

5th International Structural Integrity Conference & Exhibition (SICE–2024)

October 22-24, 2024, Nagpur, INDIA

TECHNICAL SCHEDULE

DAY 1: October 22 (Tuesday)

08:00-09:45	Conference Registration
09:45-10:00	Exhibition Inauguration (CRC 6 th Floor)
10:00-10:45	Conference Inauguration (VNIT Auditorium)
10:45-11:15	Group Photo Session & High Tea
11:15-11:55	Dr. S. R. Valluri Memorial Lecture – R. Sunder- IN PURSUIT OF EXCELLENCE IN THE ADVANCEMENT OF THE SCIENCE & TECHNOLOGY OF STRUCTURAL INTEGRITY (Chair: B Dattaguru)
11:55-12:35	Plenary 1: <i>Andrew Rosenberger-THE USAF AIRCRAFT STRUCTURAL INTEGRITY PROGRAM (ASIP), THE ENGINE STRUCTURAL INTEGRITY PROGRAM (ENSIP), AND THE ENSURING THE STRUCTURAL INTEGRITY OF FUTURE SYSTEMS (Chair: Raghu Prakash)</i>
12:35-13:05	Key Note 1: <i>B K Dutta-ADVANCES IN SMALL-PUNCH-TEST METHODOLOGY</i>
13:05-14:05	LUNCH
14:05-14:45	Plenary 2: <i>Srinivasan Chandrasekar-CAN SURFACE STRESS TRIGGER ENVIRONMENT-ASSISTED CRACKING? (Chair: Vikram Jayaram)</i>
14:45-15:15	Key Note 2: <i>Masahiro Endo- SIGNIFICANCE OF UNDERSTANDING THE SMALL FATIGUE CRACK BEHAVIORS IN PREDICTING THE FATIGUE STRENGTH OF METALS</i>
15:15-15:30	TEA
15:30-17:15	Parallel Sessions (CRC 6 th Floor)

	CRC 6-1 (Chair: Oleg Plekhov)	CRC 6-2 (Chair: R. Sunder)	CRC 6-3 (Chair: B K Dutta)	CRC 6-4 (Chair: Shiro Torizuka)
15:30-16:00	Key Note - 3 Sanjib Acharyya INVESTIGATION ON FATIGUE CRACK GROWTH AND FRACTURE BEHAVIOR OF ALLOY 617M	Key Note - 4 P D Mangalgiri STRUCTURAL INTEGRITY OF COMPOSITE AIRCRAFT STRUCTURES: ISSUES AND APPROACHES	Key Note – 5 Vikas Kumar DAMAGE PROGNOSTICS-BASED DIGITAL TWIN CONCEPT FOR MATERIALS PERFORMANCE FOR CRITICAL APPLICATIONS	Key Note - 6 B Dattaguru DIGITAL TWIN FOR STRUCTURAL INTEGRITY
16:00-16:20	Invited – 1 Priti Kotak Shah (42) EVALUATING EFFECT OF HYDRIDE ORIENTATION ON TENSILE PROPERTIES OF ZIRCALOY-4 CLAD USING RING TENSION TEST	Invited – 4 Niraj Chawake HIGH-TEMPERATURE DEFORMATION BEHAVIOR OF NONEQUIATOMIC CoCrNi ALLOY WITH HIERARCHICAL MULTI- PHASE MICROSTRUCTURE	Invited – 7 Shyam Kerlavarma EFFECT OF MICRO-VOID GROWTH ON LOCALIZED NECKING IN THIN SHEETS	Invited – 10 Debashish Das ENERGY-EFFICIENT MANUFACTURING OF THERMOSET COMPOSITES FOR SPACE APPLICATIONS
16:20-16:40	Invited – 2 Srikanth Gollapudi ON THE THERMAL STABILITY OF NANOCRYSTALLINE MATERIALS	Invited – 5 Anand Krishna Kanjarla MICROSTRUCTURE INFORMED FATIGUE MODELING OF IN718 USING CRYSTAL PLASTICITY FRAMEWORK	Invited - 8 Rajesh Kitey FAILURE EVOLUTION IN STIFFENED-POLYMER LAMINATED COMPOSITES	Invited – 11 Ankush Kashiwar UNRAVELING GRAIN BOUNDARY- MEDIATED PLASTICITY IN UFG METAL THIN FILMS WITH A NOVEL COMBINATION OF LAB-ON-CHIP TESTING, NANOSCALE DIC, ACOM-TEM
16:40-17:00	Invited – 3 A K Chaubey IMPACT OF REINFORCEMENT AND PROCESSING ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ALUMINUM-BASED COMPOSITES	Invited - 6 Ilaksh Adlakha EFFECT OF HYDROGEN ON PLASTICITY OF α -Fe: A MULTI-SCALE ASSESSMENT	Invited - 9 Punit Arora FATIGUE CRACK INITIATION STUDIES ON PRIMARY PIPING MATERIAL OF INDIAN PHWR	Invited – 12 Sushil Mishra EXAMINING THE EFFECTS OF STRAIN PATHS ON CYCLIC BEHAVIOR AND MARTENSITE EVOLUTION IN SS304L
17:00-17:15	Contributory - 1	Contributory - 2	Contributory - 3	Contributory - 4

