



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Conference Programme

NDE 2019



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

09:00 - 10:30 Hrs

Conference Inauguration

10:30 - 11:30 Hrs

Inauguration of Exhibition & Tea Break



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Session on Memorial Talks (11:30 - 13:00 Hrs)

Dr Vikram Sarabhai Hall

Chairman Prof. Krishnan Balasubramaniam

Dr Baldev Raj Memorial Talk

11:30 - 12:15 Hrs

Prof. Srinivasa Ranganathan

NDE contributions to recreating our past cultural heritage

Shri Ramesh Bhai Parikh Memorial Talk

12:15 - 13:00 Hrs

Ashok Mandal

Management of Safety on Indian Railways through Non-destructive Testing

13:00 - 14:00 Hrs

Lunch

14:00 - 15:00 Hrs (Open Session)

Poster Session - I at Exhibition Area

Availability of Authors of Poster Presentation at Poster Area

Quiz Competition

Visit to Exhibition Area

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
 Indian Society for
 Non-Destructive Testing
 (ISNT)

Theme
 eNDEavours from
 detection to prediction

Venue
 Clarks Exotica Convention Resorts & Spa,
 Bengaluru

Date: 5th December 2019 Thursday

Plenary Session - I (15:00 - 16:15 Hrs) Dr Vikram Sarabhai Hall

Chairman

15:00 - 15:25 Hrs	Prof. Krishnan Balasubramaniam	IIT Madras, India	Air Coupled Ultrasonic NDE: An Overview eluding to New Frontiers in Inspection
15:25 - 15:50 Hrs	Dr. Ernst Niederleithinger	BAM, Germany	Ultrasonic methods for concrete: To boldly see, what we have not seen before
15:50 - 16:15 Hrs	Vinay B Jammu	GE	Digital Twin: Fusion of Physical-Digital for Driving Digital Transformation

16:15 - 16:45 Hrs Tea Break



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Scientific and Technology Session - 1 (16:45-18:30 Hrs)

Session 1A		Acoustic Emission		C V Raman Hall
Chairman		Dr MR Bhat		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
16:45	17:10	IT16	Dr CK Mukhopadhyay	Acoustic emission technique for process monitoring and structural integrity monitoring applications
17:10	17:25	CP032	C K Mukhopadhyay	Characterization of Plastic Deformation using Acoustic Emission during Bending of SS 304L
17:25	17:40	CP036	TK Haneef	Use of Acoustic Emission Technique for Leak Detection in Pressurised Carbon Steel Piping
17:40	17:55	CP181	Nawalkishor BANJARA	Detection of Leakage in Pipelines using Passive Acoustic Emission Technique
17:55	18:10	CP335	P Anjali	Characteristics of Acoustic Emissions generated during Rebar Corrosion in Reinforced Concrete



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Scientific and Technology Session - 1 (16:45-18:30 Hrs)

Session 1B		Automation and Robotics in NDE		W C Röntgen Hall
Chairman		Krishna Mohan Reddy		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
16:45	17:10	IT24	Dr Thomas Gramberger	Novel high performance robotic based system for NDT and Metrology
17:10	17:25	CP063	Christopher LANE	Advanced Inspection Technology for Automated NDE Applications
17:25	17:40	CP163	Ondrej DOUBEK	Automatic Visual Systems For Automotive Industry bearings
17:40	17:55	CP164	Ondrej DOUBEK	Automatic FPI Systems For Automotive Industry
17:55	18:10	CP337	Debdutta Mallik	Significance Of NDT For Monitoring Of Manufacturing Flaws In Railway Rails To Minimize Service Failures
18:10	18:17	CP084	Pranjal SHUKLA	DESIGN AND FABRICATION OF A NDT PIPE CRAWLING MECHANISM



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Scientific and Technology Session - 1 (16:45-18:30 Hrs)

Session 1C		Code, Standard & Certification in NDT		Max Planck Hall
Chairman		N Sadasivan		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
16:45	17:10	IT25	Diwakar Joshi	NDT training and Certification - The Next level
17:10	17:25	CP022	Surendra Mungel	NABL Certification for NDT Laboratories
17:25	17:40	CP024	Mugdha Joshi	Different International Certification Schemes for Welding Inspectors
17:40	17:55	CP025	Diwakar Joshi	ASME Section V Edition 2019 Code Changes
17:55	18:10	CP136	Sangili Gunasekaran	API650 Code AnnexU Requirements for Ultrasonic Examination in lieu of Radiography
18:10	18:25	CP180	Santosh Vijay Gupte	Need Road Map For Getting Certified To API Specification Q2 For NDT Service Organizations in Oil Gas
18:25	18:32	CP021	Diwakar Damodar Joshi	SNTTC1A Edition 2016 Implementation



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Scientific and Technology Session - 1 (16:45-18:30 Hrs)

