

**Electromagnetic NDE**  
**12th December 2025 - 11:30 to 13:08**

<b>Session Number</b>	1A				
<b>Hall</b>	Raman (204A)				
<b>Session Chairperson</b>	Benjamin Ducharne				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Name of Speaker</b>	<b>Organisation Name</b>
11:30	11:55	IT 01	Development and Application of Eddy Current Testing for Qualification of Austenitic Stainless Steel Pipe Weld	Dr. Arbind Kumar	BARC
11:55	12:08	60	Development of Cost-Effective Solution for Auto Data Recording of OD-Eddy Current Testing of Alloy 800 Steam Generator Tubes at Nuclear Fuel Complex, Hyderabad	Mr Mohammed Muzammil Ahmed	Nuclear Fuel Complex, Hyderabad
12:08	12:21	71	Advanced NDT methods used for high pressure, cross country, hydrocarbon pipeline.	Mr Vishwajeet Ekbote	Reliance Ethane pipeline Ltd.
12:21	12:35	78	Eddy Current Technique for Assessing Degradation in Power Plant Components Exposed to Elevated Temperatures beyond 500 °C	Dr Vinod Belwanshi	CSIR-National Metallurgical Laboratory Jamshedpur
12:35	12:48	79	Stress Corrosion Cracking in Steam Turbine Rotor Grooves: Case Study and Mitigation Strategies from a 500 MW Unit in the Energy Transition Era	Dr Avijit Mondal	NTPC LIMITED

12:48	13:01	121	Development of Eddy Current Technique for Annular Gap Measurement between Coaxial Metallic Tube and Rod	Mr Manojit Shaw	Bhabha Atomic Research Centre (BARC), Mumbai
13:01	13:08	82	Advanced NDT Techniques like ACFM or underwater MPI Induced Magnetism using a coil method for Fixed Offshore Structures	Chandra Kunkulagunta	Reliance Industries Limited

**Infrared Thermography - 1**  
**12th December 2025 - 11:30 to 13:13**

Session Number		1B			
Hall		Kalam (204B)			
Session Chairperson		Shruti Bharadwaj			
Start Time	End Time	Paper ID	Paper Title	Name of Speaker	Organisation Name
11:30	11:55	IT 02	Emerging trends in the Design and Analysis of Active Thermographic Systems for Composite inspection	Dr Vanita Arora	S S Automation
11:55	12:08	108	Advancements in Thermal Non-Destructive Testing: Defect Detection in GFRP Sample Using LED based Sources with Colour Temperature Variation	Mr Suresh Kumar Bhambhu	InfraRed Imaging Laboratory (IRIL), Centre for Sen
12:08	12:21	111	Enhancing Subsurface Defect Detection: A Comparative Study of Conventional and Pulse-	Ms SAMEEH A SHARMA	InfraRed Imaging Laboratory (IRIL), Centre for Sen

			Compression-Favourable Infrared Thermography Techniques		
12:21	12:33	141	Lock-in Thermography for Detection & Identification of Defects in GMA-welded Joints	Dr Arpita Ghosh	CSIR-National Metallurgical Lab
12:33	12:46	142	ANN-based Iron Ore Composition Using Microwave-Assisted IR Thermography	Dr Suman Tewary	CSIR-National Metallurgical Laboratory, Jamshedpur
12:46	13:54	113	Barker Coded Thermal Wave Imaging for Enhanced Depth Resolution in Steel Material	Ms SAMEEH A SHARMA	InfraRed Imaging Laboratory (IRIL), Centre for Sen
13:54	13:01	182	Infrared Camera Calibration Procedure and Uncertainty Budget Estimation	Dr Sharath D	Indira Gandhi Centre for Atomic Research, Kalpakka

**NDE for Civil Infrastructure / Concrete - 1**  
**12th December 2025 - 11:30 to 13:08**

<b>Session Number</b>	1C				
<b>Hall</b>	Bhabha (202)				
<b>Session Chairperson</b>	R Vidyasagar				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Name of Speaker</b>	<b>Organisation Name</b>
11:30	11:55	IT 03	Fingerprint – An Interrogation Tool for Health Assessment of Structures using Nonlinear Ultrasonic Features	Dr Saptarshi Sasmal	SERC CSIR

11:55	12:08	31	Non Destructive assessment of tensional state of pre and post tensioning tendons of civil infrastructures by X-Ray Diffraction ( XRD) and Barkhausen Noise ( MBN ) methods.	Mr Vamsi Krishna Rudraraju	GNR ANALYTICAL INSTRUMENTS
12:08	12:21	57	New Trends in the Ultrasonic Pulse-Echo Tomography of Concrete Structures	Mr Sergey Nazhestkin	ACS-Solutions GmbH
12:21	12:34	144	Benchmarking Concrete with Computed Tomography: Advanced 3D Analysis for Precise and Rapid Construction	Mr Jainabalkya Guhathakurta	Universität Stuttgart ITI/CIS
12:34	12:47	249	Surface Wave-based Characterization of Viscoelastic Layered Media with Application to Asphalt Pavements	Dr Vivek Samu	Indian Institute of Science Bangalore
12:47	12:54	162	Detection and Imaging of Vertical surface breaking defects in concrete	Mr Avinash kumar yadav	Academy of Scientific and Innovative Research, Gha
12:54	13:01	192	A Review on Ultrasonic and Electromagnetic Wave Techniques for Monitoring the Self-Healing Performance of Concrete Structures.	Ms MADHUMITHRA E	1. Academy of Scientific and Innovative Research,
13:01	13:08	253	Ultrasonic Pulse velocity properties of Heavy weight Concrete with Fly ash and Slag	Mr Venkatachalapathy V	Bhabha Atomic Research Centre

