

14:15-15:30		Poster Session 1	24.08.2023
Abstract No.	Paper Details		
IC2023010	Friction Induced Vibrations of Inflatable Seal Test Facility <i>Sudheer Patri, Muhammad Sabih, Vidhya Lakshmi, Ramesh Kumar Sharma, S. Suresh Kumar, B. K. Sreedhar, Indira Gandhi for Atomic Research, Kalpakkam.</i>		
IC2023013	Modeling and Analysis to Predict Crack Growth Under Constant Amplitude Fatigue Loads in an Aircraft Structural Component R. Vrinda , N. Nagarajappa, G. Raghava, M. Manjuprasad, C.M. Manjunatha <i>Nitte Meenakshi Institute of Technology, Bengaluru.</i>		
IC2023014	Limit load evaluation for healthy elbows and elbows with notch at intrados under in-plane bending V. Thondamon , S. Vishnuvardhan, M. Saravanan, A. Ramachandra Murthy, S. Parivallal. <i>CSIR-Structural Engineering Research Centre, Chennai.</i>		
IC2023024	Fretting wear assessment in PHWR pressure tubes using transient dynamic FEA and Archard's wear model. Keshav Mohta , Suneel K. Gupta, Priyanshu Goyal, Anu Dutta, J. Chattopadhyay. <i>Bhabha Atomic Research Centre, Mumbai.</i>		
IC2023030	Numerical simulation of buckling load enhancement study of shell structure using smart materials. Winston Antony Pereira , Rajesh P. Nair. <i>Department of Ship Technology, CUSAT, Kerala.</i>		
IC2023031	Soil Structure Interaction Analysis of Anchorage Piles for Floating Offshore Structures. Mery Kiran , Rajesh P. Nair. <i>Department of Ship Technology, CUSAT, Kerala.</i>		
IC2023034	Finite Element Analysis of Hyperboloid Shell Structure Subjected to Local Buckling. Farzana Subair , Rajesh P. Nair. <i>Department of Ship Technology, CUSAT, Kerala.</i>		
IC2023045	Experimental insight into the modulation of mechanical properties of fiber reinforced geopolymer composites: Implications and Applications, lynthezhuthon. K and Subramanian L. R <i>SRMIST, Kattankulathur</i>		
IC2023050	An efficient phase-field model for fracture analysis of functionally graded plates. P. C. Sidharth , B. N. Rao. <i>Indian Institute of Technology Madras, Chennai.</i>		
IC2023051	Mechanical properties and Failure Modes of Glass Fiber Reinforced Polymer Composites. Suresh Kumar J , Kalaichelvan. <i>Anna University, Chennai.</i>		

IC2023057	<p>Analytical study on the structural integrity of existing RC Stack of radiological facility for enhanced wind speed at Kalpakkam.</p> <p>Rahul Kumar, Abdul Gani H.I, Sudipta Chattopadhyaya, N Suresh. <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i></p>
IC2023059	<p>Impact of Adhesive on Damage Retardation in the Adherent Plate and Strength of Bonded Joint.</p> <p>P. M. Banakar, L. Chikmath. <i>KLS Gogte Institute of Technology, Belagavi, Karnataka.</i></p>
IC2023063	<p>Finite element analysis of prosthetic implants in human femur bone.</p> <p>M J Rameesa, Rajesh P Nair. <i>Cochin University of Science and Technology, Kerala.</i></p>
IC2023064	<p>Finite Element Analysis to optimize crash tubes having perforated boundaries.</p> <p>Shilpa S, Rajesh P Nair. <i>Cochin University of Science and Technology, Kerala.</i></p>
IC2023069	<p>Monotonic and Ratcheting deformation behavior of SA333 Gr-6 steel at elevated temperatures.</p> <p>Girendra Kumar, Gaurav Nandan, Himadri Nandan Bar, Ashok Kumar. <i>National Institute of Technology, Jamshedpur.</i></p>
IC2023071	<p>Low cycle fatigue behavior of Cu-Cr-Zr alloy at 500 °C for solution annealed condition and solution annealed with aged condition.</p> <p>Chandesham Prabhakar, Shantanu Jana, Manish Kumar Patel, Rahul Kumar, Ujjwal Bera, P.C. Chakraborti. <i>Jadavpur University, Kolkata.</i></p>
IC2023072	<p>Low cycle fatigue (LCF) behaviour of 316L austenitic stainless steel at elevated temperature of 873K.</p> <p>Shantanu Jana, Chandesham Prabhakar, Manish Kumar Patel, Rahul Kumar, Ujjwal Bera. P.C. Chakraborti. <i>Jadavpur University, Kolkata.</i></p>
IC2023078	<p>Modeling and analysis to predict fatigue crack growth under spectrum loads in nickel based superalloys using FRANC3D.</p> <p>Sharanagouda G Malipatil, N Nagarajappa, Shylaja Srihari, M. Manjuprasad, C M Manjunatha. <i>Indian Institute of Science, Bengaluru.</i></p>
IC2023079	<p>Indentation-based Contact Analysis of CNT-FGM Nanocomposite.</p> <p>Rakesh Bhadra, Tamonash Jana, Anirban Mitra, Prasanta Sahoo. <i>Jadavpur University, Kolkata.</i></p>
IC2023084a	<p>Effect of Varying TiB₂ Reinforcement on Mechanical Properties of In-Situ Al7075-xTiB₂ Composites.</p> <p>Kalaimagal, Suresh Kumar <i>Anna University, Chennai.</i></p>
IC2023087	<p>Effect of waveforms on Low Cycle fatigue life of ASS 316LN alloy at 550°C</p> <p>Manish Kumar Patel, Saikat Shyamal, Shantanu Jana, Chandesham Prabhakar, Rahul Kumar, Ujjwal Bera, P.C. Chakraborti. <i>Jadavpur University, Kolkata.</i></p>

