blast Venus Ballroom III	Numerical Modelling and Simulation I Venus Ballroom I & II		Structural Behaviour and Damage II SC: Chi King LEE Venus Ballroom I & II	Blast, Shock and Impact Load III SC: Hongyuan ZHOU Venus Ballroom III		Structural Behaviour and Damage IV Venus Ballroom III	Numerical Modelling and Simulation V SC: Wancheng ZHU Venus Ballroom I & II	
1230hr		Lunch @ Mercury Ballroom								
1330hr		Protection Concepts and Design I SC: Youjung NING Venus Ballroom III	Blast, Shock and Impact Load I SC: Young-soo Yoon Venus Ballroom II	Numerical Modelling and Simulation II SC: Gin Boay CHAI Venus Ballroom I	Structural Behaviour and Damage III SC: Phillip L. GOULD Venus Ballroom I	Numerical Modelling and Simulation III Venus Ballroom II	Impact and Explosion Tests I SC: Magnus LANGSETH Venus Ballroom III	Structures under Fire Venus Ballroom III	Rock Dynamics SC: Jianchun LI Venus Ballroom I & II	
1510hr		Teabreak and Poster Session @ Jupiter Ballroom								
1530hr								Teabreak and Poster Session @ Jupiter Ballroom		
1540hr		Protection Concepts and Design II Venus Ballroom III	Blast, Shock and Impact Load II SC: Masuhiro BEPPU Venus Ballroom II	Structural Behaviour and Damage I SC: Xinzheng LU Venus Ballroom I	Protection Concepts and Design III SC: Jaap WEERHEIJM Venus Ballroom I	Numerical Modelling and Simulation IV	Impact and Explosion Tests II	Closing Ceremony & Best Paper Award Presentation		
1830	Pre-Conference Reception				Conference Banquet					

DAPS2015 Daily Programme

Time	Tuesday, 19th May 2015		
0800 - 0830	Registration @ Venus Ballroom Foyer		
0830 - 0900	Opening Ceremony @ Venue: Venus Ballroom I & II		
0900 - 0940	Keynote – Recent Observations on Design and Analysis of Protective Structures Theodor KRAUTHAMMER Session Chair: Zhiye ZHAO Venus Ballroom I & II		
0940 - 1020	Keynote – Numerical Studies on Reinforced Concrete Sub-Structures under Progressive Collapse Caused by Contact Detonation TAN Kang Hai Session Chair: Zhiye ZHAO Venus Ballroom I & II		
1020 - 1050	Teabreak & Poster Viewing @ Jupiter Ballroom		
	Material Behaviour under Blast Venus Ballroom III	**Numerical Modelling and Simulation I** Venus Ballroom I & II	
1050 - 1110	A Micromechanical Method to Predict Macroscopic Behaviour of Progressive Failure in Brittle Rock Xiaozhao LI	Numerical Study on Ballistic Impact of Perforated Armour Plates Qian SHI	
1110 - 1130	Reaction Force and Delamination Properties of Laminated Glass Windows subject to Blast Loads Paolo DEL LINZ	Design and Optimization of Laminated Transparent Armor by Finite Element Analysis Yukolthorn SRILOY	
1130 - 1150	Damping Characteristics of Sand-Rubber Chip Mixtures as a Seismic Barrier Zhuoyuan CHENG	Finite Element Analysis of Dynamic Crushing of Functionally Graded Foam-filled Square Columns Xuehui YU	
1150 - 1210	Strain Rate Effects of Compressive Properties of Hollow Glass Microspheres filled Polymers Xin ZHANG	Structural Optimization of K4-rating Removable Anti-ram Bollards Based on Orthogonal Design Method Suwen CHEN	
1210 - 1230	Design and Analysis of Protective Structures: A Fresh Look at Concrete Peter WEBER	Prediction of Penetration Depth of Projectiles into Concrete Based on Support Vector Machines Qiang PAN	
1230 - 1330	Lunch @ Mercury Ballroom		
	Protection Concepts and Design I Session Chair: Youjung NING Venus Ballroom III	**Blast, Shock and Impact Load I** Session Chair: Young-soo YOON Venus Ballroom II	**Numerical Modelling and Simulation II** Session Chair: Gin Boay CHAI Venus Ballroom I
1330 - 1350	Performance Based Framework for Resilient Design of Structures to Blast Loads Serdar ASTARLIOGLU	Numerical and Experimental Investigation on Hail Impact on Composite Panels Tao SUO	Finite Element Analysis of Long Cylindrical Tubes Subjected to Internal Explosions Guoxing LU
