

13:45-15:00		Poster Session 2	25.08.2023
Abstract No.	Paper Details		
IC2023084b	Process Optimization of Abrasive Water Jet Machining on Glass Fiber Reinforced Polymer Composites <b>Kalaimagal, Suresh Kumar</b> <i>Anna University, Chennai.</i>		
IC2023097b	Fuzzy Logic-Based Damage Detection Strategy for a Cantilever Beam <b>Prince Thankachan, Tarak Ruidas, T. M. Madhavan Pillai.</b> <i>National Institute of Technology Calicut, Kozhikode.</i>		
IC2023112b	Study on estimation of fracture resistance of P91 steels from tensile properties <b>B. Shashank Dutt, M. Nani Babu, G. Shanthi, A. Moitra.</b> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>		
IC2023133b	Effect of Temperature and Ageing on Fracture Toughness of Alloy 617M Material <b>MD Rakim, S. Chaudhury, P. Basu, M. Jana, A Mitra, S. K. Acharyya,</b> <b>S. A. Krishnan, A. Moitra.</b> <i>Jadavpur University, India.</i>		
IC2023217	Influence of rate sensitivity on strain localization in ductile materials. <b>Alok Tripathy, Shyam M. Keralavarma.</b> <i>Indian Institute of Technology Madras, Chennai.</i>		
IC2023220	Sr modified near-eutectic Al-Si alloys. <b>Pawan Bohane, Trushar B. Gohil, Ajeet K. Srivastav.</b> <i>Visvesvaraya National Institute of Technology, Nagpur.</i>		
IC2023225	Leak before break application in 700MWe IPHWR. <b>Suruchi Kedia, Arvind Kumar, Braham Prakash.</b> <i>Nuclear Power Corporation of India Limited, Mumbai.</i>		
IC2023226	Compression-After-Impact analysis of woven carbon fiber reinforced composite laminate with different ply orientation sequences. <b>Vaibhav Somaji Anuse, Shankar K., R. Velmurugan.</b> <i>Indian Institute of Technology Madras, Chennai</i>		
IC2023234	Flexural Behaviour of Perforated Embedded Plate in Concrete with Different Anchor Patterns. <b>Jeya S, Hari Kumar C, Preetha R, Abdul Gani H I, Suresh N.</b> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>		
IC2023236	Correlation of different load ratios Fatigue Crack Growth Behavior of SS316L (N). <b>R. Duraipandi, M. Nani Babu, A. Moitra, S.M. Keralavarma.</b> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>		
IC2023237	Effect of Thermal Ageing on AISI 316L(N) Shielded Metal Arc welded Joint. <b>Sushan Deshmukh, C.R.Das, K.G. Pradeep.</b> <i>Indira Gandhi Centre for Atomic Research / ACI of Homi Bhabha National Institute, Kalpakkam.</i>		

IC2023238	Influence of Martensite on Cyclic Plastic Deformation and Non-Masing Behavior of 304L Stainless Steel. <b>Sanjeev Singh Yadav</b> , Samir Chandra Roy. Indian Institute of Technology Ropar, Punjab
IC2023245	Influence of rough surface on the leakage of flange joint. Rajat Sharma, <b>N. Rino Nelson</b> . Indian Institute of Information Technology Design and Manufacturing, Kancheepuram.
IC2023247	Progressive Collapse Analysis of RC building due to Fire load. <b>Sarmili Swain</b> , G. Srinath, Dr. K. Gopi Krishna, Rohith Akkaladevi. National Institute of Technology Warangal.
IC2023252	Strengthening of Polypropylene Fiber Reinforced Flat Slab using BFRP Fan and Laminate against Vertical Loading. <b>S. Swathy</b> , R. Preetha, J. Ashok Kumar, Tapes Derwal. Anna University, Chennai.
IC2023255	Effect of material inhomogeneity and crack driving force for the case of UM-OM interface. <b>Rohit Upadhyaya</b> , Abhishek Tiwari. Indian Institute of Technology Ropar, Punjab
IC2023258	Modified GTN Model for the Ductile Damage Analysis for Metals and Compare its Accuracy to the GTN Model. <b>Saurabh Dixit</b> , Abhishek Tiwari. Indian Institute of Technology Ropar, Punjab
IC2023264	Deformation and damage analysis in P91 steel weld joint subjected to cyclic waveforms through location-specific microstructural investigations. <b>Vaishali P</b> , Vani Shankar. Homi Bhabha National Institute, Mumbai.
IC2023265	Analysis of Nozzle Joint as per ASME Section III NB for design, service & Hydrotest conditions. <b>Vikram Sehgal</b> . Nuclear Power Plant Equipment Business Unit, L&T-HE, Hazira.
IC2023271	The Effect of Heating Rate on Microstructure and Tensile Properties of Zr-2.5Nb Alloy Quenched From $\beta$ -Phase. <b>Aishwarya Upadhye</b> , Arnomitra Chatterjee, A. K. Bind, A. Sarkar, R. N. Singh. Homi Bhabha National Institute / Bhabha Atomic Research Centre, Mumbai.
IC2023274	700MWe PHWR Steam Generator-Tubesheet Structural Integrity Assessment and Fatigue Evaluation using ESP approach. Rahul Mittal, Lalit Sharma, Braham Parkash, Vikram Sehgal, <b>Umesh Tilwani</b> . Heavy Engineering Nuclear Business Unit, Larsen & Toubro Ltd., Hazira, Surat.
IC2023276	Influence of Prior Fatigue Damage on Tensile Flow Behavior of Type 316L(N) Austenitic Stainless Steel. <b>K. Mariappan</b> , E. Isaac Samuel, Vani Shankar, A. Nagesha. Indira Gandhi Centre for Atomic Research, Kalpakkam.