**DR/CR/CT Technology**  
**12th December - 11:30 to 13:14**

<b>Session Number</b>	1D				
<b>Hall</b>	Sarabhai (205A)				
<b>Session Chairperson</b>	V Manoharan				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Name of Speaker</b>	<b>Organisation Name</b>
11:30	11:55	IT 04	PhotoMax with Assisted AI for Mechanical Integrity- the Evolution of Material Loss Quantification	Raj Venkatachalam	Varex
11:55	12:08	46	Automated Detection and Measurement of Internal Lengths in Digital Radiographs Using Image Processing	Mr Srivathsan S	Bhabha Atomic Research Centre
12:08	12:21	88	AI in NDT: Balancing Speed, Accuracy, and Trust in CT/X-ray Inspection	Mr Raju Gupta	Waygate Technologies a Baker Hughes business
12:21	12:34	100	Determination of Focal Spot Size of Micro-Focus X-ray Tube Using Edge Response Analysis	Mrs Ritu	BARC
12:34	12:47	152	Scaling Features, Not Pixels: Lightweight High-Resolution Defect Segmentation for Industrial Radiography Using Feature Upsampling	Mr Soumendhra Dhanee	VJ Imaging Technologies Private Limited
12:47	13:00	154	Quantitative Comparison of Density Variations in Film, Computed, and Digital Radiography of Aluminium Alloy 2219 for Aerospace Applications	Mr Kamesh guru	ISRO PROPULSION COMPLEX, MAHENDRAGIRI

13:00	13:07	228	AI-Driven Transformation of Radiographic NDE: Advancing Automation and Accuracy in Industrial X-ray Inspection	Chakravarthy B V	Visi Consult Private Limited
13:07	13:14	233	Deep Vision-Based Automated (DVA) Detection of Weld Defects in Radiographic Imaging	Mrs Rini PL	Indian Institute of Technology Madras

**Multi NDE, NDE Sensors and Instrumentation**  
**12th December 11:30 to 13:14**

<b>Session Number</b>	1E				
<b>Hall</b>	Bose (205B)				
<b>Session Chairperson</b>	Sarmishtha P Sagar				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Name of Speaker</b>	<b>Organisation Name</b>
11:30	11:55	LT171	Ultrasonic guided and bulk wave techniques of a simultaneous concept for detecting fuel mixture composition and its properties	Prof Suresh Periyannan	NIT Warangal
11:55	12:08	120	Dual-Mode Excitation of Multifunctional Chevron Electromagnetic Acoustic Transducer	Dr Ambuj Kumar Gautam	Osaka University, Osaka, Japan
12:08	12:21	127	Robotics-Enabled Subsea NDE - Empowering Industrial Excellence Through Intelligent Inspection	Mr Christopher Do	IEV GROUP SDN BHD

12:21	12:34	156	Ultrasonic temperature sensor development for measuring furnace temperature using ToF and Frequency shifts	Mr S R V NARSAIAH S	National Institute of Technology, Warangal
12:34	12:47	160	Design and fabrication of elastic lens for focusing of circular crested ultrasonic guided waves	Mr Lokesh Sonkar	IIT Bhilai
12:47	12:54	190	handheld xrf(PMI) for Power and oil gas sector	Mr kartik parmeshwaran	evident scientific india pvt ltd
12:54	13:01	203	Additive Manufacturing of CsI:TI Scintillator Films and Their Non-Destructive Analysis Using Pulse Shape Discrimination in Mixed Radiation Environments	Mr Divya Pandya	Pandit Deendayal Energy University

**NDE for Pipeline Integrity and Leak Detection**  
**12th December 14:00 to 15:45**

<b>Session Number</b>	2A				
<b>Hall</b>	Raman (204A)				
<b>Session Chairperson</b>	M R Bhat				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
14:00	14:25	IT 05	Marriage Made Underground - Pipelines and DAS	Dr Balaji Srinivasan	IIT Madras
14:25	14:38	114	Challenges in Leak Identification in the Liner of Urea Reactor in Fertilizer Plants	Mr Amit Kumar Mishra	HINDUSTAN URVARAK & RASAYAN LIMITED

14:38	14:51	177	Limitation and Effect of Permeation through O ring joints during Helium Leak Testing of Large Volume Vessels	Dr Venkat Natesan Ramani	Plasma and Vacuum Technologies
14:51	15:04	180	Detection of internal flaws during periodical check on cage suspension gear components used in underground mines	Dr Bhagirath Ahirwal	CSIR-Central Institute of Mining & Fuel Research
15:04	15:17	189	Long-Distance Video Borescope for Piping Systems and Heat Exchangers Tubes Visual Inspection	Mr Shobhit Verma	Evident India
15:17	15:30	222	Issues Related to NDT Selection and use in the process equipment and piping	Mr Vemuri Padmanabha Sastry	Asset Integrity and Materials Engineering Services
15:30	15:37	161	Fiber-Optic Distributed Sensing System for Real-Time Acoustic, Strain, and Temperature Monitoring	Mr SANIDHYA CHATURVEDI	IIT MADRAS
15:37	15:44	278	Machine Learning Systems for Pipeline Monitoring using Distributed Acoustic Sensing Data	Nandhakishore C S	IIT Madras

**NDE in Nuclear Industry  
12th December 14:00 to 15:45**

<b>Session Number</b>	2B
<b>Hall</b>	Kalam (204 B)



Session Chairperson	MT Shyamsunder				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
14:00	14:25	IT 06	Recent developments in NDE for fast breeder nuclear programme	Anish Kumar	IGCAR
14:25	14:38	52	Detection and Characterization of Hydrogen Induced Cracks in Exchange Towers of Heavy Water Plant using Ultrasonic Phased Array Technique	Mrs JOTHILAK SHMI N	Bhabha Atomic Research Centre
14:38	14:51	96	Eddy Current Testing Technique for Detection of Multi-Oriented Flaws in Calandria Tubes of Indian PHWRs	Mr Harsh Madhukar Bapat	Bhabha Atomic Research Centre
14:51	15:04	194	Experiences of Quality Assurance during Manufacturing of Inconel 625 Welded Disc Bellows for Nuclear Application	Mr E Ramesh	Indira Gandhi Centre for Atomic Research
15:04	15:17	200	Enhanced Detection of Tubesheet Region Flaws in Steam Generator Tubes Using an Array-Based Eddy Current Methodology	Mr Praveen D Bhosale	Nuclear Power Corporation of India Ltd
15:17	15:30	208	Phased Array Ultrasonic Testing (PAUT) application in Indian Nuclear Power Plants	Mrs sushmita sethi	Nuclear Power Corporation of India Limited
15:30	15:37	187	Conventional and Advanced NDE Technique Applications in	Mrs Anisha Bhatnagar	Nuclear Power corporation of india limited

