



2020 NCPWB Technical Conference

Sonesta Resort Hilton Head Island

Hilton Head, SC

April 26 – 28, 2020

REGISTRATION is now OPEN!

Learn about a wide range of topics:

- ✓ hidden dangers of heat treatment
- ✓ how to comply with ASME Section IX
- ✓ new requirements for contractors who supervise the Joint UA/NCPWB test events
- ✓ how pressure testing can be performed safely to avoid catastrophic outcomes
- ✓ building digital manufacturing fab shops
- ✓ ways technology can improve your welding business
- ✓ how to manage your local chapter operations

Sunday, April 26

6:00 p.m. – 7:00 p.m.

Registration and Welcome Reception

7:00 p.m. – 9:00 p.m.

Welcome Dinner

Monday, April 27

7:00 a.m. – 8:00 a.m.

Breakfast

8:00 a.m. – 12:00 p.m.

Technical Committee Meeting

Afternoon

Golf or at Leisure

Tuesday, April 28

7:00 a.m. – 8:00 a.m.

Breakfast

8:00 a.m. – 12:00 p.m.

Technical Committee Meeting

Afternoon

Golf or at Leisure

Wednesday, April 29

7:30 a.m. – 8:00 a.m.

Board of Trustees Breakfast

8:00 a.m. – 12:00 p.m.

Board of Trustees Meeting

Questions regarding registration should be directed to the MCAA Meetings Department.

(301) 990-2217 or by email eventregistration@mcaa.org



Date: Monday, April 27

Time: 8:30 a.m. - 9:30 a.m.

Speaker: Chris Brown, East Coast and Midwest Vice President, Superheat Inc.

Bio

Chris Brown has 25 years of experience in the Heat Treatment industry working predominantly in the refinery and power markets. He started his career with Superheat twenty years ago, as a Field Technician and currently is the vice president of East Coast and Midwest regions.

Topic

The Hidden Dangers of Heat Treatment

Abstract

What are the reasons for heat treating welded joints? Methods, applications, and consequences of improper heat-treatment. His presentation will include several examples of what to look for when heat-treating and how owners can protect themselves from poor heat treatment.

Date: Monday April 27

Time: 9:45 a.m. - 10:45 a.m.

Speaker: Chris Herzog, North American Sales and Business Development Manager, ITW Orbital Cutting and Welding



Bio

Chris Herzog is the North American Sales and Business Development Manager for ITW Orbital Cutting and Welding, comprised of E.H. Wachs and Orbitalum. A ten-year orbital welding industry specialist, Chris has overseen the development, launch and continued growth of the Orbitalum welding products by applying the proven methodology of the ITW Tool Box, including Customer Back Innovation driven by Voice of the Customer (VOC) feedback. Chris helped develop and bring to market advanced industry-leading solutions for "high purity" cutting, facing and orbital welding applications, including the new OM 180 SmartWelder power supply. Chris is a lifelong Chicago resident, and enjoys traveling and motor sports, including motorcycling riding and auto racing.

Topic

How IoT improves ROI: Three Ways Technology Can Improve Your Welding Business

Abstract

How technology can be used to improve your orbital welding quality, productivity, and reliability, in the field or fab-shop.



Date: Monday, April 27

Time: 10:50 a.m. - 11:50 a.m.

Speaker: Walter Sperko, NCPWB Consultant, Sperko Engineering Services, Inc.

Bio

Walter J. Sperko, P.E., has extensive experience in welding engineering, metallurgical engineering, design, failure analysis, and quality assurance. He is Chairman of ASME Boiler code Standards Committee IX, *Welding, Brazing and Fusing Qualifications* and a member of several of its subgroups; Past chairman of ASME Committee B31.9, *Building Services Piping* and a member of the B31 Standards committee. He has been Technical Consultant for the National Certified Pipe Welding Bureau since 1986.

Topic

Chapter Operations Seminar – Administrative Session

Abstract

The following topics will be covered:

- 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?

