

TECHNICAL PROGRAM SCHEDULE

ICRACEM 2020
1ST INTERNATIONAL CONFERENCE
ON
RECENT ADVANCES IN
COMPUTATIONAL AND EXPERIMENTAL MECHANICS

SEPTEMBER 4TH – 6TH 2020



ORGANIZED JOINTLY BY
DEPARTMENTS OF CIVIL ENGINEERING, AEROSPACE ENGINEERING, AND OCEAN ENGINEERING & NAVAL ARCHITECTURE
IIT KHARAGPUR

1st International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM 2020)

September 4th – 6th 2020

Organized Jointly By

Departments of Civil Engineering, Aerospace Engineering, and Ocean Engineering & Naval Architecture

Date: 4th September 2020

Inaugural Session - 10:00 AM – 11:00 AM

Inaugural Lecture by Chief Guest, Prof. D. V. Griffiths, Colorado School of Mines - 10:48 AM – 10:58 AM

Technical Program (September 4th 2020 – Day 1)

Popular Lecture by Prof. C. D. Kong, Chosun University and IIT Kharagpur
Title: Structural optimization of an automobile hood using natural flax fiber reinforced plastic composites and RIM manufacturing method
Session Chair: Prof. Nirjhar Dhang, IIT Kharagpur
Time: 11.00 – 12.00

Keynote Lecture by Prof. Tarun Kant, IIT Bombay
Title: Origin of introduction of higher order displacement polynomials through thickness in the theory of beams, plates and shells
Session Chair: Prof. L.S. Ramachandra, IIT Kharagpur
Time: 12.00 – 12.45

Keynote Lecture by Prof. D. R. Fuhrman, Technical University of Denmark
Title: Computational fluid dynamics simulation of breaking waves, sediment transport, and coastal morphology utilizing stabilized turbulence closure models
Session Chair: Prof. Arnab Roy, IIT Kharagpur
Time: 12.00 – 12.45

Sponsored Lecture: Presentation by Mr. Anup Mehta, Ansys
Time: 12.45 – 13.30

Parallel Technical Sessions (Time: 14.30 – 16.00)

Session – 1 <i>Theme</i> – Applied Mechanics <i>Chair</i> – Prof. D. K. Maiti		Session – 2 <i>Theme</i> – Experimental Mechanics <i>Chair</i> – Prof. Aparna Ghosh		Session – 3 <i>Theme</i> – Fluid Mechanics <i>Chair</i> – Prof. Manish Kaushal		Session – 4 <i>Theme</i> – Interdisciplinary Mechanics <i>Chair</i> – Prof. B Bhattacharya		Session – 5 <i>Theme</i> – Solid Mechanics <i>Chair</i> – Prof. B Banerjee		Session – 6 <i>Theme</i> – Vibration & Control <i>Chair</i> – Prof. Amit Shaw		Session – 7 <i>Theme</i> – Applied Mechanics <i>Chair</i> – Prof. Arup Ghua Neogi	
Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID
2:30:00 PM	AM-20-001	2:30:00 PM	EM-20-003	2:30:00 PM	FM-20-004	2:30:00 PM	IM-20-003	2:30:00 PM	SM-20-011	2:30:00 PM	VC-20-002	2:30:00 PM	AM-20-008
2:42:00 PM	AM-20-002	2:42:00 PM	EM-20-004	2:42:00 PM	FM-20-005	2:42:00 PM	IM-20-004	2:42:00 PM	SM-20-013	2:42:00 PM	VC-20-003	2:42:00 PM	AM-20-009
2:54:00 PM	AM-20-003	2:54:00 PM	EM-20-005	2:54:00 PM	FM-20-006	2:54:00 PM	IM-20-005	2:54:00 PM	SM-20-014	2:54:00 PM	VC-20-005	2:54:00 PM	AM-20-010
3:06:00 PM	AM-20-004	3:06:00 PM	EM-20-006	3:06:00 PM	FM-20-007	3:06:00 PM	IM-20-006	3:06:00 PM	SM-20-015	3:06:00 PM	VC-20-006	3:06:00 PM	AM-20-011
3:18:00 PM	AM-20-006	3:18:00 PM	EM-20-008	3:18:00 PM	FM-20-009	3:18:00 PM	IM-20-007	3:18:00 PM	SM-20-016	3:18:00 PM	VC-20-007	3:18:00 PM	AM-20-012
3:30:00 PM	AM-20-007	3:30:00 PM	AM-20-035	3:30:00 PM	FM-20-016	3:30:00 PM	IM-20-008	3:30:00 PM	SM-20-025	3:30:00 PM	VC-20-009	3:30:00 PM	AM-20-013
				3:42:00 PM	FM-20-032								

Plenary Lecture by Prof. John. W. Hutchinson, Harvard University
Title: Dent imperfections in shell buckling: the role of geometry, residual stress and plasticity
Session Chair: Prof. Sanjay Mittal, IIT Kanpur
Time: 16.15 – 17.15

Parallel Technical Sessions (Time: 17.20 – 18.50)

Session – 8 <i>Theme</i> – Applied Mechanics		Session – 9 <i>Theme</i> – Experimental Mechanics		Session – 10 <i>Theme</i> – Fluid Mechanics <i>Chair</i> – Prof. Somnath Ghosh		Session – 11 <i>Theme</i> – Interdisciplinary Mechanics		Session – 12 <i>Theme</i> – Solid Mechanics		Session – 13 <i>Theme</i> – Vibration & Control		Session – 14 <i>Theme</i> – Fluid Mechanics <i>Chair</i> – Prof. Manas Laha	
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Chair – Prof. Arunasis Chakraborty		Chair – Prof. Rajesh Kumar				Chair – Prof. Amlan Dutta		Chair – Prof. L.S. Ramachandra		Chair – Prof. Anirvan Dasgupta			
Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID
5:20:00 PM	AM-20-015	5:20:00 PM	EM-20-009	5:20:00 PM	FM-20-010	5:20:00 PM	IM-20-011	5:20:00 PM	SM-20-019	5:20:00 PM	VC-20-012	5:20:00 PM	FM-20-018
5:32:00 PM	AM-20-016	5:32:00 PM	EM-20-010	5:32:00 PM	FM-20-012	5:32:00 PM	IM-20-012	5:32:00 PM	SM-20-020	5:32:00 PM	VC-20-013	5:32:00 PM	FM-20-019
5:44:00 PM	AM-20-017	5:44:00 PM	EM-20-011	5:44:00 PM	FM-20-013	5:44:00 PM	IM-20-013	5:44:00 PM	SM-20-018	5:44:00 PM	VC-20-014	5:44:00 PM	FM-20-021
5:56:00 PM	AM-20-018	5:56:00 PM	EM-20-012	5:56:00 PM	FM-20-014	5:56:00 PM	IM-20-014	5:56:00 PM	SM-20-022	5:56:00 PM	VC-20-016	5:56:00 PM	FM-20-022
6:08:00 PM	AM-20-019	6:08:00 PM	EM-20-013	6:08:00 PM	FM-20-015	6:08:00 PM	IM-20-015	6:08:00 PM	SM-20-023	6:08:00 PM	VC-20-017	6:08:00 PM	FM-20-027
6:20:00 PM	AM-20-021	6:20:00 PM	EM-20-001	6:20:00 PM	FM-20-030	6:20:00 PM	IM-20-017	6:20:00 PM	SM-20-017	6:20:00 PM	VC-20-038	6:20:00 PM	FM-20-028
												6:32:00 PM	FM-20-051
<i>Keynote Lecture</i> by Prof. Romesh C. Batra, Virginia Polytechnic Institute & State University <i>Title:</i> Optimal Design of Beams, Shafts and Pressure Vessels using Functionally Graded Materials <i>Session Chair:</i> Prof. Baidurya. Bhattacharya, IIT Kharagpur <i>Time:</i> 19.00 – 19.45							<i>Keynote Lecture</i> by Prof. Lars E. Holmedal, Norwegian University of Science and Technology <i>Title:</i> Oscillatory boundary layer <i>Session Chair:</i> Prof. V. R. Desai, IIT Kharagpur <i>Time:</i> 19.00 – 19.45						