1350 -1410	Guidelines for Level of Protection of Facility Jong Yil PARK	Low-velocity Impact Response of Geometrically Asymmetric Sandwich Beams with Local Denting Effect Jianxun ZHANG	Blast Mitigation by Stiffened Composite Plates for Vehicles under Mine Blast M.D. GOEL
1410 - 1430	Risk Protec CI- Research Project for Aircraft Impact Funded by EU Alexander SIEFERT	An Analytical Model for Low-Velocity Impact Response of Metal Sandwich Beams with a Foam Core Chunping XIANG	Finite Element Analysis of FRP-strengthened Reinforced Concrete Panels under Blast Loading Xiaoshan LIN
1430 -1450	Quantitative Risk Analysis of Gas Explosions in Tunnels; Probability, Effects and Consequences Martijn VAN DER VOORT	Development of a New Class of Penetration Analysis Methods John CRAWFORD	Effect of Blast Load on Response of Concrete Rectangular Storage Tanks Bojan ZLENDER
1450 -1510	An Engineering Approach for Risk, Resilience and Vulnerability Assessment of Urban Areas Kai FISCHER	Environmentally Low Impact Tunnel Blasting in Urban Residential Area Keita IWANO	Fast Analysis of Safety Areas for EOD in Urban Environment Stefan GREULICH
1510 - 1540	Teabreak & Poster Viewing @ Jupiter Ballroom		
	Protection Concepts and Design II Venus Ballroom III	**Blast, Shock and Impact Load II** Session Chair: Masuhiro BEPPU Venus Ballroom II	**Structural Behaviour and Damage I** Session Chair: Xinzheng LU Venus Ballroom I
1540 - 1600	Analysis of Explosion Incidents in Mass-Transport Systems Gero MEYER	Local Damage of Fiber Reinforced Cementitious Composite Plates subjected to High Velocity Impact Masuhiro BEPPU	Joint Slippage Effects on the Impact Dynamic Response of Lattice Angle Steel Tower Subject to Break of Conductor Wenqiang JIANG
1600 - 1620	A Structured Approach to Forensic Study of Explosions: The TNO Inverse Explosion Analysis Tool Martijn VAN DER VOORT	Impact Resistance of Sand against Projectile Penetration Siau Chen CHIAN	Local Effects due to the Opening Sizes on the Negative Bending Regions of Steel-Concrete Composite Beam owing to Axial Compression Mahesan BAVAN
1620 - 1640	Buildings as Barricades Model Michael SWISDAK	Single Impact and Residual Strength Tests on Two-way Concrete Panels: Effects of Adding Steel Fiber and Changing Rebar Detail Ki Yeon KWON	An Efficient Analytical Failure Approach in the Global Analysis of a Buried Pipeline System Kwong Ming TSE
1640 - 1700	Reducing Land Usage for Blast Protected JTC Standardised 66/22kV Substations Peter J HOAD	Energy Absorption Performance of Ni-based Superalloy Honeycomb Structure under Different Ball Velocities Weiguo GUO	
1700 - 1720	A Novel Device for Blast Energy Dissipation Hongyuan ZHOU	Optimization of Material Systems with Magnetorheological Fluids Adam WISNIEWSKI	

DAPS2015 Daily Programme

Time	Wednesday, 20th May 2015		
0830 - 0900	Registration @ Venus Ballroom Foyer		
0900 - 0940	Keynote - Analysis and Design for Conventional Structures under Extreme Multi-hazard Loading Conditions Phillip L. GOULD Session Chair: Theodor KRAUTHAMMER Venus Ballroom I & II		
0940 - 1020	Keynote - Understanding the Boundary Condition when Designing Protective Structures: The Case of Fires and Explosions José L. TORERO Session Chair: Theodor KRAUTHAMMER Venus Ballroom I and II		
1020 - 1050	Teabreak & Poster Viewing @ Jupiter Ballroom		
	Structural Behaviour and Damage II Session Chair: Chi King LEE Venus Ballroom I & II	**Blast, Shock and Impact Load III** Venus Ballroom III	
1050 - 1110	Structural Behaviour of Precast Beam-Column Sub-Assemblages Column Removal Scenarios Kang Hai TAN	Numerical Predictions of the Negative Phase Piotr SIELICKI	