Date: Tuesday, April 28

Time: 8:00 a.m. - 9:00 a.m.

Speaker: Phil Martin, UA Special Representative and the Administrator of UA Certifications Programs, United Association

Bio

Phil is a UA Special Representative and the Administrator of UA Certifications Programs, responsible for the UA's certification programs, such as welding, industrial rigging, valve technicians, and instrumentation technicians. He came to the UA from The Hartford Steam Boiler Inspection & Insurance Company, where he retired after 25 years of dedicated service as the Director of Technical Support Services. His duties also include oversight of the UA's technical school direct entry program, accelerated welder training schools, site specific welder evaluation operations, UA training trailers, & the development of UA trades training courses.



Phil is the President of the Quality Control Council of the United States.

He is a member of the (ASME) Committee on Boiler and Pressure Vessel Conformity Assessment and a member of the Advisory Committee of the National Board of Boiler & Pressure Vessel Inspectors. In addition; he also a member of the Board of Trustees of the National Certified Pipe Welding Bureau, a member of the Ethics Committee of the American Welding Society (AWS), a member of The American Society for Nondestructive Testing (ASNT) and a member of the Standard Task Evaluation Steering Committee of the Electric Power Research Institute (EPRI). Phil has over forty years of work experience throughout the manufacturing, construction & power generation industries. Brother Martin holds a Bachelor of Arts degree in Labor Education from the National Labor College.

Topic

Pressure Testing – Serious Business

Abstract

Pressure Testing is a regular part of work performed in the piping trades and can also be one of the most dangerous. Join the discussion to learn how pressure testing can be performed safely to avoid catastrophic outcomes that can occur during a failure and how the UA and MCAA are working together to make this process safer for our members. The discussion will include the following topics:

- Reason for Pressure Tests
- Personnel Safety
- Piping System Readiness
- Determination of Test Pressure
- Venting Systems
- Selection of Testing Equipment
- Testing Boundaries, Isolation & Restraint of System Items
- Steps in Testing Process
- Examination for Leaks
- After Test Considerations
- American National Code A10.35: Safety Requirements for Pressure Testing Steel and Copper Piping Systems



Date: Tuesday, April 28

Time: 9:15 a.m. - 10:15 a.m.

Speaker: Todd Liebke, President, GTP Services, LLC

Bio

Todd Liebke has 30 years in the mechanical construction market. An Iowa State University graduate of Construction Engineering, Todd began his career at QuickPen, was Vice President at Quote Software & started Get the Point where he was instrumental in designing the innovative solution for layout. This software was purchased by Autodesk in 2012 & is now known as Autodesk BIM 360

Point Layout. Creating STRATUS, a construction manufacturing & logistics solution, with GTP Service's great development team is his current passion. Todd also assists Autodesk with the Skilled Trades Program.

Topic

Building the Digital Manufacturing Fab Shop

Abstract

Transforming manufacturing with advanced digital tools is well underway with contractors using STRATUS. With built in Advance Packaging contractors can now take their design and issue it to manufacturing. Once issued, STRATUS enables digital spooling, advance nesting and cutting routines. With integrations of 5-axis pipe cutting devices, Tigerstops, and robotic welders it allows contractors to make significant gains in productivity in their fabrication/manufacturing facilities.

Date: Tuesday, April 28

Time: 10:20 a.m. - 11:30 a.m.

Speaker: Walter Sperko, NCPWB Consultant, Sperko Engineering Services, Inc.

Topic

ASME section IX new requirements for contractors who supervise Joint UA/NCPWB test events and chapter operation - technical session.

Abstract

Since January, ASME Section IX requires that contractor personnel who supervise the welding of procedure and performance qualification test coupons have knowledge and understanding of welding processes and Section IX. Learn how NCPWB contractors who witness joint UA/NCPWB test events can meet the ASME Section IX's new requirements. In addition, Walter will cover technical aspect of chapter operations that will include 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