	<i>Johnny E Adukwu</i> <i>HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY IN HIGH STRENGTH AEROSPACE STRUCTURAL STEELS</i>	<i>Gundla Nithish Varma</i> <i>A STUDY ON DECOMPOSING ABLATIVE COMPOSITE MATERIAL UNDER THERMAL LOAD USING MATHEMATICAL MODEL</i>	<i>Nagaraj Ekabote</i> <i>CTOD EVALUATION USING ASTM 1820 AND BS 7448</i>	<i>M Mohan Kumar</i> <i>STATIC STRENGTH EVALUATION OF COMPOSITE AIRCRAFT WING FOR ONE WHEEL LANDING CASE</i>
17:15-18:00	Poster Session Inauguration, Presentation & Evaluation (CRC 5 th Floor)			
18:00-19:00	Travel to VCA Recreation Club, Jamtha			
19:00-19:30	InSIS Fellowship			
19:30-21:00	BANQUET DINNER			

DAY 2: October 23 (Wednesday)

09.00	Registration			
9:15-9:45	Flash poster Presentation (CRC 5 th and 6 th Floor)			
9:45-10:25	Plenary 3: <i>Oleg Plekhov (VNIT Auditorium)- PL-3</i> LASER SHOCK PEENING OF TITANIUM ALLOY SAMPLES FOR IMPROVED FATIGUE RESISTANCE (Chair: Dilip Peshwe)			
10:25-10:55	Key Note 7: <i>Arun Menon- EARTHQUAKE SAFETY OF HISTORICAL CONSTRUCTIONS IN INDIA</i>			
10:55-11:05	Tea			
11:05-11:45	Plenary-4: <i>Vikram Jayaram-EXTRACTING MECHANICAL PROPERTIES FROM CANTILEVER BENDING: CREEP, CYCLIC DAMAGE, YIELDING AND FRACTURE TOUGHNESS (Chair: Masahiro Endo)</i>			
11:45-12:15	Key Note 8: <i>Rajeev Tyagi- CONSTRUCTION OF 3 SPAN CONTINUOUS SEGMENTAL CONCRETE BRIDGES WITH BALANCED CANTILEVER TYPE OF CONSTRUCTION, IN NAGPUR METRO RAIL PROJECT</i>			
	Parallel Sessions (CRC 6th Floor)			
12:20-13:10	CRC 6-1 (Chair: Nagamani Jaya Balila)	CRC 6- 2 (Chair: Ashutosh S. Gandhi)	CRC 6-3 (Chair: Atul Ballal)	CRC 6-4 (Chair: Praveen Kumar)
12:20-12:50	Key Note - 9 <i>S Vishnuvardhan</i> FATIGUE CRACK GROWTH AND FRACTURE STUDIES ON DISSIMILAR METAL PIPE WELD JOINTS	Key Note - 10 <i>Shinji Hashimura</i> USEFULNESS OF NONFERROUS BOLTS	Key Note – 11 <i>J M Chandra Kishen</i> FAILURE ANALYSIS OF CONCRETE STRUCTURES – FIELD TO LABORATORY	Key Note - 12 <i>Dhiraj K Mahajan</i> NUMERICAL SIMULATION OF DYNAMIC DEGRADATION OF MICRO-INJECTION MOLDED BIORESORBABLE POLYMERIC CARDIOVASCULAR STENTS
12:50-13:10	Invited – 13 <i>Anirban Patra</i> CRYSTAL PLASTICITY MODELING OF TENSILE AND CYCLIC DEFORMATION IN POLYCRYSTALLINE NI-BASED SUPERALLOYS	Invited – 14 <i>Naveena</i> CREEP CHARACTERIZATION OF HIGH NITROGEN HEAT-RESISTANT STEELS USING SMALL PUNCH TEST METHOD	Invited – 15 <i>Jaiprakash Goutam</i> LASER SHOCK PEENING INDUCED SURFACE INTEGRITY AND MICROSTRUCTURAL CHARACTERISTICS IN NICKEL BASE SUPERALLOY IN718	Invited – 16 <i>R Suresh Kumar</i> INFLUENCE OF MANUFACTURING DEVIATION ON THE BUCKLING STRENGTH OF SLENDER TUBES
13:10-14:00	LUNCH			

