

ANNUAL TECHNICAL CONFERENCE / COMMITTEE MEETING

April 2023

Sunday, 23 – Tuesday, 25

Sonesta Resort Hilton Head Island, SC



Schedule of Events NCPWB Technical Conference/Committee and Board Meetings Sonesta Resort Hilton Head Island, SC April 2023

Technical Conference / Committee Meeting

Sunday, April 23Room*5:30 p.m. – 6:30 p.m. Registration and Reception......Beach Pavilion6:30 p.m. – 8:30 p.m. Dinner.....Beach Pavilion

Monday, April 24

7:00 a.m. – 8:00 a.m. Breakfast	Salon E
8:00 a.m. – 12:00 p.m. Technical Conference/Committee Meeting	Salon FGH
Afternoon Golf or at Leisure	

Tuesday, April 25

7:00 a.m. – 8:00 a.m. Breakfast	Salon E
8:00 a.m. – 12:00 p.m. Technical Conference/Committee Meeting	Salon FGH
Afternoon Golf or at Leisure	

Board of Trustees

Tuesday, April 25

5:30 p.m. – 6:30 p.m. Board Reception	Seacrest Terrace
6:30 p.m. – 8:30 p.m. Board Dinner	Savannah B

Wednesday, April 26

7:00 a.m. – 8:00 a.m. Breakfast	Savannah B
8:00 a.m. – 12:00 p.m. Board Meeting	Savannah A

*Note: The resort may change our meeting rooms at the time of the meeting. Please check with the hotel monitors/personnel for any room changes

Questions regarding registration should be directed to Sobeida Orantes, (301) 990-2207 – email: saorantes@mcaa.org

Monday, April 24

8:00 a.m. – 8:30 a.m. – Technical Committee Meeting Agenda

8:30 a.m. – 9:20 a.m.	Speaker:	Robert Derby, Training Specialist, Administrator of Certification Programs with the UA
	Title:	Plastic Piping Installation and Certification
	Abstract:	Plastic piping, tubing, and materials are becoming more common on projects. With innovation in plastic materials, higher pressure and temperature ratings allow the installation of plastics in systems that have historically been designed and installed using metallic material. Piping codes such as ASME are in the process of addressing non- metallics. As code acceptance continues to evolve, we must continue to be aware of the products and equipment that are available for plastic piping installation. Join the discussion to learn and share how we can adapt to the changes we encounter in our industry.

Bio: Bob Derby completed his Steamfitter apprenticeship at Local 174, West Michigan, in 1998. He began teaching welding as a part-time instructor in 1999 and had the honor of helping to set up his local's training center as an Authorized Testing Facility for the UA Welder Certification Program, becoming the first ATR for Local 174. During his career, Bob was given the opportunity to serve in leadership as a foreman, general foreman, superintendent, and project manager. When given the opportunity to serve as a full-time instructor at Local 174, he gladly accepted. That roll led to the position of training director for the local. He earned the credentials of AWS-CWI in 2006 and served many QA/QC rolls for local contractors and Local 174 thereafter. In 2012, Bob began teaching ATR and CWI courses for the UA, regionally and at Instructor Training Program. He continued teaching part-time until fall 2021, when he became a training specialist for the United Association International Training Fund.

9:30 a.m. – 10:20 a.m.



Speaker:	David Jordan, Global Industry Segment Director – Process Industries and Maintenance & Repair, The Lincoln Electric Company
Title:	Process Pipe Welding Solutions to Increase Diameter Inches per Day
Abstract:	Focus of David's presentation will be on Welding solutions designed for the Process Piping and Pressure Vessel Industries that allow the end-user to increase productivity, decrease repair rate and make training and operation easier than traditional methods. The welding solutions discussed will involve advanced technology inverter welding machines, open gap root pass, pulse welding, AC Square Wave SAW, mechanization and automation.

Bio: Dave Jordan has 25 years of industry experience, 17 years with Lincoln Electric, 8 years in process piping industry. Dave worked in different technical sales roles with Lincoln Electric covering numerous industries including oil & gas, pipe mill, agriculture, transportation, and heavy fabrication. Current role focuses on providing Process Industries and M&R welding solutions by working with Industry end users and Lincoln colleagues to develop and deploy welding equipment and consumables that drive innovation, productivity, and improved quality for the end-user's welding processes.

Monday, April 24

10:30 a.m. – 11:20 a.m.



Speaker:Matthew McClure, President, Walhonde Tools Inc.,Title:Pipe AlignmentAbstract:Pipe alignment: the problems you don't realize you have. Matthew
will illustrate the antiquated process of pipe alignment and how, with
new tools, you can increase quality control, productivity, and safety.
He will also demonstrate how you can address the skills gap and labor
shortages with the proper tooling.

