

2012 Trends in Nondestructive Examination

Workflow Guided Ultrasonic Inspection of Welds on Fabricated Pipe

The presentation will include demonstration of an application wizard to generate inspection set-up parameters, simulation of a typical menu directed weld inspection, and discussion on leveraging the capabilities of inspection personnel for inspection plan creation, data acquisition, review, and analysis.

Dave Jankowski, GE Measurement & Control

Time of Flight Diffraction (TOFD)

TOFD is a powerful NDE tool for fabrication. It can be used as a quick, reliable and effective screening process for a variety of flaw types for code acceptance and quality control. This dual level code criteria assessment and Quality Control feedback process has the potential to shift the focus from ECA-derived acceptance criteria of larger flaws and costly repairs to the delivery of quality welds.

John R. Lilley, Sonomatic

Introduction to Computed Radiography

This talk will be an introduction of the Computed Radiography technique and its basic principles of operation. Also discussed will be the ASME Code Rules for use and Code Acceptance of the technique.

Brian Laite, Chicago Bridge & Iron Co.

The Benefits of Using Phased Array in Lieu of Radiography

This presentation will detail the benefits of phased array over film RT, the ability to perform inspections at elevated temperatures if needed, i.e., during interpass stages of welding and show the overall end product.

David Bajula, Acuren Inspection Inc.

Advanced Weld Inspections using Phased Arrays

Advanced phased array units are used in a number of applications, such as austenitic welds, pipeline welds, and pipe mills. These units are based on the same principles as the more portable instruments, but typically have advanced features built in: advanced Focal law calculators, capability for dual arrays, high speed data processing, and specialized algorithms. The devices are based on either the Focus LT, or on QuickScan PA, and offer significant flexibility in beam angles and other features.

Michael Moles, Olympus NDT