Technical Program (September 5th 2020 – Day 2)

<i>Keynote Lecture</i> by Prof. Kalyanmoy Deb, Michigan State University <i>Title:</i> Advances in Optimization Methods for Engineering Problem Solving <i>Session Chair:</i> Prof. Sudhir Barai, BITS Pilani <i>Time:</i> 8.00 – 8.45						<i>Keynote Lecture</i> by Prof. D. V. Griffiths, Colorado School of Mines <i>Title:</i> Computational Slope Stability and Risk Analysis <i>Session Chair:</i> Prof. D. K. Baidya, IIT Kharagpur <i>Time:</i> 8.00 – 8.45							
<i>Sponsored Lecture:</i> Presentation by Ms. Kritika Prasad, Bentley Systems India Pvt Ltd <i>Time:</i> 9.00 – 9.20						<i>Sponsored Lecture:</i> Presentation by Mr. Sajid Alam, DHI (India) Water & Environment Pvt Ltd <i>Time:</i> 9.00 – 9.20							
Parallel Technical Sessions (Time: 9.30 – 11.00)													
Session – 15 <i>Theme – Applied Mechanics</i> <i>Chair – Prof. Sujit Dash</i>		Session – 16 <i>Theme – Mixed</i> <i>Chair – Prof. C. S. Mistry</i>		Session – 17 <i>Theme – Fluid Mechanics</i> <i>Chair – Prof. Manish Kaushal</i>		Session – 18 <i>Theme – Interdisciplinary Mechanics</i> <i>Chair – Prof. Kousik Deb</i>		Session – 19 <i>Theme – Solid Mechanics</i> <i>Chair – Prof. Sarat K Panda</i>		Session – 20 <i>Theme – Vibration & Control</i> <i>Chair – Prof. D K Maiti</i>		Session – 21 <i>Theme – Vibration & Control</i> <i>Chair – Prof. Ritwik Ghoshal</i>	
Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID
9:30:00 AM	AM-20-022	9:30:00 AM	EM-20-016	9:30:00 AM	FM-20-024	9:30:00 AM	IM-20-009	9:30:00 AM	SM-20-026	9:30:00 AM	VC-20-019	9:30:00 AM	VC-20-028
9:42:00 AM	AM-20-023	9:42:00 AM	EM-20-018	9:42:00 AM	FM-20-026	9:42:00 AM	IM-20-022	9:42:00 AM	SM-20-027	9:42:00 AM	VC-20-022	9:42:00 AM	VC-20-030
9:54:00 AM	AM-20-026	9:54:00 AM	EM-20-020	9:54:00 AM	FM-20-031	9:54:00 AM	IM-20-024	9:54:00 AM	SM-20-030	9:54:00 AM	VC-20-023	9:54:00 AM	VC-20-031
10:06:00 AM	AM-20-028	10:06:00 AM	EM-20-015	10:06:00 AM	FM-20-035	10:06:00 AM	IM-20-025	10:06:00 AM	SM-20-032	10:06:00 AM	VC-20-024	10:06:00 AM	VC-20-032
10:18:00 AM	AM-20-029	10:18:00 AM	IM-20-037	10:18:00 AM	FM-20-036	10:18:00 AM	IM-20-026	10:18:00 AM	SM-20-033	10:18:00 AM	VC-20-035	10:18:00 AM	VC-20-037
10:30:00 AM	AM-20-030	10:30:00 AM	EM-20-023	10:30:00 AM	FM-20-037	10:30:00 AM	IM-20-028	10:30:00 AM	SM-20-034	10:30:00 AM	VC-20-033	10:30:00 AM	VC-20-039
<i>Sponsored Lecture:</i> Advertisement by our sponsors <i>Time:</i> 11.05 – 11.15													
<i>Sponsored Lecture:</i> Presentation by Bentley Systems India Pvt Ltd <i>Time:</i> 11.15 – 11.35													
Parallel Technical Sessions (Time: 12.00 – 13.30)													
Session – 22 <i>Theme – Applied Mechanics</i> <i>Chair – Prof. Shekhar Chandra Dutta</i>		Session – 23 <i>Theme – Applied Mechanics</i> <i>Chair – Prof. Sasanka Sekhar Mondal</i>		Session – 24 <i>Theme – Fluid Mechanics</i> <i>Chair – Prof. Rajaram Lakkaraju</i>		Session – 25 <i>Theme – Interdisciplinary Mechanics</i> <i>Chair – Prof. Amlan Dutta</i>		Session – 26 <i>Theme – Solid Mechanics</i> <i>Chair – Prof. Sarat K. Panda</i>		Session – 27 <i>Theme – Vibration & Control</i> <i>Chair – Prof. Maloy K. Singha</i>		Session – 28 <i>Theme – Solid Mechanics</i> <i>Chair – Prof. Anupam Chakrabarti</i>	
Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID
12:00:00 PM	AM-20-031	12:00:00 PM	AM-20-040	12:00:00 PM	FM-20-041	12:00:00 PM	IM-20-029	12:00:00 PM	SM-20-035	12:00:00 PM	VC-20-021	12:00:00 PM	SM-20-043
12:12:00 PM	AM-20-033	12:12:00 PM	AM-20-042	12:12:00 PM	FM-20-043	12:12:00 PM	IM-20-030	12:12:00 PM	SM-20-038	12:12:00 PM	VC-20-043	12:12:00 PM	SM-20-044
12:24:00 PM	AM-20-014	12:24:00 PM	AM-20-043	12:24:00 PM	FM-20-044	12:24:00 PM	IM-20-031	12:24:00 PM	SM-20-039	12:24:00 PM	VC-20-040	12:24:00 PM	SM-20-045
12:36:00 PM	AM-20-037	12:36:00 PM	AM-20-046	12:36:00 PM	FM-20-046	12:36:00 PM	IM-20-033	12:36:00 PM	VC-20-036	12:36:00 PM	VC-20-041	12:36:00 PM	SM-20-046
12:48:00 PM	AM-20-055	12:48:00 PM	AM-20-047	12:48:00 PM	FM-20-048	12:48:00 PM	IM-20-034	12:48:00 PM	SM-20-053	12:48:00 PM	VC-20-042	12:48:00 PM	SM-20-047
1:00:00 PM	AM-20-056	1:00:00 PM	AM-20-048	1:00:00 PM	FM-20-053	1:00:00 PM	IM-20-035	1:00:00 PM	SM-20-055	1:00:00 PM	VC-20-045	1:00:00 PM	SM-20-048
<i>Sponsored Lecture:</i> Advertisement by our sponsors <i>Time:</i> 14.30 – 14.40													
<i>Keynote Lecture</i> by Prof. Vikram Deshpande, Cambridge University <i>Title:</i> Hydrogen induced fast fracture <i>Session Chair:</i> Prof. Arghya Deb, IIT Kharagpur <i>Time:</i> 14.45 – 15.30						<i>Keynote Lecture</i> by Prof. Sondipon Adhikari, Swansea University <i>Title:</i> Homogeneous dynamic characteristics of damped 2D elastic lattices <i>Session Chair:</i> Prof. Sushanta Chakraborty, IIT Kharagpur <i>Time:</i> 14.45 – 15.30							