Bio: Matthew McClure has 33 years of experience designing and manufacturing tools to aid in the alignment of welded tubes and piping. He holds four US patents in this field, with others pending. Matthew's tools have been used in heavy industry including power generation, paper mills, petrochemical, ship building, nuclear, and aerospace. He started in the welding shop at Walhonde Tools, Inc. in 1989 and worked his way up through almost every department. Matthew is now the president of the company.

Tuesday, April 25

8:00 a.m. – 8:50 a.m.



Speaker:	Mahyar Asadi, Vice President of Innovation, Novarc
Title:	Spool Welding Robot (SWR) and the Use of AI in Welding
Abstract:	Novarc is the leader in the development of robots and AI systems for the welding industry. We developed the first Spool Welding Robot (SWR) and have helped our customers combat their existing welder shortage issues, but we haven't stopped there. Join us for a conversation to see how Novarc is continuously pushing the boundary to help the industry advance and get a sneak peek at our Artificial Intelligence product called NovEye.

Bio: Mahyar has a Ph.D. in Computational Weld Mechanics and more than 15 years of experience applying his knowledge to the automotive, aircraft, marine, medical devices, energy, oil & gas, and heavy machinery industries. He holds a Professional Engineering Licence, PMP certificate, IWE designation, ASME FFS, Digital Twins, and Machine Learning Certificates. He is also an adjunct professor in the Materials Department at the University of British Columbia, teaching a signature course on "Welding and Joining of Materials".

Asadi's portfolio consists of more than 110 publications. He is the recipient of significant awards from IIW, CWB, ASME, and NSERC for innovative work and peer recognition.

Tuesday, April 25

8:55 a.m. – 9:45 a.m.

	Speaker:	Dale Fleck, General Manager, Mazak, MegaStir
	Title:	FSW of Midstream Pipelines – Faster, Safer, and Stronger
	Abstract:	Dale will be reviewing pipeline construction, the technology behind Friction Stir Welding and how technology can make an economic impact in the midstream market.

Bio: Dale Fleck has spent the last 30 years contributing to adoption of advanced technology. Over the last 10 years, his focus has been on the application of friction stir welding in both the manufacturing and energy industries. He holds several patents in the area of FSW and is considered one of the leading innovators in solid state joining.

9:50 a.m. - 10:40 a.m.

Speaker:	William F. Newell, Jr., PE, P.Eng, IWE, Vice President, Engineering Euroweld, Ltd.
Title:	Proper Purging of Stainless Steel and Alternatives for Stainless Steel Pipe and Tubing
Abstract:	High integrity service usually requires purging the inside diameter of stainless steel piping and tubing with an inert gas to avoid the creation of deleterious oxides. Various purging and non-purging methods will be presented as well as the advantages and disadvantages of each

Bio: Involved in welding engineering applications and consulting in the nuclear & fossil electric power and heavy industrial arenas for nearly 50 years, both domestically and internationally. Bill is a member on national and international code bodies, a Life Member , Counselor and Director At Large in the American Welding Society, and a member of AWS A5N, Chair of the AWS Conference Committee, Former Chair of AWS D10 Piping and Tubing, a Member of ISAC and ISO/TC 44, International Committee on Welding and Allied Processes, plus a member of ASME Standards Committee IX – Welding and Brazing Qualifications, ASME Post Construction Issues – Subcommittee on Materials and Repair, former Chair of ASME SUBgroup on Strength of Weldments, and a member on the ASME SCII Working Group on Creep Strength-Enhanced Ferritic Steels. He is the President of W. F. Newell & Associates, Inc., and Co-Founder/Vice President – Engineering of Euroweld, Ltd.

Tuesday, April 25

10:45 a.m. - 11:35 a.m.



Speaker:	Jake Olsen, PE / VP of Engineering, Binsky & Snyder
Title:	How to use the D in R&D to grow profits
Abstract:	For many contractors Research and Development is often focused on The evaluation of existing software and technology products. This is the "R" in R&D. In this session, Jake Olsen will discuss how Binsky & Snyder approaches R&D not just through researching existing products, but also by investing in true development of new products, software and processes to redefine how the industry builds. Hear case studies on how Binsky has used the D in R&D to grow profits.

Bio: Jake Olsen, P.E. is the Vice President of Engineering at Binsky, an MEP contractor in New Jersey focused on leveraging modern technology and operational science to improve project costs and schedules. Jake has worked in the construction industry as an engineer and entrepreneur for over 20 years, both in the USA and abroad performing engineering, starting companies, launching products, and developing software for the builders of tomorrow working on everything from residential to massive high rise and infrastructure projects.

11:35 a.m. – 12:30 p.m. – Technical Committee Meeting Agenda