Session ID		Tera Hertz and Microwave NDE		Michael Faraday Hall
Chairman		Prof. Krishnan Balasubramaniam		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
16:45	17:10	IT10	Dr Phil Taday	Application of terahertz pulses to NDE of coatings
17:10	17:25	CP028	Pakkathillam Jayaram Kizhekke	Planar Printed E Field Sensor Array for Microwave NDE of Composites
17:25	17:40	CP085	Mercy LATHA A	Rapid Nondestructive Evaluation of Fireproof Coating Degradation using Terahertz Line Scanner
17:40	17:55	CP091	Harikrishnan KAIMAL	Rapid Terahertz Nondestructive Evaluation of GFRP wood Sandwich Composite using Adaptive Sampling Technique



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Scientific and Technology Session - 1 (16:45-18:30 Hrs)

Session 1E		Ultrasonic Testing		Lord Rayleigh Hall
Chairman		Dr Anish Kumar		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
16:45	17:10	IT17	Dr K Srinivas	Structural Integrity assessment of composite pressure vessels using Acousto-ultrasonic Techniques
17:10	17:25	CP045	Andrey Bulavinov	Ultrasonics in automobile industry measuring or testing
17:25	17:40	CP125	P. Chenthil Kumar	Development of Technique for Ultrasonic Testing of Small Bore Nozzle Welds
17:40	17:55	CP309	S Sarath	Methodology for ultrasonic examination of austenitic stainless steel using twin crystal longitudinal wave angle probe
17:55	18:10	CP321	C Ajay	Assessment of Spurious Ultrasonic reflections from grain boundaries in SS weld joints
18:10	18:17	CP322	C Ajay	Immersion Recordable UT of tube tube sheet joints
18:17	18:24	CP339	Ashutosh Singh	Significance of Flaw Characterization & Sizing Accuracy While Testing Heavy Forgings by Ultrasonic Testing (Pulse-Echo Method)
18:24	18:31	CP353	Shyam Sundar M	Fluid Level Measurement at Higher Temperatures Using Ultrasonic Bulk Waves

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 5th December 2019

Thursday

Industry Session - 1 (17:00-18:30 Hrs)

Exhibition Area

Reinforcing Gaps in Codes and Standards for NDE		
Name of the speaker	Organisation	Topic
Sh. P Raghavendra	L&T	Reinforcing gaps in Codes and Standards for NDE
Sh N Sadasivan	Materials Evaluation Services	Reinforcing gaps in Codes and Standards for NDE
Dr. V Chandiramani	ASME Sec VIII Committee Member	Reinforcing gaps in Codes and Standards for NDE

18:30 Hrs onwards

Cultural Programme followed by Networking Dinner



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 2 (9:00-10:30 Hrs)

Session 2A		Multi NDE		C V Raman Hall	
Chairman		Dr Phil Taday			
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper	
9:00	9:25	IT06	G Levin	Role of NDE in the Success Story of Indian Space Programme	
9:25	9:40	CP053	Krishna Kumar Rai	Inspection of Concrete Lined Seawater Carrying Pipeline A case study	
9:40	9:55	CP106	Abinash Behera	NDT IN MRO OF AEROENGINE COMPONENTS AT MILITARY AVIATION INDUSTRY	
9:55	10:10	CP274	Rajakishore Sahoo	Non Destructive Inspection of Replaceable Tooth Flank Used in Gear Rim Applications A Failure Analysis Case Study	
10:10	10:25	CP035	Laxmikant Sarjerao Mane	Study of Effect of Surface Roughness in Single Lap Joint SLJ of Carbon Fiber Reinforced Polymer CFRP Composites using Radiography and Thermography	
10:25	10:32	CP312	Sangili Gunasekaran	Case Study Leak Testing Failures at Ultrasonic Valve Pit Area Gas Plant Piping Construction	

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 2 (9:00-10:30 Hrs)

Session 2B		Radiation Safety and Regulation		W C Röntgen Hall
Chairman		V Manoharan		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT04	Dr A U Sonawane	Recent Regulatory Measures For Radiation Safety In Use Of Ionizing Radiation In Non-Destructive Evaluation Practices
9:25	9:40	CP141	Naranath NAUSHAD	Design Safety Criteria for Industrial XRay Machines Used For NDT Application
9:40	9:55	CP184	Subrata Pathak	Type Approval Testing of Co60 Based Indigenous Radiography Camera COCAM120 for Industrial NDT Applications Regulatory Perspective
9:55	10:10	CP186	Ganesh Bokam	Radiation Surveillance Procedure in Industrial Radiography
10:10	10:25	CP259	Sasidharan Pillai Remakanthan	RADIATION SAFETY PRACTICES FOLLOWED IN RADIOGRAPHY OF LAUNCH VEHICLE AND SATELLITE COMPONENTS



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 2 (9:00-10:30 Hrs)