<i>Sponsored Lecture:</i> Advertisement by Ansys4 <i>Time:</i> 15.40 – 15.50	<i>Sponsored Lecture:</i> Advertisement by Tesscorn <i>Time:</i> 15.40 – 15.50
<i>Keynote Lecture</i> by Dr. Gopalakrishnan, Director CBRI <i>Title:</i> Challenges in experiments and tests in structural engineering <i>Session Chair:</i> Prof. Dipankar Chakraborty, Jadavpur University <i>Time:</i> 16.00 – 16.45	<i>Keynote Lecture</i> by Prof. Sanjay Mittal, IIT Kanpur <i>Title:</i> Aerodynamics of sports balls and badminton shuttle cock <i>Session Chair:</i> Prof. S. D. Sharma, IIT Bombay <i>Time:</i> 16.00 – 16.45
<i>Sponsored Lecture:</i> Advertisement by Ednex <i>Time:</i> 16.45 – 16.50	<i>Sponsored Lecture:</i> Advertisement by Electrono <i>Time:</i> 16.45 – 16.50
<i>Keynote Lecture</i> by Prof. G.R. Liu, University of Cincinnati <i>Title:</i> A Neural Element Method <i>Session Chair:</i> Prof. S. K. Dwivedy, IIT Guwahati <i>Time:</i> 17.00 – 17.45	
<i>Sponsored Lecture:</i> Advertisement by Tesscorn <i>Time:</i> 17.45 – 17.55	
<i>Cultural Evening</i> ‘Mystical Melodies’ by Chirontonee: directed by Ms. Alokanda Roy & Dance program by Dancers’ Forum: directed by Ms. Subrata Bhattacharya <i>Time:</i> 18.00 – 20.00	

Technical Program (September 6th 2020 – Day 3)

<i>Keynote Lecture</i> by Prof. S. S. Lee, Gyeongsang National University <i>Title:</i> Induction Welding of Thermoplastic Composite using Magnetite <i>Session Chair:</i> Prof. Aniruddha Sengupta, IIT Kharagpur <i>Time:</i> 8.00 – 8.45								<i>Keynote Lecture</i> by Prof. Sreekanta Das, University of Windsor <i>Title:</i> Modular Construction – Mechanics, Benefits, and Challenges Involved <i>Session Chair:</i> Prof. K.S. Rao, Andhra University <i>Time:</i> 8.00 – 8.45							
Parallel Technical Sessions (Time: 9.00 – 10.45)															
Session – 29 <i>Theme – Applied Mechanics</i> <i>Chair – Prof. Ajeet Kumar</i>		Session – 30 <i>Theme – Fluid Mechanics</i> <i>Chair – Prof. Manish Kaushal</i>		Session – 31 <i>Theme – Fluid Mechanics</i> <i>Chair – Prof. Rajaram Lakkaraju</i>		Session – 32 <i>Theme – Solid Mechanics</i> <i>Chair – Prof. Kaustabh Dasgupta</i>		Session – 33 <i>Theme – Solid Mechanics</i> <i>Chair – Prof. Hemant Kaushik</i>		Session – 34 <i>Theme – Vibration & Control</i> <i>Chair – Prof. Priyaranjan Pal</i>		Session – 35 <i>Theme – Mixed</i> <i>Chair – Prof. Anirban Dhar</i>		Session – 36 <i>Theme – Mixed</i> <i>Chair – Prof. Prasun Jana</i>	
Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID	Time	Paper-ID
9:00 AM	AM-20-049	9:00:00 AM	FM-20-054	9:00:00 AM	FM-20-068	9:00:00 AM	VC-20-056	9:00:00 AM	AM-20-061	9:00:00 AM	VC-20-050	9:00:00 AM	AM-20-057	9:00:00 AM	IM-20-038
9:12:00 AM	AM-20-050	9:12:00 AM	FM-20-055	9:12:00 AM	FM-20-065	9:12:00 AM	VC-20-057	9:12:00 AM	AM-20-064	9:12:00 AM	VC-20-052	9:12:00 AM	AM-20-059	9:12:00 AM	SM-20-041
9:24:00 AM	AM-20-051	9:24:00 AM	FM-20-056	9:24:00 AM	FM-20-066	9:24:00 AM	VC-20-047	9:24:00 AM	AM-20-066	9:24:00 AM	VC-20-063	9:24:00 AM	AM-20-060	9:24:00 AM	AM-20-065
9:36:00 AM	AM-20-052	9:36:00 AM	FM-20-058	9:36:00 AM	FM-20-061	9:36:00 AM	VC-20-053	9:36:00 AM	SM-20-057	9:36:00 AM	VC-20-062	9:36:00 AM	VC-20-058	9:36:00 AM	FM-20-050
9:48:00 AM	AM-20-053	9:48:00 AM	FM-20-060	9:48:00 AM	FM-20-069	9:48:00 AM	VC-20-054	9:48:00 AM	SM-20-058	9:48:00 AM	EM-20-014	9:48:00 AM	VC-20-059	9:48:00 AM	AM-20-036
10:00:00 AM	AM-20-054	10:00:00 AM	FM-20-067	10:00:00 AM	FM-20-001	10:00:00 AM	VC-20-055	10:00:00 AM	IM-20-010	10:00:00 AM	IM-20-039	10:00:00 AM	VC-20-061	10:00:00 AM	AM-20-058
10:12:00 AM	AM-20-034	10:12:00 AM	FM-20-003					10:12:00 AM	SM-20-042			10:12:00 AM	VC-20-049		
<i>Keynote Lecture</i> by Dr. Deepak Sharma, TSI Inc <i>Title:</i> Overview on various Experimental Tools for Virus/Aerosol Research and Advances in Volumetric velocimetry <i>Session Chair:</i> Prof. Manas Laha, IIT Kharagpur <i>Time:</i> 11.00 – 11.45								<i>Keynote Lecture</i> by Prof. Kirti Sahu, IIT Hyderabad <i>Title:</i> Some peculiar behaviors observed in bubbles and droplets <i>Session Chair:</i> Prof. Anirban Dhar, IIT Kharagpur <i>Time:</i> 11.00 – 11.45							
<i>Keynote Lecture</i> by Prof. S. D. Sharma, IIT Bombay <i>Title:</i> Vortex generator: Passive flow control device with active role <i>Session Chair:</i> Prof. D. J. Sen, IIT Kharagpur <i>Time:</i> 11.45 – 12.30								<i>Keynote Lecture</i> by Prof. S. R. Chakravarthy, IIT Madras <i>Title:</i> The life of perforations in an expanding liquid sheet <i>Session Chair:</i> Prof. Manas Laha, IIT Kharagpur <i>Time:</i> 11.45 – 12.30							
<i>Keynote Lecture</i> by Prof. Gautam Biswas, IIT Kanpur <i>Title:</i> Dynamics of the cavity generated due to impact of high-speed train of microdrops on a liquid pool <i>Session Chair:</i> Prof. Subhasish Dey, IIT Kharagpur <i>Time:</i> 15.00 – 15.45															