1110 - 1130	Progressive Collapse Performance of Three-Dimensional Concrete Frames Subjected to Corner Column Removal Jun YU	Blast Load Assessment for Safety in Urban and Enclosed Environments David STEVENS	
1130 - 1150	Feasibility of FRP Composite Material for Building Protection against Progressive Collapse Kai QIAN	Blast Effects inside a Partially Enclosed Carpark Choon Keat ANG	
1150 - 1210	Assessment of Progressive Collapse induced by Blast using Updated Single Column Removal Scenarios Anh Tuan PHAM	Coupled CFD/CSD Simulations of Dust Production by Fragmenting Charges Joseph BAUM	
1210 - 1230	Local Damage of RC Beams according to Variation of Shear Reinforcement after Blast Loading Jinyoung LEE	Approach to Combined Blast and Fragmentation Modelling Joel Ke Wei ONG	
1230 - 1330	Lunch @ Mercury Ballroom		
	Structural Behaviour and Damage III Session Chair: Phillip L. GOULD Venus Ballroom I	**Numerical Modelling and Simulation III** Venus Ballroom II	**Impact and Explosion Tests I** Session Chair: Magnus LANGSETH Venus Ballroom III
1330 - 1350	Experimental and Theoretical Analysis of the Progressive Collapse Resistance of One-way Reinforced Concrete Beam-Slab Substructures Xinzheng LU	Verification and Validation of Material Models for Design of Protective Structures David MORIN	Fibre Reinforcing Composite Piping Systems against Impact Dexin XIONG
1350 -1410	Extended Beam Element Formulation based on Static Condensation to Simulate Rotational Discontinuity Xu LONG	On the Effectiveness of Blast Mitigation with Soft Resistance Claddings Hongyuan ZHOU	Small Scale Vapour Cloud Explosion Tests Yadong LIN
1410 - 1430	Bond Characteristics of Concrete-to-SHCC Interfaces and Numerical Analysis of SHCC-strengthened RC Slabs under Blast Loading Rainnevo Chandra LADO	Blast Performance of High Strength Concrete Panels: Experimental, Numerical and Analytical Investigation Satadru DAS ADHIKARY	Explosive Trial to Investigate the Hazard Mitigation Effects of Earth Cover Kok Wei KANG
1430 -1450	Blast Performance of RC Slabs Subjected to Adjacent and Contact Blast Marek FOGLAR	The Behaviour of Steel and Composite Beam-Column Joints under a middle-Column Removal Scenario Bo YANG	Observations from Blast-Induced Liquefaction Tests in Singapore Sarma ANAND
1450 -1510	Effect of Torsion on 2D RC Frame under Middle Column Removal in Progressive Collapse Chi King LEE	Damage Assessment of Reinforced Concrete Frames under Progressive Collapse Jian WENG	Investigation of Dynamic Defrmation Behaviours in Structural Steels at Intermediate Strain Rates using Newly Constructed Impact Tensile Test Aparatus Hyung-Seop SHIN
1510 - 1540	Teabreak & Poster Viewing @ Jupiter Ballroom		
	Protection Concepts and Design III Session Chair: Jaap WEERHEIJM Venus Ballroom III	**Numerical Modelling and Simulation IV** Venus Ballroom II	**Impact and Explosion Tests II** Venus Ballroom I
1540 - 1600	Design, Analysis and Testing of Blast-Resistant Curtain Wall Shengrui LAN	Numerical Modelling of Projectile Explosive Charge Damage during Penetration Youjun NING	Experimental Study of Non-composite SCS Sandwich Panels under Impulsive Loading Yonghui WANG
1600 - 1620	The Use of Fiber Composites for Blast and Fragmentation Protection of Selected Civilian Infrastructure Moshe RAVID	Energy Based Load-Impulse Diagrams Ying-Kuan TSAI	Blast Tests on Sandwich Beams with Thin-walled Tube Cores Xinmei XIANG
1620 - 1640	Nested Tube System Applicable to Protective Structures against Blast Shock Ze Liang YU	Effect of Seismic Barrier on Response of Underground Structures Subjected to Ground Shock Jia Han CHEW	Experimental Investigation of Response of Steel Plates due to Close-in Blast Loading from Spherical Liquid Explosive Alex REMENNIKOV