Session 2C		NDE for Concrete		Max Planck Hall
Chairman		Dr Ernst Niederleithinger		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT23	Dr Abhijit Ganguli	Multimodal imaging methodologies for NDT of concrete structures
9:25	9:40	CP044	Andrey BULAVINOV	True 3D Tomography New Approach for Tomographic Imaging and Evaluation of Ultrasonic Concrete Testing Data
9:40	9:55	CP082	Gopinandan DEY	Estimation of Degree of Moisture Saturation in Cement Concrete Using Electrical Response at Low Radio Frequencies
9:55	10:10	CP060	Prasanna KUMAR M	Finite Element Simulation of Ultrasonic Waves Interacting with a Corroding Rebar in Concrete
10:10	10:17	CP305	Rohan Sunil Gurav	Review of Non Destructive Evaluation Techniques in Civil Engineering
10:17	10:24	CP205	Indrani Mukherjee	Phase Sensitive Detection of Extent of Corrosion Using Anisotropic Magneto-resistive AMR sensor in Steel Reinforcing Bars Rebars



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 2 (9:00-10:30 Hrs)

Session 2D		NDE Systems, Instrumentation & NDE4.0		Michael Faraday Hall
Chairman		Dr Ravibabu Mulaveesala		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT09	Viktor Klein	Robotic Inspection in Confined Spaces, from manual operation to a full digital solution – feedback and experiences gained in commercial inspections
9:25	9:50	IT01	C P Madhusudan	NDT Market Directions and Emerging Business Opportunities
9:50	10:05	CP338	V Vinod	Equipment Reliability and Energy Conservation using Ultrasound Technology
10:05	10:20	CP152	Lakshmi Atla Vijaya	A Thermographic System for Quantitative and Automated Subsurface Detail Visualization
10:20	10:35	CP225	Chris Udell	Making the Shift from CapEx to OpEx for Ultrasonic Flaw Detector Equipment



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 2 (9:00-10:30 Hrs)

Session 2E		NDE in Nuclear Industry		Lord Rayleigh Hall
Chairman		Dr BPC Rao		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT19	Dr Anish Kumar	Recent developments in advanced ultrasonic methodologies for in-service inspection of PFBR
9:25	9:40	CP096	Alka Kumari	Uncertainty in Hardness Measurement of hard faced FBR components
9:40	9:55	CP204	G Kaliamoorthy	Development of Vacuum Cup to ensure leak tightness of Terminal pipeline weld joints in Nuclear Projects
9:55	10:10	CP272	Veera Shiva Beloor Reddy	Ultrasonic Imaging for Quality Evaluation of PHWR Fuel Bundle End plate to Element Welds
10:10	10:25	CP325	Mayank Chhapre	PreService Inspection of PHWRs in India
10:25	10:32	CP341	K. S. S. Reddy	Assessment of Integrity of Thin Wall Nickel Tubes for LMFBR Steam Generator Leak Detection Application



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Industry Session - 2 (09:00-10:30 Hrs)

Exhibition Area

NDE in Oil and Gas		
Name of the speaker	Organisation	Topic
Sh Ajay Bharaiya	RIL Oil and Gas	Challenges in NDE - Oil & Gas Industry Upstream sector
Sh N H Gosale	BPCL, Mumbai	Challenges in NDE - Refinery Assets
Sh V Sathyan	Kochi Refinery	Challenges in NDE - Refinery Assets

10:30-11:00 Hrs

Tea Break



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
 Indian Society for
 Non-Destructive Testing
 (ISNT)

Theme
 eNDEavours from
 detection to prediction

Venue
 Clarks Exotica Convention Resorts & Spa,
 Bengaluru

Date: 6th December 2019 Friday

Plenary Session - II (11:00 - 12:15 Hrs) Dr Vikram Sarabhai Hall

Chairman	Dr R J Pardikar		
11:00 - 11:25 Hrs	Dr. Pierre Calmon	CEA France	Recent advances at CEA LIST for the development of Guided Waves SHM solutions : Techniques, Imaging and simulation
11:25 - 11:50 Hrs	Sandeep Thakur	Airbus	NDI, A Big role to play! - The challenges faced by Aerospace Industries
11:50 - 12:15 Hrs	Neil Harrap	TWI, UK	Use of Artificial Intelligence for Phased-Array Data Analysis

Plenary Session on Women Empowerment (12:15 - 13:00 Hrs)

13:00 - 14:00 Hrs Lunch

14:00 - 15:00 Hrs (Open Session)
 Poster Session - II at Exhibition Area
 Availability of Authors of Poster Presentation at Poster Area
 Quiz Competition
 Visit to Exhibition Area



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 3 (15:00-16:30 Hrs)

Session 3A		NDE for Composites		C V Raman Hall	
Chairman		Dr K Srinivas			
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper	
15:00	15:25	IT07	Dr M R Bhat	Experimental Investigations on NDE of Fiber Metal Hybrid Composites	
15:25	15:50	IT02	Dr Ivan Panteleev	Acoustic emission study of spatial-temporal damage evolution under uniaxial tension of woven glass/epoxy laminates	
15:50	16:10	CP342	Joseph J Kakkassery	Accurate Determination of Acoustic Emission Source Location through Thickness Direction in Composite Laminates by a Combination of Ultrasonic Data and Theoretical Model	
16:10	16:25	CP343	Joseph J Kakkassery	Deploying Non Destructive monitored data with Fuzzy Logic Approach to Control the Parameters for diminishing the Damage Area during Drilling Operation in Composite Laminates	
16:25	16:32	CP165	Akhilendra Singh Gangwar	Mixing of Lamb waves at Delamination Defect in a Unidirectional GFRP Laminate	



