



**INDIAN SOCIETY FOR
NON-DESTRUCTIVE TESTING
(MUMBAI CHAPTER)**



**ISNT MUMBAI WEBINAR
01/2021**

About the Speaker:

Sebastian has been a member of ASNT since 1986. He completed his engineering degree in 1979 as Bachelor of Technology in Metallurgical Engineering from IIT Bombay. He subsequently completed a Master's Degree in Quality Management, He holds ASNT NDE Level III certification in seven methods and ISO 9712 NDE Level III, approved by the British Institute of NDT in addition to CSWIP Level 3 in UT Phased Array and ToFD. He has been working in the fields of NDT, Quality Control and Assurance function for more than 40 years. He has served on the board of examiners in ISNT from 1986 – 89.

Sebastian is a IRCA registered Principal Quality Auditor and has several other certifications including. European / International Welding Engineer, ASQ Six Sigma Green Belt, ASQ Certified Manager – Quality and Organizational Excellence, API 510 Pressure Vessel Inspector, API U1 Practitioner and B Gas Painting Inspector.

He is a member of ASNT Board of Directors (USA), an active member of the Certification Management Council and a Fellow of ASNT (2020). He is actively involved in increasing awareness about correct application of ASNT SNT TC 1A

Sebastian has contributed toward review of ASNT Training Course documents and developing of training and Examination material for ASNT, ASQ and The Welding Institute UK. He has conducted several training programs in NDT for Corporate bodies in the Middle East.

Abstract of the Topic:

In the field of radiography, conventional film/screen radiography is continuously being replaced by digital imaging methods (such as storage phosphor plates and flat detectors). First applied in Radioscopy systems employed for airport security, digital imaging quickly found applications within medical diagnostics and relatively recently in Industry

Digital technology has many advantages. In recent years, costs have decreased significantly and a greater range of specific units has become available. On the other hand, cost of silver has been constantly rising and a sustainable supply of film is becoming unreliable.

The relatively new technology provides increased spatial resolution, decreased exposure /dose values, a faster direct readout and minimal environmental impact

Flat detectors (DR) have excellent imaging capabilities and can achieve very high image quality, even at low exposures because of their excellent latitude. Automatic Defect Recognition software is also available for identifying, measuring and sentencing of discontinuities detected

The immediate availability of images is another advantage of this technique. It also cuts out the step of Film processing thus eliminating the impact on the environment.

The presentation will cover technical aspects and personnel competency requirements

SPEAKER



**Sebastian Z. Fernandes
Independent Consultant**

Topic :

**Digital Radiography:
The New Paradigm**



30th April, 2021.



11 AM to 1 PM