			Nuclear Power Plants- Pressurized Heavy Water Reactors (PHWRs)		
15:37	15:44	205	Quality assurance of dissimilar welds of titanium with stainless steel in nuclear piping facility	Mr Mohan Jayaraman	Indira Gandhi Centre For Atomic Research

**Guided Wave Ultrasonics**  
**12th December 14:00 to 15:45**

Session Number	2C				
Hall	Bhabha (202)				
Session Chairperson	Gangadharan Raju				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
14:00	14:25	IT 07	Dual-mode FPGA-based structural health monitoring (SHM) and non-destructive testing (NDT) system for ultrasonic guided wave inspection of pipes	Prof. Siddharth Tallur	IIT Bombay
14:25	14:38	103	Frequency-Dependent Behavior of Dual-Mode Second Harmonics in Nonlinear Guided Waves	Dr Krishnadas V K	Centre for NDE, Indian Institute of Technology Mad
14:38	14:51	105	Development of a Transducer Ring for Torsional Guided Wave NDT in Pipelines	Dr M.M. Narayanan	Federal Institute for Material Research and Testing

14:51	15:04	178	Design & Development of Conical Waveguide for Non-Intrusive Ultrasonic Flow Meter	Mr Yashaswi	Bhabha Atomic Research Centre, Mumbai
15:04	15:17	204	Effect of tensile stress on nonlinear output response of ultrasonic guided wave propagating in plate with closed crack	Mr Alok Kumar	Bhabha Atomic Research Centre, Mumbai
15:17	15:30	245	Application of the Staggered EMAT to Generate Helical Guided Wave in Pipe Structures	Mr Pranaydeep Garewal	Indian Institute of Technology Madras, Chennai
15:30	15:37	119	Synthetic generation of ultrasonic guided wave signals using conditional Wasserstein GAN with gradient penalty	Mr DUMMU VAMSI	INDIAN INSTITUTE OF TECHNOLOGY, BHILAI
15:37	15:44	266	Coherence-Based Guided Wave Imaging for Reliable Inspection of Thin-Walled Structures	Mr Kaushal Bachhav	Center for Non Destructive Evaluation, IIT Madras

**Magnetic and Electromagnetic NDE**  
**12th December 14:00 to 15:45**

<b>Session Number</b>	2D				
<b>Hall</b>	Sarabhai (205A)				
<b>Session Chairperson</b>	Arbind Kumar				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>

14:00	14:25	IT 08	Magnetization Mechanisms and Processes for the Non-Destructive Evaluation of Ferromagnetic Steel Parts	Benjamin Ducharme	INSA- Lyon, France
14:25	14:38	76	Comparative Evaluation of Magnetization and Demagnetization Techniques in Magnetic Particle Inspection	Mr Ritvik Arora	Arora Technologies (P) Limited
14:38	14:51	89	Characterization Of False Surface Indications In Magnetic Particle Testing Of Pipes: A Case Study On Mechanical Entrapment And Cross-Verification Using Penetrant Testing And Complementary NDT Techniques	Mr PINTUKUM AR PRAVINBH AI PATEL	L&T Energy-Hydrocarbon, MFF Hazira, Gujarat, India
14:51	15:04	150	Multi-Year MFL Inspection Study of Wire Ropes in Passenger Ropeway: Detection of Internal Degradation and Localized Wear Patterns	Mr Sachchak Waghmare	CSIR - Central Institute of Mining and Fuel Research
15:04	15:17	215	Automated Flaw Detection in Eddy Current Signals Using 1D Convolutional Neural Networks	Mr Tikesh Kumar Sahu	Indira Gandhi Centre for Atomic Research Kalpakkam
15:17	15:30	246	Optimizing Eddy Current Testing Using Particle Swarm Algorithm for Accurate Aircraft	Dr Joseph J Kakkassery	Vel Tech Rangarajan Dr. Sagunthala R&D Institute

			Structural Health Monitoring		
15:30	15:37	272	Design and Development of High-Temperature Bulk Wave EMAT Sensors with Magnetic Flux Concentration for Ultrasonic Inspection	Mr PAWAN KUAMR PANDEY	CNDE , IIT Madras

**Acoustic Emission**  
**12th December 14:00 to 15:45**

<b>Session Number</b>	2E				
<b>Hall</b>	Bose (205B)				
<b>Session Chairperson</b>	Saptarshi Sasmal				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
14:00	14:25	IT 09	Acoustic Emission and Digital NDE: Advancing Predictive maintenance and industrial reliability	Sakshi Sharma	Dover Corporation
14:25	14:38	68	Experimental Investigation of Leak Detection in Pressure Tubes of PHWR	Mr MD TIPU SULTAN	Homi Bhabha National Institute & RED, BARC
14:38	14:51	159	An Experimental Investigation of Surface Crack Propagation in ESR 15CDV6 Steel Using Waveform and Wavelet Based Acoustic Emission	Mr BINU B	Vikram Sarabhai Space Centre, ISRO, Trivandrum

			Signal Processing		
14:51	15:04	186	Acoustic Emission Characterization of Crack Initiation and Propagation in Thin Aluminium Alloy under Static Tensile Loading	Ms Fakiha Khatun	CNDE, INDIAN INSTITUTE OF TECHNOLOGY MADRAS

**NDE of Composites**  
**12th December 16:00 to 17:45**

<b>Session Number</b>	3A				
<b>Hall</b>	Raman (204A)				
<b>Session Chairperson</b>	Balaji Srinivasan				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 10	DEEP LEARNING BASED DAMAGE CHARACTERIZATION IN CFRP COMPOSITES USING ACOUSTIC EMISSION TECHNIQUE	Prof Gangadharan Raju	IIT-Hyderabad
16:25	16:38	109	A Novel Thermographic Approach for Testing and Evaluation of Carbon Fibre Reinforced Polymers	Mr Suresh Kumar Bhambhu	InfraRed Imaging Laboratory (IRIL), Centre for Sen

