

July 4, 2017 [Day 0] : Registration (4:30PM 7:30 PM) ; Venue: ISH					
July 5, 2017 [Day 1]					
08:00-08:45 AM	Registration ; Venue: ISH				
08:45-09:25 AM	Inauguration Ceremony, Institute Seminar Hall				
09:25-10:05 AM	Prof. RS Alwar Memorial Lecture ( Plenary Lecture-1, Venue: ISH) Prof. KR Rajagopal, Texas A&M University, USA				Session Chair: Prof. KRY Simha
10:05-10:35 AM	High Tea				
10:35-12:15 AM	Session Dedicated to Prof. Y. Nath (Venue: ISH) Keynote 1: Dr. N.E. Prasad, Director, DMSRDE Kanpur Keynote 2: Prof. K Ramesh, IIT Madras Keynote 3: Prof. Sanjeev Khanna, University of Missouri, USA				Session Chair: Prof. C. Lakshmana Rao
	Session 1 (5 parallel Sessions) : 1 invited + 5 contributed				
Oral Presentations 12:15 AM-1:35 PM	Theme: Computational Solid Mechanics Session Chair: Prof. R Rangarajan Venue: ISH	Theme: Impact Mechanics Session Chair: Dr. Vijaybaskar Venue: LHC-1	Theme: Fluid Mechanics +Solid Session Chair: Prof. D Karmakar Venue: LHC-2	Theme: Material Characterization Session Chair: Prof. I V Singh Venue: LHC-3	Theme: Biomedical +Solid Session Chair: Prof. A.D. Bhatt Venue: LHC-4
	62,74,90,173,205	149,129,215,46,36	39, 92,123,264,167	247,304,1,14,293	13,30, 21,78,94
1:35-2:30 PM	Lunch Break				
2:30-3:30 PM	Keynote 4: Prof. Ishan Sharma, IIT Kanpur (Venue: ISH) Keynote 5: Prof. BSVP Patnaik, IIT Madras (Venue: ISH)				Session Chair: Prof. P Venkitanarayanan
	Session 2 (5 parallel Sessions) : 1 invited + 8 contributed				
Oral Presentations 3:30 – 5:50 PM	Theme: In the Memory of Prof. Y.Nath Session Chair: Prof. Sandeep Kumar Venue: ISH	Theme: Impact Mechanics Session Chair: Prof. Sanjeev Khanna Venue: LHC-1	Theme: CFD Session Chair: Prof. BSVP Patnaik Venue: LHC-2	Theme: Dynamics of Structures Session Chair: Dr. Ramkrishna Dinavahi Venue: LHC-3	Theme: Interdisciplinary Session Chair: Prof. A.K. Sachan Venue: LHC-4
	201,22,96,100,174,326,327,266,175	178,181,183,187,151,233, 29,155,16	69,125,318,63,73,88,103,106,239	7,25,56,72,91,102,115,246	8,148,156,159,164,171,249,166,43
6:00 – 7:00 PM	Group Photo Session				
7:00 – 8:00 PM	Cultural Programme [Venue: Institute Seminar Hall]				
8:00 PM	Banquet Dinner [Venue: Institute Seminar Hall Lawn]				

**ISH: Institute Seminar Hall; LHC: Lecture Hall Complex**

**July 6, 2017 [Day 2]**

09:00-09:40 AM	Plenary Lecture-2; (Venue: ISH) Prof. K Murlidhar, IIT Kanpur				Session Chair: Prof. S.V. Veeravalli
09:40-10:50 AM	Keynote 6: Prof. Ram V. Mohan, North Carolina A&T State University ; (Venue: ISH) Keynote 7: Prof. S.V. Veeravalli ; (Venue: ISH)				Session Chair: Prof. Sanjeev Khanna
10:50-11:10 AM	Tea Break				
	Session 3 (5 parallel Sessions) : 1 invited + 8 contributed				
Oral Presentations 11:10 AM-1:30 PM	Theme: Damage Mechanics/ Plasticity Session Chair: Prof. Pritam Chakratorthy Venue: ISH	Theme: Computational Solid Mechanics Session Chair: Prof. Prashant Sexena Venue: LHC-1	Theme: Beam, Plate and Shell Session Chair: Prof. B.N. Singh Venue: LHC-2	Theme: Fracture Session Chair: Prof. Rajiv Sharma Venue: LHC-3	Theme: Material Characterization Session Chair: Prof. P. Ramkumar Venue: LHC-4
	170,190,251,20,206, 254,81,28,86	307,309,310,9,27, 32,67,38,95	199,230,273,19,60, 77,99,116	114,130,268,280,308, 316,33,44,57	48,121,105,179,180, 228,261,315,23
1:30-2:30 PM	Lunch Break				
	Session 4 (5 parallel Sessions) : 1 invited + 8 contributed				
Oral Presentations 2:30 – 4:50 PM	Theme: Fluid Mechanics/ CFD Session Chair: Prof. Sawan S. Sinha Venue: ISH	Theme: Composite Structures Session Chair: Prof. V. Chinthapenta Venue: LHC-1	Theme: Design Session Chair: Prof. Akhilendra P. Singh Venue: LHC-2	Theme: Material Characterization Session Chair: Prof. Avinash Parashar Venue: LHC-3	Theme: Dynamics of Structures Session Chair: Prof. Suhasini Madhekar Venue: LHC-4
	300,245,134,204,158, 209,248,184	278,311,140, 313,191,252, 262, 267,	234,320,52,139,163, 182,276,104,144	24,42,51,188,198, 250,286,305,297	133,231,292,317,322, 18,117,122,271
04:50-05:20 PM	Tea Break				
05:20-06:20 PM	Poster Session (Venue: Design Centre)				
06:20 PM Onwards	General Body meeting of ISAM, Institute Seminar Hall				