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 3 (15:00-16:30 Hrs)

Session 3B				Radiography Inspection Technologies	W C Röntgen Hall
Chairman		Dr Umesh Kumar			
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper	
15:00	15:25	IT30	Dr Thomas Wenzel	X-RAY SOLUTIONS IN THE DIGITAL WORLD: New added values for the manufacturing industry	
15:25	15:40	CP188	Vikash Behari	An Assessment of Radiographic Image Detector Technology	
15:40	15:55	CP300	Dhruv GAMDHA	Simulation Assisted Annotated XRay Image Data Generation for Deep Learning Applications	
15:55	16:10	CP313	Changdar Samaresh	1000 KM WELD INSPECTION ON PIPELINES IN THE OUTBACK WITH CR	
16:10	16:25	CP233	K Rasindh	Corrosion Measurement on Insulated Pipes	
16:25	16:32	CP224	Lubna Shadab Khan	Assessment of Sensitivity of Radioisotope based Radiometry Data during Inspection of Large Sized Solid Rocket Motors	
16:32	16:39	CP016	Nitesh Keshri	Performance evaluation for Computed Radiography System in Aerospace Industry	

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 3 (15:00-16:30 Hrs)

Session 3C		NDE Sensor, System and Inspection Robotics		Max Planck Hall
Chairman		Dr Frederic Cegla		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
15:00	15:25	IT05	Dr Prabhu Rajagopal	Inspection Robotics - CNDE-IITM experience and perspectives
15:25	15:40	CP010	Arun Kumar Yadav	Development of Portable Wireless NonDestructive Crack Identification Method by Using GMR Sensor Array for Overhead Crane Bridges
15:40	15:55	CP227	Chris Udell	Improving ultrasonic inspector productivity with modern mobile technology
15:55	16:10	CP207	Goravar SHIVAPPA	Automated analysis of eddy current images for crack detection using advanced machine learning techniques A Review
16:10	16:25	CP170	Deepak Rana	Experimental assessment of an RFID based wireless sensor for surface crack detection and characterization on metal
16:25	16:40	CP115	Debmalya Mukherjee	Development of Sectored External Pipeline Inspection Gauge for health monitoring of industrial carbon steel pipelines



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 3 (15:00-16:30 Hrs)

Session 3D		Electromagnetic NDE Methods - I		Michael Faraday Hall
Chairman		Dr P Kalyan Sundaram		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
15:00	15:25	IT03	Uday Godbole	Evolution of Instrumentation in Eddy Current and Electromagnetic NDE systems
15:25	15:40	CP027	Jitender YADAV	Eddy Current Array for Fuel Rod Inspections and Beyond From Manufacturing to Endoflife Management
15:40	15:55	CP064	Sumedha MOHARANA	Monitoring and Diagnosis of Thermal Expansion of Rails and Rail Joints Using Piezoelectric Sensor for ElectroMechanical Impedance Technique
15:55	16:10	CP092	Vijayachandrika THULASI	POD Studies of Axial and Radial Type Receiver Coils in Remote Field Eddy Current Technique
16:10	16:17	CP183	Ram Kumar	Eddy Current Testing for detecting Air Gaps in Sandwiched Tube Element of Reactor ShutOff Rods
16:17	16:24	CP216	Jacob Ashish Antony	THICKNESS ESTIMATION OF MARINE STRUCTURES USING AN ROV BASED PULSED EDDY CURRENT TECHNIQUE
16:24	16:31	CP155	Tarun Kumar Das	Reliability in Defect Classification and Characterization in Eddy Current Non Destructive Evaluation

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
 Indian Society for
 Non-Destructive Testing
 (ISNT)

Theme
 eNDEavours from
 detection to prediction

Venue
 Clarks Exotica Convention Resorts & Spa,
 Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 3 (15:00-16:30 Hrs)

Session 3E		Advanced Ultrasonics		Lord Rayleigh Hall
Chairman		Dr Sarmishtha Palit Sagar		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
15:00	15:25	IT13	Dr Bo Lan	Characterising polycrystalline materials with elastic waves
15:25	15:40	CP039	R Dhayalan	Inspection of Misaligned Austenitic Stainless Steel Welds using Single Channel SH wave EMATs
15:40	15:55	CP151	A Thirumalaiselvi	Damage Assessment of Concrete Bridge Structures Using Ultrasonic Tomography Technique
15:55	16:10	CP275	Akash UPADHYAY	Hydrotreater REACDSS Inspection using Advanced NDE
16:10	16:25	CP168	Tomas ZAVADIL	Detection of microstructure and stressstrain condition changes by ultrasonic testing assessment of the detection sensitivity



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Industry Session - 3 (15:00-16:30 Hrs)