16:38	16:51	116	Early Damage Detection in Bent Composite Pipes Using Ultrasonic Guided Wave-Based Structural Health Monitoring	Dr Akshay Prakash Kalgutkar	Department of Civil Engineering, Aalto University
16:51	17:04	128	A Novel Approach for Detection of Envelope in Frequency Modulated Thermal Wave Imaging for Testing and Evaluation of Glass Fibre Reinforced Polymer	Ms Priyanka Das	Indian Institute of Technology Delhi
17:04	17:17	153	Scattered Delamination Study on CFRP Unidirectional and Bidirectional Prepreg Skin Sandwich by Pulsed Thermography	Mr SOBHANAN M B	National Institute of Technology, Thiruchirappalli
17:17	17:24	107	Rectangular Cavity Resonator Sensor for Non-Destructive Measurement of Coating Thickness on FRP Composites	Ms Tannu Anand Ramteke	Visvesvaraya National Institute of Technology Nagp
17:24	17:31	110	Coded Excitation-Based Active Thermography for Improved Defect Detection in GFRP Composites	Mr Ishant singh	Indian Institute of Technology Delhi
17:31	17:38	274	A framework to Evaluating Anisotropic Material Properties for CFRP using Ultrasonic Polar Scan Technique	Mr Shivam Lashkan	Center for Non Destructive Evaluation, IIT Madras

**Imaging in NDE**  
**12th December 16:00 to 17:45**

<b>Session Number</b>	3 B				
<b>Hall</b>	Kalam (204 B)				
<b>Session Chairperson</b>	PVS Kurmanath				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 11	Small Scale Testing using Digital Image correlation for Accelerated Qualifications of Additively Manufacturing in Gas Turbines	Deepa Srinivasan	BHGE
16:25	16:38	36	Full-field metrics for damage detection: a case-study involving glass fiber composite	Dr Amar Peshave	MatchID NV
16:38	16:51	122	Advancements on Image Quality Measurements Tools	Mr Sheri George	Waygate Technologies
16:51	17:04	133	Innovative Imaging and Acquisition Techniques for Weld Evaluation with High Speed Phased Array Systems	Mr Tibin Thomas	TPAC India
17:04	17:17	234	Paradigm shift in PAUT: Redefining the Ultrasound Imaging Using Custom Phased Array Excitation	Mr Setu Thacker	Centre for NDE, IIT Madras, Chennai
17:17	17:30	240	Quantitative assessment of imaging performance in digital detectors for high energy X-ray radiography using Modulation Transfer	Mr Susheel Patil	Sathish Dhawan Space Center-ISRO, Sriharikota



			Function analysis		
17:30	17:37	216	Studies on radiation shielding properties of heavy weight concrete using X-ray radiography	Mr BAGAVAT HIAPPAN S	Non-Destructive Evaluation Division, Metallurgy an
17:37	17:44	279	Development of Machine Vision Systems for Automatic Dimensional Measurement of Tooling for Cold Pilgering	Satish Kumar. P	NFC Hyderabad

**NDE for Structural Integrity and Health Monitoring - I**  
**12th December 16:00 to 17:45**

<b>Session Number</b>	3 C				
<b>Hall</b>	Bhabha (202)				
<b>Session Chairperson</b>	Anish Kumar				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 12	NDE for Health Monitoring of Advanced Composite Aerospace Structures – Some Practical Challenges	M R Bhat	IISc Bangalore

16:25	16:38	48	Modern approaches for Industrial simultaneous high-capacity examination of plates and coils both for hard spots and laminations by hybrid UT+EC probes. Practical aspects of application, certification and calibration	Dr Andrej Kirikov	Nordinkraft AG
16:38	16:51	85	Comprehensive Integrity Evaluation of Reformer Tubes in Hydrogen Generation Unit	Mr Ashish kumar singh	Indian Oil Corporation Limited, Mathura Refinery
16:51	17:04	167	Advancing Structural Health Monitoring of Heritage Masonry through Fiber Bragg Grating Sensors	Ms Hina Gupta	CSIR-Central Building Research Institute, Roorkee
17:04	17:17	185	Reducing False Calls in HTHA Inspection through PCI	Mr Ajay Bhatt	Evident
17:17	17:30	267	Need for specific acceptance criteria for Liquid Penetrant Examination (PT) of Tube to Tubesheet Weld Joints.	Mr Swapnil Bhosale	Reliance Industries Limited
17:30	17:37	151	Progressive Failure Analysis and Real-Time Damage Monitoring of GFRP Composites under Fatigue Loading	Mr HITESH MISHRA	NIT Rourkela
17:37	17:44	271	NDE Requirements in Fabrication of Temperature Swing Adsorber Vessels	Dr Kamal Harikrishna Dhandha	TUV India Pvt. Ltd.

## AI in NDE

## 12th December 16:00 to 17:45

Session Number	3D				
Hall	Sarabhai (205A)				
Session Chairperson	Christophe Reboud				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
16:00	16:25	IT 13	Role of Generative AI in NDE	Baishali Garai	RV University
16:25	16:38	55	Towards Intelligent Quality Control: AI-Based Defect Detection in Small-Scale Objects	Mr AYUSH KAPOOR	BHABHA ATOMIC RESEARCH CENTRE
16:38	16:51	63	AI-Enabled Inspection Workflow Automation for Aircraft Engine Borescope Inspections	Mr Bismillah Kani	Waygate Technologies
16:51	17:04	136	Multimodal Deep Learning Framework for Crack Segmentation in Complex Components Using Robot-Assisted Laser Thermography	Ms Sruthi Krishna Kunji Purayil	Federal Institute for Materials Research and Testing
17:04	17:17	146	Digital Transformation: Cloud based Data Management and AI for NDT inspection	Mr Manit Kant	Waygate Technologies
17:17	17:30	241	Grain Orientation Prediction using Thermal Images and AI	Mrs Nishi Bhemani	IIT Madras

17:30	17:37	91	Physics informed neural network (PINN) to estimate the defects in CFRP sample using lock-in (LT) Thermography.	Ms Jasleen Kaur	Indian Institute of Technology Delhi
17:37	17:44	236	AI for Ultrasonic Testing (UT) in Non-Destructive Evaluation	Neelam Bhagasra	Baker Hughes

