EVENT Preview

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Where Innovation Meets Opportunities

REGISTER TODAY at fabtechexpo.com

FABTECH
NOVEMBER 8-10, 2022
Atlanta | Georgia World Congress Center

North America’s Largest Metal Forming, Fabricating, Welding and Finishing Event

Event Partners

Platinum Sponsors
November 8-10, 2022 / Booths B6309 and C10973

Your challenges, our solutions.

Visit TRUMPF at FABTECH

Fabricators today are facing more challenges than ever. Lower order quantities, shorter lead times, higher material costs and a shortage of skilled labor combine to make your challenges seem overwhelming. TRUMPF understands those challenges and provides innovative and productive solutions for the entire spectrum of sheet metal fabricators. Whether your needs are stand-alone machines or smart factory solutions of any scale, TRUMPF has the machines, software, experience and manpower to determine, produce and support the best solution to fit your needs. We invite you to visit our FABTECH booths B6309 and C10973 to see a sampling of our products, speak with our experts and develop a roadmap to solving your challenges today.

www.trumpf.com
LEARN
Gain valuable, can’t miss insights from best-in-class conference programs that target technical, operational, and managerial segments.

CONNECT
Visionary keynotes and expert panels allow attendees to network, exchange best practices, and learn about the latest industry advancements.

COMPARE
Discover advanced technologies that improve quality and productivity and compare innovative solutions from exhibitors side-by-side.

Event Preview Volume 10, Issue 1, August 2022
The Event Preview is published annually on behalf of FABTECH® by The Fabricators & Manufacturers Association, International
2135 Point Blvd | Elgin, IL 60123 USA
815-399-8700 | fmanet.org | fabtechexpo.com
INNOVATE | CREATE | FABRICATE

Network and collaborate with the brightest minds in manufacturing and take a forward-thinking look into the latest trends and innovations—only at FABTECH 2022.

FABTECH 2022 FEATURES
- 1,200+ world-class exhibits
- 150 conference programs
- Live product demonstrations
- Expert-led panel discussions

TECHNOLOGY ON DISPLAY

Additive Mfg/3D Printing
Arc Welding
Assembly
Automation
Bending & Forming
Brazing & Soldering
Business Services
Coil Processing
Cutting
Fastening & Joining
Finishing/Paint & Powder Coating
Finishing/Plating
Gases & Gas Equipment
Hydroforming
Inspection & Testing
Job Shop/Contract Mfg
Lasers
Lubrication
Maintenance & Repair
Material Handling
Metal Suppliers
Plate & Structural Fabricating
Press Brakes
Punching
Resistance Welding
Robotics
Roll Forming
Safety & Environmental
Saws
Software, Machine Controls
Stamping
Thermal Spraying
Tool & Die
Tooling
Tube & Pipe Fabricating or Welding
Tube & Pipe Producing
Waterjet
Welding Consumables
Welding Machines

REGISTER TODAY at fabtechexpo.com
FABTECH SHOW HOURS
Tuesday, November 8 ......................... 10 AM – 6 PM
Wednesday, November 9 ..................... 9 AM – 5 PM
Thursday, November 10 ...................... 9 AM – 4 PM

GEORGIA WORLD CONGRESS CENTER
285 Andrew Young International Blvd NW | Atlanta, GA 30313

Visit fabtechexpo.com for a complete exhibitor list.
TUESDAY, NOVEMBER 8

KEYNOTE PRESENTATION
8:30 AM – 10:00 AM

FABx TECH TALKS
Our line-up of experts will share insights on emerging trends and innovations that are changing the way businesses operate. As manufacturing processes are evolving at a rapid pace, it has become crucial for fabricators to leverage these innovations to stay competitive. Special appearance from Bill Carlton, owner/mastermind of Ekstensive Metal Works featured on the popular reality-TV show Texas Metal.

FABx SPEAKERS:
Gillen Young, Chief Architect for IIOT Solutions, AT&T
Richard Boyd, CEO, Tanjo AI
Bryce Austin, CEO, TCE Strategy
Bill Carlton, Ekstensive Metal Works Owner, Texas Metal Reality-TV

LEADERSHIP EXCHANGE PANEL
12:30 PM – 1:30 PM

ADVANCED MANUFACTURING INNOVATION & OPPORTUNITIES
Innovation in manufacturing can take many forms including new technology, changes in the supply chain, and product and process improvements. Innovation offers many important advantages to businesses and is often key to outperforming the competition. Our leading experts will share insights on innovative and disruptive technology trends manufacturers can use to create cutting-edge products.

MODERATOR: Dave O’Neil, Vice President, SME Media
PANELISTS:
Gillen Young, Chief Architect for IIOT Solutions, AT&T
Richard Boyd, CEO, Tanjo AI
Bryce Austin, CEO, TCE Strategy

WEDNESDAY, NOVEMBER 9

7:30 AM – 9:30 AM

WOMEN OF FABTECH BREAKFAST
Sponsored By: Georgia Innovation Manufacturing

Learn about manufacturing trends, marketing strategies, and more through real-world examples shared by women leaders in manufacturing. Session includes a keynote speaker, expert panel, networking, and breakfast. Price: $35

KEYNOTE PRESENTATION
9:00 AM – 10:00 AM

BRAD KESELOWSKI, Owner Keselowski Advanced Manufacturing, Championship Driver, Co-owner RFK Racing

Winning the Manufacturing Race
Keselowski is fanatical about manufacturing and technology. During his keynote, he will highlight his ownership and operation of Keselowski Advanced Manufacturing, as well as his unique standing as a champion driver in the NASCAR Series. That understanding, coupled with his passion for technological innovations, led him to build KAM. He will share his experiences where technology, like AM, can help companies win the race and its impact not only within automotive, but across multiple sectors.
LEADERSHIP EXCHANGE PANEL
12:30 PM – 1:30 PM
PLANNING FOR THE FUTURE OF WORK: HOW NEW TECHNOLOGY IS RE-DEFINING THE WORKPLACE
Sponsored By: TRAVELERS

With the silver tsunami of thousands of boomers retiring out of manufacturing today and the lack of young people entering the manufacturing workforce, manufacturers are scrambling to fill production demands, keep equipment running and digitalize their organizations. In this panel discussion with four industry experts and enterprise talent leaders, we bridge the gap between technology and vision.

