NDE-2019-Preconference Tutorial

Technical Program

3rd December 2019

08:00 AM- Registration

09:00 AM- Inauguration

09:45 AM- High Tea

PCT 1: THERMA IMAGING - INDUSTRIAL AND MEDICAL APPLICATIONS

Day	Time	Торіс	Speaker	
3/12		Overview of Infrared Thermography,	Dr. Shwetang Pandey, Institute of	
	10:00	Concepts of temperature, heat and Heat transfer	Plasma Research, Ahmedabad	
		Black body principles and law Contact and		
		Noncontact Measurement		
3/12	11: 00	Infrared Sensing-Detectors, optics, scanning and	Dr. Sharath, Ramaiah Institute of	
		Imaging Calibration of Equipment	Technology, Bangalore	
3/12	12: 00	Performance Parameters, Factors affecting the	M.Menaka, Indira Gandhi Centre for	
		measurement	Atomic Research, Kalpakkam	
		13:00- 14:00 hrs LUN	СН	
3/12	14:00	Sponsors Demo/Talk		
3/12	15:00	NDE- Testing Techniques	Dr. Ravi Babu, IIT -Ropar	
		16:00-16:15 Tea Break		
3/12	16:15 Basics and Applications of Thermal Imaging		Dr.Sreedhar Unnikrishna kurup, IIT	
		Aerospace Industry	(Madras)	
		DAY - 2		
4/12	09:30	Condition Monitoring Applications of Infrared	Mr. Venkatraman, SpaceV	
		Thermography	Technologies	
		10: 30 -10: 45 hrs TE	A BREAK	
4/12	10:45	Overview of Medical Applications	Dr.Sriram, Ramaiah Institute of	
			Technology, Bangalore MSRIT	
4/12	11: 45	Biomedical Applications of Infrared	Dr. Sunitha, SRM , Chennai	
		Thermography		
4/12	12: 45	Applications of Thermography for Furnace	Mr. Anand, ATOS, Bangalore	
		Monitoring		
		13:45- 14:45 hrs LUN	СН	
4/12	14:45	Sponsors Demo/Talk		
	15:45 -16: 00 hrs			
4/12	16:00-16:30	Valedictory function		

PCT 2: 3D X-RAY IMAGING-APPLICATIONS IN ADDITIVE MANUFACTURING, PROCESS QUALITY CONTROL AND METROLOGY

Day	Time	Topic	Proposed Faculty	
		DAY 1		
3/12	10:00	X-Ray Sources and Detectors	Mr. V. Manoharan, GE Research	
			Centre, Bangalore	
3/12	11:00	Basics of CT, System and Reconstruction	Dr Debasish Mishra, GE Research	
			Centre, Bangalore	
3/12	12:00	Image Artefacts & Corrections	Dr Debasish Mishra, GE Research	
			Centre, Bangalore	
	1	13:00- 14:00 hrs LUNCH	1	
3/12	14:00	CT Application - Metrology & NDE in Aerospace	Mr. M. Arumugam, LPSC, ISRO,	
			Vallimala	
3/12	15:00	CT Metrology - Advantages & Challenges	Mr. A. Tabrez/ Mr. Mahesh, TE	
			Connectivity, Bangalore	
		16:00-16:15 Tea Break		
3/12	16:15	Computed Tomography for Defence Applications	Dr.M.Venkat Reddy, DRDO,	
			Hyderabad	
	1	DAY 2		
4/12	09:30	CT Applications & Important in automotive industries	Dr. Narasimha Rao,TVS, Chennai	
	•	10:30-10:45 Tea Break		
4/12	10:45	CT Analysis Software-Introduction	Christy Joseph Konkara, Volume	
			Graphics, Singapore	
4/12	11: 45	Automatic Defect Recognition in 3D Imaging	Prof.Krishnan Balasubramanian,	
			IIT Chennai	
4/12	12: 45	Applications of CT in additive manufacturing	Mr.Samaresh Changdhar,BH,	
			Mumbai	
	I.	13:45- 14:45 hrs LUNCh	1	
4/12	14: 45	Sponsors Demo/Talk		
		15:45-16:00 Tea Break		
4/12	16:00	All Presenters: Panel Discussion		