**Reliability, POD, RBI, QA and QC**  
**12th December 16:00 to 17:45**

<b>Session Number</b>	3E				
<b>Hall</b>	Bose (205B)				
<b>Session Chairperson</b>	Deepesh Vimalan				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 14	Role of NDT in Risk Based Inspection	Vemuri P Sastry	Former Reliance
16:25	16:38	49	Assessment of Uncertainty in Ultrasonic Testing of Composites: A Case Study	Dr Chetan Ashok SOmani	The Maharaja Sayajirao University of Baroda
16:38	16:51	61	Application of Ultrasonic Testing for Qualification of Buttering in Dissimilar Welds of a Heat Exchanger- A Case Study	Mr MOHD ZAHID HUSSAIN	BHABHA ATOMIC RESEARCH CENTRE MUMBAI

16:51	17:04	70	EXPERIENCES IN QA & INSPECTION DURING FABRICATION OF EXPANSION TANK IN FAST BREEDER REACTOR APPLICATIONS	Mr Kaliamoorthy. G	Department of Atomic Energy
17:04	17:17	72	Reliability Assessment of Canned Motor Pump End Bell Forgings	Mr ANOOP SINGH	Nuclear Power Corporation of India Limited
17:17	17:30	81	Quality Assurance Experiences during Procedure Qualification for Stellite-6 hard facing on small bore FBR components	Mrs ALKA KUMARI	IGCAR KALPAKKAM
17:30	17:37	183	PROCEDURE QUALIFICATION OF LAS GRADE 5 WELDS WITH LAS CONSUMABLES (EB6) FOR -15°C IMPACT PERFORMANCE	Mr. P Premkumar	Precision Equipments Chennai Pvt Ltd
17:37	17:44	269	Achieving Equivalency of Digital/Computed Radiography methods to Film Radiography for Welds	Mr Anmol Birring	Birring NDE Center, Inc.

**Microwave and THz NDE**  
**13th December 11:30 to 13:15**

<b>Session Number</b>	4A
<b>Hall</b>	Raman (204 A)

<b>Session Chairperson</b>	<b>PVS Kurmanath</b>				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
11:30	11:55	IT 15	Advances in Non-Destructive Evaluation of Composite Structures : A Multimodal Perspective	Dr K Srinivas	Advanced Systems Laboratory, DRDO, Kanchanbagh PO
11:55	12:08	74	Towards Efficient THz Image Analysis: Comparing Transformer and CNN Architectures	Mr Rishi Ranjan	CSIR-Central Electronics Engineering Research Inst
12:08	12:21	97	Exploring Image Stitching Methods for Terahertz Images	Mr Rishi Ranjan	CSIR- Central Electronics Engineering Research Ins
12:21	12:34	224	Non-Destructive Evaluation of MDPE Pipe Welds Using Terahertz Time-Domain Imaging	Mr Nitin Balajee Ravi	TeraLumen Solutions Pvt. Limited
12:34	12:47	225	Multilayer Thickness Measurement of Thermal Barrier Coatings on CFRP materials using Deconvolution-Based Signal Processing for THz systems	Mr Nitin Balajee Ravi	TeraLumen Solutions Pvt. Limited
12:47	13:00	232	Non-Destructive Characterization of High-Energy Materials Using Terahertz Techniques	Dr Koalla Rajesh	DIA-CoE, University of Hyderabad

## Automation, Robotics, AI/ML and NDE 4.0

## 13th December 11:30 to 13:15

<b>Session Number</b>	4B				
<b>Hall</b>	Kalam (204 B)				
<b>Session Chairperson</b>	Ripi Singh				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
11:30	11:55	IT 16	The Role of NDE in Digital Twins	Dr. MT Shyamsunder	Azeriri
11:55	12:08	32	ROBOTIC INSPECTION OF INDUSTRIAL ASSETS – CASE STUDIES	Mr Sahab Gurjar	PetroBot Technologies Pvt Ltd
12:08	12:21	34	Application of Multi-Degree Hybrid Kinematic Hanging Accubot for Ultrasonic Inspection of Aircraft Fuselage and Critical Components.	Mr Ashutosh Kumar	Fill GmbH, Austria
12:21	12:34	53	UltraBoT: A Multifunctional Robotic Solution for Ultrasonic and Visual Inspection of Kilns, Tanks, and Boiler Waterwalls	Mr UMANG GOSWAMI	IRC ENGINEERING SERVICES PRIVATE LIMITED INDIA
12:34	12:47	64	Green Energy Transformation and Need of Automated NDT	Mr Sujit Chakravarty	Velosi (M) Sdn. Bhd.
12:47	13:00	137	A FAST VERTICAL AND HORIZONTAL HISTOGRAM BASED TEXT DETECTION IN RADIOGRAPHY	Dr Archana S	SASTRA University

			WELD IMAGE		
17:30	17:37	149	Guided Wave-Based Damage Detection Using Machine Learning Algorithms.	Mr Raj Srivastava	IIT Roorkee
17:37	17:44	221	AI-Enabled Drone Systems for Advanced Non-Destructive Evaluation (NDE)	Sailaja Sahoo	NDT TCIS Pvt. Ltd.

**Regulations, Human Intelligence and NDE**  
**13th December 11:30 to 13:15**

<b>Session Number</b>	4C				
<b>Hall</b>	Bhabha (202)				
<b>Session Chairperson</b>	Divakar Joshi				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
11:30	11:55	IT 17	Towards a new model for considering organizational and human factors in nondestructive testing. Application to radiographic testing	Dr. Moysan	Aix-Marseille University
11:55	12:20	IT 18	NDE research and innovation -. is	Dr. Deepesh	BHEL, Trichy



			commonsense a friend or a foe?		
12:20	12:33	42	Automated decision-making process for NDE – A perspective from Lloyd's Register as a Regulatory Body.	Mr Peter Amin	Lloyd's Register
12:33	12:46	239	ASME Section - V Edition 2025 Code Changes	Mr Shreeniwas Prakash Deodhar	QInsight Consol Private Limited
12:46	12:59	277	NDT Training needs for inspecting Aerospace Composites	Navita Gupta	Satyakiran Institute