**July 7, 2017 [Day 3]**

06:30-08:00 AM	<b>Sangam Visit</b>				
09:00-09:40 AM	<b>Plenary Lecture-3 (Venue: ISH) Prof. S. Radhakrishnan, IIT Madras</b>			<b>Session Chair: Prof. B.P. Patel</b>	
	<b>Session 5 (5 parallel Sessions) : 1 invited + 8 contributed</b>				
<b>Oral Presentations</b>  09:40-12:00 Noon	<b>Theme: Fracture</b> Session Chair: Prof. Rajesh Kitey <b>Venue: ISH</b>	<b>Theme: Impact Mechanics</b> Session Chair: Dr. Rajneesh Sharma <b>Venue: LHC-1</b>	<b>Theme: Beam, Plate and Shell</b> Session Chair: Dr. Basant Kumar <b>Venue: LHC-2</b>	<b>Theme: Computational Solid Mechanics</b> Session Chair: Prof. Shantanu Mulay <b>Venue: LHC-3</b>	<b>Theme: Bio-Medical</b> Session Chair: Prof. SKM Varadhan <b>Venue: LHC-4</b>
	138,176,186,207,258, 277,289,302,312	68,83,118,157, 161,177,192,287	142,145,162,168,202, 185,55,189,243	227,314,37,79,296 89,137,169,196	35,232,270,213, 220,223,101,237
12:00-12:15 PM	<b>Tea Break</b>				
	<b>Session 6 (5 parallel Sessions) : 1 invited + 6 contributed</b>				
<b>Oral Presentations</b>  12:15 -02:05 PM	<b>Theme: Experimental mechanics + Dynamics of Structures + Fracture</b> Session Chair: Prof. S. Pradyumna <b>Venue: ISH</b>	<b>Theme: Interdisciplinary</b> Session Chair: Prof. Pronab Roy <b>Venue: LHC-1</b>	<b>Theme: Material Characterization + Design</b> Session Chair: Dr. Vijaybaskar <b>Venue: LHC-2</b>	<b>Theme: Computational Solid Mechanics + Beam, Plate and Shell + Design</b> Session Chair: Dr. R. Suresh Kumar <b>Venue: LHC-3</b>	<b>Theme: CFD + Interdisciplinary</b> Session Chair: TBD <b>Venue: LHC-4</b>
	87,120,260,282, 31,294,203	80,214,242,195, 274,256,244	210,253,34,84, 26,53,82,236	325,132,324,131, 71,41,54	298,301,124,112, 76,197,279,
02:05-03:00 PM	<b>Lunch Break</b>				
03:00-04:00 PM	<b>Valedictory Function</b>				

<b>T1-1</b>	<b>Theme: Computational Solid Mechanics</b> <b>Session Chair: Prof. R Rangarajan</b>
<b>205</b>	Provably robust algorithms for simulating free and moving boundary problems. <i>Ramsharan Rangarajan</i>
<b>62</b>	Vibration analysis of spherical shell with cutout using TSDT. <i>Abhay Chaubey and Ajay Kumar.</i>
<b>74</b>	Numerical simulation of interfacial crack propagation in bimetallic welded joints using XFEM. <i>Sandeep Jose, Lakshmana Rao C, Sai Deepak N, Krishnan S A and G Sasikala.</i>
<b>90</b>	Numerical Solution for Crack Inclusion Interaction Using Linear Eigenstrain. <i>Arun Agrawal and P Venkitanarayanan.</i>
<b>173</b>	Simulation of Whole Field Isochromatics of Contact Zones Involving Conformal Geometries Using Complex Potential Approach. <i>Hariprasad M P, Prabhune Bhagyashree Chandrakantant and Ramesh Krishnamurthi.</i>
<b>T1-2</b>	<b>Theme: Impact Mechanics</b> <b>Session Chair: Dr. Vijaybaskar</b>
<b>36</b>	Development of deformable members for frontal collision. <i>Janardhan Reddy T, Vijayabaskar Narayanamurthy and Venkata Daseswara Rao Yvd.</i>
<b>149</b>	Energy absorption characteristics of perforated stubby shells under axial impact loading. <i>Ravi Sankar Haridas and Venkitanarayanan Parameswaran.</i>
<b>129</b>	Load sequence effect on the damage progression of impacted quasi-isotropic CFRP laminates under variable amplitude loading. <i>Mathew John and Raghu V. Prakash.</i>
<b>215</b>	Role of microstructure in the electromechanical response of conducting polyaniline composites under dynamic deformation. <i>Indu Chanchal Polpaya, C. Lakshmana Rao and Susy Varughese.</i>
<b>46</b>	Impact Analysis of Offshore Tubular Member Using Fem. <i>Swathy Raj S and Rajesh P.Nair.</i>
<b>T1-3</b>	<b>Theme: Fluid Mechanics+Solid</b> <b>Session Chair: Prof. D Karmakar</b>
<b>167</b>	Hydrodynamic analysis of Oscillating Water Column wave energy converter with breakwater. <i>Sheba N. Rajan and Debabrata Karmakar.</i>

92	Characterization of Two Stream Diffusers and Its Effect on Flow Structure. <i>Lakhan Panchabudhe, S Manoj Prabakar and Dr T. M Muruganandam.</i>
123	Dissipative particle dynamics simulation of red blood cell motion in a micro channel. <i>Sazid Zamal Hoque, D. Vijay Anand and B.S.V. Patnaik.</i>
264	Interference of slender structure at first critical speed. <i>Pawan Kumar Tiwari, Rishav Rajora, Srinivas V Veeravalli and Murali R. Cholemani.</i>
39	Volumetric locking free 3D finite element for nearly incompressible hyperelastic solids. <i>Ashutosh Bijalwan and B. P. Patel.</i>
T1-4	<b>Theme: Material Characterization</b> <b>Session Chair: Prof. I V Singh</b>
293	Effect of tempering temperature on mechanical properties of P91 steel. <i>Sanjay Singh Samant, Indra Vir Singh and Ram Niwas Singh.</i>
304	Damage Location in Plate Structure with Curvature Mode shape Based Damage Indices. <i>Vaishali Dawari, Rahul Deshpande and Gaurang Vesmawala.</i>
1	Flow and Fracture Behavior of Mild Steel and ArmoX 500T Steel. <i>Senthil Kasilingam, Iqbal Mohd. Ashraf and Gupta Narinder Kumar.</i>
14	Fracture simulations in Quasi Brittle Materials using Virtual Internal Bond Model. <i>Sudhindra Jalwadi, Mandar Shinde and Tanmay Bhandakkar.</i>
247	Predictive Modeling of Rubber-Oil Toughened Epoxy Resin Using FEM. <i>Dheeraj Gunwant, M. G. H. Zaidi and P. L. Sah.</i>
T1-5	<b>Theme: Bio-Medical+Solid</b> <b>Session Chair: Prof. A.D. Bhatt</b>
13	Exploration of UT-FIS integrated Taguchi approach for Multi-response Optimization in machining of GFRP Composites materials. <i>Rajesh Kumar Verma, Pradip Kumar Pal and Kumar Abhishek.</i>
30	Blast Loading on Cylindrical Tube: Experiment, Theory and Computation. <i>Anil Kumar Upadhyay, C Ramdasu and Kry Simha.</i>
21	Experimental Study of Brain Dynamic Activation While Solving Mathematical Problems. <i>Prahlad Rao Kalyanrao, Mukhtar Alansar, Saleh Alzharani, Mohamed Hassnein and Ahmed Almajdoua.</i>