Exhibition Area

NDE in Concrete Structures		
Name of the speaker	Organisation	Topic
Sh Chetan Raikar	StructWell. Mumbai	Challenges in NDE - Inspection of Civil structures for Human Occupaion
Sh Ravi Ranjan	RIL. Jamnagar	Challenges in NDE - Inspection of Civil structures in Hydrocarbon industry
Sh Anirwan Sengupta	L&T Construction	Challenges in NDE - Inspection of Concrete Bridges

16:30-17:00 Hrs

Tea Break



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 4 (17:00-18:30 Hrs)

Session 4A		Ultrasonic Guided Wave		C V Raman Hall
Chairman		Dr Abhijit Ganguli		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
17:00	17:25	IT28	Dr Sauvik Banerjee	Ultrasonic guided waves for pitting corrosion assessment of reinforced concrete structures using bonded piezoelectric wafer transducers
17:25	17:40	CP120	Balasubramaniam KALEESWARAN	Damage Assessment for a Sandwichlike Panel using Experimental and Numerical Analysis of Guided Waves
17:40	17:55	CP345	Sanjay Sharma	Model Assisted POD for Guided Wave-Based SHM of Growing Cracks
17:55	18:10	CP230	Nived Suresh	Coded Excitation for Low Power Operation and Fast Acquisition in Guided Wave Ultrasonic NonDestructive Evaluation
18:10	18:17	CP040	Avijit Kumar Metya	Evaluation of Plastic Strain using Nonlinear Lamb Wave Mixing
18:17	18:24	CP226	Sandeep Kumar	Improved Nonlinear Ultrasonic Detection of Imperfect Joint using Waveguide Metamaterial Rod
18:24	18:31	CP285	Dileep KOODALIL	Generation of Pure Guided Wave Modes Using Comb Transduction
18:31	18:38	CP354	C Raju	Level Measurement at Higher Temperature Using Ultrasonic Guided Waves



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 4 (17:00-18:30 Hrs)

Session 4B		Advanced NDE and Robotics		W C Röntgen Hall
Chairman		Dr Thomas Gramberger		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
17:00	17:25	IT22	Dr Frederic Cegla	Low power EMATs, coded excitation and robotic inspection
17:25	17:40	CP038	R Dhayalan	EMAT Phased array Inspection of Thick Austenitic Stainless Steel and Dissimilar Metal Welds
17:40	17:55	CP113	N.S.V.N Hanuman	Bicoherence Based Study of Nonlinear Intermodulation in Delaminated CFRP Plate
17:55	18:10	CP218	Dharmveer SINGH	Industry 4.0 and NDT
18:10	18:25	CP340	B Arun Sundaram	Studies on using FBG Sensor as a tool for Identifying Corrosion in Pipelines
18:25	18:32	CP308	C T Manjunath	Ultrasonic Beam Steering in Bulk Medium using GRIN structures



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 4 (17:00-18:30 Hrs)

Session 4C		Imaging in NDE		Max Planck Hall
Chairman		Dr Debashish Mishra		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
17:00	17:25	IT12	Krishna Mohan Reddy	Digital Imaging for Industry 4.0 – A Technical Perspective
17:25	17:40	CP030	Nagarajan Srinivasan	New Methodologies for Strain Mapping at Microscale using Digital Image Correlation
17:40	17:55	CP073	Sai Reddy Chamanth	Prediction of Failure Process in GeoMaterial Using Finite Element based Digital Image Correlation DIC Method
17:55	18:10	CP228	Calum HOYLE	Ultrasonic Back Projection Imaging
18:10	18:17	CP083	Sumedha MOHARANA	Pore Evaluation and Distribution in Cement Mortar Sample Using Digital Image Processing



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 4 (17:00-18:30 Hrs)

Session 4D		Quality Control, Quality Assurance & Safety		Michael Faraday Hall
Chairman		Dr Christian Boller		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
17:00	17:25	IT18	Dr BPC Rao	Challenges for ensuring quality and safety in large engineering projects and ways to mitigate
17:25	17:40	CP291	Pratik Ramchandra Deshpande	High Pressure Pneumatic Testing of Pressure Vessel
17:40	17:55	CP128	Peter Amin	The Capabilities And Effectiveness Of Remote Visual Inspection Using UAV Unmanned Arial Vehicle
17:55	18:10	CP118	Dinesh Gupta	Quality Control on Water Couplant for reliable immersion ultrasonic testing
18:10	18:25	CP042	Rohit Kumar	Ultrasonic Examination of HardSurfacing Overlay in Valve Body Seating Area Using Focused Beam Immersion Technique
18:25	18:32	CP310	Sangili Gunasekaran	GRE Pipe Manufacturing Defects Installation and NDE Requirements



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 6th December 2019

Friday

Scientific and Technology Session - 4 (17:00-18:30 Hrs)