Valedictory Session: Chief Guest – Prof. S. K. Bhattacharyya, Deputy Director, IIT Kharagpur

Time: 16.30 – 17.00

List of Papers

Paper ID	Paper Name	Session Number	Time of Presentation
AM-20-001	Multiple mode fracture analysis of hip prosthesis for critical crack size determination and life estimation	Session 1	2:30:00 PM
AM-20-002	Gradient Enhanced Isotropic Damage Model for the Mixedmode Fracture of Concrete	Session 1	2:42:00 PM
AM-20-003	First ply failure behaviour of corner point supported laminated composite skew plate	Session 1	2:54:00 PM
AM-20-004	A Parametric study of bending behaviour of damaged composite conoidal shell roofs	Session 1	3:06:00 PM
AM-20-006	Harmonic analysis on axial turbine blades	Session 1	3:18:00 PM
AM-20-007	Immobilization and Characterization of Acid Phosphatase and its affinity for selected Organophosphate Pesticides	Session 1	3:30:00 PM
AM-20-008	Vibration Characteristics of Functionally Graded Plate for Different Edge Constraint	Session 7	2:30:00 PM
AM-20-009	Coupled thermomechanical analysis of shape memory alloy actuator	Session 7	2:42:00 PM
AM-20-010	Numerical simulation of void growth ahead of a moving crack tip in plastically compressible solids	Session 7	2:54:00 PM
AM-20-011	Study on Formation & Propagation of Cracks in Concrete: A Review	Session 7	3:06:00 PM
AM-20-012	Improvement of Mechanical Properties of High carbon steel	Session 7	3:18:00 PM
AM-20-013	Multistability of Connected Variable Stiffness Laminates	Session 7	3:30:00 PM
AM-20-014	Evaluation of the safe bearing capacity of laterite soil of Udupi district and categorization of the risky zones	Session 22	12:24:00 PM
AM-20-015	Mechanical behaviour of Nano Composite Cementitious Material Using Graphene Nanoplatelet (GNP) and Montmorillonite Nano Clay (MNC)	Session 8	5:20:00 PM
AM-20-016	A Scaling Procedure for Predicting Pressure Fluctuations caused by Fluid Transient in Cryogenic Systems	Session 8	5:32:00 PM
AM-20-017	Modelling fresh concrete using the Discrete Element Method: an overview	Session 8	5:44:00 PM
AM-20-018	Impact Induced Stress Behavior of Simply Supported Laminated Composite Skewed Hypar Shell Roof	Session 8	5:56:00 PM
AM-20-019	Estimation of instantaneous shear modulus in neat resin and multi walled nanotube reinforced carbon epoxy composites by finite element analysis	Session 8	6:08:00 PM
AM-20-021	An alternative numerical technique for solving problems involving inelastic deformation	Session 8	6:20:00 PM
AM-20-022	Free Vibration analysis of Functionally Graded Plate with and without cutout	Session 15	9:30:00 AM
AM-20-023	A comparative study on free vibration of hybrid laminated composite shells	Session 15	9:42:00 AM
AM-20-026	Exploring Self-Sensing Capability of Shape Memory Alloy Wire Actuator using Kalman Filters	Session 15	9:54:00 AM
AM-20-028	A multi-field finite element formulation for viscoelastic response	Session 15	10:06:00 AM
AM-20-029	Free vibration study of laminated composite shell with varying cut-outs	Session 15	10:18:00 AM
AM-20-030	Smart Materials and their Applications—A Short Review	Session 15	10:30:00 AM
AM-20-031	Numerical study on concrete – filled steel tubes with diagonal binding ribs and longitudinal stiffeners	Session 22	12:00:00 PM
AM-20-033	Identification of cohesive zone parameters for a material interface crack	Session 22	12:12:00 PM
AM-20-035	Vibration and Buckling behaviour of Intralayer Hybrid Fiber Metal Laminates HFMLs With and Without Cut-outs subjected to inplane varying edge loads	Session 2	3:30:00 PM
AM-20-037	Buckling Analysis of Laminated Composite Rectangular Cavity with Cutout	Session 22	12:36:00 PM
AM-20-040	Design of Graded Elastomeric Cellular Structures for Enhancing Energy Absorption	Session 23	12:00:00 PM
AM-20-042	Study on Strength of Cold-form steel based composite structures: A Review	Session 23	12:12:00 PM
AM-20-043	Flexural analysis of cross-ply laminated plates using new first-order shear deformation theory	Session 23	12:24:00 PM
AM-20-046	Experimental testing and numerical modelling of CFST columns under axial compressive load	Session 23	12:36:00 PM
AM-20-047	Electro-elastic analysis of edge dislocation dipole in GaN using XFEM	Session 23	12:48:00 PM