**Infrared Thermography - II**  
**13th December 11:30 to 13:15**

<b>Session Number</b>	4D
<b>Hall</b>	Sarabhai (205A)
<b>Session</b>	Vanita Arora

Chairperson					
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
11:30	11:55	IT 19	Role of Artificial Intelligence in Thermal Imaging for Disease Diagnostics	Shruti Bharadwaj	IIT Delhi
11:55	12:08	112	Evaluation of Thermal Excitation and Data Processing Techniques for Enhanced Defect Detection in CFRP Composites	Mr Ishant singh	Indian Institute of Technology Delhi
12:08	12:21	145	Thermal Non-Destructive Inspection of Metals using Advanced Signal Processing	Mr Suresh Kumar Bhambhu	InfraRed Imaging Laboratory (IRIL), Centre for Sen
12:21	12:34	206	Determination of Thermal Diffusivity using Thermography	Mr Kumar Jaideep	Bhabha Atomic Reaseach Centre
12:34	12:47	252	Thermography analysis of ultrasonically welded thermoplastic composites	Dr Anshul Sharma	Department of Aerospace Structures and Materials,
12:47	13:00	255	Adhesive Bond - Debonding Analysis at the Shaft-Composites Interface of Archimedes Spiral Wind Turbines by Thermal Imaging	Mr Surya prakash Gajjala	Gitam University
17:30	17:37	175	Non-destructive evaluation of Chromium coating on EN24 steel substrate using ultrasonic and thermographic techniques	Mr Anand Parmar	Department of Mechanical Engineering, Amrita Schoo
17:37	17:44	199	Evaluation of Tensile Behaviour of Aluminum Using	Mr KRITHIK KRISHNA K	Centre for NDE, Indian Institute of Technology Mad

			Infrared Thermography		
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**Modelling and Simulation, Simulation Assisted AI**  
**13th December 11:30 to 13:15**

<b>Session Number</b>	4E				
<b>Hall</b>	Bose (205B)				
<b>Session Chairperson</b>	Ravibabu Mulaveesala				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
11:30	11:55	LT 243	Integration of Ultrasonic Testing and Simulation Data Using Sinusoidal Fuzzy Logic for UAV Wing Defect Prediction	Dr Joseph J Kakkassery	Vel Tech Rangarajan Dr. Sagunthala R&D Institute
11:55	12:08	131	Modeling and simulation of speed control mechanism of IPIGs for gas pipelines	Mr Debmalya Mukherjee	Bhabha Atomic Research Centre
12:08	12:21	157	Numerical Study of Laser-Generated Ultrasonics in Metals for Advanced Non-Contact Inspection	Dr Udit Pant	Indian Institute of Technology Madras
12:21	12:34	242	Numerical simulation and validation of ultrasonic wave propagation in a strip waveguide with various geometric reflectors using FDTD in MATLAB.	Mr Samyak Wankhade	National Institute of Technology Warangal

12:34	12:47	275	Plane-Wave Time-Reversal Imaging of Defects in Austenitic Stainless Steel Weld Joint	Deepak Patel	IGCAR
12:47	12:54	217	Numerical Investigation of Pressure wave Attenuation in Fluid-Tube System: A Parametric Study	Ms PRIYANKA M	National Institute of Technology, Tiruchirappalli
12:54	13:01	231	Physics-Informed Neural Network for Efficient simulation of Ultrasonic Wave Dynamics	Mr SUDHANS HU YADAV	NDX Lab IIT Hyderabad
13:01	13:08	280	Time- Frequency Domain Based Ultrasonic Technique for flaw Characterization in Thin Wall Tube End Plug Welds	Altaf Ali	NFC Hyderabad

**NDE Systems, Instrumentation and Automation**  
**13th December 14:00 to 15:45**

<b>Session Number</b>	5A
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<b>Hall</b>	Raman (204A)				
<b>Session Chairperson</b>	Siddharth Tallur				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
14:00	14:25	LT 227	High-performant automated testing machines for wall thickness and geometry measurements of tubes and pipes	Mr Siva	BakerHughes
14:25	14:38	47	Development and Validation of an Advanced Ultrasonic Phased Array Inspection System for the Automated Testing of Seamless Steel Pipes in Production Lines	Dr Sanjeevareddy Kolkoori	Rosenxt IDS GmbH Germany
14:38	14:51	80	Development of a tool for aided visual examination at inaccessible area	Mr RAMESH P	IGCAR
14:51	15:04	155	Development of a Real-Time Ultrasonic Sensing technique for Measuring the fluid level in a long fluid tank	Mr Chetla Venugopal	National Institute of Technology, Warangal
15:04	15:17	250	Technology Landscaping of Inspection Micro-bots	Mr Ayush Chauhan	GE Aerospace Research
15:17	15:30	251	Automated Identification of Subsurface Fruit Bruises through Thermal Imaging	Dr Shruti Bharadwaj	Indian Institute of Technology Delhi
15:30	15:37	118	Dual-mode FPGA-based structural health monitoring (SHM) and non-destructive testing	Ms Sheetal Patil	IIT Bombay

			(NDT) system for ultrasonic guided wave inspection of pipes		
15:37	15:44	276	Autonomous Drone-Based Surveillance for Pipeline and Underground Asset Monitoring	Mugdha Joshi	IQS

**Advanced Ultrasonics - PAUT, FMC, TFM**  
**13th December 14:00 to 15:45**

Session Number	5B				
Hall	Kalam (204 B)				
Session Chairperson	Phani Mylavarapu				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
14:00	14:25	IT 20	Deep Learning Framework for TFM Imaging in Non-Destructive Evaluation.	Thulsiram Gantala	IITH
14:25	14:38	50	Phased Array Ultrasonic Testing(PAUT) of Wind Turbine Blades	Mr Kalimullah Khan	Professional Testing & Inspection Solutions
14:38	14:51	196	Comparative study on over 150m of welded joints using established (PA/TOFD) and emerging (PCI/TFM) ultrasonic imaging methods	Mr Dennis Chai	Evident Inspection Technologies
14:51	15:04	207	Phased array ultrasonic testing of an elbow joint of power plant	Mr Kumar Jaideep	Bhabha Atomic Research Centre