MODERATOR: Lisa Ryan, Founder and Chief Appreciation Strategist, Grategy
PANELISTS:
Brian Gerritsen, AVP Product and Manufacturing Practice Leader, Travelers (Talent & Upskill)
Jacob Hall, Social Influencer, Manufacturing Millennial
Will Heally III, Global Business Strategy Manager - Balluff Worldwide

THURSDAY, NOVEMBER 10

KEYNOTE PRESENTATION
9:00 AM – 10:00 AM

JAKE WOOD, Executive Chairman of Team Rubicon and Founder and CEO of Groundswell

The One & The Nine
For every 100 people in a typical organization or on your team, there are 10 people who shouldn’t even be there, 80 who at their best have a neutral impact, 9 who perform exceptionally, and one who is a true leader capable of taking command and creating a winning team or culture. This reality is forcing organizations to rethink what they know about leadership, change management and risk. Using his own remarkable journey as an athlete, Marine Scout Sniper, and co-founder of Team Rubicon, Jake shows how you can find and build the team needed to win life’s battles and become the “one” others look to.

LEADERSHIP EXCHANGE PANEL
12:30 PM – 1:30 PM
CONSIDERATIONS TO IMPROVE YOUR CYBER SECURITY STRATEGY

Cyberattacks and data breaches are growing with greater sophistication. It is only a matter of time before your organization is subject to a serious cyber incident. Companies and organizations have been harmed by theft of intellectual property, trade secrets, and other highly valuable information. Learn how to understand the cyber security risk in relation to your organization, integrate across personnel, technical security, information assurance and physical security, and establish protective monitoring to prevent and deter the ‘insider’ threat.

MODERATOR: Vincent W. Howell Sr., Corning Inc. (retired)
PANELISTS:
Jason Miller, Founder and CEO, Bitlyft
Jay Korpi, Principal Advisor, NextLink Labs
Jeremy Dodson, CISO, NextLink Labs
Mark Haupt, IT Manager, Wilson Tool International
ABOUT THE CONFERENCE PROGRAM

The Fabricators & Manufacturers Association, Int’l (FMA), SME, Precision Metalforming Association (PMA), and Chemical Coaters Association International (CCAI) co-sponsor the conference sessions on 3D/additive manufacturing, automation, cutting, finishing, forming and fabricating, job shop, laser, lean, management, marketing and sales, robotics, smart manufacturing, stamping, tube and pipe, and workforce development.

The American Welding Society (AWS) presents a comprehensive lineup of welding education. Led by the industry’s top professionals, programs focus on best practices and new commercial developments in welding.

EXPERIENCE LEVELS

The Conference-at-a-Glance on the following pages provides a quick reference to all the conference programs offered at FABTECH 2022. Note that you can use the following key to find the programs that meet your needs.

- **Basic** — Recommended for the attendee who is new to the industry or needs a refresher on the topic.
- **Intermediate** — Designed for the attendee who already has a basic understanding of the subject matter.
- **Advanced** — For the attendee with several years of experience who is seeking more in-depth information.

CONTINUING EDUCATION CREDITS

Individuals who attend AWS education programs are awarded 1 PDH (Professional Development Hour) for each hour of program attendance. Individuals seeking FMA Recertification Credits will be awarded 2 credits for each conference session attended (forming and fabricating, cutting, or finishing tracks) plus an additional 2 credits for attending the show. Individuals who attend SME conference programs may be eligible to receive 1 credit per hour attended toward their SME-managed recertification requirements.

MEMBERSHIP INFORMATION

Discounted rates for members are available on conference programs. Interested in becoming a member of AWS, FMA, SME, PMA, or CCAI? Find details on each of the event partner associations and membership benefits by visiting their websites today!

aws.org  fmanet.org  sme.org  pma.org  ccaiweb.com
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<tr>
<th>TECHNOLOGY</th>
<th>8:00 AM – 9:30 AM</th>
<th>10:00 AM – 11:30 AM</th>
<th>12:00 PM – 1:30 PM</th>
<th>2:00 PM – 3:30 PM</th>
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<tr>
<td>CUTTING</td>
<td>NEW! [F31]: The Most Versatile Machine Tool and Considerations for Successful Waterjet Machining</td>
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<td>LASER</td>
<td>NEW! [F30]: How to be Successful in Your Laser Joining Applications</td>
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<td>NEW! [F32]: Improve Laser Quality, Inspection &amp; Applications in Joining Processes</td>
<td>NEW! [F33]: Digital Laser &amp; 3D Laser Cutting for Next Generation or Custom Robot</td>
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<td>MANAGEMENT</td>
<td>NEW! [F70]: When Worlds Collide: Management and Communication in a Multinational Workforce</td>
<td>NEW! [F71]: Surviving the Aftermath of the Great Resignation</td>
<td>F72: Outlook for Advanced Manufacturing: Accelerate Change and Benchmark Your Organization</td>
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<td>MARKETING &amp; SALES</td>
<td>F80: The State of Sales &amp; Marketing: Attracting Tomorrow’s Buyers</td>
<td>NEW! [F81]: Make the Most of Your Marketing without a Big Team</td>
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<td>NEW! [F83]: Uncertain Economy &amp; Supply Chain Growth Strategies to Gain Market Share</td>
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<td>ROBOTICS</td>
<td>WSO1: Getting Started in Industrial Robotics Workshop: What You Need to Know (8:00 AM - 12:00 PM)</td>
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<td>NEW! [F92]: Cost-Effective Robots for Any Type of Production, Even One-Offs-with Case Studies</td>
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<td>SMART MFG</td>
<td>F100: Digital Transformation Buzzwords &amp; Playbook</td>
<td>F111: Digital Transformation on the Shop Floor: Do More With Less</td>
<td>W502: Smart Manufacturing Bootcamp (12:00–5:00 PM)</td>
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<td>WORKFORCE DEVELOPMENT</td>
<td>NEW! [F200]: Technology Investment Choices: The Impact of Hiring &amp; Retention</td>
<td>F211: Mentoring &amp; Creating a Successful Career Pathing Program</td>
<td>F212: Motivating &amp; Building an Effective Workforce in 2022</td>
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**TUESDAY, NOVEMBER 8**

- **W1:** AWS/Weld-Ed Educators Conference – Robots And Automation in Welding Education  
  8:30 AM – 4:30 PM
- **W2:** Welding Productivity Tracks  
  9:00 AM – 4:30 PM
- **W3:** Diverse Roles and Needs within the Welding Industry Tracks  
  8:00 AM – 4:00 PM
- **W10:** Professional Program – Day 1  
  8:00 AM – 4:00 PM

Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at [fabtechexpo.com/conference](http://fabtechexpo.com/conference).
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<th>TECHNOLOGY</th>
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<td><strong>3D/ADDITIVE MFG</strong></td>
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<td>NEW! F14: Fundamentals of AM Technologies and the 7 Processes for Fabrication</td>
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<td>NEW! F15: Significant Product Case Studies in Additive Manufacturing</td>
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<td>NEW! F16: 3D Additive Robotic and Laser Solutions for Large Parts</td>
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<td>NEW! F17: Design Tools for Additive Manufacturing</td>
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<td><strong>AUTOMATION</strong></td>
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<td>NEW! F24: Automation Basics and Integration for Fabrication Shops</td>
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<td>NEW! F25: How is AI Changing the Future of Robotics?</td>
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<td>NEW! F26: Automation E-Commerce Tools &amp; Supply Chain Collaboration</td>
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<td>NEW! F27: Increase Business Intelligence &amp; Labor Shortages with Automation</td>
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<td><strong>CUTTING</strong></td>
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<td>NEW! F34: The Benefits of Cutting with Oxy-Fuel, Nitrogen &amp; Assist Gas Technology</td>
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<td>NEW! F35: Comparative Cutting: Which is Right for You?</td>
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<td><strong>FINISHING</strong></td>
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<td>NEW! C14: New Technologies I</td>
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<td>NEW! C15: I Want To ECOAT, What Now?</td>
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<td>NEW! C25: Improving Powder Coating Processes</td>
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<td>NEW! C27: Alternative Pretreatment Strategies</td>
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<td><strong>FORMING &amp; FABRICATING</strong></td>
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<td>NEW! F44: Roll Forming: In-line Punching, Cutoff Dies and Press Tonnage</td>
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<td>NEW! F45: Coil Processing: Leveling, Deburring, Blank, and Storing</td>
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<td>NEW! F46: Roll Forming: Advanced Techniques and Design</td>
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<td>NEW! F47: Roll Forming: Materials and Troubleshooting</td>
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<td><strong>JOB SHOP</strong></td>
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<td>NEW! F54: Risk Radar &amp; Developing and Testing Incident Response Plans</td>
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<td>NEW! F55: Improve Production Outcome &amp; Create Sustainability in New Product Development</td>
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<td>NEW! F56: The Secret to Stress-Free Sourcing &amp; Overcoming Supply Chain Problems</td>
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<td>NEW! F57: Do You Know How Much Money You’re Losing Due to Equipment Breakdown?</td>
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<td><strong>LASER</strong></td>
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<td>NEW! W503: Fabricators Laser Application Workshop (12:00-4:30 PM)</td>
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<td><strong>LEAN</strong></td>
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<td>NEW! F64: Breaking Boundaries for Operational Excellence</td>
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<td>NEW! F65: Developing Lean Talent in 2022</td>
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<td>NEW! F66: Advance Production Floor Communication &amp; Staffing to Strengthen Standard Work</td>
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<td>NEW! F67: The Connective Tissues of the Lean Systems Components</td>
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<td><strong>MANAGEMENT</strong></td>
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<td>NEW! F74: Traits of High Impact Leaders</td>
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<td>NEW! F75: Black Swans in Abundance; Prepare for Future Disruptions</td>
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<td>NEW! F76: Leading Yourself and Others Through Change</td>
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<td>NEW! F77: Developing as a Leader in the 21st Century</td>
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<td><strong>MARKETING &amp; SALES</strong></td>
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<td>NEW! F84: Grow Your Business By Adopting the Right Habits</td>
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<td>NEW! F85: Management &amp; Best Practices for the Sales and Marketing Functions</td>
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<td>NEW! F86: Manufacturing Marketing Automation: How to Create, Implement, and Analyze High-Performing Strategies</td>
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<td>NEW! F87: Technical Writing for Inbound &amp; Marketing Friendly Content</td>
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<td><strong>ROBOTICS</strong></td>
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<td>NEW! F94: Analyzing Robotic Investment for Small to Mid-Size Fabricators</td>
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<td>NEW! F95: Using Robotics to Build Operational Resilience &amp; Collaboration</td>
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<td>NEW! F96: Evolution of Robot Programming Possibilities</td>
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<td>NEW! F97: Robotic Solutions for Weld or Joining Technologies</td>
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<td><strong>SMART MFG</strong></td>
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<td>NEW! F114: Surviving Technology and Labor Challenges in Digital Manufacturing</td>
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<td>NEW! F115: Condition &amp; Production Monitoring in Smart Manufacturing</td>
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<td>NEW! F116: Using Artificial Intelligence to Drive Value in Manufacturing</td>
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<td><strong>STAMPING</strong></td>
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<td>NEW! F14: Problem Solving Methodologies and Tips for Progressive Dies</td>
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<td>NEW! F15: Sensors for Die Protection - Make Die Crashes a Thing of the Past</td>
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<td>NEW! F16: Automatic In-Die Part Quality Monitoring &amp; Tool Adjustments</td>
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<td><strong>TUBE &amp; PIPE</strong></td>
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<td>NEW! F214: Welcome Onboard: Simple Strategies to Keep Your New Hires from Jumping Ship</td>
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<td><strong>WORKFORCE DEVELOPMENT</strong></td>
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<td>NEW! F215: Attracting, Leading &amp; Retaining Talent, Millennials &amp; Gen Z in the Workforce</td>
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<td>NEW! F216: Creating a Culture of Accountability for Organizational Success</td>
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<td>NEW! F217: Creating Mentors for our Future &amp; The Value of Apprenticeships</td>
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<td><strong>WELDING</strong></td>
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<td>WS: Practical Welding Metallurgy</td>
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<td>WC: Pricing For Profitability Of Welded Structures</td>
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<td>WD: Welding Performance Qualifications</td>
<td>10:00 AM – 12:00 PM</td>
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<td>W8: Secrets To A Successful PQR</td>
<td>1:00 PM – 3:00 PM</td>
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<td>W10: Professional Program - Day 2</td>
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Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/conference.
## EXPERIENCE LEVELS

Use this key along with the Schedule-at-a-Glance to find the education level that meets your needs.

- **Basic** – Recommended for the attendee who is new to the industry or needs a refresher on the topic.
- **Intermediate** – Designed for the attendee who already has a basic understanding of the subject matter.
- **Advanced** – For the attendee with several years of experience who is seeking more in-depth information.