AM-20-048	Dynamic stiffness method for free vibration analysis of stepped plate using the first order shear deformation theory	Session 23	1:00:00 PM
AM-20-049	Effect of fiber content on shear and flexural responses of GFRP laminates under symmetric and asymmetric layup configurations	Session 29	9:00:00 AM
AM-20-050	Free vibration analysis of S-FGM plates resting on elastic foundation by using the dynamic stiffness method	Session 29	9:12:00 AM
AM-20-051	Micromechanics based technique of material homogenization and determination of fracture plane in advanced composites	Session 29	9:24:00 AM
AM-20-052	Shear Capacity of Steel Fibre Reinforced Concrete Beams Without Stirrups using Critical Shear Displacement Approach	Session 29	9:36:00 AM
AM-20-053	A numerical torque-twist based approach for structures in torsion	Session 29	9:48:00 AM
AM-20-054	Numerical Study on Channel type Shear Connector for Steel-Concrete Composite Girder	Session 29	10:00:00 AM
AM-20-055	Study on behaviour of stiffened single coped beam with slender web against local web buckling	Session 22	12:48:00 PM
AM-20-056	A review of Prediction of stress state in a concrete member using ultrasonic wave velocity	Session 22	1:00:00 PM
AM-20-057	Comparative study of concrete filled circular tubular column with confinement effect under axial compression	Session 35	9:00:00 AM
AM-20-059	Axial load response of cold-formed steel built-up box columns with and without stiffeners	Session 35	9:12:00 AM
AM-20-060	An Experimental Study to Compare the Stress Predictability of the J-C Model for Bovine Bone	Session 35	9:24:00 AM
AM-20-061	Design and Structural analysis of a Motor cycle Helmet using Composite material	Session 33	9:00:00 AM
AM-20-064	Analytical comparative studies of fatigue crack growth and life on stainless steel pipes subjected to pure bending and combined torsion and bending	Session 33	9:12:00 AM
AM-20-066	Modal Study on FGM Elliptical Plate under Thermal Environment	Session 33	9:24:00 AM
EM-20-001	Study of Fluid Flow Properties in Tube with Different Orientation For Natural Convection Heat Transfer	Session 9	6:20:00 PM
EM-20-003	State of the art on composite column to foundation connections	Session 2	2:30:00 PM
EM-20-004	Flow around bottom mounted submerged vertical circular cylinder over rigid plane bed	Session 2	2:42:00 PM
EM-20-005	Optimum gauge length for measuring non-uniform axial strain field	Session 2	2:54:00 PM
EM-20-006	Experimentally Verified Behavior of Multiple-shape Hybrid FRP-Concrete-Steel Double-Skin Tubular Columns under Axial Compression	Session 2	3:06:00 PM
EM-20-008	Rehabilitation of Corroded Steel Beams Using Basalt Fibre Fabric – Mechanics and Experimental Validation	Session 2	3:18:00 PM
EM-20-009	Thermo-mechanical behaviour of standard and high strength concrete subjected to thermal cycles	Session 9	5:20:00 PM
EM-20-010	Analytical and experimental study on unutilized concrete in rc beams	Session 9	5:32:00 PM
EM-20-011	Finite Element Analysis of Composite Materials for Explosion Proof Transformer Oil Tank	Session 9	5:44:00 PM
EM-20-012	Multihit Impact Resistance of Masonry Walls under Large Mass	Session 9	5:56:00 PM
EM-20-013	Non-Destructive Crack Detection Technique Based on Surface Temperature in Ceramic Matrix Composites	Session 9	6:08:00 PM
EM-20-014	Effect of collisions on properties of non-equilibrium steady state of harmonic chains with alternating masses	Session 34	9:48:00 AM
EM-20-015	Estimation of Damage Characterisation of Hardened Concrete from Early Hydration Process	Session 16	10:06:00 AM
EM-20-016	Treated Pulverized Waste Foundry Sand as Mineral Admixture for Concrete: Effects on Mechanical Properties	Session 16	9:30:00 AM
EM-20-018	Low Cycle Fatigue Analysis of High Strength Aluminum Alloy 2024	Session 16	9:42:00 AM
EM-20-020	Experimental Stress and Free Vibration Study of WOVEN Fiber Laminated Composite Beam	Session 16	9:54:00 AM
EM-20-023	Effect of Infill wall on Framed Building	Session 16	10:30:00 AM
FM-20-001	Effect of motive nozzle exit position in a R-744 two phase ejector	Session 31	10:00:00 AM
FM-20-004	Performance improvements in water-lubricated sector-shaped pad thrust bearing with new pocket considering cavitation and turbulence effects	Session 3	2:30:00 PM
FM-20-005	A CFD study on conditional flow analysis of Boeing 737 and Boeing J aerofoil	Session 3	2:42:00 PM
FM-20-006	Experimental and Numerical Investigation on Plane Jets at Low Reynolds Number	Session 3	2:54:00 PM
FM-20-007	Mathematical Modelling of peristaltic flow of two layered fluids in microchannel under the influence of Electric field	Session 3	3:06:00 PM
FM-20-009	Sinoidal and Non-Sinoidal Wave Forms of Internal Heat Source Modulation on a Three-Component Convection in Viscoelastic Liquids	Session 3	3:18:00 PM
FM-20-010	Mathematical Analysis of Mass Transfer phenomena in Sisko Ferronano fluid Flow over a Permeable Surface with Chemical Reaction	Session 10	5:20:00 PM