15:04	15:17	209	High-Resolution Defect Imaging in Additive Manufactured SS samples via Frequency-Optimized FMC/TFM Phased Array Ultrasonic Techniques	Mr A VISWANATH	Non Destructive Evaluation Division, Metallurgy an
15:17	15:30	268	Optimal design of a matrix phased array with a Fermat spiral layout for volumetric ultrasonic imaging using Total focusing method.	Dr Dmitry Dolmatov	National Research Tomsk Polytechnic University
15:30	15:37	218	Phased Array Ultrasonic Testing for In-situ High Temperature Evaluation of Solidifying Steel during continuous casting Process.	Mr KARTIK RAMESH PAGE	Indian Institute Of technology Madras
15:37	15:44	219	Advanced Phased Array Ultrasonic Imaging Using Sign Coherence Factor for Weld Inspection	Mr Himanshu Saini	NDX Lab, IIT Hyderabad

**NDE for Structural Integrity and Health Monitoring - II**  
**13th December 14:00 to 15:45**

<b>Session Number</b>	5C
<b>Hall</b>	Bhabha (202)

<b>Session Chairperson</b>	<b>Christian Boller</b>				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
14:00	14:25	IT 21	Next Gen SHM: Distributed Fibre Optic Sensing from Lab-scale to Flight-scale	Amitabha Datta	NAL
14:25	14:38	41	Ultrasonic Evaluation of Indian Railway Tracks and Welds: Challenges, Advancements and Future Road Map .	Mr Vishwajeet Bhattacharya	Deputy Director/M&C ,RDSO , Lucknow
14:38	14:51	143	Innovations in Magneto-impedance Sensing Device for Industrial Applications	Dr ASHIS KUMAR PANDA	CSIR-National Metallurgical Laboratory, Jamshedpur
14:51	15:04	147	Characterization of Structural Frequencies leveraging Accelerometer Output Responses using Signal Decomposition Method with potential application in Structural Health Monitoring (SHM)	Mrs VIDYALAKSH MI R	Indira Gandhi Centre for Atomic Research, Kalpakka
15:04	15:17	168	Experimental Evaluation of Settlement-induced Damage in Heritage and Masonry Elements Using DIC Techniques	Ms Hina Gupta	CSIR-Central Building Research Institute, Roorkee
15:17	15:30	254	Thermal Imaging for Predictive Maintenance and Optimization of Rooftop Spiral Wind Turbines in Urban	Mr Surya prakash Gajjala	Archimedes Green Energys Pvt Ltd



			Environments		
15:30	15:37	102	Plate Damage Detection Based on Soft-Coupled PZT Sensors and Probabilistic Imaging	Ms Khushboo Kanwar Rathore	Indian Institute of Technology Jammu, Jammu
15:37	15:44	262	Multi-modal data acquisition and hybrid sensing framework for damage and Integrity evaluation in structural assemblies	Dr Srikanth Korla	National Institute of Technology Warangal

**NDE for Aerospace Structure and Systems**  
**13th December 14:00 to 15:45**

<b>Session Number</b>	5D				
<b>Hall</b>	Sarabhai (205 A)				
<b>Session Chairperson</b>	K Srinivas				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
14:00	14:25	IT 22	Advanced NDE methods for large Solid Rocket Motors	PVS Kurmanath	SHAR ISRO
14:25	14:38	51	Sub-surface Defects Estimation of Additively Manufactured Alloy Using Pulsed Thermography and Laser Shearography Techniques	Mr Remakanthan S	VSSC,ISRO

14:38	14:51	94	Evaluation of Interface Bonding Defects in Propellant-Based Igniters Using Computed Tomography	Mr BINU O	Vikram Sarabhai Space Centre, ISRO, Thiruvanantha
14:51	15:04	98	Non-destructive evaluation of 60mm thick MIG weldjoint for its usage at 8mm thickness for critical aerospace application	Mr Sambamurthy enugula	Vikram sarabhai space centre
15:04	15:17	176	Non-Destructive Ultrasonic Evaluation of Low-Weight Composite Thermal Protection Systems for Re-Entry Missions	Mr Austin C	VSSC/ISRO

**NDE for Civil Infrastructure / Concrete - II**  
**13th December 14:00 to 15:45**

<b>Session Number</b>	5E				
<b>Hall</b>	Bose (205B)				
<b>Session Chairperson</b>	Saptarshi Sasmal				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>

14:00	14:25	IT 23	Acoustic Emission Testing of Concrete: Precursors for Detecting Impending Fracture Using Natural Time Analysis	R Vidyasagar	IISc Bangalore
14:25	14:38	38	Acoustic Material Testing – for Measurement of structural health or hollow layers in Concrete elements	Mr Jörg Ritter	RTE Transweigh India Pvt. Ltd.
14:38	14:51	134	Characterization of Concrete Tunnel Lining using GPR	Mr Avinash kumar yadav	Academy of Scientific and Innovative Research (AcS
14:51	15:04	164	Condition Monitoring of Masonry Structures with Artificial Defects Using Non-Destructive Evaluation Techniques	Dr Debdutta Ghosh	CSIR-CBRI
15:04	15:17	247	Evaluation of Self-Healing in Concrete Micro-Cracks Using Ultrasonic and CT-Scanning-Based Non-Destructive Techniques.	Ms MADHUMIT HRA E	1. Academy of Scientific and Innovative Research,

**Radiation Based NDE**  
**13th December 16:00 to 17:45**

<b>Session Number</b>	6A
<b>Hall</b>	Raman (204A)

<b>Session Chairperson</b>	<b>PR Vaidya</b>				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 24	Synchrotron radiation an emerging tool for Non-Destructive assessment of stress and micro-structure in engineering components	Sanjay Kumar Rai	RRCAT
16:25	16:38	73	Automation in XRay Acquisition through Automatic filter changer, 1-Click acquisition and QR Code support	Mr Sheri George	Waygate Technologies
16:38	16:51	83	Digital Radiography for Non-destructive Evaluation of Nuclear-Grade Radiation Shielding Concrete	Dr Lakshminarayana	Bhabha Atomic Research Centre
16:51	17:04	99	Neutron Radiography as a Nondestructive tool for Quantitative Hydrogen Profiling in Zirconium Alloys	Dr shefali shukla	BHABHA ATOMIC RESEARCH CENTRE
17:04	17:17	202	Photon Counting Detector for Industrial Application and Comparison with Conventional CT	Mrs Lenka Bhargavi	GE Research