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### Conference-at-a-Glance

**THURSDAY, NOVEMBER 10**

<table>
<thead>
<tr>
<th>TECHNOLOGY</th>
<th>8:00 AM – 9:30 AM</th>
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<td><strong>NEW!</strong> [F68]: Lean Tools for Industry 4.0 Continuous Improvement</td>
<td><strong>NEW!</strong> [F69]: Lean Tools &amp; Concepts for Just In Time Implementation</td>
<td><strong>NEW!</strong> [F610]: Lean Tools for Implementation &amp; Best Practices to Improve Job Shop</td>
<td></td>
</tr>
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<td>MANAGEMENT</td>
<td><strong>NEW!</strong> [F78]: Strategic Planning for Growth &amp; Creating a &quot;Gotta Have&quot; Company</td>
<td><strong>NEW!</strong> [F79]: Create Cultures of Innovation and Accountability</td>
<td><strong>NEW!</strong> [F710]: Using Emotional Intelligence to Transform You &amp; Your Business</td>
<td></td>
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<tr>
<td>MARKETING &amp; SALES</td>
<td><strong>NEW!</strong> [F88]: PAIN vs. GAIN - What Best Motivates Buyers to Buy?</td>
<td><strong>NEW!</strong> [F89]: Getting the Most of Your Website &amp; Digital Ads</td>
<td><strong>NEW!</strong> [F810]: It's Just Business: International Differences in Sales Expectations</td>
<td></td>
</tr>
<tr>
<td>SMART MFG</td>
<td><strong>NEW!</strong> [F18]: Protect Your Production Line: How to Keep a Cyber Attack from Bringing Business to a Halt</td>
<td><strong>NEW!</strong> [F19]: Digital Supply Networks &amp; Steps for Securing Your Shop Against Cybersecurity Threats</td>
<td><strong>NEW!</strong> [F110]: Using Software &amp; Hardware to Empower Smarter Decisions for Fabricators</td>
<td></td>
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<tr>
<td>STAMPING</td>
<td><strong>NEW!</strong> [S18]: Lightweight Sheet Metal for the Automotive Industry</td>
<td><strong>NEW!</strong> [S19]: The Impact of Sheet Metal Types on Die Maintenance</td>
<td></td>
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</tr>
<tr>
<td>WORKFORCE DEVELPMT</td>
<td><strong>NEW!</strong> [F218]: Prioritize Your People: Building a Culture to Help You Grow, Maximize Profits</td>
<td><strong>NEW!</strong> [F219]: READ (HIDDEN) EMOTIONS: Know What Others are Feeling</td>
<td><strong>NEW!</strong> [F210]: Women Who Lead: Activating the Power Within</td>
<td></td>
</tr>
<tr>
<td>WELDING</td>
<td><strong>W9</strong>: Stainless Steel Fabrications Do's &amp; Don'ts, and Why Not(s)</td>
<td></td>
<td></td>
<td>8:00 AM – 3:00 PM</td>
</tr>
</tbody>
</table>

Detailed Conference Program session descriptions, speakers, pricing, room locations and more can be found at fabtechexpo.com/conference.
EXHIBITS ONLY:
Registration is FREE through November 4.

Beginning November 5, the cost to attend the exhibits is $50. AWS, FMA, SME, PMA, and CCAI members may always attend the exhibits for FREE with proof of membership.

Conference Tracks

- 3D/Additive Manufacturing
- Automation
- Cutting
- Laser
- Finishing
- Forming & Fabricating
- Job Shop
- Lean
- Management
- Marketing & Sales
- Robotics
- Smart Manufacturing
- Stamping
- Tube & Pipe
- Workforce Development

FABTECH SESSIONS

<table>
<thead>
<tr>
<th>PACKAGES (Buy More and SAVE)</th>
<th>Early Bird Rates thru Sept 30</th>
<th>Regular Rates after Sept 30</th>
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<tr>
<td></td>
<td>Member</td>
<td>Non-member</td>
</tr>
<tr>
<td>1 Session</td>
<td>$85</td>
<td>$105</td>
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<tr>
<td>2 Sessions</td>
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<tr>
<td>3 Sessions</td>
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<td>$225</td>
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<tr>
<td>4 Sessions</td>
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<td>$295</td>
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<tr>
<td><strong>Full Conference:</strong> (5 or more sessions) <strong>BEST VALUE!</strong></td>
<td>$355</td>
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<td>Half-Day Workshops</td>
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WELDING TRACK

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<tr>
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<tr>
<td>AWS/Weld-Ed Conference</td>
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<tr>
<td>Welding Two-Hour Seminars</td>
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<tr>
<td>Welding Tracks</td>
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<tr>
<td>Welding Sessions*</td>
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<td>$665</td>
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<tr>
<td>Professional Program</td>
<td>$250</td>
<td>$350</td>
</tr>
</tbody>
</table>

* Non-member price for AWS Welding Sessions only includes a one-year AWS Individual Membership.

CONFERENCE CANCELLATION POLICY: Cancellations and refund requests (for paid conference registrations) must be made in writing to Attn: Betsy Bonnell: FABTECH Conference Cancellation, or sent to bbonnell@sme.org no later than October 28, 2022, to receive a full refund minus a $50 administrative fee. Cancellations received after this date are non-refundable. Substitutions allowed.
Finally, a laser that can **think for you.**

The “brains” behind the **GX-F ADVANCED** Series is the proprietary Mitsubishi Electric artificial neural network technology **Maisart**, which imitates neurons in the human brain. It uses audio and light sensors to monitor the cutting process in real time, automatically adjusting parameters to optimize cutting performance.

Designed by Mitsubishi engineers and all major components built by Mitsubishi, the **GX-F ADVANCED** Series is one of the **only laser systems in the industry with a single source for service and support.**

Visit us at [mcmachinery.com](http://mcmachinery.com)

VISIT US AT FABTECH
BOOTH #B6709
## 3D/ADDITIVE MANUFACTURING

### TUESDAY, NOVEMBER 8

**8:00 AM - 9:30 AM**

**NEW! F10:** Additive Manufacturing Outlook for Industrial Applications  
Kevin Yap - Endeavor 3D

**10:00 AM - 11:30 AM**

**NEW! F11:** How 3D Printing Will Democratize Manufacturing  
Matt Sand - 3DEO, Inc.

**12:00 PM - 1:30 PM**

**F12:** Additive Manufacturing Safety & Power Quality Solutions  
Dust and Fume Collection for Additive Manufacturing  
Alysha Yinger - RoboVent  
Increasing Print Quality with Power Quality  
Patrick Gannon - ABB Inc.

**2:00 PM - 3:30 PM**

**F13:** Business Considerations for 3D Additive Technology  
Carl Dekker - Met-L-Flo

### WEDNESDAY, NOVEMBER 9

**8:00 AM - 9:30 AM**

**NEW! F14:** Fundamentals of AM Technologies and the 7 Processes for Fabrication  
Carl Dekker - Met-L-Flo

**10:00 AM - 11:30 AM**

**NEW! F15:** Significant Product Case Studies in Additive Manufacturing  
New Design Freedoms of the AM Process - Static Mixer Case Study  
Nick Estock - AddUp  
Faster Development of Full Scale Metal Field Test Articles  
Slade Gardner - Big Metal Additive  
Case Study: Fives Landis Corp. and AddUp Work Together to Design and 3D Print a Custom Coolant Nozzle  
Nick Estock - AddUp

### 12:00 PM - 1:30 PM

**NEW! F16:** 3D Additive Robotic and Laser Solutions for Large Parts  
Printing on 3D Surfaces  
Branson Brockschmidt - Southwest Research Institute  
Diode Laser Additive and Cladding Applications  
Oleg Raykis - Laserline Inc.