IC2023090	<p>Analytical and Experimental Investigations on the Seismic Performance of Reinforced Concrete Buildings.</p> <p>Swathy Manohar, C.K. Madheswaran, Indu Susan Raj. Mar Athanasius College of Engineering, Kothamangalam, Kerala.</p>
IC2023093	<p>Experimental Investigations on Geopolymer Concrete: Sustainable and Eco - Friendly Construction Material.</p> <p>Amina Rafeek, S. Sundar Kumar, Indu Susan Raj. Mar Athanasius College of Engineering, Kothamangalam, Kerala.</p>
IC2023097a	<p>Identification of Structural Damage in a Cantilever Beam from Residual Force using Genetic Algorithm.</p> <p>Prince Thankachan, Nabeel, T. M. Madhavan Pillai. National Institute of Technology Calicut, Kozhikode.</p>
IC2023098	<p>Analytical Investigations on a TG Foundation Model Structure.</p> <p>M. Sriranjani, V. Karthikeyan, R. Sreekala, P. Kamatchi, C. K. Madheswaran, K. Sathish Kumar. CSIR - Structural Engineering Research Centre, Chennai.</p>
IC2023104	<p>Experimental Evaluation of Scatter in Fracture Stress of Silicate Glass and its Thickness Dependence.</p> <p>A.B. Penurkar, M.K. Samal, A. Syed, J. Chattopadhyay. Homi Bhabha National Institute, Mumbai.</p>
IC2023112a	<p>Investigation on estimation of fracture resistance of SS 316 (N) welds subjected to various aging conditions and test temperatures.</p> <p>B. Shashank Dutt, M. Nani Babu, G. Shanthi, A. Moitra. Indira Gandhi Centre for Atomic Research, Kalpakkam.</p>
IC2023118	<p>Numerical Study of Energy Absorption Capabilities of Periodic Cellular Structures.</p> <p>Sri Maddukuri, Ravindra Ganta, Siva Prasad AVS. Indian Institute of Information Technology Design and Manufacturing, Kancheepuram.</p>
IC2023120	<p>Structural Integrity Assessment of the Hardface Coatings used in Indian FBRs.</p> <p>Nihal Kaushal, Sudheer Patri, B. K. Sreedhar, S. Raghupathy. Indira Gandhi Centre for Atomic Research, Kalpakkam.</p>
IC2023123	<p>Adaptive Dynamic Relaxation for Discrete Element Modelling of Concrete.</p> <p>Subham Mukherjee, Arghya Deb. Indian Institute of Technology Kharagpur, West Bengal.</p>
IC2023126	<p>Uncertainty Propagation in Estimated Parameters Owing to Uncertain Model Parameters in discrete models using PDEM.</p> <p>Kumar Anjneya, Arghya Deb. Indian Institute of Technology Kharagpur, West Bengal</p>
IC2023133a	<p>Effect of Temperature and Ageing on FCGR Behaviour of Alloy 617M Forge.</p> <p>MD Rakim, M. Jana, P. Basu, S. Chaudhury, A Mitra, S. K. Acharyya, M. Nani Babu, A. Moitra. Jadavpur University, India.</p>
IC2023138	<p>Fatigue design of bellows at a higher operating temperature.</p> <p>Kulbir Singh, R. Suresh Kumar. Indira Gandhi Centre for Atomic Research, Kalpakkam.</p>