PCT 3: NDE DURING AIRCRAFT MANUFACTURE AND IN-SERVICE

Day	Time	Торіс	Faculty	
		DAY 1		
3/12	10:00	Role of NDE in Aircraft Manufacture & Service	Mr.Vijayaraghavan.P Senior Manager (Rtd) HAL, Blore	
3/12	11:00	UT of Aero Composites during production	Mr Chandran Kollam, Consultant TAML Blore	
3/12	12:00	Airworthiness approval methodology for NDE of Aerospace components	Dr. Shirish Sharad Kale Scientist G & RD CEMILAC, DRDO, Bangalore	
		13:00- 14:00 hrs LUNCH	1	
3/12	14:00	Sponsors Demo/Talk		
3/12	15:00	NDE during Aero Engine Manufacture and & Service	Mrs M.R. Vijayalakshmi, Scientist F & AD GTRE, DRDO, Bangalore	
		16:00-16:15 Tea Break		
4/12	16::15	In-situ NDT on Aircraft & Helicopters case studies	Mr.Vijayaraghavan.P Senior Manager (Rtd) HAL	
		DAY 2		
4/12	9:30	NAS 410 & EN 4179 Certification & NADCAP	Mr. Mottito Togo Technology Specialist Honeywell Aerospace, Blore	
		10;30-10:45 Tea break		
4/12	10:45	Process Control calibration &Acc Std RT UT ET	Mr. Sharma	
4/12	11:45	Process Control calibration &Acc Std PT MT	Mr. Misra, DGM (QA) FNF HAL Blore	
4/12	12:45	CT scan of production composite parts & In situ by UT	Mr. Ramesh Babu G Senior Manager(QA) ACD HAL	
	T	13:45- 14:45 hrs LUNCH	1	
2	14.45	Sponsors Demo/Talk		
		15:45- 16:00 Tea Break		
2	16:00	Valedictory Function		
16:45 - 17:00 hrs TEA				

PCT4: NDE OF CIVIL STRUCTURES

Day	Time	Topic	Faculty		
DAY 1					
3/12	10:00	Recent advances in NDE of concrete structures at BAM	Dr. Ernst Niederleithinger, BAM, Germany		
3/12	11:00	Quality Control using NDT in the Construction Industry	Dr B. S. Sarma, L&T (Retd.)		
3/12	12:00	Corrosion assessment of reinforced concrete structures	Dr S. Bhaskar, SERC, Chennai		
		13:00- 14:00 hrs LUNCH	1		
3/12	14:00	Current concrete NDT practices in India and case studies	Dr. Balasubramanian, CQC NDT, Chennai		
3/12	15:00	Embedded Sensing for Structural Health Monitoring of Concrete Structures	Mr S.G.N.Murthy, SERC, Chennai		
		16:00 - 16:15 hrs	AK		
3/12	16:15	Emerging NDT inspection of Concrete by Digital Radiography	Samik Bhattacharyya & Mr Krishna Bhuta, Carestream Health India Pvt. Ltd.		
3/12	17:15	Under water inspection of concrete structures	Tanuj Jhunjhunwala, Planys,		
			Chennai		
		DAY 2			
4/12	09:30	Basics and applications of GPR and Impact Echo techniques	Dr. Govind Sharma, IGCAR,		
	for testing of concrete structures		Kalpakkam		
		10:30-10:45 Tea Break			
4/12	10:45	Ultrasonic Inspection of Concrete Structures	Dr. A. Bulavinov, ACS-Solutions GmbH&CoKG		
4/12	11: 45	Subsurface imaging as a tool for NDT of concrete	Prof. Abhijit Ganguli, IIT Tirupathi		
4/12	12: 45	Thermography Inspection of Civil Structures	Dr M. Menaka, IGCAR,		
			Kalpakkam		
	·	13:45- 14:45 hrs LUNCH	· · · · · · · · · · · · · · · · · · ·		
2	14:45	NDE of foundations (pile integrity, ultrasonic methods, parallel seismic)	Dr. Ernst Niederleithinger, BAM, Germany		
		15:45-16:00 Tea Break			
2	16:00	NDE of Indian Heritage Structures	Dr N. Gopalakrishnan, CBRI, Roorkee		
2 17:00 Recent developments in NDT instruments for applications Mr Loge		Mr Logesh Raj, Proceq			
		in Civil Engineering			
2	18:00	Panel Discussion			