**2:00 PM - 3:30 PM**

**NEW! F17:** Design Tools for Additive Manufacturing  
Leveraging the “Swiss Army Knife” of Metal Manufacturing: 10 Compelling Applications in FDM Metal 3D Printing  
Daniel Leong and Ross Adams - Markforged  
A Closed-Loop Machine Learning and Compensation Framework for Geometric Accuracy Control of 3D Printed Products  
Arman Sabbaghi and Wenbin Zhu - Purdue University

## AUTOMATION

**Track Sponsored By:**

### TUESDAY, NOVEMBER 8

**8:00 AM - 9:30 AM**

**NEW! F20:** Increase Productivity with Software Automation  
Increase Productivity with Software Automation  
Mark Watson - Cincinnati Inc.  
The Next Gen Manufacturing ERP Solution—Things They are a Changing!  
David Lechleitner - ECi Solutions

**10:00 AM - 11:30 AM**

**NEW! F21:** Enabling Digital Transformation & Connectivity Solutions  
Allen Roberts - AT&T

### 12:00 PM - 1:30 PM

**NEW! F22:** Embracing Automation Options and Best Practices  
Fabricators Embracing Change: Automation, Collaborative Robots and the Future of Your Business  
Joshua Mayse - Mid Atlantic Machinery Automation
THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM

NEW! ▶ F28: Steps and Lessons Learned in The Automating Journey
Steps for Automation Success
Josh Leath - Yaskawa Motoman
Lessons Learned in the Automation Journey
Kathy Etheridge and Doug Johnson - Salvagnini

10:00 AM – 11:30 AM

NEW! ▶ F29: Low-Cost Automation Breaks Down Barriers to Entry
Alexander Mühlens - igus, GmbH

12:00 PM – 1:30 PM

NEW! ▶ F220: Automation in Simulation & Imaging for Joining Process
Utilizing Joining and Hemming Simulation to Verify Product Assemblies
Rick Carlisle - AutoForm Engineering
Using Imaging and Sound to Monitor Weld Processes
Greg Cooke - Xiris Automation Inc.

CUTTING

TUESDAY, NOVEMBER 8
10:00 AM – 11:30 AM

NEW! ▶ F31: The Most Versatile Machine Tool and Considerations for Successful Waterjet Machining
Top Considerations for Successful Waterjet Machining
Ivan Kondeykin - OMAX Corporation
The Most Versatile Machine Tool with Endless Applications
Brian Sherick - Flow International

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM

NEW! ▶ F34: The Benefits of Cutting with Oxy-Fuel, Nitrogen & Assist Gas Technology
Autogen: Never-Ending Way of Oxy-Fuel Cutting Improvements
Martin Roubicek - IHT Automation GmbH & Co. KG

2:00 PM – 3:30 PM

NEW! ▶ F27: Increase Business Intelligence & Labor Shortages with Automation
Surviving the Labor Shortage with Modern Technology & Automation
Ben Barton - Paperless Parts
Using Robotics Business Intelligence to Optimize Productivity
Jason Walker and Patty Katsaros - Locus Robotics
The Benefits of Taking Control of Your Nitrogen Supply
Brett Maiorano - Atlas Copco Compressors

The Cutting Edge: Innovation Through Assist Gas Technology
James Gamache and Ian Frank - TRUMPF Inc.

10:00 AM – 11:30 AM

■ F35: Comparative Cutting: Which is Right for You?
New Trends in Plasma Cutting Consumables Optimization
Kristopher Rich - Hypertherm Inc.
3D Waterjet Cutting: The Next Dimension
Tim Fabian - SHAPE Technologies Group
Laser Cutting: Increasing Productivity While Reducing Cost Per Part
Brian Gibson - AMADA AMERICA, INC.

THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM

NEW! ■ F38: Overcome Labor Shortages in The Cutting Industry & Keep Your Equipment Running
Overcoming Labor Shortages in the Cutting Industry by Going Digital
Tom Stillwell - Hypertherm Inc.
Keeping Equipment Running and Productivity High
Jonathan White - Airgas, an Air Liquide Company

FINISHING

TUESDAY, NOVEMBER 8
10:00 AM – 11:30 AM

■ C11: Powder Coating: Recipes for Success

■ C21: ECOAT 101 - Basics of Electrocoating
James Gezo - PPG and Tim Splingaire, Therma-Tron-X, Inc.

NEW! ■ C31: Zero to Smart Factory-Building Sustainability
How Any Paint Line Can Go From Zero to Smart Factory through Equipment Retrofits
Will Healy III - Balluff Worldwide, Christopher May and Matthew Fair - Albar Industries, Inc.

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM

NEW! ■ C14: New Technologies I
*Presenters in this session are permitted to use product and tradenames as they are presenting new technologies.
Utilizing Blasting Automation for Industry 4.0
Brian Kenimer - BlastOne International
Measuring Gloss with the NEW PosiTector GLS Gloss Meter
Jeff Truskowski - DeFelsko Corporation
GemaConnect
Jeff Hale - Gema USA Inc.
ENVIROCRON LUM Retroreflective Powder - A Bright Idea by PPG
Paul Bradley - PPG Industries

NEW! ■ C24: Batch vs. Automated Finishing Systems - Which is Right for You?
Nick Dawson - George Koch Sons, LLC and Frank Mohar - Nordson Corporation

Powder Coating Helps Deliver a More Sustainable Footprint for Your Product
Kristen Blankenship - IFS Coatings

2:00 PM – 3:30 PM

NEW! ■ C13: Pretreatment in the Real World
Zirconium Pretreatments in the Real World
Erik Reinhart - Circle-Proasco, Inc.
Save the Green - How Sustainable Pretreatment Can Increase Profitability and Reduce Carbon Footprint
Brandon Lloyd - Atotech USA

■ C23: Maximizing Your Finishing Line - Cradle to Grave
Dan Nesper, Dave Garczynski and Max George - DuBois Chemicals

NEW! ■ C33: Automate Your Way - Options for Your Powder Coating Line
To Move or Not to Move, What is the Ideal Level of Automation for Your Powder Coating Application Needs?
Automation Made Simple for Complex Powder Coating Applications
Jeff Hale - Gema USA Inc.