Parallel Session (CRC 5 th and 6 th Floor)				
14:00-15:10	CRC 6-1 (Chair: Nilesh Gurao)	CRC 6- 2 (Chair: Issac Samual E)	CRC 6-3 (Chair: N Narasaiah)	CRC 6-4 (Chair: R N Chauhan)
14:00-14:30	Key Note - 13 Mamoun Medraj WATER DROPLET IMPINGEMENT EROSION: TESTING, MECHANISMS AND IMPROVED REPRESENTATION	Invited – 25 Jayaprakash Murugesan FRETTING FATIGUE BEHAVIOR of Ti ALLOYS	Invited – 39 Lakshmi Narayana R LASER POWDER BED FUSION OF IMMISCIBLE STEEL AND BRONZE: A COMPOSITIONAL GRADIENT APPROACH FOR OPTIMUM CONSTITUENT COMBINATION	Key Note - 16 Ashutosh Gandhi MECHANISTIC INSIGHTS INTO PHASE TRANSITIONS IN YSZ TBCs UPON THERMAL EXPOSURE
14:30-14:50	Invited – 17 Kesavan Ravi DESIGNING MICROSTRUCTURES OF POLYMERS FOR PASSIVE DAYTIME RADIATIVE COOLING	Invited – 19 Shashi Shekhar EFFECT OF COOLING RATE (WQ & AC) ON MICROSTRUCTURE AND MECHANICAL PROPERTY OF Ti-10V-2FE-3AL (Ti- 1023) ALLOY AT PERIPHERY AND CENTER	Invited – 21 Sakthivel T AN ASSESSMENT OF 9Cr STEEL-SS316LN DISSIMILAR WELD JOINTS UNDER CREEP	Invited – 23 Nagamani Jaya Balila STRAIN PARTITIONING AND DAMAGE EVOLUTION IN DUAL-PHASE STEELS UNDER MULTIPLE STRESS STATES
14:50-15:10	Invited – 18 Dan Sathiaraj TAILORING THE MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF LASER DIRECTED ENERGY DEPOSITION-BUILT CoCrNi MEDIUM ENTROPY ALLOY	Invited – 20 Shahnawaz Ahmad STRUCTURAL INTEGRITY ASSESSMENT OF CRITICAL DEFENCE EQUIPMENTS- LAND AND AEROSPACE	Invited – 22 Om Prakash EVALUATION OF CREEP DAMAGE AND PREDICTION OF CREEP BEHAVIOUR IN A DIRECTIONALLY SOLIDIFIED (DS) NICKEL BASED SUPERALLOY	Invited – 24 Rajwinder Singh EFFECT OF HYDROGEN ON THE ELECTRICAL RESISTIVITY OF Fe-BASED SYSTEMS: EXPERIMENTAL AND FIRST- PRINCIPLES ANALYSIS
15:10-15:40	Flash poster Presentation (CRC 5 th & 6 th Floor)			
15:40-15:50	TEA			

