



<p><b>10:00 – 10:40</b> [40 mins]</p>	<p>Chair: Professor Y.K Lee, President of HKSTAM  <b>Distinguished Lecture II</b>  <b>Professor Jinhao QIU (裘進浩)</b>  State Key Laboratory of Mechanics and Control of Mechanical Structures,  Nanjing University of Aeronautics and Astronautics  <b>“Lamb Waves Based Detection of Fatigue Damage Accumulation in Composites”</b></p>
<p><b>10:40 – 11:10</b> [30 mins]</p>	<p>Photo Taking  Coffee Break (IAS Lobby, HKUST)</p>
<p><b>11:10 – 11:50</b> [40 mins]</p>	<p>Chair: Professor Li CHENG, Vice President of HKSTAM  <b>Distinguished Lecture III</b>  <b>Professor Wen J. LI (李文榮)</b>  Chair Professor, Department of Mechanical and Biomedical Engineering,  City University of Hong Kong  <b>“Rapid Determination of Single Cancer Cell Mass and State by Opto-electrokinetics”</b></p>
<p><b>11:50 – 12:30</b> [40 mins]</p>	<p>Chair: Professor Cheong-Ki CHAN, Hong Kong Polytechnic University  <b>Distinguished Lecture IV</b>  <b>Professor Junhua ZHAO (趙軍華)</b>  Professor, Jiangsu Key Laboratory of Advanced Food Manufacturing Equipment and Technology  Jiangnan University  <b>“The Interface Strength and Debonding for Composite Structures: Review and Recent Developments”</b></p>
<p><b>12:30 – 14:00</b> [1 hour 30 min]</p>	<p>Lunch at IAS Lobby, HKUST  Speakers of the following sessions please load their presentation files onto the computers in this break.</p>

**March 28, Saturday, Afternoon (IAS Building, HKUST)**

<b>14:00 – 15:30</b> <b>[1 hr 30 mins]</b>	<b>Session A1</b> <b>[Lecture Theatre, G/F]</b> <b>Chair: Prof Junhua ZHAO</b>	<b>Session B1</b> <b>[IAS, Seminar Room 1, 1/F]</b> <b>Chair: Prof Haimin YAO</b>	<b>Session C1</b> <b>[IAS, Seminar Room 2, 2/F]</b> <b>Chair: Prof ZQ Yue</b>	<b>Session D1</b> <b>[IAS, Seminar Room 3, 4/F]</b> <b>Chair: Prof Juncai XU</b>
14:00 – 14:15 [15 mins]	LU Yang in situ Nano-Fatigue Characterizations of 1-D Nanostructures	ZHAO Cong The Study of Cancer-cell Capturing in Microfiltration Chips under Different Capillary Numbers	YUE Zhong-qi Quentin Expansion and Migration of Dense Gas as Cause of Wenchuan Earthquake	XU Juncai A New Implementation of Geometric Semantic Genetic Programing for Dam Safety Factor
14:15 – 14:30 [15 mins]	BIAN Jianjun Atomistic deformation mechanisms in copper nanospheres	SHAGOSHTASBI Hooman Resistivity Profile of Single Pore during Electroporation	HUANG Duruo Stochastic simulation of spatially distributed earthquake ground motions	MA Fang Jie Crack width analysis of reinforced concrete beams by modified discrete crack model
14:30 – 14:45 [15 mins]	CHEN Bing Indentation Size Effect of Ceramic Particle Reinforced Polymeric Nanocomposites	ZHAN Yuexing Poro-Visco-Hyperelastic Modelling of Hydrogel Composites	HU Jun Modal identification and model updating of a factory building with ambient vibration test data utilizing a Bayesian approach	HE Chong Experimental Verification of Fracture-mode Map for Brittle Coatings
14:45 – 15:00 [15 mins]	LI Weiqun Thickness-dependent fracture of amorphous carbon coating on SnO2 nanowire electrodes	HUI Tsz Hin A novel technique of probing coupled cell adhesion and mechanical deformation by optical tweezers	HU Qin Bayesian methodology in railway ballast damage detection based on a continuous modelling method	DENG Yani An Accelerated Grid-based BEM for Geometrically Nonlinear Problems
15:00 – 15:15 [15 mins]	ZHANG Hongti Room-Temperature Super Elasticity of Single Crystalline Silicon Nanowires	ZHU Qian Shape deformation of the nuclear envelope during cell division	GUO Ning Multiscale modelling of failure in saturated sand	ALABI Stephen Adeyemi The Improvement of Finite Element Model of a Rail-Sleeper -Ballast System using Measured Time-Domain Field Test Data
15:15 – 15:30 [15 mins]	WANG Binjun Unzipping of Twin Lamella in Nanotwinned Nickel Nanowires	WEI Xi Mechanical Behaviour of Filamentous Networks Governed by the Physical Properties of the Cross-linking Molecules	PAN Wei Biham–Middleton–Levine model in consideration of cooperative willingness	YANG Jiahua Bayesian Model Updating Using a Markov Chain Monte Carlo Algorithm
<b>15:30 – 15:45</b> <b>[15 mins]</b>	<b>Coffee Break (IAS Lobby, HKUST)</b>  Speakers of the following sessions please load their presentation files onto the computers in this break.			