= Basic  = Intermediate  = Advanced
NEW! New C34: Advances in Plating and Process Automation
Meeting Productivity Demand through Automation of Selective Plating
Derek Kilgore - SIFCO ASC
Better Plating through Automation
Tim Stechschulte - George Koch Sons, LLC

10:00 AM – 11:30 AM

■ C15: I Want To ECOAT, What Now?
Suresh Patel and Rob Schiller - BASF / Chemetall and Todd Turnock, George Koch Sons, LLC

■ C25: Improving Powder Coating Processes
The Future is Present, When & What to Upgrade Your Existing Powder Application and/or Recovery System
J.R. Rogers and Loren Keene - Wagner Industrial Solutions
Tips for Manual and Automatic Gun Settings
Mark Focik - Nordson Corporation

NEW! New C35: In the House: Bringing Outside Services Inside
Vacuum Degreasing - The Future of Solvent Cleaning
Joe McChesney - KYZEN
Sustainable In-House Paint Removal: Lower Running Costs and Improved Productivity
Stephen Taylor - Atotech USA, LLC
Bringing Powder in House
Mark Freels - Global Finishing Solutions

2:00 PM – 3:30 PM

NEW! New C17: New Technologies II
*Presenters in this session are permitted to use product and tradenames as they are presenting new technologies.
A Leap Forward in FEVE Fluoropolymers Delivers Major Performance & Finish Advantages
Bob Kelly - PPG
Pro-Cat Infrared Ovens - Electric and Catalytic Infrared Together Delivering Fast, Green & Economical Heat
Marty Sawyer - Trimac Industrial Systems
UniPrep ACS 1000P: Efficient Cleaning and Descaling in a Single Step
Brandon Lloyd - Atotech USA
New Abrasive Product to Increase Productivity and Reduce Costs
Wesley Edwards - Frohn North America

NEW! New C27: Alternative Pretreatment Strategies
Automated CO₂ Spray Technologies – An Effective and Environmentally Friendly Alternative to Traditional Cleaning and Finishing Processes
Nelson Sorbo - Cool Clean Technologies LLC
Low Cost, Zero Effluent Discharge Strategy and Operation of Paint Pretreatment for Spray Washers
Joseph Smith - Quaker Houghton

■ C37: IR Curing Technologies and Their Applications
Basics of Infrared Curing for Finishing Applications
Scott Bishop - Alabama Power Company
Overview of Gas-Fired Catalytic IR Ovens Utilized by the Finishing Industry
Lee McWorter - Finishing Equipment Group/ETTER Engineering

THURSDAY, NOVEMBER 10

8:00 AM – 9:30 AM

■ C18: See It, Touch It, Fix It
David Schimpff and Max George - DuBois Chemicals and Tabitha McLeish - The Sherwin-Williams Company

NEW! New C28: How to Choose the Best Coating System
Matthew Rush, Christopher Graniero and James Gezo - PPG

NEW! New C38: Improving Processes in Your Liquid Paint Booth
The Impact of Viscosity on Coating Atomization Patterns and Paint Lay Down
Michael Bonner - Saint Clair Systems Inc.
Evolution of New Over Spray Dry Filtration Technologies in Spray Booths
Robert Andreae - Aerem Industry, Inc.
When Did Rework Become Part of Your Finishing Process?
Michael Bonner - Saint Clair Systems Inc.

10:00 AM – 11:30 AM

NEW! New C19: Using Industry 4.0 Data to Improve Your Quality and Workforce
Cloud Based Machine Data Acquisition and Visualization
Jeff Hale - Gema USA Inc.
How to Upskill Your Current Employees Using Industry 4.0
Dan Nesper - DuBois Chemicals
CONFERENCE PROGRAM
Visit fabtechexpo.com/conference for complete session descriptions.

FORMING AND FABRICATING

TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM
NEW! ■ F40: Advanced Brake Press Technologies
Short Run Bending Technologies
Scott Ottens - AMADA AMERICA, INC.
Utilizing Press Brake Technology to Offset Skilled Labor Challenges
Marcel Fiedler - Bystronic Inc.
The Latest in Press Brake Safeguarding Technology: The Easiest, Fastest and Safest Way
Kevork Torosian - ISB

10:00 AM – 11:30 AM
■ F41: Machine Safeguarding
Successful Machine Guarding – The 4 Steps to Success
Douglas Raff - Paragon Industrial Controls Inc.

12:00 PM – 1:30 PM
■ F42: Roll Forming Basics
Roll Forming Basics
Brian Rodgers - Formtek Inc.
Modern Lubricants for Roll Form Processes
David Kinnard - Tower Metalworking Fluids

2:00 PM – 3:30 PM
NEW! ■ F43: Coil-Fed Laser Blanking
When is it Time to Move to Coil-Fed Laser Blanking?
Jay Finn - LaserCoil Technologies, LLC
Coil-Fed Laser Processing To Increase Production and Profits
Peter Swenson - FAGOR ARRASATE USA

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM
■ F44: Roll Forming: In-line Punching, Cutoff Dies and Press Tonnage
Increasing Value to Your Roll Forming Lines with In-line Punching and Cutoff Dies
Paul Williams - Hill Engineering / Formtek Inc.
When the Press Tonnage Rating Is Really Not That Tonnage
Paul Williams - Hill Engineering / Formtek Inc.

10:00 AM – 11:30 AM
■ F45: Coil Processing: Leveling, Deburring, Blanking, and Storing
Leveling & Deburring: Modern Metal Processing
Denis Weinfurtner - ARKU Inc.
Engineered Solutions for Metal Coil Storage: Improving Efficiency, Organization, and Safety
Michael Baach - Philpott Solutions Group, Inc. and Steve Detweiler - Philpott Rubber and Plastics

12:00 PM – 1:30 PM
■ F46: Roll Forming: Advanced Techniques and Design
Welding Roll Formed Profiles - Select the Right Welding Method
Marco Opitz - TRUMPF, Inc.
Roll Form Profile Optimization - Functional, Lightweight and Freedom in Design
Bill Johnson - Welser Profile North America

2:00 PM – 3:30 PM
NEW! ■ F47: Roll Forming: Materials and Troubleshooting
Addressing Modern Day Materials in Roll Forming Processes
Robert Taylor - TEKFAB
Methodical Troubleshooting - A Step by Step Approach to Diagnosing Root Causes Associated with Rollforming Production
Chuck Summerhill - TEKFAB

THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM
■ F48: Roll Forming Justification and Welding Profiles
Justification and Welding Profiles
Brian Rodgers - Formtek Inc.