15:50-17:05	Parallel Sessions (CRC 6 th Floor)			
	6-1 (Chair: Lakshmi Narayan R)	6-2 (Chair: Manjusha Thawre)	6-3 (Chair: Ravindra Taiwade)	6-4 (Chair: Yogesh Mahajan)
15:50-16:05	Contributory - 5 Ritesh Kumar <i>ANALYSIS OF EXPONENTIAL FUNCTIONALLY GRADED POLAR ORTHOTROPIC ROTATING DISK FOR FIXED-FREE BOUNDARY CONDITION</i>	Contributory - 10 Rahul Tarodiya <i>NUMERICAL INVESTIGATION OF PARTICLE IMPACT VELOCITY IN A JET IMPACT TESTER FOR GAS SOLID FLOW</i>	Contributory - 15 S A N Murthy <i>HIGH RISE BUILDINGS IN MODERN URBANIZATION – A STUDY OF HEALTH MONITORING SYSTEM WITH THE APPLICATION OF FIBER OPTIC SENSORS</i>	Contributory-20 Arun K Singh <i>RATE DEPENDENT DYNAMIC STRESS INTENSITY FACTOR OF STEEL MATERIALS</i>
16:05-16:20	Contributory - 6 Pradeep K Sahoo <i>MULTI-SCALE SIMULATION AND EXPERIMENTAL STUDIES ON MECHANICAL BEHAVIOUR OF CARBON NANOTUBE REINFORCED ADHESIVELY BONDED COMPOSITE JOINTS</i>	Contributory - 11 Mrityunjoy Hazra <i>DEGRADATION MECHANISMS OF THE IN-SERVICE NOZZLE GUIDE VANES (NGVS) OF AN AEROENGINE</i>	Contributory - 16 Anushree Dutta <i>DEVELOPMENT OF MEDIUM CARBON HOT-FORGED PEARLITIC/BAINITIC/MARTENSITIC MICROALLOYED STEEL WITH IMPROVED MECHANICAL PROPERTIES</i>	Contributory-21 Shiva Kumar Gaddam <i>IMPLEMENTATION OF SBFEM TO SIMULATE MICROMECHANICAL BEHAVIOUR OF POLYCRYSTALS USING OCTREE MESHES</i>
16:20-16:35	Contributory - 7 Sanath Kumar Naik L <i>NUMERICAL AND EXPERIMENTAL EVALUATION OF SCARF REPAIRED COMPOSITE PANEL UNDER TENSILE LOADS</i>	Contributory - 12 Ninad Pawar <i>FAILURE ANALYSIS & TOUGHNESS IMPROVEMENT FOR A PINION HEAD TAPERED ROLLER BEARING IN DIFFERENTIAL SYSTEM OF A COMMERCIAL VEHICLE</i>	Contributory - 17 Sunil Tonpe <i>EVALUATION OF STRUCTURAL INTEGRITY AND RE-HABITATION OF 30-YEAR-OLD ZIRCONIUM SPONGE PLANT AT NUCLEAR FUEL COMPLEX, HYDERABAD</i>	Contributory-22 Haru Fujishima <i>EFFECTS OF SMALL ARTIFICIAL DEFECTS, STRESS GRADIENT, AND TEST FREQUENCY ON THE ROTATING BENDING FATIGUE STRENGTH OF ANNEALED MEDIUM CARBON STEEL</i>