1640 - 1700	Improving Robustness of Medium-Rise Composite Building using Multiple Belt-Truss Systems Chan Ghee KOH	Performance of Pile Groups Subjected to Surface Explosion Zhiye ZHAO	Lesson from Blast Test of Steel Plate in Elastic Domain Jong Yil PARK
1700 - 1720	Performance of an Explosive Water-mist Spray System for Dust Control in Explosive Demolition Hyon Soo KIM	Dynamic Response of Water Landing Capsule Body based on the Mesh-free Method Yonghu WANG	Photonic Doppler Velocimetry Instrumentation in Real Scale Concrete Slab Blast Loading Experiments with an Attempt to Measure the Influence of the Type of Concrete on the Debris Velocity Martin KUNZEL
1900	Conference Banquet		

DAPS2015 Daily Programme

Time	Thursday, 21st May 2015	
0830 - 0900	Registration @ Venus Ballroom Foyer	
0900 - 0940	Keynote - Structures Subjected to Extreme Loading Conditions. Do We Need New Knowledge? Magnus LANGSETH Session Chair: Leonard HENG Venus Ballroom I & II	
0940 - 1020	Keynote - Design of Aircraft Structures for Protection of Bird Strike Yulong LI Session Chair: Leonard HENG Venus Ballroom I & II	
1020 - 1050	Teabreak & Poster Viewing @ Jupiter Ballroom	
	Structural Behaviour and Damage IV Venus Ballroom III	**Numerical Modelling and Simulation V** Session Chair: Wancheng ZHU Venus Ballroom I & II
1050 - 1110	Dynamic Behaviour of UHPC Mixed with Nano Material Jun LI	Modelling Dynamic Tensile Failure of Quasi-brittle Materials using Stress-enhanced Nonlocal Models L.F. PEREIRA
1110 - 1130	Experimental Frequency Domain Assessment of Direct Shear in NSC and UHPC Theodor KRAUTHAMMER	Development of Modular Passive Attenuation Systems Hui Wei YEO
1130 - 1150	Response to RC Slabs subjected to Combined Blast and Fragment Loading Rickard FORSEN	Assessment of Fast-Running Algorithms for Tunnel Blast Predictions Teng Sheng PEH
1150 - 1210	End Restraint Effect on the Dynamic Response and Failure Behaviour of Steel Beams Subjected to Pulse Loading Feng XI	Numerical Modelling of Chemical Dispersion via Elevated Air Intake Wee Teik KHOO
1210 - 1230	An Assessment Protocol for Reinforced Concrete Columns Subject to Internal Building Detonations Gayan Lakshitha Wijesundara MUDALIGE	A Cellular Automaton Method for 2-dimansional Solid Mechanics Weifeng YUAN
1230 - 1330	Lunch @ Mercury Ballroom	
	Structures under Fire Venus Ballroom III	**Rock Dynamics** Session Chair: Jianchun LI Venus Ballroom I & II
1330 - 1350	Application of Cellular Automaton in Fire Engineering Weifeng YUAN	Dynamic Properties of Water Saturated Sandstone Zilong ZHOU
1350 -1410	Using Performance-based Fire Engineering Design in a Protected Facility Yong Kiang TAN	Numerical Study of Dynamic Fluid Flow in Rock Fracture Network using the Lattice Boltzmann Method Peijie YIN
1410 - 1430	Analytical Evaluation of Bi-Directionally Prestressed Concrete Panel Behaviour under Blast-Fire Combined Loading using Parametric Study Seung Jai CHOI	Dynamic Ring Test of Rock under Diametral Impact Load by SHPB Diyuan LI
1430 -1450	Effect of Braces on the Progressive Collapse Mechanism of Steel Structures Exposed to Fire Jian JIANG	Numerical Simulation on Failure Process of Unloaded Rock Triggered by Dynamic Disturbance Wancheng ZHU
1450 -1510	Design of Wireless System for the Detection of Accidental and Terrorist Explosions and Fires in Manufacturing Sites Shalva MARJANISHVILI	Blast Wave Propagation across Jointed Rock Masses and its Influence on the Ground Motion Jianchun LI
1510 - 1530	Tall Buildings in Post Earth Quake Fire Tadepalli MADHAVI	
1530 - 1600	Teabreak & Poster Viewing @ Jupiter Ballroom	
1600 - 1630	Closing Ceremony & Best Paper Award Presentation Venue: Venus Ballroom I & II	