78	Development of a portable, low-cost, hypoxia chamber for simulating hypoxic environments. <i>Shivanjali Saxena and Sushmita Jha.</i>
94	Biomechanical Analysis of Human Brain using Finite Element Analysis. <i>Bismi R and Nandakumar C.G.</i>
T2-1	<b>Theme: In the Memory of Prof. Y.Nath</b> <b>Session Chair: Prof. Sandeep Kumar</b>
201	Wavelet Based Finite Element Simulation of Guided Waves Containing Harmonics. <i>Ambuj Sharma, Kumar Kaushik Ranjan, Sandeep Kumar and Amit Tyagi.</i>
22	Finite Element Formulation for Second-order Strain Gradient Nonlocal Plates. <i>Bishweshwar Babu and B.P. Patel.</i>
96	New Model for Static and Buckling analysis of 3D Braided Composite Plates. <i>Durgesh Bahadur Singh and Bhrigu Nath Singh.</i>
100	Comparison of modal parameters of free-free shell using various models considering slenderness ratio. <i>N.V. Malleswara Rao, Sanjay A. Khalane and C. Lakshmana Rao.</i>
174	Thermally Induced Vibration Analysis of Functional Graded Sandwich Beams. <i>Shashank Pandey and S. Pradyumna.</i>
326	Development of Analytical Model for the Fracture Behaviour of Hybrid Fiber Reinforced Concrete. <i>S.M. Ibrahim.</i>
327	Investigation on Heat Transfer and Fluid Flow Characteristics in Tube Heat Exchanger with Helically Twisted Tape Insert. <i>Satyendra Singh, Alok Kumar.</i>
266	Dynamic Analysis of Functionally Graded Curved Sandwich Panels. <i>Tarun ., Rajendra Bahadur, Ashutosh K. Upadhyay and K.K. Shukla.</i>
175	Static Analysis of Thin Walled Sandwich Composite Box Beam. <i>Tushar Sharma, V Murari and K.K. Shukla.</i>
T2-2	<b>Theme: Impact Mechanics</b> <b>Session Chair: Prof. Sanjeev Khanna</b>
181	Response of Polyurea Coated Steel V Plates Under Blast Loads. <i>Agesh Markose, Nivin V, Srinivas K and Lakshman Rao C.</i>

183	Prediction of displacements, stresses and voltages due to fluid impact on forehead during Shirodhara treatment. <i>M Swathika, Chebolu Lakshmana Rao and Venkatesh Balasubramanian.</i>
187	Effect of obliquity on ballistic impact response of plain woven fabric. <i>Kuldeep Yadav, A.K. Upadhyay and K.K. Shukla.</i>
233	Experimental investigation of Normal impact of blunt projectile on PC plate. <i>Afsar Husain, Arshad Hussain Khan and Raisuddin Ansari.</i>
178	Effect of Grain Refinement on Tensile and Fracture Behaviour of ZE41 Alloy. <i>Raviraj Verma, R. Jayaganthan and Sumeer K. Nath.</i>
29	Debris Impact Penetration through Spacecraft Honeycomb Sandwich Panel. <i>Rajeev Chaturvedi, Dr Manish Trikha and Dr K R Y Simha.</i>
16	Positive phase blast effects on base isolated structures. <i>Mohd Zain Kangda and Sachin Bakre.</i>
155	Filler shape and volume fraction effect on dynamic compression behavior of glass filler reinforced epoxy composites. <i>Sarthak S. Singh, Rajesh Kitey and P Venkitnarayanan.</i>
151	High velocity impact response of fiber metal laminates. <i>Ankush Sharma and Parameswaran Venkitanarayanan.</i>
T2-3	<b>Theme: CFD</b> <b>Session Chair: Prof. BSVP Patnaik</b>
69	Effect of increase in expansion ratio on CRZ in a swirling coaxial jets. <i>Abhishek Shrivastava, Maniraj Singh and Vivek Kumar Patel.</i>
125	Comparative study of using various RANS models for drag reduction in turbulent channel flows using shear-free surfaces. <i>Ajay Sood, Murali Cholevari and Balaji Srinivasan.</i>
239	CFD Analysis of the Swirl Decay in Circular Pipe with Twisted Tape Inserts. <i>Prashant Sharma, Vinay Chandra Joshi, Umesh Kumar and Vivek Kumar Patel.</i>
318	Wave-Drag Attenuation over Conical-Spiked, Flat Faced Aero-disk and Hemispherical Aero-disk. <i>Gaurav Jaiswal and Mrinal Kaushik.</i>
63	Analysis of Heat Transfer Characteristic of a Solar Air Heater with Artificial Roughness on Absorber Plate Using CFD. <i>Yatish Kumar Baghel and Vivek Kumar Patel.</i>

73	Development of Coupled Cfd and Structural Dynamics Simulation Module for Flexible Parachutes. <i>Vipin Kumar, Ravi Krishna, Sudhakar Prasad, Mahendra Pratap, S D. Chakraborty, Sandeep S. and Sumit Ja</i>
88	External Flow Analysis of Unmanned Small Airship using CFD (Computational Fluid Dynamics). <i>Gunjan Kumari, Puneet Gupta and Rajeev Jain.</i>
103	Computational Study on Effect of Upstream Swirl Induction on Erosion in Pneumatic Conveying Pipe line bend. <i>Sandeep Kumar Shah and Vivek Kumar Patel.</i>
106	FVM Simulation of an Incompressible Flow in a Lid Driven Cavity Using SIMPLE Algorithm. <i>Vasu B, Shalini Singh and Prasad V R.</i>
T2-4	<b>Theme: Dynamics of Structures</b> <b>Session Chair: Dr. Ramkrishna Dinavahi</b>
7	Time Domain Input Identification in Vibration Testing of Flexible Structures. <i>Swapna Jandhyala and Ramkrishna Dinavahi.</i>
25	Free Vibration Analysis of Stiffened Lock Gate Structure Coupled with Fluid. <i>Deepak Singh, Shashi Duggal and Priyaranjan Pal.</i>
56	Effect of base Acceleration on a Cantilever Energy Harvester. <i>Manoj K, S Korla and Vijayabaskar Narayanamurthy.</i>
72	Seismic Response of a RCC building with Lead Extrusion Dampers. <i>Sakshi Arora, Atulkumar Manchalwar and Sachin Bakre.</i>
91	A mathematical model for predicting 2 DOF vortex-induced vibrations. <i>Sudarsan Srinivasan, V.D. Narasimhamurthy and B.S.V. Patnaik.</i>
102	Comparison of Explicit Time Integration Schemes for Dynamic Problems. <i>Shriram R. Ashirgade, Ayush Jhalani and Sachin Gautam.</i>
115	Assessment of Seismic Demand Estimated by Various DDBD Approaches. <i>Onkar Kumbhar, Sourabh Kriplani and Ratnesh Kumar.</i>
246	Slosh behavior of water pool under seismic event. <i>Abhishek Upadhyay, Rohit Vadigoppula, Aniket Varshney, Bhushan Warang and Binu Kumar.</i>