FM-20-012	Dynamical control on estuarine hydrodynamics of Sundarbans, India: Classification based on vulnerability indices	Session 10	5:32:00 PM
FM-20-013	Free Convective MHD Mass Transfer flow in a Rotating Vertical Porous Channel partially filled with a Porous Medium	Session 10	5:44:00 PM
FM-20-014	Prediction of pressure coefficient of setback building using back-propagation neural networks	Session 10	5:56:00 PM
FM-20-015	Modelling of turbulent non-reacting propane jet using OpenFoam RANS and LES models	Session 10	6:08:00 PM
FM-20-016	Wind-induced effect on octagonal building interfered by square buildings in 'T' pattern	Session 3	3:30:00 PM
FM-20-018	Numerical study on the performance of Savonius vertical axis wind turbine with guide vanes	Session 14	5:20:00 PM
FM-20-019	Numerical Analysis of Smooth and Wavy Wall Microchannel Heat Sink for Electronic Cooling Applications	Session 14	5:32:00 PM
FM-20-021	Fluid Structure Interaction Analysis under Earthquake Loading and its application to Concrete Gravity Dam	Session 14	5:44:00 PM
FM-20-022	Wind induced effect on different corner positions of corner modified irregular plan shaped tall building	Session 14	5:56:00 PM
FM-20-024	CFD Simulation of a Public Transport Bus for Internal Flow Behavior Analysis from Indian Perspective	Session 17	9:30:00 AM
FM-20-026	Effect of dispersion and viscosity profiles on miscible displacements in porous media	Session 17	9:42:00 AM
FM-20-027	Effect of vertical domain size on wind turbine large-eddy simulations in a half-channel	Session 14	6:08:00 PM
FM-20-028	Optimizing cell deformation in extrusion based bioprinting process by importing inherent viscoelasticity using computational fluid dynamic	Session 14	6:20:00 PM
FM-20-030	Exact and Asymptotic solution of a steady two dimensional boundary layer of a Micropolar fluid flow past a moving wedge	Session 10	6:20:00 PM
FM-20-031	Enhancement of Heat Transfer in Liquid Cooled Heat Sink using Rotating Impeller	Session 17	9:54:00 AM
FM-20-035	Study of wave interaction with flexible porous plate	Session 17	10:06:00 AM
FM-20-036	Effect of limb position of U plan shaped tall building under wind load	Session 17	10:18:00 AM
FM-20-037	Deployment of toe-out type vortex generators in finned tube arrays for flow modification & capacity augmentation: Part A	Session 17	10:30:00 AM
FM-20-041	Water wave trapping by a perforated wall type breakwater in a two-layer fluid flowing over a porous sea-bed	Session 24	12:00:00 PM
FM-20-043	Flood inundation mapping using HEC-RAS 2D in Sangli city of Krishna river basin, Maharashtra (India)	Session 24	12:12:00 PM
FM-20-044	Deployment of toe-out type vortex generators in finned tube arrays for flow modification & capacity augmentation: Part B	Session 24	12:24:00 PM
FM-20-046	Hydrodynamic study of the flows caused by Dam Break around rectangular obstacles	Session 24	12:36:00 PM
FM-20-048	Experimental Investigation on the Interaction of the Propeller Slipstream with the Wake of a Wing at Different Angle of Attack	Session 24	12:48:00 PM
FM-20-053	On the frequency selection in flat plate wakes: mean flow stability analyses	Session 24	1:00:00 PM
FM-20-054	Effect of changing aspect ratios on U plan shaped tall building under wind excitation	Session 30	9:00:00 AM
FM-20-055	Development of Flow and Acoustic calculation method for design of Tunable Acoustics Combustion Test Rig	Session 30	9:12:00 AM
FM-20-056	Development of a numerical tool for studying turbulent fuel-air mixing in swirl-based gas turbine combustion chambers.	Session 30	9:24:00 AM
FM-20-058	Numerical Investigation on Supersonic Flow of Convergent Divergent Nozzles	Session 30	9:36:00 AM
FM-20-060	Second-Order Hydrodynamic Effects on Coupled Dynamic Response of Spar Structure With Different Offshore Seabed Topographies	Session 30	9:48:00 AM
FM-20-061	Nucleation and solidification behavior of water based composite phase change materials for cool thermal energy storage applications – An experimental study	Session 31	9:36:00 AM
FM-20-065	Assessment of peak pressures and gust factors on surfaces of Z shaped tall building under wind	Session 31	9:12:00 AM
FM-20-066	Wind Impact on U Plan Shaped Tall Building Having Various Sifted Single Limb Positions	Session 31	9:24:00 AM
FM-20-067	Convection in g-jitter couple stress liquid with three diffusing components	Session 30	10:00:00 AM
FM-20-068	Integrated Numerical Model and Coupled Analysis of Vshaped Semisubmersible Under Metocean Condition	Session 31	9:00:00 AM
FM-20-069	The flow hydrodynamics around tandem cylinders	Session 31	9:48:00 AM
IM-20-003	Free Vibration Study of Cantilever Conical Shell Made of Functionally Graded Sandwich Material	Session 4	2:30:00 PM
IM-20-004	Static and Dynamic Analysis of Functionally Graded Carbon Nanotube-Reinforced Composites: A Review	Session 4	2:42:00 PM
IM-20-005	A Key to the Estimation of Important Features in the Hot Rolling of Steel: A Comparative Study between Empirical Model and Hybrid ANN Model using Genetic Algorithm	Session 4	2:54:00 PM
IM-20-006	Machine learning based molecular simulations of monolayered graphene	Session 4	3:06:00 PM

