Programme Line-up

Sunday, 12th December 2010	
TIME	**PROGRAM**
18:00	Welcome Reception
	Registration
	Cocktail food
	Drinks
20:00	CLOSE

DAY / **TIME**	**Monday, 13th December 2010**			
08:00	Registration Desk – Tea/Coffee			
08:50	Opening Ceremony			
09:00 to 09:45	Plenary Keynote Address by Prof. Nick Fazzalari **HUMAN BONE – A SELF HEALING COMPOSITE MATERIAL STRUCTURE** River View Room 5			
09:45 to 10:20	Morning Tea Break			
SESSION	ONE			
ROOM NO	5	6	7	8
TOPIC	**BioMedical Engineering** **Session Chair: Prof Tony Lucey**	**Machine Dynamics** **Session Chair: Prof Bob Randall**	**Composites** **Session Chair: Prof Martin Veidt**	**Reliability** **Session Chair: Dr Timothy Coates**
10:20 to 10:40	Nabil A. Ilahee [1103] Structural assessment of the human pelvis using finite element modelling	Lifu Wang [1019] Modelling, parameter estimation and testing of a vehicle with anti-roll systems	Hitoshi Takagi [1235] Strength evaluation of unidirectional abaca fibre reinforced biocomposites	Vladis Kosse [1093] Revealing Design Flaws at Different Stages of Product Development Using Anticipatory Failure Determination (AFDTM) Technique
10:40 to 11:00	Elijah E.W. Van Houten [1146] Quantifying Tissue Attenuation and Damping Structure with Magnetic Resonance Elastography	Arcady V. Dyskin [1170] Coupled bilinear oscillators, their resonances and controlling parameters	In Lee [1182] Aeroelastic Analysis of Composite Wind Turbine Blades	Simon Kellett [1203] pHUMS - Prognostic Health and Usage Monitoring of Military Land Systems
11:00 to 11:20	Chih Ling, Lin [1222] Effects of Bone Tissue Microstructure and Aging on the Micro-Mechanical Properties of Human Femoral Heads	Daniel Ausling [1092] Non-constant Radius Curve Profiles in Controlling Lateral Belt Drift Through Horizontal Curves in Belt Conveyor Systems	Hiroyuki Hamada [1178] Long term behaviour of SMC from recycled jute woven cloth	Hack-Eun Kim [1210] New machine prognostics approach based on health state probability estimation

11:20 to 11:40	Thanapong Chaichana [1250] An investigation of hemodynamic function in realistic coronary arteries: preliminary study representing the actual psychodynamic	Paul D. Walker [1110] Dynamics and simulations of shifting in a dual clutch transmission	Chensong Dong [1161] Experimental investigation on the formation of resin-rich zones in composites processing	Jens Lodders [1213] Improve your Shutdown Success – an Introduction to online Condition Monitoring
11:40 to 12:00	John Codrington [1107] Influence of pre-fatigue microdamage on the fracture of human cortical bone	Lav Deshpande [1142] Improved gearbox simulations for diagnostic and prognostics purposes using finite element model reduction techniques	Warna Karunasena [1064] The effect of debonding on the natural frequencies of laminated fibre composite sandwich plates	Samuel Telford [1215] Modern maintenance practices: approaches and visions towards condition-based asset health management
12:00 to 13:00	**Lunch**			
13:00 to 13:45	Plenary Keynote Address by Prof Chan Ghee Koh **A NEW METHOD FOR DYNAMIC PROBLEMS INVOLVING RELATIVE MOTION** River View Room 5			
SESSION	TWO			
ROOM NO	5	6	7	8
TOPIC	**Computational Mechanics** **Session Chair: Dr Raj Das**	**Fracture & Fatigue** **Session Chair: Dr Francis Rose**	**Composites** **Session Chair: Dr John Hart-Smith**	**Dynamics & Vibration** **Session Chair: Dr Kazem Abhary**