<b>T2-5</b>	<b>Theme: Interdisciplinary Session Chair: Prof. A.K. Sachan</b>
<b>8</b>	Thermal Modelling and Heat Management in Reserve Lithium Thermal Batteries. <i>Sanjay Biswas, Nihal K. Goud and Vinnakota S. Gopalam.</i>
<b>148</b>	Effect of Corrosion on the Residual Strength of RC Column. <i>Tushar Diyora, H.K.munot, C.D.Modhera and R.V.Patil.</i>
<b>156</b>	Ferrocement $\text{-}\emptyset$ Beam: A light weight substitute to Conventional Reinforced Concrete Beam. <i>Madhukar Wakchaure, Sunil Kute, Avinash Navale and Balasaheb Gite.</i>
<b>159</b>	Finite Element Analysis of Vehicle Pavement Interaction based on Static and Transient Dynamic loading. <i>Arijit Kumar Banerji, Pijush Topdar and Alope K Datta.</i>
<b>164</b>	Wave interaction with submerged rectangular porous structure in the presence of impermeable wall. Venkateswarlu V and Debabrata Karmakar.
<b>171</b>	Effect of Concrete Cover on Crack Width due To Corrosion. <i>Rahul Patil, H.K.Munot, Dr.P.P.Deshpande, T.A.Diyora.</i>
<b>249</b>	FEM simulation of weld pool of SS316 $\sigma$ SS316 butt joint and its comparison with experimental results. <i>Rahul Saxena, Akhilesh K. Karnewar, Vinod Parashar and T. A. Puntambekar.</i>
<b>166</b>	Dynamic analysis of different types of spar and semi-submersible offshore floating wind turbines. <i>Akhila Dharanikota and Debabrata Karmakar.</i>
<b>43</b>	Fluid viscous dampers for structural response control. <i>Gaurav Gurbani, Atulkumar Manchalwar and Sachin Bakre.</i>
<b>T3-1</b>	<b>Theme: Damage Mechanics/ Plasticity Session Chair: Prof. Pritam Chakraborty</b>
<b>86</b>	Crystal Plasticity Based Creep Model for Nickel Based Super-Alloys at Polycrystalline Length-Scale. <i>Pritam Chakraborty and Wen Jiang.</i>
<b>170</b>	Simulation of effect of friction at the tool interface in Orthogonal Metal Cutting using Continuum Damage Mechanics (CDM) Model. <i>Manoj Kumar, Janmeet Singh Manku and P M Dixit.</i>
<b>190</b>	Numerical Investigation of Ductile Damage in a Similar Weld Joint. <i>Namburu Sai Deepak, Chebolu Lakshmana Rao, G Sasikala, V Raghu Prakash and S Athimoola Krishnan.</i>

251	Effect of Projectile shape of Ballistic Impact using Continuum Damage Mechanics (CDM) Model. <i>Manoj Kumar, Utkarsh Deep and P M Dixit.</i>
20	Plastic General Instability Analysis of Deep Sea Water Pressure Casing. <i>Nitinkumar Singh Rajput, Bhaskaran Pranesh, Dharmaraj Sathianarayanan and Gidugu Ananda Ramdass.</i>
206	Influence of Strength Mismatch Ratio on Plastic Factor for Fracture Toughness Evaluation Using Compact Tension Geometry. <i>R Nikhil, S A Krishnan, G Sasikala and S K Albert.</i>
254	Estimating Conical Indentation Load by Numerical Slip-Line Field Technique. <i>Arup Biswas, Santanu Das and Sanjoy Das.</i>
81	Viscoplastic Material Model for Stainless Steel in ANSYS. <i>Ajit Patil and Balkrishna Dawari.</i>
28	Size Effects in Plasticity. <i>Saurabh Shukla and Prabhat K. Agnihotri.</i>
T3-2	<b>Theme: Computational Solid Mechanics</b> <b>Session Chair: Prof. Prashant Sexena</b>
32	Limit points in the free inflation of an isotropic incompressible magnetoelastic toroidal membrane. <i>Narravula Harshavardhan Reddy and Prashant Saxena.</i>
307	An Abaqus implementation of the smoothed finite element method. <i>Pramod Kumbhar, Amrita Francis, Sundararajan Natarajan and Ratna Kumar Annabattula.</i>
309	Volume-averaged nodal projection method for nearly incompressible elasticity using arbitrary polytopes. <i>Amrita Francis, Sundararajan Natarajan, Alejandro Ortiz-Bernardin and Stephane Bordas.</i>
310	Scaled boundary finite element method for nearly incompressible bounded media in statics. <i>L N Pramod Aladurthi, Sundararajan Natarajan and Ean Tat Ooi.</i>
9	Postbuckling Response of Graphene Sheets using Atomistic-Continuum Coupled Multiscale Modelling. <i>Sandeep Singh and B.P. Patel.</i>
27	A parametric study on corrugated sheets using FEM. <i>Lalit Kumar Sharma, Amit Kumar Gorai, Shashi Duggal and Priyaranjan Pal.</i>
67	Structural Analysis of Concrete Bunkers. <i>Athira T V and Rajesh P Nair.</i>
38	Buckling studies of pressurised slanted cone for 4T class Launch Vehicle. <i>Durgesh Bahadur Singh, Resmi Ss and Sirajudeen Ahamed.</i>

95	Finite Element Analysis of Pallet Structure of Heavy Drop System ó 16T. <i>Manohar Singh Jagat, B K Singh, R K Sharma and A K Saxena.</i>
T3-3	<b>Theme: Beam, Plate and Shell</b> <b>Session Chair: Prof. B.N. Singh</b>
273	Finite Element Analysis of Functionally Graded Plates with Various Boundaries by Mixed Formulation Approach. <i>Kamlesh Kulkarni, Bhriugu Nath Singh and Dipak Kumar Maiti.</i>
199	Free Vibration Analysis of Piezoelectric Plate using Mixed-field Extended Kantorovich Method. <i>Susanta Behera and Poonam Kumari.</i>
230	A Zigzag Theory Based Quadrilateral Element For Free Vibration Analysis of Delaminated Composite Plates. <i>Adnan Ahmed and Santosh Kapuria.</i>
19	On The Importance of Elementary Beam Theory for Analysis of Thick Isotropic Shear Deformable Beams. <i>Kedar Pakhare and Ramesh Chandra Shimpi.</i>
60	A Study on Large Deflection of a Cantilever Beam. <i>Deepak Singhal, Vijayabaskar Narayanamurthy and Subramani Gopinath.</i>
77	Thermo-mechanical analysis of anti-symmetric angle-ply laminated plates using secant function based shear deformation theory. <i>Y. S. Joshan, A. Soni, Neeraj Grover, Gagandeep Bhardwaj</i>
99	Analysis of Functionally Graded Cylindrical Shells. <i>Suhas Malave, S. D. Kulkarni and R. B Dahale</i>
116	Vibration Control of a GFRP beam with Shape Memory Alloys. <i>Srinivasa Prasad K S, Hitaishi Tarafdar, Cyril Cheeran, Amaraneni Siddarth and Girish Pawar.</i>
T3-4	<b>Theme: Fracture</b> <b>Session Chair: Prof. Rajiv Sharma</b>
316	A computational model for assessment and comparison of VIV induced fatigue damage on marine riser in current dominated locations. <i>C. Pallan and R. Sharma.</i>
114	Structure, stiffness and fracture toughness of a species of bamboo. <i>Sayyad Mannan, Sumit Basu and Venkitanarayanan Parameswaran.</i>
130	Numerical study of dynamic crack propagation in brittle solids using Peridynamics. <i>Siva Prasad A V S.</i>
268	Fracture Modeling of Concrete Using Cohesive Zone Method. <i>Rajneesh Sharma and Puneet Mahajan.</i>