IC2023279	Optimization of welding parameters for pulsed laser beam welding (PLBW) and pulsed gas tungsten arc welding (PGTAW) techniques for dissimilar welding of clad tubes. <b>Boopathi S</b> , Varma P V S, Aniruddha Kumar, Bhatt R B, Vivekanand Kain. Bhabha Atomic Research Centre, Mumbai.
IC2023282	Investigation of Structural Integrity of Super-Austenitic Stainless Steel Sandwich Panels Subjected to Surface and Underwater Explosions. Prince Lazar, <b>Anupoju Rajeev</b> . Indian Institute of Technology Bombay
IC2023283	Experimental Investigation on Fracture Behavior of Modified 9Cr-1Mo Steel All-Weld. <b>B.K. Singh</b> , S.A. Krishnan, B. Shashank Dutt, R. Nikhil, A. Moitra. Homi Bhabha National Institute / Bhabha Atomic Research Centre Facility, Kalpakkam.
IC2023285	A Study on Residual Stress Measurement by DIC Approach in FSW Welded AA6082 Joints. <b>Aritro Chatterjee</b> , Arpan Mandal, Anoj Giri. Vellore Institute of Technology, Vellore.
IC2023289	Effect of Nitrogen on high temperature dry sliding wear of 316L (N) Stainless steel. <b>N.L. Parthasarathi</b> , Bibin Jose, M. Arvinth Davinci. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023290	Repair welding and characterization of P91 steel weld joint for FBR application under cyclic loading. <b>R. K. Mourya</b> , P. Vaishali, R. Kannan, Vani Shankar, A. Nagesha, B.K. Sreedhar. Homi Bhabha National Institute, Mumbai.
IC2023293	Effect of Prior Sodium Exposure on Low Cycle Fatigue Behavior of 316LN (0.12N) SS at 873 K. <b>M. Shanmugavel</b> , K. Mariappan, C. R. Das, Gopa Chakraborty, V.A. Sureshkumar. Homi Bhabha National Institute, Mumbai / Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023296	Defect analysis of Ni-base superalloy during seamless tube manufacturing. <b>Mantosh Mandal</b> , M. Arvinth Davinci, N.L. Parthasarathi, B. Aashranth, Dipti Samantaray, V. Karthik, M. Vasudevan. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023297	Effect of nano alumina reinforced superabsorbent polymer on mechanical, durability, microstructural and rheological properties of cementitious materials. <b>Sujitha V.S</b> , Ramesh B, Joseph Raj Xavier. Saveetha Institute of Medical and Technical Sciences, Chennai.
IC2023299	Real-time weld pool image acquisition and weld bead quality assessment during hot wire TIG welding of 316LN stainless steel. <b>N. Chandrasekhar</b> , M. Vasudevan, C. R. Das. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023307	Numerical Simulation of rolled joint of Indian PHWR. <b>Ravi Prakash Pandey</b> , M K Samal, J. Chattopadhyay. Bhabha Atomic Research Centre, Mumbai.