13:45 to 14:05	W.Y. D. Yuen [1172] Development of a model for strip submergence in pickling tanks	Anthony J. Kinloch [1001] The dynamic fracture of structural adhesives	Hakim S. Sultan Aljibori [1264] Experimental and Numerical Investigations of Composite Tubes under Axial and Lateral Loading	Vincent Rouillard [1017] A Practical Method for Estimating Ground Vehicle Frequency Response Function from Response Data
14:05 to 14:25	Y. T. Gu [1225] An Advanced Implicit Meshless Approach for Fractional Partial Differential Equation in Computational Mechanics	R. Jones [1068] On the growth of short cracks in a head hardened rail steel	Kiyoshi Itatani [1173] Influence of acid treatment on the characteristics of Si-Al-C® fibre with carbon interface	Helen Wu [1006] Vibration investigation of passive control using rubber bearing
TOPIC			**Structural Health Monitoring**	
14:25 to 14:45	R.J. (Buzz) Sanderson [1077] Non-Linear Explicit Finite Element Analysis of Multi-particle Polymer Composite Materials	Masaaki Watanabe [1007] Fracture Criterion associated with the Angled Crack Problem I. Extended Irwin's Energy Release Rate	W.K. Chiu [1058] Structural Health Monitoring of Sub-Surface Vertical Cracks from Fuel Weep Holes	Jens Lodders [1214] Monitoring the Sound and Vibration of Windturbines
14:45 to 15:05	N. Mai-Duy [1082] A stable and accurate control-volume technique based on integrated RBF networks for fluid-flow problems	A. Kotousov [1055] Some New Developments in 3D Fracture Mechanics	W.G. Favier [1060] Finite Element Analysis of Strain Transfer from a Mechanically Loaded Substrate to a Surface Mounted Piezoceramic Structural Health Monitoring Transducer.	Rejwan Ali [1074] Advanced Wireless Architectures for Synchronizing Dynamic Measurements with GPS Technology
15:05 to 15:30	Afternoon Tea Break			
SESSION	THREE			
ROOM NO	5	6	7	8
TOPIC	**Geomechanics** **Session Chair: Dr Chunsheng Lu**	**Fracture & Fatigue** **Session Chair: Prof Tony Kinloch**	**Structural Health Monitoring** **Session Chair: Prof C.G Koh**	**Fluid Structural Interaction** **Session Chair: Dr Andrew King**
15:30 to 15:50	L. Wang [1043] Experimental Study of Precambered Steel Plate Strengthened Reinforced Concrete Columns	Michael T. Heitzmann [1190] Numerical analysis of the shaft loaded blister test: influence of nonlinearities on analytic solution	Gayan C. Kahandawa [1048] An investigation of spectral response of embedded Fibre Bragg Grating (FBG) sensors in a hollow composite cylindrical beam under pure torsion and combined loading	Mark Pitman [1040] Spatio-temporal eigenmodes of plane-Poiseuille flow interacting with a finite compliant panel

15:50 to 16:10	Muhammad Zahid [1096] Mechanics of active earth pressure under surcharge and seismic loading condition	R.J. Callinan [1156] Investigation of Stress Intensity Factor for Overloaded Holes and Cold Expanded Holes	Ying Wang [1113] Integrated Health Monitoring for Reinforced Concrete Beams: An Experimental Study	Nima Nadim [1209] Secondary flow characteristics and prediction of Dean vortices in fluid flow through a curved duct
16:10 to 16:30	B. Hamidi [1150] Application of Dynamic Compaction in Port of Ras Laffan Expansion Project	Weiping Hu [1269] The effect of specimen thickness on fatigue crack growth rate and threshold behaviour in aluminium alloy 7075-T7351	Bhavin Desai [1044] Civionics: The modern approach to structural test and monitoring	Anthony D. Lucey [1033] Fluid-structure interactions in the human upper airway - large-displacement biomechanics