Session 4E		NDE Education & Training		Lord Rayleigh Hall
Chairman		Diwakar Joshi		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
17:00	17:25	IT08	Dr Christian Boller	High Level Based NDT Academic Education in Germany and its Potential Impact on India
17:25	17:40	CP166	Tomas ZAVADIL	ASME ANDE12020 news related to new version 2020
17:40	17:55	CP167	Tomas ZAVADIL	Proficiency assessment of NDT suppliers for corporations via inter laboratory proficiency testing
17:55	18:10	CP058	Sujit CHAKRAVARTY	Incorporation of Information Technology in The Curriculum in NDT Training to Accomplish Reliability of Automated NDT Result to Detect Key Flaws
18:10	18:25	CP146	Navita Gupta	Specifying the Specific for Effective NDT Trainings



conference & exhibition on
NON DESTRUCTIVE EVALUATION

Organised by
 Indian Society for
 Non-Destructive Testing
 (ISNT)

Theme
 eNDEavours from
 detection to prediction

Venue
 Clarks Exotica Convention Resorts & Spa,
 Bengaluru

Date: 6th December 2019 Friday

Industry Session - 4 (17:00-18:30 Hrs) Exhibition Area

NDE in Manufacturing and Metal Processing		
Name of the speaker	Organisation	Topic
Sh Balamurugan	TataSteel	Challenges in NDE - Steel Plant
Sh P Thiyagarajan	TVS Sundaram Clayton	Challenges in NDE - Automobiles
Sh Satish Shinde	Bharat Forge	Challenges in NDE - Forging Industry

18:00 - 19:00 Hrs Annual General Body Meeting (Only for members of ISNT)

19:00 Hrs onwards Gala Dinner



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 5 (9:00-11:00 Hrs)

Session 5A		SHM & Condition Monitoring		C V Raman Hall
Chairman		Dr Bo Lan		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT14	Dr Sarmishtha Palit Sagar	Sensors and Devices for Non-destructive Evaluation and Structural Health Monitoring @CSIR-NML
9:25	9:40	CP018	D.Umapathi	Condition assessment of Sulphuric acid storage tanks Case study
9:40	9:55	CP142	Shri Krishna Tripathi	NDE of Dissimilar and Thin Weld joint during Manufacture of Large Diameter Inconel Bellows for FBR
9:55	10:10	CP174	Ayush Gangwar	Failure Analysis of Attemperator Nozzle in Heat Recovery Steam Generator Units
10:10	10:25	CP199	Suresh Periyannan	Ultrasonic Waveguide Technique for Temperature Measurement using T01 Wave mode
10:25	10:40	CP147	A.Ghosh	Development of a Smart Sensing System to Predict the Criticality of a Component
10:40	10:55	CP344	Venkat N. Ramani	Vacuum and Helium Leak Testing Techniques Used for Very Large Size Vacuum Chambers
10:55	11:02	CP015	D.Umapathi	Condition assessment of Annular plates Piping Supports with Short Range Ultrasonic Testing SRUT
11:02	11:09	CP348	Nishank Soni	Furnace tubes Intelligent Pigging in a Refinery: A Case Study

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 5 (9:00-11:00 Hrs)

Session 5B				Radiography Technologies	W C Röntgen Hall
Chairman		Dr Thomas Wenzel			
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper	
9:00	9:25	IT29	Dr Umesh Kumar	X-ray and Gamma-ray based Radiological Evaluation of Typical Industrial Specimen for Defect Visualisation and Quality Assessment	
9:25	9:40	CP019	Saravanan T SARAVANAN	An Improved Quality Assessment of Fuel pin End plug Welds using Digital Xray Radiography	
9:40	9:55	CP109	Girish N Namboodiri	Improvements in quality of Neutron Radiography images of pyro components used in aerospace applications using image processing tools	
9:55	10:10	CP153	Ayaz Jhanorwala	Analysis of an Ambiguous Indication in Digital Radiography of Dissimilar Material Weld Joint A Case Study	
10:10	10:25	CP243	Satya KORLIPARA	Fast Inline DR CT Solution for Light Metal Industry with Emphasis on Automotive Applications	
10:25	10:40	CP282	S Keerthivasan	Radiography Testing Of Tube To Tube Sheet Joints in Vessel for Petrochemical Industries	
10:40	10:47	CP131	Lakshminarayana Yenumula	Experimental Evaluation of Xray Digital Radiographic and Computed Tomographic System using an Indirect FPD for Nondestructive Examination	

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 5 (9:00-11:00 Hrs)

Session 5C		Thermography		Max Planck Hall
Chairman		Dr Oleg Plekhov		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT15	Dr Ravibabu Mulaveesala	Pulse Compression Favorable Coded Excitation Schemes for Thermal Non-Destructive Testing and Evaluation of Solids
9:25	9:40	CP187	M Menaka	Characterization of Vertical Cable Fires using Thermal Imaging
9:40	9:55	CP262	M Jijith	Study of Tensile Instabilities Using Infrared Thermography
9:55	10:10	CP267	S K Shama	Degradation Studies on Helicopter Tail Rotor Blades Sandwich Structure with Infrared Thermal Imaging for Life Extension
10:10	10:25	CP284	D Sharath	Signal Processing Approaches in Pulsed Thermography for Defect Characterization in Stainless Steel Materials
10:25	10:40	CP149	Gopi Tilak Vesala	Proper Orthogonal Decomposition based Coating Thickness Estimation in Quadratic Frequency Modulated Thermal Wave Imaging
10:40	10:55	CP298	Puthiyaveetil NITHIN	Crack detection real cracks in metallic sample at high temperature