IC2023309	Exploring modal analysis technique for identifying proper assembly of ECFM in vertical centrifugal pumps of Fast Reactor. <b>Ashish Kumar</b> , Y.V. Nagaraja Bhat, Sudheer Patri, P. Anup Kumar, S.I. Sundar Raj, S. Sureshkumar, B.K. Sreedhar. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023312	High Temperature Solid Particle Erosion Behavior of Bare and TBC Coated IN625. <b>Santhosh Kumar V</b> , Arivarasu M . Vellore Institute of Technology, Vellore.
IC2023326	Assessment of Instantaneous and Quasi-Steady State Strain-Rate Sensitivity parameters in the temperature range 300 K to 1123 K for 304L Nuclear Grade Austenitic Stainless Steel. <b>Balbir Kumar Singh</b> , J. Christopher, Jagannath Mishra, G.V. Prasad Reddy Atomic Energy Regulatory Board / Homi Bhabha National Institute, Mumbai
IC2023327	An Improved Dyson-McLean Model for Predicting Creep Rupture Strength in 9% Cr Steels at 873 K. <b>J. Christopher</b> , G.V. Prasad Reddy. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023331	Failure analysis of drive shaft of the fire water pump. <b>M. Arvinth Davinci</b> , Mantosh Mandal, Aashranth B , N.L. Parthasarathi, Dipti Samantaray, V.Karthik , M.Vasudevan. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023332	Mapping of Fatigue Deformation-Induced Magnetic Fields in 9Cr-1Mo Steel using a GMR based Metal Magnetic Memory Technique. <b>W. Sharatchandra Singh</b> , S. A. Krishnan, S. Thirunavukkarasu, Anish Kumar, A. Moitra. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023336	Evaluation of Strength Properties of Various Zones of P92 Steel TIG and Activated-TIG Weld Joints using Automated Ball Indentation Technique. V. Maduraimuthu, J. Ganesh Kumar, <b>P. Vasantharaja</b> , M. Vasudevan. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023338	Configurational Force Based Study of Fracture at Hardfacing Alloy Stainless Steel Interface. <b>Prince Joseph</b> , M. Nani Babu, S.K. Albert. Indira Gandhi Centre for Atomic Research, Kalpakkam /Homi Bhabha National Institute, Mumbai.
IC2023350	Assessment of Deformation Behaviour of SS316LN Material with Varying Nitrogen Content at Intermediate Strain Rate. <b>G. Shanthi</b> , S. A. Krishnan, R. Nikhil, A. Moitra. Indira Gandhi Centre for Atomic Research, Kalpakkam.
IC2023352	Comparative Study on Mechanical and Metallurgical Characteristics of Friction Welded Joints from Al 6061 and Mg AZ31B by varying Interface Geometries. <b>Vineeth Narayanan</b> , Makesh P M, Mathew John, Baiju Sasidharan. College of Engineering, Trivandrum.

IC2023362	Failure Analysis of Cutting Tool. <i>S. K. Gupta, <b>Chiragkumar Thoriya</b>, Sanatana Maharana, T. Selvraj, Shekhar Kumar.</i> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>
IC2023365	Structural Integrity Assessment of Large Horizontal Cylindrical HLW Tank of Reprocessing Plant. <i><b>Subhash Chandra</b>, SK Gupta, S Maharana, T Selvaraj, K Rajan, Shekhar Kumar.</i> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>
IC2023370	Seismic Integrity Assessment of Free-standing Lead Wall Assembly of DFRP. <i><b>V. S. Sanapala</b>, P. Mohanraj, S.D. Sajish, S. Maharana, T. Selvaraj, Shekar Kumar.</i> <i>Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>
IC2023373	Influence of Buttering on Creep Behaviour of Grade 91-Alloy 800 Dissimilar Weld Joint. <i><b>J. Vanaja</b>, G.V. Prasad Reddy.</i> <i>Indira Gandhi Centre for Atomic Research Kalpakkam / Homi Bhabha National Institute, Mumbai.</i>
IC2023377	Deep Learning Based Surrogate Models for Plastic Behavior of Composites. <i>Vikas Gupta, Syed Nizamuddin Khaderi, <b>Sai Sidhardh</b>.</i> <i>Indian Institute of Technology Hyderabad</i>
IC2023379	Sulphur Attack on RCC Wall of Sulphur Pit. <i><b>S. Harikrishna.</b></i> <i>Bharat Petroleum Corporation Ltd.</i>
IC2023381	Evaluation of Deformation Characteristics of Grain Boundary Engineered 316LN Stainless Steel using Small Punch Testing. <i>D.P. Rao Palaparti, <b>V.D. Vijayanand</b>, G.V. Prasad Reddy, A. Nagesha.</i> <i>Homi Bhabha National Institute, Mumbai /Indira Gandhi Centre for Atomic Research, Kalpakkam.</i>
IC2023382	Effect of Crack Growth Direction on Delayed Hydride Cracking Behaviour of Zr-2.5 Nb Pressure Tube Material. <i><b>Saurav Sunil</b>, Apu Sarkar, T. N. Murty, A.K. Bind, R.N. Singh.</i> <i>Bhabha Atomic Research Centre, Mumbai.</i>
IC2023383	Machine Learning Assisted Prediction of Irradiation Embrittlement of Reactor Pressure Vessel (RPV) Steel. <i><b>Apu Sarkar</b>, R.N. Singh.</i> <i>Bhabha Atomic Research Centre, Mumbai.</i>
IC2023384	Frequency and temperature dependent modulus of commercial grade Ti-6Al-4V alloy. <i>M Vidyasree, V Uday Kumar, <b>R Arockia Kumar</b>.</i> <i>National Institute of Technology Warangal</i>