

NCPWB

National Certified Pipe Welding Bureau



NCPWB 2018 Annual Technical Committee Meeting

April 22-25

Omni Rancho Las Palmas Resort

Rancho Mirage, California

Don't miss this opportunity to learn about a wide range of topics that will include an introduction to radiographic film interpretation, application and proper selection of clamping equipment for piping joint assembly and fit up, phased array ultrasonic testing, robotic advancements in welding tube and pip, and how to manage a local NCPWB chapter. Network with your colleagues and find answers to your technical questions on welding and brazing.

Presentations Topics and Highlights

Monday, April 23

An Introduction to Radiographic Film Interpretation, with a Focus on ASME B31.3

Larry Richardson of Crossbridge Compliance will outline the requirements for obtaining useful radiographs of pipe welds and interpretation/evaluation of those radiographs. Radiography and radiographic film interpretation are critical to our piping fabrication industry, as well as other areas of industrial construction and maintenance. However, the practice is often inconsistent. Our industry needs more emphasis on standardized training for industry specific applications. Just as there are great differences between the methodology for building a boiler versus laying a pipeline, there are similar differences for the radiographer as well. There are common inconsistencies and misconceptions regarding “qualification” and “certification” of radiographers, film interpreters and Level III personnel. This presentation will provide insight into the requirements for radiography as well as the challenges facing us regarding film interpretation and evaluation.

Robotic Advancements in Welding Tube and Pipe

Mark Oxlade of AAB will discuss how the joining of pipework presents its own unique set of challenges to providers of automation and technology. The set of characteristics needed to meet customer expectations is why you don't see the industry flooded with robots, similar to automotive. However, the tide is changing due to even more exacting processes demands, evolution and innovation of processes, more intuitive sensing technologies in robotics, improved economics and the ever-increasing challenge to find skilled engineers. With these tools in our toolbox, we are undertaking more and more robotic pipe welding and cutting applications.

Mark will discuss some of the applications and processes entering our industry. He will review the majority of the thermal processes associated with robotics from GTAW to laser reflecting on the merits and potential challenges they each present.

Chapter Operations Seminar – Technical Session

Walter Sperko, NCPWB consultant, will cover the following topics:

- How NCPWB procedures meet ASME and B31 requirements
- Selection of the appropriate WPS
- Welder Interchange Process and its benefits to contractors
- NCPWB Chapter support of contractors
- Benefits of the Joint UA/NCPWB Certification Program
- Selection of the most effective JPQT or WPQT based on project needs

Tuesday, April 24

Clamping: Reforming & Aligning Pipe

Brandon Boyd of Mathey Dearman will present an overview of a newly developed training apparatus that addresses all the key elements of pipefitting. Brandon will highlight the necessary skills needed and knowledge about the different types of clamps used in the fabrication and installation of piping systems. The presentation will also focus on the application and proper selection of clamping equipment to perform piping joint assembly and fit-up safely and consistently. Welding processes and correct purging techniques will also be discussed.

The Phased Array Ultrasonic Testing (PAUT)

Bob Wiswesser, a Consultant for Welder Training and Testing Institute, will cover the basics of operating Ultrasonic Testing (UT) and Phased Array Ultrasonic Testing (PAUT) for identifying and sizing pipe weld discontinuities. He will assess and compare which testing method - Radiographic Testing (RT) or PAUT is more sensitive in locating and evaluating unacceptable defects, such as lack of fusion (LOF), incomplete penetration (IP), and cracks. A live demonstration of flawed pipe weld test specimens with encoded PAUT will be performed, allowing you to learn how to analyze and evaluate the A-scans, S-scans, and encoded one-line C-scan displays on the Omni-Scan Instrument and how to complete ASME test reports.

Chapter Operations Seminar – Administrative Session

Walter Sperko, NCPWB consultant, will cover the following topics:

- An explanation of welder testing – why and how
- What is welder certification
- Who can conduct welder tests
- The testing process, from the procedure to certification
- How is the test done, side bend, root or face
- Pass-Fail test parameters
- Who is the testing agency
- Who prepares forms
- Who signs forms
- UA ATR responsibility
- Responsibilities of a chapter secretary in welder testing
- Who “owns” the certification and can the welder take with them
- When do welder qualifications expire
- What is currency/continuity

NCPWB Annual Technical Committee Meeting Agenda

Sunday, April 22

6:00 pm – 7:00 pm Welcome Reception
7:00 pm – 9:00 pm Welcome Dinner

Monday, April 23

7:00 am – 8:00 am Breakfast
8:00 am – Noon Technical Committee Meeting
Afternoon Golf or at leisure

Tuesday, April 24

7:00 am – 8:00 am Breakfast
8:00 am – Noon Technical Committee Meeting
Afternoon Golf or at Leisure

Wednesday, April 25

7:00 am – 8:00 am Board of Trustees Breakfast
8:00 am – Noon Board of Trustees Meeting

Online registration will be open by first week of February. To register on line, please go to <http://www.mcaa.org/education/ncpwb/>. If you have trouble with your password or user ID, contact Jan Grillo at (301) 990-2218 or by email jgrillo@mcaa.org. Questions regarding registration and the resort should be directed to Megan Walsh at (301) 869-5800 or by email mwalsh@mcaa.org.