IM-20-007	Sequential sampling for reliability analysis of structures by support vector regression based metamodel	Session 4	3:18:00 PM
IM-20-008	Estimation of Patch Load Capacity of Steel I-Girders with Corrugated Webs using FE models and Artificial Neural Networks	Session 4	3:30:00 PM
IM-20-009	Comparison of mean and peak pressure coefficient for cross plan shaped tall buildings under wind	Session 18	9:30:00 AM
IM-20-010	A Computational Approach to Investigate the Properties of Geopolymer Concrete	Session 33	10:00:00 AM
IM-20-011	Review of study the effect of different tool profiles on aluminium aa3103 by friction stir welding	Session 11	5:20:00 PM
IM-20-012	Prediction of Resistance of Layered Toughened Glass under Low Velocity Impact	Session 11	5:32:00 PM
IM-20-013	Robotic Detection of Damage in Autonomously Assembled Structures Via Synthetically-Trained Classification Models	Session 11	5:44:00 PM
IM-20-014	Construction Industry with 3D Printer: A New Era	Session 11	5:56:00 PM
IM-20-015	Long Short-Term Memory based Deep Learning Algorithm for Damage Detection of Structure	Session 11	6:08:00 PM
IM-20-017	Modelling of Aeration Efficiency at Gabion Spillway	Session 11	6:20:00 PM
IM-20-022	Static Pull-in Instability Parameters of Narrow Rectangular Shear Deformable Timoshenko Microbeams	Session 18	9:42:00 AM
IM-20-024	Mechanical properties of nanocrystalline Copper-CNT nanocomposites	Session 18	9:54:00 AM
IM-20-025	A Combined Soft Computing-Mechanics Approach To Detect And Evaluate Damage In RCC BEAM	Session 18	10:06:00 AM
IM-20-026	Stability analysis of dump slope of khadia open-cast mine	Session 18	10:18:00 AM
IM-20-028	Modeling aeration efficiency of Gabion Stepped Weir using Soft Computing techniques	Session 18	10:30:00 AM
IM-20-029	Applying bat algorithm for slope stability analysis	Session 25	12:00:00 PM
IM-20-030	Determination of Minimum FOS And Critical Failure Surface of Soil Slope Using Cultural Optimization Algorithm	Session 25	12:12:00 PM
IM-20-031	Statistics of a Single Particle Stirling Heat Engine	Session 25	12:24:00 PM
IM-20-033	Support vector machines based prediction of elastic modulus for granite rock	Session 25	12:36:00 PM
IM-20-034	Finite Element Modelling of Action Potential Propagation in Cardiac Tissue based on Ion Channel Models at Cell Level	Session 25	12:48:00 PM
IM-20-035	Improved second order bounds on system failure probability	Session 25	1:00:00 PM
IM-20-037	Optimization of Water Distribution Network using Teaching Learning Based Optimization (TLBO) Algorithm	Session 16	10:18:00 AM
IM-20-039	Effect of Marble Powder in Fly ash Based Geopolymer Mortar	Session 34	10:00:00 AM
SM-20-011	On the Sensitivity Analysis of Residually Stressed Constitutive Model	Session 5	2:30:00 PM
SM-20-013	Dynamic Instability of CNT-Reinforced Composite Plate under Non-uniform In-plane Loading	Session 5	2:42:00 PM
SM-20-014	A FEM-Complex Variable Hybrid Approach for 2D Elastostatics	Session 5	2:54:00 PM
SM-20-015	Post-buckling analysis of FG columns based on weak finite element formulation	Session 5	3:06:00 PM
SM-20-016	Free Vibration Analysis of Square Cut-Out Plates Carrying Transverse Mass	Session 5	3:18:00 PM
SM-20-017	Prediction of nonstationary downburst and hurricane wind Field	Session 12	6:20:00 PM
SM-20-018	Effect of Stone-wales defects on elastic moduli of Multi-walled Carbon Nanotubes using nanoscale continuum modeling	Session 12	5:44:00 PM
SM-20-019	Coupled dynamic analysis of Submerged Tension-Leg-Platform combined with heaving wave energy converter	Session 12	5:20:00 PM
SM-20-020	The Static Bending Response of Shear Deformable Isotropic Rectangular Nanobeams under a Linearly Varying Load	Session 12	5:32:00 PM
SM-20-022	Actuator response of a variable stiffness composite laminated plate embedded with a PFRC layer	Session 12	5:56:00 PM
SM-20-023	Design of a Typical Wing for an Unpowered Glider	Session 12	6:08:00 PM
SM-20-025	Damage detection in beam structures using static parameters and Standard Particle Swarm Optimization Technique	Session 5	3:30:00 PM
SM-20-026	Effect of temperature on vibration and buckling of composite laminates with cutouts	Session 19	9:30:00 AM
SM-20-027	SM-20-027-Buckling strength of unperforated and perforated flat oval LDSS slender stub column	Session 19	9:42:00 AM
SM-20-030	Trivariate Model Construction from B-Rep NURBS Geometries for Isogeometric Analysis	Session 19	9:54:00 AM
SM-20-032	Compressive Behavior and Nonlinear Load Carrying Capacity of Multiple-shape Concrete Filled Double-Skin Steel Tubular Columns	Session 19	10:06:00 AM
SM-20-033	On the stress predictions in individual inclusions by pseudodiscretization and pseudo-grain discretization based homogenization	Session 19	10:18:00 AM
SM-20-034	Influence of Weighting Functions and Size of Domain of Influence in Linear Elastic Fracture Mechanics: A Comparative Study between Visibility and Diffraction Methods in EFGM	Session 19	10:30:00 AM