10:00 AM – 11:30 AM
NEW! ■ F49: Combustible Dust Safety for Metalworking and Fabrication
Combustible Dust Safety for Metalworking and Fabrication
Alysha Yinger - RoboVent
CONFERENCE PROGRAM

JOB SHOP

TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM
■ F50: Job Costing and Estimating in a Changing Economy
  Don Clutter - MIE Solutions

10:00 AM – 11:30 AM
NEW! ■ F51: Balancing Your Shops Process & Implementing ERP Solutions the Right Way
  Balancing Your Shops Fabrication Processes
  Troy Wilson - Cincinnati Inc.
  Making the Complex Simple - Implementing ERP Solutions the Right Way
  David Lechleitner - ECi Solutions

12:00 PM – 1:30 PM
■ F52: How to Build a Better Supply Chain for Your Business
  Michael Schlagenhaufer and Aaron Stamm - Acuity

THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM
■ F58: Business Owner Exit Options in Today’s Market
  The 8 Value Drivers-Thinking About Selling Your Company?
  Susan Frew - Team Star Training
  Business Owner Exit Options in Today’s Market of High Inflation, Rising Interest Rates and Labor Challenges
  Matthew Bradbury and Bobby Lewis - Business Acquisition & Merger Associates

10:00 AM – 11:30 AM
■ F59: How To Use the R&D Tax Credit to Lower Your Tax Liabilities and Build a Competitive Advantage
  How To Use the R&D Tax Credit To Lower Your Tax Liabilities And Build a Competitive Advantage
  John Madsen - Black Line Group
  Learn How to Reduce Your Tax Liability and Potentially Take Advantage of the R&D Tax Credit
  Jim Donovan and Lyle Henning - Eide Bailly LLP

12:00 PM – 1:30 PM
■ F510: Innovative Manufacturers: to Patent or Not to Patent?
  Marshall Honeyman - Avek IP

Creating Sustainability in New Product Development
  James Ullum - Source International

NEW! ■ F56: The Secret to Stress-Free Sourcing & Overcoming Supply Chain Problems
  The Secret to Stress-Free Sourcing
  Steve Staub - Staub Manufacturing Solutions
  Overcoming Supply Chain Problems to Deliver On-Time to Customers
  Greg Coonley - Wahsega

2:00 PM – 3:30 PM
■ F57: Do You Know How Much Money You’re Losing Due to Equipment Breakdown?
  Michael Schlagenhauffer and Gwendolyn Luscavage - Acuity

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM
NEW! ■ F54: Risk Radar & Developing Testing Incident Response Plans
  What is a Risk Radar and Why Do You Need to Have a Risk Radar For Your Company?
  Michael Schlagenhauser and Michael Jaworski - Acuity
  Developing and Testing Incident Response Plans (IRPs) in Manufacturing Environments
  Leah Dodson - Piqued Solutions

10:00 AM – 11:30 AM
■ F55: Improve Production Outcome & Create Sustainability in New Product Development
  Improving Production Outcomes Through Cross-Team Synthesis
  Sharon McCollick - Strong Point Strategy, LLC

Job Shop continued on next page.
CONFERENCE PROGRAM

Visit fabtechexpo.com/conference for complete session descriptions.

2:00 PM – 3:30 PM

F511: Getting the Most Value Out of Selling Your Business
Marla DiCarlo - Raincatcher

Laser

Tuesday, November 8

8:00 AM – 9:30 AM

NEW! F30: How to be Successful in Your Laser Joining Applications
Travis Stempky, Tracey Ryba and Masoud Harooni - TRUMPF Inc. and Sebastian Moser - Precitec, Inc.

12:00 PM – 1:30 PM

NEW! F32: Improve Laser Quality, Inspection & Applications in Joining Processes
Dynamic Beam Lasers Improve Weld Seam Quality
Elkana Ben-Sinai - Civan Lasers
Novel Applications with High Power Diode Lasers
Oleg Raykis - Laserline Inc.
Automated Weld Inspection: In-Process and Post-Process Application
Tom Graham - Abicor Binzel

Thursday, November 10

10:00 AM – 11:30 AM

NEW! F39: Introduction to New Laser Applications
Color Marking on Titanium Surfaces Using Pulsed Laser Processing: A Comparison of Nanosecond vs Femtosecond Laser Pulses
Daniel Huerta Murillo and Alanza Brown - TRUMPF Inc. and Marc Sailer - TRUMPF Laser GmbH
Experimental Investigations of Laser Cleaning and Structuring for Metal Surfaces for Adhesive Bonding
Albert Leonhard Jung - TRUMPF Inc., Christoph Neugebauer, Sabrina Vogt and Mauritz Möller - TRUMPF Laser - und Systemtechnik GmbH
Experimental Investigations of Laser Structuring for Metal Surfaces in Metal-Plastic Joints
Albert Leonhard Jung - TRUMPF Inc., Christoph Neugebauer, Sabrina Vogt and Mauritz Möller - TRUMPF Laser - und Systemtechnik GmbH

Lean

Tuesday, November 8

8:00 AM – 9:30 AM

NEW! F60: Leadership’s Role in Leading Lean Teams
Manufacturing Leadership’s Role and Responsibility in Driving Lean Organizations
Joe Mazzeo - Integrated Lean and Quality Solutions LLC
Blue-Collar Kaizen: Leading Lean & Lean Teams
Mack Story and Ria Story - Blue-Collar Leadership
10:00 AM – 11:30 AM

F61: Value Stream Mapping – Understanding the Whole: From Sales to Shop to Customer
Mike Osterling - Osterling Consulting, Inc.

12:00 PM – 1:30 PM

F62: A3 Thinking - Developing People & Solving Problems
Mike Osterling - Osterling Consulting, Inc.

2:00 PM – 3:30 PM

NEW! F63: Lean Reflections and Projections
Jeffrey Sipes - Back2Basics, LLC

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM

F64: Breaking Boundaries for Operational Excellence
Vince Bovino - Bovino Consulting Group

10:00 AM – 11:30 AM

NEW! F65: Developing Lean Talent in 2022
Jeffrey Sipes - Back2Basics, LLC

12:00 PM – 1:30 PM

F66: Advance Production Floor Communication & Staffing to Strengthen Standard Work
Advancing Production Floor Communication to Strengthen Standard Work
Sharon McCollick - Strong Point Strategy, LLC
Short Staffed and Need More Production Throughput?
Chuck DeBettignies - Gainsharing Inc.

2:00 PM – 3:30 PM

NEW! F67: The Connective Tissues of the Lean Systems Components
Audie Penn - Faro Partners

THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM

NEW! F68: Lean Tools for Industry 4.0 Continuous Improvement
Lean Manufacturing is as Relevant in Industry 4.0 as Ever!
Michael Schlagenhauffer - Acuity
Automatic Data Collection from Any Machine - Methods and Benefits
Jim Finnerty - Wintriss Controls Group LLC

10:00 AM – 11:30 AM

NEW! F69: Lean Tools & Concepts for Just in Time Implementation
How Lean, Just-in-Time and Technology Can Mitigate the Effects of the Supply Chain Crisis
Kevin Bell - SYSPRO USA
How to Expand Heijunka to Create Just In Time Labor
Gauthier Duval - Veryable, Inc.