16:35-16:50	Contributory - 8 Kavita Tandon OPTIMIZING CONCRETE FOUNDATIONS IN MARINE SOILS WITH SUSTAINABLE IRON SCRAP AGGREGATES	Contributory - 13 Y Narender FAILURE ANALYSIS OF INTER SHAFT BEARING OF AERO-ENGINE	Contributory - 18 Nevil Martin Jose DETERMINATION OF THE EFFECT OF CRACK TIP CONSTRAINT ON THE FRACTURE TOUGHNESS REFERENCE TEMPERATURE OF 20MnMoNi55	Contributory-23 Krishnendu Pal BENCHMARK SIMULATION TO ENSURE THE REQUIRED MECHANICAL BEHAVIOR FOR A STEAM GENERATOR TUBE UNDER U-BEND FABRICATION
16:50-17:05	Contributory - 9 Ramavath Bheekya Naik EXPLORING THE ROLE OF ROTATIONAL SPEED IN THE MICROSTRUCTURE AND DAMPING CAPACITY OF Al/Bn COMPOSITES PRODUCED VIA FRICTION STIR PROCESSING	Contributory - 14 Poshadri Chathri NUMERICAL ANALYSIS OF TENSILE BEHAVIOR OF STAINLESS STEEL SS304 WITH CORROSION PITS	Contributory - 19 Amey Par naik HIGH-CYCLE FATIGUE BEHAVIOR OF HAYNES 282 SUPERALLOY SUBJECTED TO ACCELERATED AGEING	Contributory-24 KSN Satish Idury DEFECTS - FATIGUE CORRELATIONS OF LASER POWDER BED FUSED METALLIC ALLOYS
17:05-18:00	Poster Presentation & Evaluation			

DAY 3: October 24 (Thursday)

09:00	Registration
9:30-10:10	Plenary 5: Shiro Torizuka - ANALYSIS ON HYDROGEN EMBRITTLMENT OF SUS304 AND SUS316 STEELS BY IN-SITU X-RAY DIFFRACTION USING SYNCHROTRON RADIATION DURING LOW TEMPERATURE AND HIGH PRESSURE H ₂ GAS TENSILE TESTING WITH 0.3MM THIN WALL HOLLOW SPECIMEN (VNIT Auditorium Chair: Jatin Bhatt)
10:10-10:40	Key Note 18: Praveen Kumar - EFFECTS OF PASSAGE OF ELECTRIC CURRENT THROUGH PRE-CRACKED THIN METALLIC SHEETS ON ITS STRUCTURAL INTEGRITY
10:40-11:10	Key Note 19: Dheepa Srinivasan - STRUCTURAL INTEGRITY ASPECTS OF ADDITIVELY MANUFACTURED GAS TURBINE MATERIALS
11:10-11:25	TEA
11:25-13:05	Parallel Session (CRC 6 th Floor)

	CRC 6-1 (Chair: Mamoun Medraj)	CRC 6-2 (Chair: P M Padole)	CRC 6-3 (Chair: S Vishnuvardhan)	CRC 6-4 (Chair: Rajesh Khatirkar)
11:25-11:55	Key Note - 20 <i>Elisabetta Mariani</i> ADVANCED MICROSTRUCTURAL ANALYSIS OF CRYSTALS USING ELECTRON BACKSCATTER DIFFRACTION (EBSD)	Key Note - 21 <i>Issac Samuel E</i> CREEP-HIGH CYCLE FATIGUE INTERACTION STUDIES IN TYPE 316LN SS	Key Note – 22 <i>N Narasaiah</i> CREEP FATIGUE CRACK GROWTH (CFCG) STUDIES OF WELDED AND BASE-METAL SPECIMENS OF P91 STEEL	Key Note - 23 <i>Nitesh Gurao</i> ON THE IMPROVED ENERGY ABSORPTION PERFORMANCE OF $Fe_{50}Mn_{30}Co_{10}Cr_{10}$ COMPLEX CONCENTRATED ALLOY AT HIGH STRAIN RATE
11:55-12:15	Invited – 27 <i>Khushbo Tiwari</i> THERMAL STABILITY AND PHASE TRANSFORMATIONS IN MULTIPHASE NANOALLOYS	Invited – 29 <i>Ankur Chauhan</i> SUPERIOR FATIGUE RESISTANCE OF ULTRAFINE BAINITIC STEEL BY EXPLOITING SEGREGATION-INDUCED BANDS	Invited – 31 <i>Anup Kumar Keshri</i> INNOVATIONS IN PROCESSING OF 2D MATERIALS	Invited – 33 <i>Pritam Chakraborty</i> UNDERSTANDING THE ROLE OF DYNAMIC STRAIN AGING ON THERMO-MECHANICAL FATIGUE OF TIMETAL 834 USING A CRYSTAL PLASTICITY MODEL

