

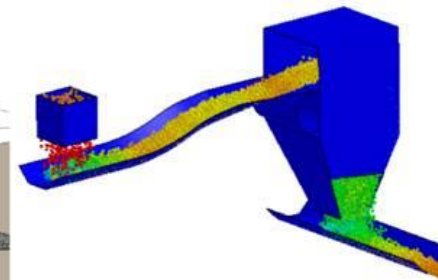
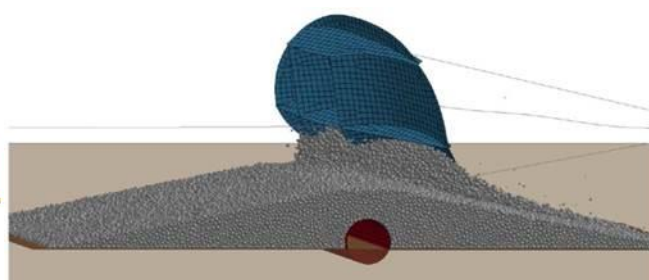
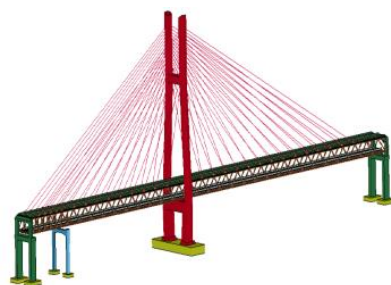
Singapore LS-DYNA® Forum 2016

Date: **31st March 2016 (Thu)**

Time: **8:30am – 4:30pm**

Venue: **CEE Seminar Room A (N1-B1b-06)
Nanyang Technological University
50 Nanyang Avenue, S 639798**

<u>Time</u>	<u>Agenda</u>
08:30	Registration
09:00	Opening Speech Prof. Kang Hai TAN (PTRC-NTU)
09:05	Protective Engineering Prof. Kang Hai TAN (PTRC-NTU)
09:35	Simulation of Structures Subjected to Internal Blast Loads Dr. Kok Wei KANG (DSTA)
10:05	Tea Break
10:30	Structured ALE for Blast Simulation of Ship and Building Dr. Hao CHEN (LSTC)
11:00	Virtual Simulation in Civil Engineering Mr. Jenson CHEN (DFETECH)
11:30	Application of Inventium™ FSI for Blast Simulation Mr. Jenson CHEN (DFETECH)
12:00	Lunch
13:00	Structured ALE Workshop Dr. Hao CHEN (LSTC)
16:30	Closing



Organisers:



Protective Technology Research Centre



Sponsors:



* Registration required. Registration is based on first come first served basis.

Prof. TAN, Kang Hai (NTU-PTRC)

Professor Tan Kang Hai obtained his BSc(Eng) and PhD from the University of Manchester, UK. Currently, Dr. Tan is a Professor of Structural Engineering and Associate Chair (Research) in the School of Civil and Environmental Engineering, Nanyang Technological University. He is also concurrently the Director of Protective Technology Research Centre in NTU.

Prior to joining NTU, he worked as a graduate engineer in Ove Arup & Partners, UK. He is a registered Professional Engineer in Singapore. He has been involved in many fire engineering consultancy works including analysis and design of steel structures in clean room facilities, storage racks, A&A works on structural fire resistance aspect at Changi Terminal 1, etc. He also served as Chairman of a few task force groups on Structural Eurocodes relating to structural fire applications. He has written over 120 SCI international journal papers and another 160 international conference articles on structures.

Dr. KANG, Kok Wei (DSTA)

Dr. Kang Kok Wei graduated with a doctorate degree in Civil Engineering from the National University of Singapore. He currently holds the post of Manager at the Defence Science and Technology Agency. Dr. Kang conducts and manages research and technology projects with both local and overseas research institutes to develop advanced protection infrastructure systems. He is involved in the capability build-up of numerical modelling and simulations in DSTA and has participated in the conduct and analysis of both local and overseas explosive trials. He participates in the Klotz Group, an international technical working committee of explosive safety experts, and contributed to the successful development of a hazard prediction methodology for the explosives storage in ISO steel containers.

Dr. CHEN, Hao (LSTC)

Dr. Hao Chen graduated with doctorate degree in Computation Mechanics from Northwestern University. Dr. Chen joined Livermore Software Technology Corporation (LSTC) in 2003 as key developer for ALE and FSI in LS-DYNA®. Starting early 2015, Dr. Chen concentrated on the development of a new Structured ALE algorithm which has significant enhancement on speedups, especially on simulations using MPP LS-DYNA® for modeling of fluid structure interactions. The accuracy and stability of new solver are enhanced. It also requires much less memory. Dr. Chen is a Senior Scientist in LSTC.

CHEN, Jenson (DFETECH/ETA-SEA)

Mr. Jenson Chen attended Michigan Technological University. He graduated with Bachelor of Science and Master's of Science in Mechanical Engineering in 1997 and 2000, respectively. Upon graduation, Mr. Chen joined National Steel Corporation as an Application Engineer to focus on application of advanced high strength steels and development of new CAE methodology for sheet metal stamping and crashworthiness. In 2003, Mr. Chen joined Engineering Technology Associates, Inc. as Senior Project Engineer to support development of DYNAFORM®. Mr. Chen has over 15 years of experiences in sheet metal forming and vehicle crashworthiness and safety analysis using LS-DYNA®. Mr. Chen is currently a Director of Engineering and Business Development of ETA based in South East Asia.

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