<b>15:45 – 17:15</b> <b>[1 hr 30 min]</b>	<b>Session A2</b> <b>[IAS Lecture Theatre, G/F]</b> <b>Chair: Prof H.F. LAM</b>	<b>Session B2</b> <b>[IAS Seminar Room 1, 1/F]</b> <b>Chair: Prof Xinrui NIU</b>	<b>Session C2</b> <b>[IAS Seminar Room 2, 2/F]</b> <b>Chair: Prof Wan-Huan ZHOU</b>	<b>Session D2</b> <b>[IAS Seminar Room 3, 4/F]</b> <b>Chair: Prof Yang LU</b>
15:45 – 16:00 [15 mins]	CICORIA David Numerical Comparison of Two Solvers on The Effect of Hydrogen Addition on Laminar Premixed Counter-flow CH <sub>4</sub> -air Flames	CHEN Ning 中医经络与振动模态	SOOMRO Imran Ali Pre-cracked response of the rocks under uniaxial compression by using X-ray tomography	JIA Peng Improved Analysis for Gas-Filled Encapsulated Thermal-Acoustic Transducer
16:00 – 16:15 [15 mins]	FOOLADGAR Ehsan Large Eddy Simulation of a Swirl-stabilized Pilot Combustor from Conventional to Flameless Mode	WONG Jasmin Effect of Endothelial Cell Morphology on Hemodynamic Forces in Blood Transport	CHENG Zhuang An investigation on micro-mechanism of creep in sands using x ray tomography	XU Wei Thermoresistive Micro Calorimetric Flow Sensor Array by using CMOS MEMS Technology
16:15 – 16:30 [15 mins]	PENG Hua Yi Numerical study of wake flow characteristics of a five-straight-bladed vertical axis wind turbine based on computational fluid dynamics	FU Jimin c-axis Preferential Orientation of Hydroxyapatite Accounts for the High Wear Resistance of the Black Carp (mylopharyngodon Piceus) Teeth	WEI Jiangtao Micromechanical indicators for post-liquefaction behaviors of granular soil	ZHANG Weiguan Sensitivity Study of the MEMS Microphone with a Compositated Layer Diaphragm
16:30 – 16:45 [15 mins]	LI Qi A Monte Carlo based method simulating both particle and wave behaviours of phonon transport	LI Chu Numerical demonstration of negative thermophoresis of nanoparticles in the free molecular regime	ZHOU Wan-Huan Shear Strength and Unconfined Compression Strength of Unsaturated Completely Decomposed Granite Soil	SHI Xiaomei Design of Micromachined Condenser Microphones with Concave Backplates
16:45 – 17:00 [15 mins]	ZHANG Yujie A robust simulation method for curvature driven flows	XIAO Lanlan Numerical simulation of a single cell flowing through a narrow slit	Li Xingyue A Coupled CFD-DEM Simulation of Dam-Break	CHONG Po Fat A Capacitive Micromachined Ultrasonic Transducer (CMUT) Array with Single Layer Graphene Membrane
17:00 – 17:15 [15 mins]	MO Jingwen On the Validity of the Young-Laplace Equation for the Fluid Infiltration in Hydrophobic Nanochannels		WU Huanran Multiscale Modelling of Compaction Band in Porous Sandstone	ZHANG Meng A Micro-electro-mechanical Switch for Power Applications
17:15 – 18:00 [45 mins]	<b>HKSTAM Annual General Meeting [IAS Lecture Theatre, HKUST]</b> Attendees: Representatives of all Institution Members and all Full HKSTAM Members			
18:00 – 20:00	Conference banquet at G-Restaurant, HKUST (香港科技大学南北小厨)			