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 5 (9:00-11:00 Hrs)

Session 5D		Modeling and Simulation		Michael Faraday Hall
Chairman		Dr Pierre Calmon		
Start Time	End Time	Paper ID	Name of Speaker	Paper Title
9:00	9:15	CP033	Krishna C GHANAKOTA	Numerical Analysis of Partial Discharge Source Localization using Time of Arrival Measurements and Nonlinear Least Squares Search
9:15	9:30	CP099	Ranjani Jayaraman	Numerical Modeling of Remote Field Eddy Current Testing of Steam Generator tubes
9:30	9:45	CP302	Sivaramanivas Ramaswamy	Grain Size Distribution Effects on Ultrasonic Attenuation
9:45	10:00	CP080	Aurovinda Kumar Mitra	Adiabatic Guided Wave Propagation Through a Honeycomb Composite Sandwich Structure with Smoothly Varying Core Thickness
10:00	10:15	CP346	K P Sruthi Krishna	Simulation Assisted Neural Network Model for Thermal Barrier Coating Thickness Prediction
10:15	10:22	CP299	Amar Kailas Borawake	Understanding Basic Phased Array Beam Computation and Inspection Simulation with CIVA 2020
10:22	10:29	CP017	Bharath Chandra Thakkallapally	Defect Classification from Weld Radiography Images Using VGG19 Based Convolutional Neural Network

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 5 (9:00-11:00 Hrs)

Session 5E		Phased Array Ultrasonic		Lord Rayleigh Hall
Chairman		Gavin Dao		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
9:00	9:25	IT27	Dr Paritosh Nanekar	Sound Beam Focusing using Phased Array - SAFT
9:25	9:40	CP132	Srinivas KUMAR	Real Time Total Focusing Method Applied To The Detection Of HTHA And HIC In Pressurized Vessels
9:40	9:55	CP169	Sumana	Parametric study on resolution achieved using FMCTFM based phased array ultrasonic imaging
9:55	10:10	CP173	S Kumar	Phased Array Ultrasonic Inspection of Dissimilar Weld Joints in Nuclear Facility by Experiment and Simulation
10:10	10:25	CP221	Y Siva	TFM Imaging Of Thick Section Composite Materials
10:25	10:40	CP297	Jeyaraman Satheesh	A Comparative Study of Plane Wave Imaging and Total Focusing in Imaging Defects
10:40	10:47	CP234	Thulsiram GANTALA	Numerical study of Phased Array ultrasonic beam parameters affecting the FMCTFM image resolution for defect characterization
10:47	10:54	CP240	François-Côme BEAUPRÃ©	Ultrasonic Phased Array Testing In lieu of Radiography Testing for Thin-Walled Heat Exchanger Welds An In the Field User Case

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 6 (11:30-13:30 Hrs)

Session 6A		In-service Inspection & Life Assessment		C V Raman Hall
Chairman		Dr C K Mukhopadhyay		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
11:30	11:55	IT11	Dr Oleg Plekhov	Nondestructive Evaluation of Service Life of Metals Materials and Structures Based on Infrared Thermography
11:55	12:20	LT (CP350)	Hari Kishore Maddi	Advanced NDT techniques for in Service high Temperature applications
12:20	12:35	CP009	Muthu GANESAN	Process Control in Magnetic Particle Testing
12:35	12:50	CP144	Hussain Ebrahim Vasadwala	Inspection of Ammonia Synthesis Converter
12:50	13:05	CP175	Govind Kumar Sharma	InService Inspection of Fast Breeder Test Reactor Components
13:05	13:20	CP241	François-Me BEAUPRÉ	InService Corrosion Mapping Challenges for the Industry
13:20	13:27	CP029	Girish Maruti Shejale	Replica Metallography Case Study A NDT Technique for Life Assessment of Gas Turbine Wheel

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 6 (11:30-13:30 Hrs)

Session 6B		Computed Tomography		W C Röntgen Hall
Chairman		Dr Umesh Kumar		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
11:30	11:55	IT21	Dr Debashish Mishra	Industrial Volumetric CT Trends and Challenges
11:55	12:10	CP156	Sharan Srinivas Jagathrakshakan	A Comparative Study of Industrial XRay CT Reconstruction Algorithms Driven by GPU Infrastructure
12:10	12:25	CP242	Shashi Shekhar NAGABHUSHANA	Extending CT Applications Large Objects ROI Scanning and Quantitative CT
12:25	12:40	CP296	Dr. Daniel Shedlock	Application Tools for Improvements and Enhancements of 2D Radiographs and 3D ConeBeam Computed Tomography CBCT
12:40	12:55	CP069	Manu Joseph	Computed Tomography CT is an Asset to ensure the Quality and Reliability of Parts in Aerospace Applications
12:55	13:02	CP198	Anis Fatima	3D Characterization of Ore Mineral Phases Using High Resolution Synchrotron Microcomputed Tomography CT
13:02	13:09	CP177	R Ramar	Assessment of Performance Gammaray CT System Based on the Image Quality
13:09	13:16	CP210	Rajesh ACHARYA	Scheme for Gamma and XRay Based Computed Tomography Scanning
13:16	13:23	CP211	Rajesh ACHARYA	Software Application for Gamma Ray Computed Tomography Data Acquisition with Discrete Detectors