16:30 to 16:50	Boris G. Tarasov [1168] Depth distribution of earthquake activity as a reflection of rock brittleness variation	Xiaobo Yu [1270] Investigations on critical load cases for robust and efficient shape optimisations	Wern H. Ong [1067] Damage Quantification in Plates Using Lamb Waves	Mohd A. A. Rahman [1157] Free surface effects on vortex induced vibrations of cylindrical offshore structures
16:50 to 17:10	Tong Xi Yu [1253] Elastic Deformation and Equivalent Stiffness of a Ring on Elastic Foundation	Matthew Lamb [1080] A practical study of Fourier Analysis for monitoring fatigue progression in elements subjected to random loads	L. R. Francis Rose [1261] A comparison of algorithms for in-situ imaging of structural damage	A.D. Lucey [1127] The effect of inertial inhomogeneity on the flutter of a cantilevered flexible plate
17:10	CLOSE			

DAY / TIME	Tuesday, 14th December 2010				
08:00	Registration Desk – Tea/Coffee				
08:50	Opening Ceremony				
09:00 to 09:45	Plenary Keynote Address by Prof Peter Cawley **FROM NDT TO SHM - POTENTIAL AND CHALLENGES** River View Room 5				
09:45 to 10:20	Morning Tea Break				
SESSIONS	FOUR				
ROOM NO	5	6	7	8	9
TOPICS.	**AINDT** **Session Chair: Prof Peter Cawley**	**Non-Destructive Evaluation** **Session Chair: Prof Wing Kong Chui**	**Dynamics & Vibration** **Session Chair: Prof Dianne Hesterman**	**Manufacturing** **Session Chair: Prof Liangchi Zhang**	**Structural Mechanics** **Session Chair: Dr Sook-Ying Ho**
10:20 to 10:40	Tony McPherson Lean Manufacturing in the Construction Industry GE	Stuart J. Wildy [1118] New damage detection technique based on governing differential equations of continuum mechanics. Part I: out-of-plane loading	Sook-Ying Ho [1038] Aerothermal-Structural Analysis of High-Speed Flight Vehicles	P. Mathew [1133] Comparison of tool-chip interface stress distributions in predicting cutting forces and tool chip contact lengths in orthogonal machining using the Oxley Machining Model	Elena Pasternak [1266] Negative Poisson's ratio materials' design principles and possible applications
10:40 to 11:00	Damian Tanner RTD ROTOSCAN - Automated Ultrasonic testing of Pipeline Girth Welds, its Present Status and Future Developments ApplusRTD	M. Veidt [1143] Scattering analysis of fundamental anti-symmetric Lamb wave at delaminations in composite laminates	N. Zhang [1051] Attenuation of primary resonance vibrations of a nonlinear system using a nonlinear vibration absorber	R. J. Wescott [1159] Algorithms for Improved Numerically Controlled Manufacture of Stress Optimal Free Form Shapes	Chunguang Wang [1013] Numerical Analysis of Deep Sea Steel Risers under Combined Loads
11:00 to 11:20	Mark Vellacott Comparative Vacuum Monitoring (CVM): a New Way to Monitor Cracks in Bridges Structural Monitoring Systems	Stuart J. Wildy [1119] New damage detection technique based on governing differential equations of continuum mechanics. Part II: in-plane loading	Ming Jin [1084] A Study of Vibration Properties of Parallel Beams Coupled by Insulation Elements	Raj Das [1163] On the use of SPH for three-dimensional simulation of heat transfer and residual stress generation in arc welding processes	Mikail F. Lumentut [1151] The Experimental Validation of an Electromechanical Dynamic Model of a Piezoelectric Bimorph Beam for Prediction of Power Generation
11:20 to 11:40	Mike Trinidad Effective Aboveground Storage Tank Floor Inspections TWI (Singapore)	Ramadas C [1152] Numerical studies on guided Lamb wave reflection and transmission in semi-infinite composite sub-beams	Jonny Latuny [1088] Bearing Fault Analyses through Application of ANFIS and Vector Array Indicators Based on Statistical Parameters of Wavelet Transformation Components	M. N. Islam [1257] An investigation of additional factors affecting dimensional accuracy and surface finish of turned parts	R.J.(Buzz) Sanderson [1078] The Design and Analysis of Guyed Wind Monitoring Towers using Explicit Non-linear Finite Element Analysis in response to Wind and Construction Loads