12:15-12:35	Invited – 28 <i>R N Chauhan</i> THE USE OF ALUMINUM DROSS RESIDUES TO PROMOTE INDUSTRIAL SYMBIOSIS	Invited – 30 <i>Ushasi Roy</i> A MICROSTRUCTURE-SENSITIVE COMPUTATIONAL MODEL TO SIMULATE THE RESPONSE OF SOLID EXPLOSIVES UNDER HIGH STRAIN RATE LOADING CONDITIONS	Invited – 32 <i>Pavan AHV</i> INFLUENCE OF REJUVENATION HEAT TREATMENT ON CREEP LIFE OF SERVICE EXPOSED MODIFIED 9 Cr STEEL	Invited – 34 <i>Sanjiv Singh Yadav</i> EXPERIMENTAL DETERMINATION OF MONOTONIC AND REVERSED PLASTIC-ZONE AHEAD OF CRACK-TIP IN FATIGUE USING HIGH-RESOLUTION DIGITAL IMAGE CORRELATION
12:35-12:50	Contributory - 25 <i>VNSU Viswanath Ammu</i>	Contributory - 27 <i>K R Karthik</i>	Contributory - 29 <i>Sameer Suresh Gajmal</i>	Contributory - 31 <i>Priyanka Saini</i>

	<i>INVESTIGATION OF LONGITUDINAL WELD SEAM INTEGRITY IN EXTRUDED PROFILE OF AA6063</i>	<i>J-INTEGRAL BASED FRACTURE ASSESSMENT OF PRESSURE VESSELS MADE OF AA2219 MATERIAL USING SURFACE CRACK TENSION TEST DATA</i>	<i>AN INVESTIGATION ON HEAT TREATMENT OF ALUMINIUM 6061 ALLOY USING MICROWAVE HEATING TECHNIQUE</i>	<i>TEMPERATURE DEPENDENCE OF PRESSURE SENSITIVE FLOW IN BULK METALLIC GLASS COMPOSITES</i>
12:50-13:05	Contributory - 26 -	Contributory - 28 V Thondamon <i>NUMERICAL STUDIES ON RE-ROUNDING BEHAVIOUR OF API 5L X46 GRADE STEEL PIPE SUBJECTED TO INTERNAL PRESSURE</i>	Contributory - 30 Ayub Khan <i>A CPFE BASED 3D MODEL FOR POLYCRYSTALLINE PLASTICITY WITH DIFFUSED GRAIN BOUNDARIES</i>	Contributory - 32 Sameer Suresh Gajmal <i>ANALYSIS OF POROSITY AND SOLID SHRINKAGE OF THE ASTM B23 BABBITT ALLOY CASTINGS MADE BY MICROWAVE AIDED CASTING</i>
13:05-14:00	LUNCH			
14:00-15:20	Parallel Session (CRC 6th Floor)			
	CRC 6-1 (Chair: Ankush Kashiwar)	CRC 6- 2 (Chair: Naveena)	CRC 6-3 (Chair: Ritesh Lokhande)	CRC 6-4 (Chair: Ajit Srivastava)
14:00-14:20	Invited – 35 M Mohan Kumar <i>MULTI-SITE DAMAGE EVALUATION OF AIRCRAFT FUSELAGE SPLICE JOINT</i>	Invited – 36 Robert Brandt <i>INFLUENCE OF RESIDUAL STRESSES ON THE FATIGUE DAMAGE EVOLUTION IN MARTENSITIC SPRING STEEL SAE 9254 IN THE HCF REGIME</i>	Invited – 37 Jean Loup Strudel <i>NONDETERMINISTIC BEHAVIOR OF ENGINEERING MATERIALS</i>	Invited – 38 Suhas Bhawe <i>CASE STUDIES FOR REHABILITATION OF BRIDGES AND BUILDINGS</i>
14:20-14:35	Contributory - 33 Anoop Kumar	Contributory - 37 Vaidehi A Dakwale	Contributory - 41 Somnath Nandi	Contributory - 45 Devathi Prashanth <i>PROCESSING, MICROSTRUCTURE AND MECHANICAL PROPERTIES</i>

