



LHD International Lecture



Lecturer: Professor Randy S. M. Chue

Title I : High Enthalpy Reflected-Shock and Expansion Tunnels - Design and Operational Considerations

Venue: Room 312, Building 1, Institute of Mechanics, CAS

Time: 9:30am, July 2, 2018

Title II : Hypervelocity Simulation Parameters and Achieving Test Requirements in a Dual-Mode Facility

Venue: Room 312, Building 1, Institute of Mechanics

Time: 9:30am, July 5, 2018

Biography:

Randy Shek-Ming Chue, an aerospace scientist, Member American Institute of Aeronautics and Astronautics, Sigma Xi. He holds a B.E. degree in Mechanical Engineering from the University of Saskatchewan, Canada, an S.M. in Aeronautics & Astronautics from MIT, and a Ph.D. from McGill University, Canada. His research

interests lie in the areas of fluid mechanics and gas dynamics that include hypersonic propulsion, flow around re-entry vehicles, high enthalpy test facilities, detonations and explosions. His involvement in hypersonics was at NAL in Japan from 1994 to 1996, and later at DLR in Göttingen from 1996 to 1997. In 1989, he joined ATK-GASL in New York and served as Chief Engineer for Computational Fluids. He was responsible for developing the computational and theoretical capabilities of advanced aeropropulsion devices such as the scramjet and RBCC engines. He also worked extensively in the analysis and optimization of various wind-tunnels located at GASL for testing scramjets and re-entry vehicles, such as the NASA HyPulse and blowdown facilities. In 2009, he became an Associate Professor at Nanyang Technological University in Singapore.