11:40 to 12:00	Peter Clarke Laser scanning for grinding mill condition monitoring Scanalyse	Ben S. Cazzolato [1120] New method for accurate strain measurements utilising a 3D scanning laser Doppler vibrometer	Gareth L. Forbes [1102] Fluid-structure interaction study of gas turbine blade vibrations	S. Kalyanasundaram [1125] Stretch Forming Studies on Thermoplastic Composite.	Atalla A. Mohammed [1265] On the dynamic characteristics of box-girder bridges under moving vehicles
12:00 to 13:00	**Lunch**				

13:00 to 13:45	Plenary Keynote Address by Dr John Hart-Smith **LESSONS LEARNED BY ONE AEROSPACE STRUCTURES ENGINEER IN A 40-YEAR CAREER** River View Room 5				
SESSION	FIVE				
ROOM NO	5	6	7	8	9
TOPIC	**AINDT** **Session Chair:**	**Particle Mechanics** **Session Chair: Prof Vladis Kosse**	**Fracture & Fatigue** **Session Chair: Prof Andrei Kotousov**	**Composites** **Session Chair: Dr Ian Davies**	**BioMedical Engineering** **Session Chair: Prof Nick Fazzalari**
13:45 to 14:05	Roland Fricke Development and successful deployment of custom built remote operated NDT inspection tools for subsea pipelines Woodside	Lars E. Spelter [1002] Semicontinuous nanoparticle screening and applied Laser-Doppler-Anemometry in tubular bowl centrifuges	Susan Pitt [1069] Application of supersonic particle deposition for restoring the structural integrity of damaged aircraft structures	Hatem Alamri [1232] Mechanical and fracture properties of nano-filler-cellulose fibre-reinforced epoxy nanocomposites	Ling Yin [1175] Mechanical responses of hydrated and dehydrated cortical bones to microindentation
14:05 to 14:25	Lou Carro Inspection of Piping Systems BP	Andrew J. C. King [1024] Discrete particle tracking in fluid flows for particulate filter simulations	Ung Hing Tiong [1016] Impact of Aircraft Corrosion Protection Systems on Joint Durability	Tomoko Ota [1197] A study on the mechanical property of injection molded cellulose/glass hybrid composites	Yongmin Zhong [1164] Hopfield neural network for modelling of soft tissue deformation
14:25 to 14:45	Alison Glover Recent Case Studies in Semi-Automated UT Olympus	Yury A. Stepanyants [1144] Nanoparticle dynamics in a viscous fluid at small Reynolds numbers	Ninh T. Nguyen [1029] Remaining life of a high pressure rotor subjected to thermal fatigue operating conditions	Ian Brown [1140] Application of Composite Theory to the Development of a Tough Wear Resistant High Chromium White Iron	Wenyi Yan [1162] Material Property Influences on the Modelling of Child Brain Injuries
14:45 to 15:05	Zach McCann Developments in subsea ultrasonic inspection. Innospection	Abul Hasan Md. Mamunur Rashid [1052] Attrition Assessment of Alumina using Single Impact with Variable Air Stream Velocity	Matthew Lamb [1081] A multi-resolution time domain technique for monitoring fatigue progression in elements subjected to random loads	Chamila S Sirimanna [1008] Effects of temperature on a pultruded FRP composite	Helen Kershaw [1085] Combining a genetic algorithm with fitness function analysis to improve the elastodynamic inverse problem
15:05 to 15:30	Afternoon Tea Break				
SESSION	SIX				
ROOM NO	5	6	7	8	9