280	Fatigue Crack Growth Simulation of FGMs by Bézier Extraction based T-spline XIGA. <i>Sunil Singh, Indravir Singh, Bhanu Mishra and Gagandeep Bhardwaj.</i>
308	FEniCS implementation of phase-field method for brittle fracture. <i>Hirshikesh ., Sundararajan Natarajan and Ratna Kumar Annabattula.</i>
33	Experimental analysis of a crack perpendicular to and terminating at the bimaterial interface under mixed mode loading. <i>A. Vivekanandan and K. Ramesh.</i>
44	Fatigue crack growth retardation in Titanium (Ti-2.77Sn-0.48Cu-1.15Fe-6.61V) alloy. <i>Sachin Biradar, Jyoti Jha, Asim Tewari and Sushil Mishra.</i>
57	Elliptical Compressive Fracture Specimen. <i>Simant Saroha, Piyush Wanchoo and K R Y Simha.</i>
T3-5	<b>Theme: Material Characterization</b> <b>Session Chair: Prof. P. Ramkumar</b>
315	Effect of Soot on Tribological Properties of Steel and Ceramic Contacts. <i>Yadvendra Kaushik and Ramkumar P.</i>
48	Mechanical Modeling of 3D Printed Specimen. <i>Hemanth B R, Siddharth Jain, A.Sekar S.Sundaram, S.S Kumar, V.K.Hariharan and Rajeev Chaturvedi.</i>
121	The study of physical and mechanical behaviour of titanium metal powder reinforced Al7075 alloy composites for gear materials. <i>Ashiwani Kumar, Amar Patnaik and I.K Bhat.</i>
105	High pressure compression in semiconductors using equations of state. <i>Monika Goyal.</i>
179	Controlled Synthesis of WO <sub>3</sub> Nanorods and Nanosheets as an Efficient Photocatalyst Material for the Degradation of Organic Dye under UV Irradiation. <i>Bilal Ahmed, Arvind Singh, Sumeet Kumar and Animesh K Ojha.</i>
180	Cyclic electromechanical response of PVDF. <i>Harish Lambadi and Lakshmana Rao Chebolu.</i>
228	Effect of hydrogenation on mechanical and fracture properties of Graphene. <i>Akarsh Verma and Avinash Parashar.</i>
261	AHP based TOPSIS and VIKOR analysis for selection of EM wave absorbers at X-band. <i>Samarjit Singh, Ankur Sinha, Raj Hemant Zunke, Abhishek Kumar and I.K. Bhat.</i>
23	Removal of alpha-case layer from heat treated Ti-6Al-4V. <i>Nikita Mohite, Jyoti Jha, Asim Tewari and Sushil Mishra.</i>

<b>T4-1</b>	<b>Theme: Fluid Mechanics/ CFD</b> <b>Session Chair: Prof. Sawan S Sinha</b>
<b>300</b>	Pressure Variation due to Harbour Walls Integrated with Oscillating Water Column Exposed to Random Waves. <i>Daniel Raj David, Sundar Vallam and Sannasiraj Sannasi Annamalaisamy.</i>
<b>245</b>	Optimisation of Pump Intake Structure with Multiple Vertical Pumps. <i>Ravi Narendrabhai Makadiya, Satish S. Jadhav, R. S. Kushwaha and Vivek Patel.</i>
<b>134</b>	Flow and heat transfer characteristics of laminar confined twin slot impinging jet flow over moving flat surface. <i>Sushil Kumar Rathore, Gyanendra Kumar, Rahul Verma and Ranjeet Kumar.</i>
<b>204</b>	Computational Investigation of Rayleigh-Bénard Convection in Viscoplastic Fluid. <i>Nitin Kukreja, Mehtab Alam and Prashant Kumar Dixit.</i>
<b>158</b>	Design and Performance of Modified Cone Flowmeter. <i>Prem Kumar and V.K. Patel.</i>
<b>209</b>	Numerical simulation of single bridge pier using OpenFOAM to evaluate effect of pier shape on scouring depth. <i>Gouri Kadam and Balkrishna Dawari</i>
<b>184</b>	CFD Approach for Analyzing the Effects of Rotor Stator-Interaction in a 3MW Mixed Flow Prototype Francis Turbine. <i>Gyanendra Tiwari, Vivek Kumar Patel and Vishnu Prasad Patidar.</i>
<b>248</b>	Numerical Investigation on Critical Velocity of Ice Slurry Flow in Horizontal Pipe. <i>K. S. Rawat and A. K. Pratihari.</i>
<b>T4-2</b>	<b>Theme: Composite Structures</b> <b>Session Chair: Prof. V. Chinthapenta</b>
<b>313</b>	HFGMC Analysis in Single Fiber Composite. <i>Pankaj Pandya and Viswanath Chinthapenta.</i>
<b>262</b>	Free Vibration of CNT Reinforced Skew Composite Plates: FE Analysis. <i>Anindya Bhar and Ashish K. Singh.</i>
<b>278</b>	Failure analysis of laminated composite using FE-based phase field method. <i>Roshan Patil, Bhanu Mishra and Indravir Singh.</i>
<b>311</b>	Microstructure Based Thermal Properties of 3D C/C COMPOSITE. <i>S Naidu Velagala, Rajneesh Sharma, Atul Ramesh Bhagat and Puneet Mahajan.</i>
<b>267</b>	Static Analysis of Functionally Graded Curved Sandwich Panel on Rectangular plan-form. <i>Sudhir Kumar Singh, Rajendra Bahadur, Ashutosh K. Upadhyay and K.K. Shukla.</i>