**NDE for Metallic Components  
13th December 16:00 to 17:45**

<b>Session Number</b>	6B				
<b>Hall</b>	Kalam (204 B)				
<b>Session Chairperson</b>	Joseph Moysan				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 25	NDE Challenges in Next-Gen Nickel & Titanium Alloys	Phani Mylavarapu	DMRL-DRDO
16:25	16:38	43	Ensuring Component Integrity in Thermal Power Plants: The Role of Advanced NDE During Energy Transition	Dr Avijit Mondal	NTPC LIMITED
16:38	16:51	69	Ultrasonic Characterization of Cold working in Austenitic Stainless Steel material	Mr RAKESH KUMAR PAL	Bhabha Atomic Research Centre
16:51	17:04	84	Residual Stress Measurement by Hole-Drilling Method on Heavy Rotor Shaft Forgings of 30CrMoNiV5-11 Material as per ASTM E837	Mr Iranappa Manthale	Larsen and Toubro Special Steels and Heavy Forging
17:04	17:17	174	Microwave NDE Method For Detecting Disbonds in Adhesively Bonded Silica-Metal Structures	Dr K Srinivas	Advanced Systems Laboratory, DRDO, Kanchanbagh PO
17:17	17:30	260	Stress assessment of HSS steels using X-ray diffraction (XRD) and magnetic Barkhausen (MBN) measurements: correlation and synergy	Mr Luigi Pisani	GNR

17:30	17:37	65	DGS Technique in Raw Material Inspection	Mr Sanket Sunil Kare	Tecnimont Pvt Ltd
17:37	17:44	273	Challenges in Ultrasonic Testing of High-Thickness Forgings: A Practical Perspective	Mr RAHUL BHUVA	L&T Special Steel and Heavy Forging

## Laser Based NDE Techniques 13th December 16:00 to 17:45

Session Number	6C				
Hall	Bhabha (202)				
Session Chairperson	Bala Pesala				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
16:00	16:25	IT 26	Laser Shearography of Launch Vehicle Structures	S Hariskirshna	VSSC ISRO
16:25	16:38	138	Short-pulsed laser-based ultrasound generation for defect detection in ablative and non-ablative regimes	Dr SOORAJ S	Centre for Non-destructive Evaluation and Departme
16:38	16:51	140	Baseline-Independent Damage Imaging by Curvature-Enhanced, Wavelet-Filtered RMS Fusion	Ms Aparna Aradhye	CSIR-National Aerospace Laboratories, Bengaluru, I
16:51	17:04	263	Forced Vibration Assisted Laser Speckle Analysis for Detection of Bolt Looseness	Mr Sarthak Vinod Atkare	National Institute of Technology Warangal

17:04	17:17	264	Numerical and Experimental Characterization of Laser Shock Peening Induced Residual Stress	Mr Aryendra Singh	DMRL
17:17	17:30	270	Non-contact baseline-free technique for flaw detection in pipelines using laser vibrometry	Dr Kannusamy M	CSIR - Structural Engineering Research Centre

**Advances in Ultrasonic NDE**  
**13th December 16:00 to 17:45**

Session Number	6D				
Hall	Sarabhai (205 A)				
Session Chairperson	K Srinivas				
Start Time	End Time	Paper ID	Paper Title	Speaker Name	Organisation Name
16:00	16:25	IT 27	Advances in Non-Destructive Testing for Next-Generation Batteries	Nishal Ramdas	Azeriri
16:25	16:38	35	Critical Application of Advanced Ultrasonics in the Oil & Gas Industry	Mr Dheeraj	Oceaneering
16:38	16:51	135	Advanced corrosion Mapping and Accurate UT Sizing of Remaining Wall Thickness	Sandeep Murjani	TPAC
16:51	17:04	139	Low-cycle fatigue damage detection in dissimilar welded joints using a	Dr Minati Kumari Sahu	CSIR NML Jamshedpur

			Rayleigh wave-based nonlinear ultrasonic frequency mixing		
17:04	17:17	191	Advances in Automated Ultrasonic Testing for Pipeline Girth Welds	Mr Prasanth Geddam	Evident Singapore
17:17	17:30	265	Standardization for Non-Destructive Evaluation Procedure for Extruded Double Base (EDB) Propellant	Ms Ashwini Rakshe	High Energy Materials Research Laboratory, Pune
15:24	15:31	165	PRACTICAL CHALLENGES FOR ULTRASONIC TESTING	Mr Joshi Sagar	Asiatic Engineers
17:37	17:44	257	Noninvasive Acoustic Tomography for Thermal Mapping and Phase Transition Monitoring in Enclosed Materials	Dr abhishek saini	IIT Madras

**AI Based ADR for NDE**  
**13th December 16:00 to 17:45**

<b>Session Number</b>	6E
<b>Hall</b>	Bose (205 B)



<b>Session Chairperson</b>	<b>Amitabha Datta</b>				
<b>Start Time</b>	<b>End Time</b>	<b>Paper ID</b>	<b>Paper Title</b>	<b>Speaker Name</b>	<b>Organisation Name</b>
16:00	16:25	IT 28	AI based Automatic Defect Recognition (ADR) for RT and PAUT for Weld Inspection	Siddharth Shankar	Dhvani AI
16:25	16:38	87	Exploring One-Dimensional Neural Networks for Pipeline Feature Detection Using MFL Signals	Mr Roshan Sahu	Bhabha Atomic Research Centre
16:38	16:51	90	SNR-Enhanced Two-Stage Infrared Framework for Automatic Defect Detection and Segmentation Fusion.	Ms Jasleen Kaur	Indian Institute of Technology Delhi
16:51	17:04	126	Defect Quantification and Classification using Frequency Modulated Thermal Wave Imaging for characterization of Glass Fibre Reinforced Polymer	Ms Priyanka Das	Indian Institute of Technology Delhi
17:04	17:17	214	Automated defect detection in magnetic flux leakage images using YOLO models	Mr B. Suman Raju	National Institute of Technology Tiruchirappalli
17:17	17:30	237	Automated Surface Defect Detection in Heritage Monuments using Machine Learning Techniques Integrated in user-friendly Mobile Application	Dr Debdutta Ghosh	CSIR-Central Building Research Institute
15:24	15:31	230	Automated defect Recognition (ADR) for simulation assisted Microwave	Mr G Harshavardhan	NDX Lab Indian Institute of Technology Hyderabad

			NDE images for Multilayered GFRP using Machine Learning.		
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