TOPIC	**AINDT** **Session Chair:**	**Computational Mechanics** **Session Chair: Dr Daniel Yeun**	**Fracture & Fatigue** **Session Chair: Dr Xiaobo Yu**	**Composites** **Session Chair: Prof Hitoshi Takagi**	**Micro & Nanomechanics** **Session Chair: Dr Chensong Dong**
15:30 to 15:50	Zach McCann SLOFEC - fast corrosion screening technique Innospection	Matthias Nenning [1009] Infinite elements in saturated porous media	Dong Hoon Chang [1124] A compact solution for the interface corner stress intensity factor of a cylindrical butt joint	Chun Hui Wang [1267] Computational analysis of the Influence Material Orthotropy on the Residual Strength of Laminated Composites	Chunsheng Lu [1160] Revisit to the estimation of percolation thresholds in electrical conducting nanocomposites
15:50 to 16:10	David Lake Understanding acoustic emission and its application to industry ATTAR	Min-Gyu Im [1026] A New Topology Optimization Scheme Based on BESO for Electro-Thermal-Compliant Mechanisms	N. Nik Abdullah [1255] Determination of the micro-support constant ρ^* of Neuber's rule using elastic-plastic fracture mechanics	Manudha T. Herath [1211] Modelling of delamination damage in composite beams	A. Alhuthali [1194] Mechanical and fracture properties of recycled cellulose fibre reinforced vinyl-ester nanocomposites
TOPIC			**Plasticity**		
16:10 to 16:30	John Norman Computer based ultrasonics: an adaptable solution NTS Ultrasonics Pty Ltd	James W. Jewkes [1123] LES of a Low Velocity-Ratio Jet in a Flat-Plate Boundary Layer.	Chris Wallbrink [1087] A new method for evaluating the cyclic elastic-plastic stress distribution near an open hole under variable amplitude loading	Sudharshan Venkatesan [1126] Effect of Preheat Temperature on Formability of Consolidated all-PP Composite materials during Stamp Forming	Yuan Tong Gu [1224] Atomistic numerical investigation of single-crystal copper nanowire with surface defects

16:30 to 16:50	Chris Smith Title: To Be Advised Applus RT	Syed H. Masood [1183] An investigation on the Operational improvement in Robotic Palletisation	Maziar Ramezani [1259] Bulge test of sheet metals using rubber as pressure carrying medium	Komsun Siripun [1049] Tensile Strength Improvement Using Fibre Cement Material	Kausala Mylvaganam [1122] Effect of nano-scratching direction on the damage in monocrystalline silicon
TOPIC			**BioMedical Engineering**		
16:50 to 17:10	Charles Perrie Title: To Be Advised ALS Global	W.Y. D. Yuen [1176] Width-wise Variation of Residual Stresses in Wound Coils	Jane F. MacKenzie [1271] Muscle activity during lifting: effect of core conditioning on the external oblique abdominal	Karu Karunasena [1004] Evaluation of the strength and stiffness of glue-laminated fibre composite sandwich panels for structural beam application	Syed Masood [1065] Effect of selected DMD process parameters on mechanical and microstructural property of cladded H13 tool steel on copper alloy substrate
17:10	Presentations Conclude				
	CONFERENCE DINNER Government House - St Georges Tce				
18:00 to 19:00	Pre-dinner drinks in the Lady Kyle Garden				
19:00 to 22:30	Dinner in the Ballroom				
22:30	CLOSE				

DAY / TIME	Wednesday, 15th December 2010			
08:00	Registration Desk – Tea/Coffee			
08:50	Opening Ceremony			
09:00 to 09:45	Plenary Keynote Address by Prof Liangchi Zhang **CONTINUUM MECHANICS CHALLENGES IN MULTI-SCALE MANUFACTURING** River View Room 5			
09:45 to 10:20	Morning Tea Break			
SESSION	SEVEN			
ROOM NO	5	6	7	8
TOPIC.	**Impact Mechanics** **Session Chair: Prof Jie Pan**	**Geo-Mechanics** **Session Chair: Dr Chunsheng Lu**	**Manufacturing** **Session Chair: Prof Yee Cheong Lam**	**Dynamics & Vibration** **Session Chair: Prof Arcady V. Dyskin**