140	Effect of CNT Grafting on the interlaminar shear strength of carbon fiber/epoxy composite. <i>Sorab Khan and Prabhat K Agnihotri.</i>
191	Analysis of Thin walled composite box beam with and without Piezoelectric actuators using ABAQUS. <i>Aman Khurana, Tushar Sharma, and K K Shukla.</i>
252	Comparative study of delamination behavior of multidirectional Carbon Epoxy laminate. <i>Nagendranath Atreyapurapu, Dr Rajesh Kumar Gupta and Prof Lakshmana Rao C.</i>
T4-3	<b>Theme: Design</b> <b>Session Chair: Prof. Akhilendra P. Singh</b>
139	Design & Fabrication of Non-rigid Remote Controlled Airship. <i>Pradeep Karn, Sawan Sinha and Balaji Srinivasan.</i>
234	Review and Design of Cryogenic Transfer Lines for Tokamak. <i>Mritunjay Sharma, Nikhil Mudgal, Ravi Yadav and Bhagwat Singh Shishoda.</i>
320	Analysis of the inverse kinematics for 5 DOF robot arm using D-H parameters. <i>Apurva Patil, Maithilee Kulkarni and Ashay Aswale.</i>
52	Serviceability Limit States Indicators for Beams: A Reliability Based Approach. <i>Anadee Kulkarni and Debarati Datta.</i>
163	Development of Lower Shroud Structure for Launch Vehicle-Design and Validation. <i>Phani Charan Nidamarthi.</i>
182	Preform Map for Net Shape Upsetting of Copper and its Experimental Verification. <i>Kk Pathak, Kuldeep S. Parihar, Rajeev Arya.</i>
276	Stress intensity factor of spinning center-cracked Brazilian disk. <i>Vara Naga Surendra Kamadi and Aditya Pratap Singh.</i>
104	An Assessment of service life of Solid Rocket motor through Accelerating ageing. <i>Nomesh Kumar, Badri Prasad Patel, Vemana Venkateswara Rao and B. S. Subhashchandran.</i>
144	Performance Analysis of 3 DOF Writing robotic arm and reduction of working errors. <i>Zeeshan Ul Islam, Vinay Deshmukh, Sushrut Dange, Mangesh Kotambkar and Nitish Sinha.</i>
T4-4	<b>Theme: Material Characterization</b> <b>Session Chair: Prof. Avinash Parashar</b>
305	MD based simulations to study tilt grain boundaries in niobium. <i>Divya Singh and Avinash Parashar.</i>

24	Investigations on Mechanical and Physical Characteristics of Marble Dust Reinforced Al 6061 MMC. <i>Manish Prakash, Mukesh Kumar, Ashiwani Kumar, S. S. Banwait.</i>
42	Friction Characterization and Microstructural Evolution of Ti-6Al-4V during Hot Working. <i>Vaibhav Bhavsar, Nikhil Gotawala, Jyoti Jha, Asim Tewari and Sushil Mishra.</i>
51	Effect of Thermomechanical Processing on Microstructure of Titanium alloy Ti-6Al-4V. <i>Nikita Sonar, Jyoti Jha, Sushil Mishra, Asim Tewari and Jyoti Menghani.</i>
188	Study of Mechanical Characteristics of Sintered Preforms at Varying Strain Rates During Slow Speed Forming Process. <i>Atul Pandey, Dr Piyush Singhal, Ashish Sharma and Dr.R.K. Ranjan.</i>
198	Pseudoelastic effect of Shape Memory Alloys: constitutive modeling and parametric study. <i>Thamaraiselvi K and Gopalakrishnan N.</i>
250	Structural and magnetic properties of nickel doped spinal ferrite Ni(1-x)ZnxFe2O4 using both sol-gel auto-combustion and hydrothermal methods. <i>Abhishek, Deepak Singh, Ankur Sinha, Deepak Sachan, Anisha, Ankur Vishal and Deepak Kumar.</i>
297	Mechanical Properties of Amine Functionalized Graphene using MD Simulation. <i>Pradeep Singh, Pankaj Sonia, Amit Kumar, Anurag Yadav and Kamal Sharma.</i>
286	Characterization of spray formed Al-Si-Pb Alloys. <i>Sandeep Kumar, Aruna Tomar and Devendra Singh.</i>
T4-5	<b>Theme: Dynamics of Structures</b> <b>Session Chair: Prof. Suhasini Madhekar</b>
317	Seismic Response Control of Building installed with Magnetorheological Damper. <i>Suhasini Madhekar and Rohan Karande.</i>
133	Parameter Identification of Frame Structure by Noisy Limited Static Strain Data. <i>Tanvir Sohail, Sumit Saha and Dr. Debasish Bandyopadhyay.</i>
231	Effect of Soil Flexibility on the Seismic Performance of RCC buildings. <i>Shashank Saxena, Shashank Shekher Singh, Shailendra Kumar, Anurag Kumar, Praveen Kumar Gupta and Goutam Ghosh.</i>
292	Dynamic Response of RC Framed Buildings on Sloping Terrain. <i>Malsawm Dawngliana and Babita Saini.</i>
322	Investigation on Gas Turbine Rotor subjected to Base Excitation. <i>Tushal Verma and Skylab P. Bhoire.</i>
18	Use of rubber shock absorber to mitigate the effect of seismic pounding. <i>Dr. Nilesh Mate, Dr. Sachin Bakre and Dr. Omprakash Jaiswal.</i>
117	Response Reduction Factor for RCC Frame with Viscous Damper. <i>Akash Waghmare and Rajendra Joshi.</i>
122	Comparison of Implicit Time Integration Schemes for Dynamic Problems. <i>Ayush Jhalani, Shriram R. Ashirgade and Sachin S. Gautam.</i>



271	Wind-induced higher mode response of tall slender structures. <i>Rishav Rajora, Srinivas V Veeravalli and Suhail Ahmad.</i>
<b>T5-1</b>	<b>Theme: Fracture</b> <b>Session Chair: Prof. Rajesh Kitey</b>
207	Effect of filler shape, volume fraction and post curing temperature on the fracture behavior of glass-filled epoxy particulate composites. <i>Kathiresan K and Rajesh Kitey.</i>
138	Theoretical Study on the Path Independent Behaviour of J-integral Evaluated from Displacement Data. <i>Subramanyam Reddy and Ramesh Krishnamurthi.</i>
176	Leak Characteristics of Elastomeric Seals. <i>Kambhammettu Sri Krishna Sudhamsu, Jithin Devan, Chebolu Lakshmana Rao and Abhijit Deshpande.</i>
186	Crack propagation in functionally graded materials using phase field approach. <i>Kiran Raj K and Murali Palla.</i>
258	Mixed Mode Stress Intensity of Edge Crack Laminated Composite Plate in Hygrothermal Environment using Xfem. <i>Achchhe Lal, Rahul Kumar, Nand Jee Kanu and Shailesh P. Palekar.</i>
277	Fracture toughness of functionally graded epoxy- alumina polymer nanocomposites. <i>Sudhir Kumar Mishra, Dharmendra Kumar Shukla and Rabindra Kumar Patel.</i>
289	Dynamic Mechanical and Fracture Analysis of CNTs/PP Nanocomposites. <i>Vivek Khare, David Kumar, Sudhir Kamle and Rajesh Kitey.</i>
302	Modelling Fracture Propagation in Weak Surface Hoar Snow Layers. <i>Agraj Upadhyay, Rajnish Sharma and Puneet Mahajan.</i>
312	Dynamic Interface Separation in Anisotropic Bi-material. <i>Srimaya Padhi and Viswanath Chinthapenta.</i>
<b>T5-2</b>	<b>Theme: Impact Mechanics</b> <b>Session Chair: Dr. Rajneesh Sharma</b>
68	Numerical evaluation of blast mitigation using fluid structure interaction. <i>Jeevan V L and Rajesh P Nair.</i>
83	Impact Analysis of a Motorcycle Helmet Using Finite Element Method. <i>Geethika Dev and Rajesh.P. Nair.</i>
118	Numerical and Experimental Ballistic Performance of Aluminium and Polycarbonate Sandwich Plates. <i>Suresh Kumar S, Sachin G and Nishanth S.</i>
157	Effect of metal layer(s) on different GLARE layups under high strain rate loading: A Numerical study. <i>Sanan Khan and Venkitanarayanan Parameswaran.</i>
161	Effect of multiple holes on sandwich tubes under impact loading. <i>Santhosh Reddy, Lakshmana Rao and Vignesh S.</i>



