

**Pre-Conference Tutorial on 2D/3D Radiological imaging and applications - 2021 and beyond**

December 3-4, 2021

Course Directors

Mr. Raj Venkatachalam , VMI- A Varex Imaging Company and Mr. Anand D. Bagdare, Godrej Precision Engineering

Sr No.	Time	Topic	Faculty
<b>03<sup>rd</sup> December 2021 (Day 1)</b>			
1	1145 – 1200	Course Overview	Mr. Anand Bagdare
2	1200 - 1300	Recent advances in Industrial Radiography	Mr. V.Manoharan , VisiConsult
<b>Lunch 1300 – 1400</b>			
3	1400 - 1500	Overview of X-Ray sources Technology	Mr. Odermatt Marcel, Comet
4	1500-1600	Industrial Computed Tomography – Inspection method and typical applications	Dr. Umeshkumar, BARC
<b>Break 1600 - 1615</b>			
5	1615 - 1715	Technology Overview of Digital Detector Arrays (DDAs) and Overview of Image quality Metrics	Mr. Raj Venkatachalam, Varex Imaging
<b>Break 1715 - 1730</b>			
6	1730 - 1830	Engineered Solutions with Digital Radiography for faster inspection	Mr. Raj Venkatachalam, Varex Imaging
7	1830 - 1930	Introduction to Computed Radiography and its applications	Mr. Clyde May, VMI
8	19:30-2030	2D and 3D X-ray Image Processing Toolkit for High Fidelity Imaging	Mr. David Nisius, Varex Imaging
<b>04<sup>th</sup> December 2021 (Day 2)</b>			
9	1030 - 1130	Automatic Defect Recognition in Radiography	Prof. Krishnan Balasubramaniam, IIT, Madras
10	1130 - 1230	Application of Digital Radiography in Boiler Industry	Mr. M. Maheshwaren, BHEL, Trichy
<b>Lunch 12:30-13:30</b>			
11	1330 – 1430	Lithium-ion Batteries – fast failure detection with computed radiography	Mr. Samaresh Changdar, Waygate Technologies
12	1430 – 1530	Leveraging Artificial Intelligence (AI) for interpretation of DR images	Mr. Lennart Schulenburg, VisiConsult
14	1530–1630	X-Ray Imaging Chain- Modelling & Simulation	Dr.Esha Sengupta, GE Research
<b>Break 16:30-16:45</b>			
15	1645-1815	Computed Radiography-Online Demo	Krishna Bhuta, Topax NDT
<b>Break 18:15-18:30</b>			
17	1830- 1945	Overview of Digital Radiography Standards	Henrik Lohmann, VisiConsult
18	1945-2000	Closing remarks	Anand Bagdare