10:20 to 10:40	Tong Xi Yu [1021] Dynamic Response of a Ring on Viscoelastic Foundation to Impact	Komsun Siripun [1047] Stress Estimating of Unbound Granular Base Course	Md Shahanur Hasan [1099] Effect of cutting tool nose radius on surface roughness for Stellite 6 machining using coated carbide insert	Jing Zhao [1032] Fluid Induced Vibration in Liquid-Filled Pipe Guided Hydraulic Circuit Systems
10:40 to 11:00	Dong (Tracy) Ruan [1028] The ballistic impact characteristic of sandwich panel consisting of Kevlar woven fabric and hexagonal aluminium honeycomb	Md Monir Hossain [1108] Effect of vertical seismic coefficient on the stability of rock slopes against plane failure	Brian Boswell [1097] An experimental approach to determine the effectiveness of minimum liquid cooling for end milling 1040 steel	Rejwan Ali [1073] Data Acquisition for a Bridge Collapse Test
11:00 to 11:20	Karthik Ram Ramakrishnan [1037] Numerical Simulation of Low Velocity Impact on Plastic Laminates	Komsun Siripun [1050] Effects of moisture characteristics of unbound granular base course	Shankar Kalyanasundaram [1111] A study on the forming analysis of a self-reinforced polypropylene based composite-aluminium hybrid structures.	D. P. Lowe [1116] Diesel engine condition monitoring and simulated diesel knock
11:20 to 11:40	Roslina Mohammad [1059] Dynamic Behaviour of Transporting Liquid Under Impulse Loading	X. Liu [1234] Numerical study of landslide-induced water waves in reservoir	Md Shahanur Hasan [1117] Residual stress analysis on machined surface in turning Stellite 6	Bijan Samali [1198] Active Vibration Control of two benchmark structures equipped with Multiple Tuned Mass Dampers
11:40 to 12:00	Mustafizur Rahman [1105] Simulation of impact response of multilayered panels composed of bonded and unbonded plies.	B. Hamidi [1148] Predicting Soil Parameters by Modelling Dynamic Compaction Induced Subsidence	Chensong Dong [1112] Mechanism analysis and experimental study for the bevelling of quartz crystal blanks	David Lowe [1220] Enhancing acoustic emission signals from multi-cylinder diesel engine
12:00 to 13:00	**Lunch**			
13:00 to 13:45	Plenary Keynote Address by Prof Bharat Bhushan **NANOTRIBOLOGY, NANOMECHANICS AND MATERIALS CHARACTERIZATION STUDIES AND APPLICATIONS TO BIO/NANOTECHNOLOGY AND BIOMIMETICS** River View Room 5			
SESSION	EIGHT			
ROOM NO	5	6	7	8
TOPIC	**Fluid Structural Interaction** **Session Chair: Prof Tony Lucey**	**Tribology** **Session Chair: Prof Bharat Bhushan**	**Manufacturing** **Session Chair: Dr Ron Wescott**	**Dynamics & Vibration** **Session Chair: Prof Vincent Rouillard**
13:45 to 14:05	L. Lai [1034] Numerical two-dimensional flexible channel	Yuriy Solomonov [1061] Experimental Apparatus and Preliminary	Sudharshan Venkatesan [1128] A Study on the Real Time Strain Evolution in Glass	Matej Krajnc [1072] Distributed Systems Architectures For Machine

	model fixed at both ends for flow-induced instability analysis	Investigations of Friction and Wear Phenomena in Water-Lubricated Bearings	Fiber Reinforced Composites during Stamp Forming	Condition Monitoring
14:05 to 14:25	Jarrad S. Kapor [1041] Fluid-Structure Interaction Using Mesh-Free Modelling	Ronghao Bao [1115] From Stokes roughness to Reynolds roughness: a perturbation characterisation	Phuc Nguyen [1121] Investigation of Thermo-Mechanical Properties of Thermal Barrier Coatings Fabricated using the Slurry Spray Technique	Mohsen Askari [1201] Multi Objective Optimal Placement of Structural Control Actuators