177	Multiscale Investigation of Woven Composites Subjected to Low Velocity Impact. <i>Mithilesh Kumar Dewangan and Shashi Kanta Panigrahi.</i>
192	Influence of Surface Morphology and Strain Rate on Aluminium/Epoxy Interfacial Strength in Tension. <i>Linges V and Rajesh Kitey.</i>
287	High Strain Rate Behavior of AA2195 Aluminum Alloy. <i>Vinod Pare, P. Puthoor, K.N. Jonnalagadda and S.V.S.N. Murty.</i>
T5-3	<b>Theme: Beam, Plate and Shell</b> <b>Session Chair: Dr. Basant Kumar</b>
142	Towards Nonlocal Nonlinear analysis of FGM plates using TSDT. <i>Singam Srividhya, Basanth Kumar, R K Gupta and Dr. Amirtham Rajagopal.</i>
145	Transverse deformation and stress behaviour of laminated composite spherical and cylindrical shells. <i>Lalit Kumar Sharma, Yadwinder Singh Joshan and Neeraj Grover.</i>
162	Analytical solution for bending analysis of functionally graded plates using secant function based shear deformation theory. <i>Aakash Soni, Gagandeep Bhardwaj and Neeraj Grover.</i>
168	Analysis of Plates with cut-outs using Artificial Neural Network Considering Different Geometrical and Loading Parameters. <i>Saket Rusia and K K Pathak.</i>
202	Accurate Stress Solution for Laminated Rectangular Plates Bonded with Functionally Graded Adhesive Interlayer and Subjected to Transverse Loading. <i>Agyapal Singh and Poonam Kumari.</i>
189	Fiber Metal Laminates Manufacturing and Testing: A Brief Review. <i>Richa Verma, Arun Singh, A.K.Sonkar and N.Eswara Prasad.</i>
185	Effect of thickness variation of core and face sheets on free vibration response of a hybrid sandwich beam. <i>Najeeb Ur Rahman and M.Naushad Alam.</i>
243	Meshfree Approach for the Vibration Analysis of FGM Plates Using Two Shear Displacement Model. <i>Rahul Kumar, Jeeoot Singh and Achchhe Lal.</i>
55	Vibration Analysis of Functionally Graded Skew Plate with Cutout. <i>Md Irfan Ansari and Ajay Kumar.</i>
T5-4	<b>Theme: Computational Solid Mechanics</b> <b>Session Chair: Prof. Shantanu Mulay</b>
196	Comparative study of algorithms to handle geometric and material nonlinearities. <i>Shantanu Mulay, Udhayaraman R and Anas M.</i>

227	Customized Second Generation Finite element Wavelets for Linear Elasto-Statics. <i>Kumar Kaushik Ranjan, Ambuj Sharma, Sandeep Kumar and Amit Tyagi.</i>
314	Simulation of high-temperature structural deformation behaviour of SS 316LN and its validation by creep test. <i>V R Chandan Reddy, R Suresh Kumar, Anil Kumar Sharma and K Velusamy.</i>
37	Analysis of a Rupture Disc. <i>Somayajulu Dhulipala and Narayanamurthy Vijayabaskar.</i>
79	Finite Element Analysis of Reinforced Cement Concrete Staircase. <i>Mukul Agrawal, Md. Rehan Sadique and Abdul Baqi.</i>
89	Static and Dynamic Analysis of Piezoelectric Bimorph using Finite Element Method. <i>Mohammed Aslam, Praveen Nagarajan and Mini Remanan.</i>
137	Structural Finite Element Model Updating Using FRF of Incomplete Modal Data. <i>Jafar Sadak Ali, Sumit Saha, Tanvir Sohail and Arijit Bose.</i>
169	Mode Shape and Modal Slope Based Model Updating from Incomplete Modal Data. <i>Sumit Saha, Tanvir Sohail, Jafar Ali and Arijit Bose.</i>
296	SIFs of slanted edge cracked plate with hole subjected to various in plane loadings. <i>Khubilal Khatri and Achchhe Lal.</i>
T5-5	<b>Theme: Bio-Medical</b> <b>Session Chair: Prof. SKM Varadhan</b>
223	Kinematic of distal anatomical locations is critical for hand posture reconstruction. <i>Nayan Bhatt and Varadhan Skm.</i>
35	Motor performance in a visuomotor adaptation task of navigating using index and little finger forces. <i>Satishchandra Salam and Varadhan SKM.</i>
232	Cohesive zone model for simulation of cutting of brain tissue. <i>Satanik Mukherjee and Puneet Mahajan.</i>
270	Effect of dehydration on quasistatic and dynamic mechanical behavior of bone through nanoindentation. <i>Ram Yadav, Praveer Sihota and Navin Kumar.</i>
237	Experimental investigation and analysis of torque in drilling human femoral bone. <i>Vinayaga Muruga Pandya N.</i>
213	Validation of mathematical models of bone's adaptation to mechanical stimulus. <i>Ajay Goyal and Jitendra Prasad.</i>