IC2023139	In-situ measurement of martensitic kinetics and load partitioning during tensile deformation in a metastable austenitic stainless steel using FERITSCOPE. Teena Mouni C , Christopher, Ravishankar C, Mahadevan S, Shaju K Albert. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023140	Impact of HCF block-loading at elevated temperature on the fatigue strength of Ni-superalloy 617M. Sandeep Kale , M.M. Thawre, D.R. Peshwe, A. Nagesha, Aritra Sarkar. Visvesvaraya National Institute of Technology, Nagpur.
IC2023141	Numerical Study on Vibration Optimization and Stabilization of Subsea Pipe-In-Pipe Pipeline. Monis Mouli K S , Venkatraman G. PSG College of Technology, Coimbatore.
IC2023147	Mitigating cavitation erosion of steels by nitro-carburizing. Himanshu Markanday , Samir Chandra Roy. India Institute of Technology, Ropar, Punjab
IC2023154	Effectiveness of CFRP in addressing capacity enhancement of existing structures in Kalpakkam. Nitheesh N , R Preetha, C Harikumar, H I Abdul Gani, Sudipta Chattopadhyay, N Suresh. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023162	Axial/torsional fatigue tests on notched tubular specimens of carbon steel and life estimation using theory of critical distance method. Shreebanta Kumar Jena , Punit Arora, Suneel K. Gupta, J. Chattopadhyay. Homi Bhabha National Institute, Mumbai.
IC2023165	Structural integrity of 15-5PH stainless steel flow formed pressure vessel for PSLV-SITVC system. Varsha Florist, Santhoshkumar R , A. Vamsi, Sajju V, Sarath Mohan, Sanjeev Kumar, Dhanoop A, Venukuttan C, M.K. Sundaresan, SVS Narayana Murty. Liquid Propulsion Systems Centre, ISRO, Trivandrum.
IC2023166	Constitutive Models For Impact Response of Polyurea Coated Structures. Saravanan M K , Siva Prasad AVS. Indian Institute of Information Technology Design and Manufacturing, Kancheepuram.
IC2023169	Analytical Modelling Framework for Dynamic Fracture of Ductile Materials. A Prakash , Siva Prasad AVS. Indian Institute of Information Technology Design and Manufacturing, Kancheepuram.
IC2023173	Development and qualification of investment castings for structural application in cryogenic engines for Indian Space Programme. Ajit Kumar , Sandeep S.M, Cyriac J, S.V.S. Narayana Murty. Liquid Propulsion Systems Centre, ISRO, Trivandrum.
IC2023174	Seismic capacity assessment of existing 75m high RC stack structures in Kalpakkam. B. Sakthi , C. Harikumar, H. I. Abdul Gani, N. Suresh. Indira Gandhi Centre for Atomic Research, Kalpakkam.

IC2023182	Simulation and Validation of Mechanical Properties of Heat-Affected Zones in the Weld Joints of P91 Steel. Rajat Dhiman , Samir Chandra Roy, K. Mariappan, Isaac Samuel E, Vani Shankar, A. Nagesha. Indian Institute of Technology Ropar, Punjab
IC2023185	Reliability Estimation of Compressor Suction Knockout Drum using Probabilistic Approach. Y. Appala Naidu, G. Bhargav, G. Srinivasa Rao, Ch. Dileep Kumar Tanzil Ul Rehman, Ch. Nikhil Reddy . Vignan's Institute of Information Technology, Visakhapatnam.
IC2023189	Molecular Dynamics Simulation of Primary Radiation Damage in Zirconium using ADP and EAM potentials. Aaditya V. Majalee , Utkarsh Bhardwaj, P. V. Lakshmi Narayana, Manoj K. Warriar. Bhabha Atomic Research Centre, Visakhapatnam.
IC2023190	Study of effect of strain rate on mechanical properties of SS316LN and evaluation of parameters of Johnson-Cook model. S. K.Pandey , M.K.Samal. Homi Bhabha National Institute, Mumbai/Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023197	IHX Tube-Tube Sheet Rolled Joint Fabrication Simulation: Concerns of Structural Integrity. Neeraj Saini, Kulbir Singh, R. Suresh Kumar . Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023206	Development of Micro-mechanical Constitutive Model for Alumina at High Strain Rates Using Unified Mechanics Theory. Brahmadathan V B , Lakshmana Rao C. Indian Institute of Technology Madras, Chennai.
IC2023214	Creep Fatigue Crack Growth Studies of P91 Steel at 600°C. Chitresh Chandra , Kiranchand G.R., Challa Krishna Teja, B. Shrinivasarao, M. Nani Babu, N. Narasaiah. Indian Institute of Technology Roorkee, Uttarakhand.
IC2023216	Experimental Investigations on the Effect of Super Absorbent Polymer on the Properties of Conventional and Geopolymer Mortar Mix. Shivaani SJ, Renuka SM, Bavithra Devi K , C. Umarani., College of Engineering Guindy, Anna University, Chennai.
IC2023270	Conditional Health Monitoring of Composite Material by integrating the Internet of Things. Shebaz Ahmed J P, Dhivyadharshini S, Vetrivel M, Pooja G , Omkumar Meenakshisundaram. Rajalakshmi Engineering College, Chennai.