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 6 (11:30-13:30 Hrs)

Session 6C		NDE in Power Sector		Max Planck Hall
Chairman		Dr R J Pardikar		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
11:30	11:55	IT31	M K Asthana	Challenges in Application of Advanced NDE Techniques such as PAUT, TOFD, Digital RT in examination of site welded joints in High Pressure Piping & Steam Generators of thermal power plants based on Super Critical Steam, & Ultra Super Critical Steam Technology
11:55	12:10	CP093	M Janardhana	Nondestructive test for Detection of Magnetite deposits in Stainless steel tube bends of Steam Generating stations
12:10	12:25	CP273	Tarla MALLIKHARJUNA RAO	Applications Of Thermography For Condition Monitoring Of Power Plant Equipment CPRI Experience
12:25	12:40	CP189	Kishore Kumar Gulipilli	Laser scan of Butterfly valve for Corrosion Damage Assessment of Hydropower Plant
12:40	12:47	CP095	Venkateswararao MUSHINI	Insitu Metallography a NDE Tool for Remaining Life Assessment of High Temperature Thick Section Boiler Components
12:47	12:54	CP190	Kishore Kumar Gulipilli	Non Destructive Testing and Evaluation of Electrical Steels
12:54	13:01	CP232	M Janardhana	NDT Inspection of Boiler Riffle Tubes and Laboratory Analysis

Conference Programme(NDE2019)

All rights reserved @ NDE2019, Indian Society for Non-Destructive Testing (ISNT)



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019

Saturday

Scientific and Technology Session - 6 (11:30-13:30 Hrs)

Session 6D		Electromagnetic NDE Methods - II		Michael Faraday Hall
Chairman		Uday Godbole		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
11:30	11:55	LT(CP172)	A K Das	Nondestructive Evaluation of Post Weld Heat Treatment Quality of Ferromagnetic Steel P91 Weld by Magnetic Coercive Force MCF Measurement
11:55	12:10	CP238	Tien Shung Chai Dennis	Detecting Stress Corrosion Cracking with Eddy Current Array Technology
12:10	12:25	CP266	Chandra Sekhar Angani	Detection of Cracks in Stainless Steel Structures Using Transient Eddy Current Oscillations Method
12:25	12:40	CP081	Manali Nandy	Visual Detection of Defects in Ferromagnetic Steels Using Magnetic Nano emulsions
12:40	12:55	CP171	Indrani Mukherjee	Eddy Current Based Non Invasive Sensing of Extent of Corrosion in Steel Reinforcing Bars Rebars
12:55	13:10	CP119	P Mahesh Raja	Design of an eddy current array probe for non destructive testing of thin walled stainless steel tubes



conference & exhibition on NON DESTRUCTIVE EVALUATION

Organised by
Indian Society for
Non-Destructive Testing
(ISNT)

Theme
eNDEavours from
detection to prediction

Venue
Clarks Exotica Convention Resorts & Spa,
Bengaluru

Date: 7th December 2019 Saturday

Scientific and Technology Session - 6 (11:30-13:30 Hrs)

Session 6E		TOFD and Phased Array Ultrasonics		Lord Rayleigh Hall
Chairman		Dr Paritosh Nanekar		
Start Time	End Time	Paper ID	Name of Speaker	Title of Paper
11:30	11:55	LT (349)	Cyril Thibault	Adaptive Total Focusing Method for Complex Surface Geometry with Linear and Matrix Phased Arrays
11:55	12:10	CP066	Manu Joseph	Phased Array Ultrasonic Testing PAUT is an apt tool for reliable integrity assessment of aerospace parts and systems
12:10	12:25	CP110	Abhishek SAINI	Improved 3D Ultrasonic Imaging of Surface Breaking Cracks by Linear Phased Array
12:25	12:40	CP347	Krishna Bhuta	PAUT Paint Brush Application
12:40	12:55	CP235	Siva Y	Effect of Probe Parameters on Defect Detectability Using TOFD Technique on Thin Wall Butt Weld Joints
12:55	13:10	CP088	S Anandamurugan	Study Of Ultrasonic Weld Application using Total Focusing Method
13:10	13:25	CP239	Tien Shung Chai Dennis	Building TFM Procedures for Challenging Inspections such as ERW hook crack Girth Welds HTHA and others

13:30 - 15:00 Hrs	Lunch
15:00 - 15:20 Hrs	Panel Discussion
15:20 - 16:30 Hrs	Valedictory Function and Award Distribution
16:30 - 17:00 Hrs	Tea