	<i>INDIGENOUSLY DEVELOPED SEMICRYOGENIC ENGINE COMPONENT BASED ON Fe BASED STRESS ANALYSIS</i>	<i>INVESTIGATING POTENTIAL OF BIO-FIBER BASED ROOFING</i>	<i>CREEP BEHAVIOUR OF ALLOY 80A FOR HIGH-TEMPERATURE POWER PLANT APPLICATIONS</i>	<i>STUDY OF Ti6242S ALLOY FOR AERO-ENGINE APPLICATION</i>
14:35-14:50	Contributory - 34 Krushna Kumbhar <i>CHARACTERIZATION OF TENSILE AND CREEP PROPERTIES OF RECYCLED DIRECTIONALLY SOLIDIFIED CM247 LC Ni-BASE SUPERALLOY FOR AEROFOIL CASTINGS OF GAS TURBINE ENGINES</i>	Contributory - 38 Sarath Chandran Nair S <i>FLIGHT ACCEPTANCE TESTING OF POLYIMIDE COMPOSITE PIPELINES IN A CRYOGENIC STAGE FOR HUMAN SPACE MISSION</i>	Contributory - 42 Surajit Kumar Paul <i>PHYSICS-BASED DEFECT-TOLERANT DESIGN FOR PREDICTING TENSILE AND FATIGUE PERFORMANCE IN ALLOYS WITH MANUFACTURING FLAWS</i>	Contributory - 46 Ritesh Kumar <i>THERMO-ELASTIC ANALYSIS OF FUNCTIONALLY GRADED POLAR ORTHOTROPIC ROTATING DISK USING COLLOCATION METHOD</i>
14:50-15:05	Contributory - 35 Nagaraja Kowmudi <i>THE EFFECT OF PRECRACKING ON IMPACT TOUGHNESS OF HIGH STRENGTH NAVAL STEELS</i>	Contributory - 39 Shri Bhagwan Pathak <i>DEVELOPMENT OF MICROSTRUCTURE AND TEXTURE OF B SOLUTION-TREATED AND AGED METASTABLE BETA TITANIUM ALLOY Ti-5Al-3.5Mo-7.2V-3Cr</i>	Contributory - 43 Shohei Matsuda <i>CRACK INITIATION AND PROPAGATION BEHAVIOR IN ROTATION BENDING AND TORSIONAL FATIGUE OF AL-SI-MG CAST ALUMINUM ALLOY</i>	Contributory - 47 Saravanan M/ Vishnuvardhan S <i>FATIGUE CRACK GROWTH AND FRACTURE STUDIES ON DISSIMILAR METAL PIPE WELD JOINTS</i>
15:05-15:20	Contributory - 36 Ganesh Mahadev Nigudage <i>EVALUATING EFFECT OF ACCELERATED THERMAL AGEING ON RPV STEEL</i>	Contributory - 40 Nisha Thakur <i>SEISMIC BEHAVIOR OF STEEL-BRACED RC FRAMES IN SEISMIC ZONE IV</i>	Contributory - 44 Akash Raikwar <i>MULTISCALE FINITE ELEMENT APPROACH FOR FREE VIBRATION AND BUCKLING ANALYSES OF CARBON NANOTUBES AT FINITE TEMPERATURE</i>	Contributory - 48 Bhukya Venkatesh <i>STUDYING THE EFFECT OF MICROELEMENTS FAILURE STRAIN DISTRIBUTION ON FATIGUE LIFE AND THE ASSOCIATED SCATTER USING A MICROELEMENT PLASTIC STRAIN ACCUMULATION MODEL</i>
15:20-15:40	TEA			
15:45-16:30	Prize Distribution & Valedictory Function			
17:00	Departure for Excursion-Jungle Safari (Pench)			