220	Add-On Device to Assist in Stairclimbing of Wheelchairs. <i>Manish Prajapat, Vishwajeet Sikchi and Sujatha Srinivasan.</i>
101	When do people achieve proficiency in a new task? A Learning Curve Approach. <i>Dhanush R and Varadhan Skm.</i>
T6-1	<b>Theme: Experimental mechanics + Dynamics of Structures + Fracture</b> <b>Session Chair: Prof. S. Pradyumna</b>
203	Nonlinear Analysis of Shallow Hypar Shells using Element Free Galerkin Method. <i>Gaurav Watts, S. Pradyumna and Maloy Singha.</i>
120	Impact of Mass Participation Factor on Vibration Fixture Characterization. <i>Rajesh Chandu, Mukund Baiger and Khalil Nadaf.</i>
87	Seismic Response control of RC water tower frame staging. <i>Atulkumar Manchalwar, Sakshi Manchalwar and A Shrikhande.</i>
260	Feasibility of Normalisation for Twelve Fringe Photoelasticity. <i>Ashutosh Pandey and Krishnamurthi Ramesh.</i>
282	Experimental behavior of dry stone masonry using reflection photoelasticity. <i>Pankaj Kumar, Arun Menon and Ramesh Krishnamurthi.</i>
31	Wavelet Application on Structural Damage Localization for Flexural Mode in Acoustic Emission Technique. <i>Sanjay Sengupta, Alope K. Datta and Pijush Topdar.</i>
294	Fatigue Crack Detection in Rotating Shafts Using Vibration Statistical Parameters. <i>Sagi Rathna Prasad and A S Sekhar.</i>
T6-2	<b>Theme: Interdisciplinary</b> <b>Session Chair: Prof. Pronab Roy</b>
244	Effect of soil friction and initial imperfection on global lateral buckling of offshore pipelines. <i>Sanchayan Sarkar, Shantanu Singh and Pronab Roy.</i>
80	Durability study of hybrid F.R concrete with fly ash and colloidal nano silica by using R.C.P. Test. <i>Chinmaya Mahapatra and Sudhirkumar V. Barai.</i>
214	Determination of stress behavior of masonry wall due to variation in elastic properties of material. <i>Tripti Singh, Goutam Ghosh and Kumar Pallav.</i>
242	Performance of outrigger system in high-rise building structure. <i>Vishwas Paighan and Bhalchandra Birajdar.</i>
195	Strengthening of Columns using Welded Wire Mesh. <i>Wrishali Patil, Ranjit Ghatge and Bhalchandra Birajdar.</i>
256	Widening and Restoration of Masonry Bridge. <i>Aniket Patil and Bhalchandra Birajdar.</i>

274	Ductility Evaluation for an RCC Section with Variation in Engineering Properties of Materials. <i>Kshama Hemkar, Lakshmi Kant Mishra and Goutam Ghosh</i>
T6-3	<b>Theme: Material Characterization + Design</b> <b>Session Chair: Dr. Vijaybaskar</b>
253	The effect of Zn substitution on structural and magnetic properties of $Cu_{1-x}Zn_xFe_2O_4$ synthesized by sol-gel method and hydrothermal method. <i>Deepak Singh, Abhishek, Omprakash Rajpoot, Mayank Kumar Yadav, Naveen Kumar, Yogendra Pratap Singh and P.Shakti Prakash.</i>
34	Comparative Study between Fem and Sbfem in Topology Optimization. <i>Kandula Eswara Sai Kumar, Sourav Rakshit and Sundararajan Natarajan.</i>
84	Analytical force model of a local fault in ball bearing. <i>Sidra Khanam, Naresh Tandon and Jayanta Kumar Dutt.</i>
26	Response Surface Optimization of InterPulse TIG welding for the Optimum Weld Bead. <i>Debashis Mishra.</i>
53	Optimum parameters for tuned mass damper. <i>Deepak Kumar Verma and Om Prakash Jaiswal.</i>
82	Characteristics of Pinned Drops on Semi-Infinite Rectangular Post. <i>Viverjita Umashankar and D. Sivakumar.</i>
210	Characterization of Jute-Glass Fiber Reinforced Hybrid Composite. <i>Sangharsh Kumar Singh and Rakesh Kumar.</i>
236	Slurry Erosion Behaviour of Ceramic Coatings on Aisi 431 Stainless Steel. <i>Abhay Shankar Yadav and S.B. Mishra.</i>
T6-4	<b>Theme: Computational Solid Mechanics + Beam, Plate and Shell + Design</b> <b>Session Chair: Dr. R. Suresh Kumar</b>
324	Temperature rate dependent modeling of thermal ratcheting behavior. <i>Ashutosh Mishra, R. Suresh Kumar, G. Sasikala and P. Chellapandi</i>
132	Enrichment of finite elements with higher-order Hermite polynomials for adhesive contact. <i>Vishal Agrawal and Sachin Singh Gautam.</i>
131	Finite Element Analysis of Contact between Functionally Graded Hole and a pin. <i>Punukolu Bhuvvaan Chandra, Prof. HSN Murthy.</i>
325	The role of creep relaxation in deciding the life of high temperature components. <i>Kulbir Singh, Suresh Kumar R., Jaladeen S., Velusamy K. and Puthiyavinayagam P.</i>
41	A Parametric Study on Defect Sizing in Plates using Lamb Wave Reflection Coefficients. <i>Gautham A and Abhijit Ganguli.</i>

54	Design of Bio-Inspired Material Using Two Dimensional Probabilistic Fracture Mechanics. <i>Ananti Saroj, Anup S. and Arun C.O.</i>
71	Dynamic Buckling of Angle Ply Laminated Composite Plates Subjected to In-Plane Compression Loads. <i>Vasanth Keshav and Shuvendu N Patel.</i>
T6-5	<b>Theme: CFD + Interdisciplinary</b> <b>Session Chair: TBD</b>
298	Effect of passive devices on the drag of Indian Mini-SUV. <i>Rohit Kaithwar, Lakhvinder Singh and Sidh Nath Singh.</i>
301	Effect of Impeller Volute Interaction on Performance of the Centrifugal Pump: A CFD Approach. <i>Atiq Rehman, Akshoy Paul and Anuj Jain.</i>
124	CFD Simulation for Analyzing The Temperature Distribution Prevailing in Indus-2 Tunnel Due To Existing Air Handling System. <i>Nilesh Kumar Jat, Akhilesh K. Karnewar, Abhay Kumar, Rajkumar Porwal, R. K. Sahu and T. A. Puntambekar.</i>
112	Electron Beam Welding Process Simulation Using Computational Fluid Dynamics. <i>Rahul Kumar Tale, Abhay Kumar, Avinash Puntambekar, Vijay Kumar Bhardwaj and Rajkumar Porwal.</i>
197	Flow characteristics over helo deck of a simplified frigate ship (SFS) model. <i>Mehtab Alam, Nitin Kukreja and Ashutosh Singh.</i>
76	Crack Propagation Studies and Life Cycle Estimation of Pressure Vessels, <i>Parvathy S. Pillai and Rajesh P Nair.</i>
279	Reflection Characteristics of a Geosynthetic Seawall Exposed to Regular Waves. <i>Sukanya Ramesh Babu, Sundar Vallam and Sannasiraj Sannasi Annamalai.</i>