TOPIC		**Machine Dynamics**		**Computational Mechanics**
14:25 to 14:45	Ben Hoea Tan [1130] Hydroelastic Stability of an Inhomogeneous Flexible Panel in a Uniform Mean Flow	Vladis Kosse [1090] Advanced mathematical modelling and experimental investigation of new torque arms for shaft-mounted drives	Garry Leadbeater [1226] Processing and properties of porous Ti-Nb-Ta-Zr alloy for biomedical applications using the powder metallurgy route	F. Kolahan [1254] Modeling and optimization of the electron beam welding process using statistical approaches
14:45 to 15:05	Mohammad Reza Mobinipouya [1138] A promising avenue for the intensification of turbulent free convection in square cavities using an adequate selection of binary gas mixtures	F. Ding [1189] Modelling and Dynamic Analysis of a Heavy Duty Truck with Rear Tandem Axle Bogie Suspension System	Y C Lam [1005] Surface roughness, hardness and strength of an aluminum mold fabricated by hot embossing	Mohammad Reza Mobinipouya [1139] Deviation of the calculated vapor and liquid density of refrigerant fluids at different temperatures and pressures using aforementioned equations of state from literature data
15:05 to 15:30	Afternoon Tea Break			
SESSION	NINE			
ROOM NO	5	6	7	8
TOPIC	**Fluid Structural Interaction** **Session Chair: Dr. Mark Pitman**	**Machine Dynamics** **Session Chair: Dr Brian Boswell**	**Structural Mechanics** **Session Chair: Prof Tongxi Yu**	**Computational Mechanics** **Session Chair: Dr James Jewkes**
15:30 to 15:50	Tony Lucey [1268] Wave propagation in an elastic waveguide: fluid-structure interactions in a spinal disease	Ray Malpress [1180] Assessment of an eccentric link in the connecting rod of a spark ignition engine intended for variable compression ratio operation	Dong (Tracy) Ruan [1188] Experimental investigation of the lateral crushing behaviour of short sandwich tubes	M. H. Abolbashari [1045] Topology optimization of continuum structures with elasto-plastic behaviour using evolutionary structural optimization based on stress and stiffness criteria
TOPIC	**Acoustics**			
15:50 to 16:10	Daniel R. Wilkes [1018] Application of the Fast Multipole Boundary Element Method to Underwater Acoustic Scattering	Kazem Abhary [1233] A new analytical method for kinematic analysis of planar mechanisms	Bijan Samali [1195] Adaptive Neuro-Fuzzy Modelling of a high-rise structure equipped with an Active Tuned Mass Damper	F. Kolahan [1252] Optimization Of Process Parameters In Laser Welding By Simulated Annealing Algorithm
16:10 to 16:30	Jie Pan [1223] Near field sound radiation from a finite-sized loudspeaker in a room	Zhongwei Wang [1262] The Development of Lumped Mass Dynamic Modeling Methods of Planetary Gearbox for Fault Detection and Diagnosis	M.H. Abolbashari [1071] Analytical solution of functionally graded plates with any combination of clamped and simply supported boundary conditions under transverse mechanical loading	F. Kolahan [1251] Optimizing of fair curves based on the strain energy criterion using Tabu Search algorithm
16:30 to 16:50	Manindra Kaphle [1023] Analysis of acoustic emission data for structural health monitoring applications	Ding Fei [1184] Study on bifurcation characteristics of front wheel self-excited shimmy	M.H. Abolbashari [1003] Overall Deflection Minimization of Structures Using Morphing Evolutionary Structural Optimization Method	
16:50 to			M.H. Abolbashari [1046]	

17:10			Shape and topology optimization of mechanical components using adaptive biological growth method	
17:10	CLOSING CEREMONY			