SM-20-035	Free Vibration Analysis of Isotropic and Laminated Composite Plate on Elastic Point Supports using Finite Element Method	Session 26	12:00:00 PM
SM-20-038	Numerical investigation of collapse moment of deformed pipe bends subjected to internal pressure and bending moment	Session 26	12:12:00 PM
SM-20-039	Reduced order model for thermoelastic damping in nonlinear micro/nano resonators	Session 26	12:24:00 PM
SM-20-042	Buckling of functionally graded material plates with cutouts subjected to linearly varying load	Session 33	10:12:00 AM
SM-20-043	Analysis of a double edge cracked circular ring under diametrical compression	Session 28	12:00:00 PM
SM-20-044	Cross-section optimization of I-section composite column for maximum buckling load	Session 28	12:12:00 PM
SM-20-045	Stress behavior of an elasto-plastic ellipsoidal inhomogeneity embedded in an elastic matrix under sinusoidal loading	Session 28	12:24:00 PM
SM-20-046	Stability of CNT reinforced plates under thermal loading	Session 28	12:36:00 PM
SM-20-047	Multiscale Modeling of Parkes Cantilever Beam	Session 28	12:48:00 PM
SM-20-048	Prediction of Elastic Constants of Spiral MWCNT Reinforced Nanocomposites by Finite Element Analysis	Session 28	1:00:00 PM
SM-20-053	Transient response analysis in a cylindrical viscoelastic waveguide using nonlinear model	Session 26	12:48:00 PM
SM-20-055	A numerical approach to model heterogeneity of concrete in RC beam subjected to impact loading.	Session 26	1:00:00 PM
SM-20-057	Analytical solution for buckling of rectangular plate subjected to non-uniform uniaxial compression using FSDT	Session 33	9:36:00 AM
SM-20-058	Remarks on the dynamic response of irregular orthotropic viscoelastic half-space subjected to a moving line load	Session 33	9:48:00 AM
VC-20-002	Effect of floor plan shape on seismic responses of base-isolated buildings	Session 6	2:30:00 PM
VC-20-003	Seismic performance evaluation of step back RC buildings with and without infill walls	Session 6	2:42:00 PM
VC-20-005	Effect of thickness on probabilistic free vibration of hybrid FG-sandwich cylindrical shells	Session 6	2:54:00 PM
VC-20-006	Nonlinear response evaluation of isolated structure	Session 6	3:06:00 PM
VC-20-007	Effectiveness of Tuned Liquid Dampers in Improving Seismic Response of High Rise Reinforced Concrete Buildings	Session 6	3:18:00 PM
VC-20-009	Low-Frequency Noise control in Ducts	Session 6	3:30:00 PM
VC-20-012	Inelastic response of an idealized single storied symmetric structure for the variation of angle of incidence due to NF ground motion	Session 13	5:20:00 PM
VC-20-013	Inelastic seismic response of multi-story R/C structural system due to NF ground motion	Session 13	5:32:00 PM
VC-20-014	Seismic vibration mitigation of damped outrigger structure using a passive damper	Session 13	5:44:00 PM
VC-20-016	Vibration Characteristics of Laminated Composite Folded Plates	Session 13	5:56:00 PM
VC-20-017	Smart damping of rotating functionally graded laminated composite cylindrical shells using 1-3 piezoelectric composite	Session 13	6:08:00 PM
VC-20-019	Free Vibration Response Studies on Krishna Raja Sagar Bridge Mysuru	Session 20	9:30:00 AM
VC-20-021	Dynamic stresses in bridge girder caused by the randomly moving loads	Session 27	12:00:00 PM
VC-20-022	Model based Study of Coupled Plate-String Vibration Related to Stringed Musical Instruments	Session 20	9:42:00 AM
VC-20-023	Detection and identification of a Crack in a Rod based on changes in its Natural Frequencies	Session 20	9:54:00 AM
VC-20-024	Baseline Free Damage localization in beam-like structures using Teager-Kaiser Energy Operator	Session 20	10:06:00 AM
VC-20-028	Seismic Assessment of RC Structure with and without Lateral Load Resisting Members	Session 21	9:30:00 AM
VC-20-030	Dynamic Analysis of Cable-Stayed Bridges under Earthquake Excitations	Session 21	9:42:00 AM
VC-20-031	System Identification for a two wheeler using smartphone	Session 21	9:54:00 AM
VC-20-032	Modelling and analysis of active suspension systems	Session 21	10:06:00 AM
VC-20-033	A comparative study of the effectiveness of vibration and acoustic emission in diagnosing Gearbox faults	Session 20	10:30:00 AM
VC-20-035	Effect of Infill wall on framed building	Session 20	10:18:00 AM
VC-20-036	Structural Damage Quantification Using Flexibility Matrix Based Approach	Session 26	12:36:00 PM
VC-20-037	Flutter reliability analysis of an aircraft wing: a comparative study	Session 21	10:18:00 AM
VC-20-038	Verification of FRF decoupling method for simple coupled systems to determine joint parameter	Session 13	6:20:00 PM
VC-20-039	A compliant mechanism to improve output from piezoelectric harvester	Session 21	10:30:00 AM
VC-20-040	Structural Damage Identification in GFRP Composite Plates using TLBO Algorithm	Session 27	12:24:00 PM
VC-20-041	Dynamic Analysis of Stiffened Curved Plate under Moving Load	Session 27	12:36:00 PM

VC-20-042	Enhancement of Simpler Hysteresis Model with Incorporation of Hardening and Softening Behaviour	Session 27	12:48:00 PM
VC-20-043	Parametric analysis of tapered laminated composite beam in piezoelectric vibration energy harvesting	Session 27	12:12:00 PM
VC-20-045	Nonlinear Analysis of Active Vibration Absorber as a Wearable Rest Tremor Suppression in Parkinson's Disease	Session 27	1:00:00 PM
VC-20-047	Modifications suggested in the forthcoming revision of IS:456-2000 with respect to design of sections in flexure	Session 32	9:24:00 AM
VC-20-049	Mathematical model for Love-type wave propagation in a cylindrical layered structure: An analytical approach	Session 35	10:12:00 AM
VC-20-050	Application of Nonlinear Eigenvalue Solvers for 2D Periodic Structures	Session 34	9:00:00 AM
VC-20-052	Seismic Study on Torsionally Coupled Base Isolated Structure For Different Spectrum Compatible Time Histories	Session 34	9:12:00 AM
VC-20-053	Evolution of the target reliability index in the past two decades	Session 32	9:36:00 AM
VC-20-054	Gamma process model for noise in fatigue crack growth	Session 32	9:48:00 AM
VC-20-055	System reliability and repair strategy based on a new measure of structural robustness against progressive collapse	Session 32	10:00:00 AM
VC-20-056	Stochastic frequency analysis of variable stiffness laminated composite beam	Session 32	9:00:00 AM
VC-20-057	Vibration Control of Duffing Oscillator by Passive and Active Control with Time-delayed Linear and Nonlinear Acceleration Feedback	Session 32	9:12:00 AM
VC-20-058	Wire Arc Additive Manufacturing and Conventional Process for Damper Fabrication: A Pilot Study	Session 35	9:36:00 AM
VC-20-059	A Comparative Study on the Vibration Control of a Bridge under Moving Springing Mass by TMD and TMDI	Session 35	9:48:00 AM
VC-20-061	Design of overhead water tank with floating base for utilization as tuned liquid damper against lateral excitation	Session 35	10:00:00 AM
VC-20-062	Performance assessment of step-back dual systems by UPBD method	Session 34	9:36:00 AM
VC-20-063	Comparative Study on the Effectiveness between Shear Wall and Bracing Systems on High-rise Structures	Session 34	9:24:00 AM
LATE REGISTRATIONS			
IM-20-038	An In-silico Method to Evaluate the Pullout Strength of Cortical Bone Screw Validated with Experiment	Session 36	9:00:00 AM
SM-20-041	1D-Cohesive zone modelling of failure using eXtended element-free Galerkin method	Session 36	9:12:00 AM
FM-20-051	Experimental study on the discharge and sediment sharing at bifurcation channel	Session 14	6:32:00 PM
AM-20-065	Simulation of cyclic mean stress relaxation and ratcheting for aluminium 7050 alloy	Session 36	9:36:00 AM
FM-20-050	A Study of The Flow Behaviour of a Section of Haora River Using CFD	Session 36	9:48:00 AM
AM-20-036	Numerical investigation of load-carrying capacity of Bamboo Reinforced Concrete column under axial compression	Session 36	10:00:00 AM
AM-20-058	Study on punching shear strengthening techniques of bubble deck flat slab	Session 36	10:12:00 AM
AM-20-034	Effect of creep deformations on the performance of geosynthetic reinforced tiered retaining walls	Session 29	10:12:00 AM
FM-20-032	Studying Rivulet flow through small channels	Session 3	10:42:00 AM
FM-20-003	Numerical Investigation of Wall Shear Stress for Different 2-D Train models inside a Tunnel	Session 30	10:12:00 AM