

Pre-Conference Tutorial on Recent Advancements in Acoustics and Electromagnetic NDE & Applications

December 3-4, 2021

Course Directors

Dr. Anish Kumar, Indira Gandhi Centre for Atomic Research, Kalpakkam
Mr. U. Anand, Reliance Industries Limited,

Day	Time	Topic	Faculty
03rd December 2021 (Day 1)			
1	1000 - 1100	Overview of recent advances in ultrasonic techniques	Prof. Krishnan Balasubramaniam, IIT Madras
Break 1100 - 1115			
2	1115 - 1215	Basics of phased array ultrasonic testing (PAUT) techniques	Mr. Sivarama Krishna, Detect Technologies.
3	1215 - 1315	Guided wave ultrasonic testing for long range inspection	Mr. Hari Kishore Maddi Sievert
Lunch 1315 - 1415			
4	1415 - 1515	Total focusing method based PAUT techniques	Mr. Frederic Reverdy, Eddyfi
5	1515 - 1545	Weld inspection using phase array ultrasonic technique	Mr. Anandamurugan, BHGE
Break 1545 - 1600			
6	1600 - 1630	Weld inspection using phase array ultrasonic technique	Mr. P Raghavendra L & T
8	1630 - 1730	A tutorial on numerical simulation of ultrasonic and electromagnetic NDE	Prof. C.V.Krishnamurthy, IIT Madras
04th December 2021 (Day 2)			
9	0900 - 1000	Overview of recent advancements in electromagnetic techniques	Mr. Arbind Kumar, BARC
10	1000 - 1100	Array based eddy current imaging	Mr. Jitender Yadav, EddyFi
Break 1100 - 1115			
11	1115 - 1215	Recent advances in eddy current inspection of steam generator tubes	Mr. MB Jadhav, NPCIL, Mumbai Dr. S. Thirunavakkarasu, IGCAR, Kalpakkam
12	1215 - 1300	Advanced ultrasonic and electromagnetic techniques for corrosion monitoring	Mr. Venkataraman.K.S, ESCON Singapore
Lunch 1300 - 1345			
13	1400 - 1445	Application of Ultrasound for distillation column corrosion monitoring	Mr. C H Anand, RIL
14		Application of PEC for corrosion monitoring of concrete coated carbon	Mr. Vineet Sharma, RIL

		steel pipelines	
Break 1530 - 1545			
15	1545 - 1630	Materials characterization using ultrasonic and electromagnetic techniques	Dr. Anish Kumar, IGCAR
16	1630 - 1715	Applications of Artificial intelligence /machine learning in NDE	Dr MT Shyamsunder, Consultant
17	1715 - 1730	Closing comments	ISNT Team