12:00 PM – 1:30 PM

NEW! F610: Lean Tools for Implementation & Best Practices to Improve Job Shop
LEAN Concepts - Implementation Doesn’t Have to be Complicated
Eddie Wengerd - PIONEER Corp.
Best Practices to Improve Shop Flexibility and Efficiency
Gene Mussel - Harbour Results, Inc.

MANAGEMENT

TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM

NEW! F70: When Worlds Collide: Management and Communication in a Multinational Workforce
Allison Yeager - Bridge Intercultural Consulting

10:00 AM – 11:30 AM

NEW! F71: Surviving the Aftermath of the Great Resignation
Lisa Ryan - Grategy

Management continued on next page.
CONFERENCE PROGRAM

Visit fabtechexpo.com/conference for complete session descriptions.

12:00 PM – 1:30 PM

NEW! ■ F72: Outlook for Advanced Manufacturing: Accelerate Change and Benchmark Your Organization
Market Outlook for Advanced Manufacturing
Michele Nichols - Launch Team Inc.
READY, Set, Change! Simplify and Accelerate Organizational Change
April Callis-Birchmeier - Springboard Consulting
It’s Time to Take Off the Benchmarking Blindfold
Cara Walton - Harbour Results, Inc.

2:00 PM – 3:30 PM

■ F77: Developing as a Leader in the 21st Century
Teach These 4 Leadership Skills and Unlock the Potential of Your People and the Power of Your Organization
Sharon McCollick - Strong Point Strategy, LLC
What’s in Your Toolbox? Developing as a Leader in the 21st Century
Cullen Hackler - PEI

THURSDAY, NOVEMBER 10

8:00 AM – 9:30 AM

■ F78: Strategic Planning for Growth & Creating a “Gotta Have” Company
Let’s Do This: Strategic Planning for Growth
Andrena Sawyer - P.E.R.K. Consulting
Creating a “Gotta Have” Company - What it Means and How to Make it Happen
Joel Strom - Chief Value Officers

10:00 AM – 11:30 AM

■ F79: Create Cultures of Innovation and Accountability
Raising the Bar with Innovation Mastery
Gary Covert - Gary Covert Consulting and Joel Strom - Chief Value Officers

12:00 PM – 1:30 PM

NEW! ■ F710: Using Emotional Intelligence to Transform You & Your Business
Leading From the Inside Out
Jennifer Keitt - The Keitt Institute
5 Years to Transform a 50-Year-Old Company - How We Did it and the Truths it Confirmed
Joel Strom - Chief Value Officers

MARKETING & SALES

TUESDAY, NOVEMBER 8

8:00 AM – 9:30 AM

■ F80: The State of Sales & Marketing: Attracting Tomorrow’s Buyers
The State of Sales & Marketing in Manufacturing
Michele Nichols - Launch Team Inc.
Attracting Tomorrow’s Buyers: Guide to Digital Marketing for Manufacturers
Josh Blankenship - TopSpot
10:00 AM – 11:30 AM

**NEW! F81: Make the Most of Your Marketing Without a Big Team**

*Marketing, Party of 1: How to Make the Most of Your Marketing Without a Big Team*
Katie Parlin - Flow Waterjet

*The Best Kept Secret In Industrial Marketing Is You (& Your Friends)*
Eddie Saunders - FlexArm

**12:00 PM – 1:30 PM**

**F82: Manufacturing the Sale & Applying Measurable Processes**

*Manufacturing the Sale: Creating a Sustainable, Measurable Process Model for New Business Development, Marketing, and Sales Support*
Todd Zielinski - Athena SWC

*Applying Measurable Processes to the Manufacturing Sales Function*
Anthony Colarusso - SALT Marketing

**2:00 PM – 3:30 PM**

**NEW! F83: Uncertain Economy & Supply Chain Growth Strategies to Gain Market Share**

*Business Builders: Growth Strategies in an Uncertain Economy*
Mark Frasco - COACT Associates, Ltd.

*Why Your Business Shouldn’t Give Up on Marketing Despite the Supply Chain Crisis*
Jenny Lockhart - 9 Clouds

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**WEDNESDAY, NOVEMBER 9**

8:00 AM – 9:30 AM

**F84: Grow Your Business By Adopting the Right Habits**

Todd Hockenberry - Todd Hockenberry, Inc.

**10:00 AM – 11:30 AM**

**F85: Management & Best Practices for the Sales and Marketing Functions**

*Business Builders: Performance Management of the Sales and Marketing Functions*
Mark Frasco - COACT Associates, Ltd.

*5 Best Practices for How Manufacturing Marketers Can Earn Credibility and Trust When Case Studies Aren’t An Option*
Dan Konstantinovsky - RH Blake

**12:00 PM – 1:30 PM**

**NEW! F86: Manufacturing Marketing Automation: How to Create, Implement, and Analyze High-Performing Strategies**

*Digital Transformation & Industry 4.0*
Michele Nichols - Launch Team Inc.

**2:00 PM – 3:30 PM**

**NEW! F87: Technical Writing for Inbound & Marketing Friendly Content**

*How to Turn Technical Writing Into Marketing Friendly Content*
Holly Jobe - protocol 80, Inc.

*How to Write for Inbound Marketing: Best Practices for Engaging Your Leads*
Holly Jobe - protocol 80, Inc.

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**THURSDAY, NOVEMBER 10**

8:00 AM – 9:30 AM

**F88: PAIN vs. GAIN – What Best Motivates Buyers to Buy?**

Dan Seidman - Read Emotions

**10:00 AM – 11:30 AM**

**F89: Getting the Most of Your Website & Digital Ads**

*2022 Battle of the Digital Ad Platforms (and How to Get the Most Out of Google and Facebook Advertising)*
Jenny Lockhart - 9 Clouds

*SEO 101: Making Your Website Work for You*
Shelly Otenbaker - WayPoint Marketing Communications

*The Strategy Behind B2B Sales Videos That Drive Action with Buyers*
Robert Weiss - MultiVision Digital

**12:00 PM – 1:30 PM**

**NEW! F810: It’s Just Business: International Differences in Sales Expectations**

Allison Yeager - Bridge Intercultural Consulting
CONFERENCE PROGRAM
Visit fabtechexpo.com/conference for complete session descriptions.

2:00 PM – 3:30 PM
NEW! ■ F811: Building, Selecting & Developing the “Right” Sales Organization in Today’s “Digital” Marketplace
Ty Swain - Growth Dynamics

ROBOTICS
TUESDAY, NOVEMBER 8
8:00 AM – 12:00 PM
■ WS01: Getting Started in Industrial Robotics Workshop: What You Need to Know
Getting Started in Industrial Robotics
Bob Rochelle - Gudel Inc.
Before You Spend Money on Your First Robot, Here Is What You Need To Know
Michael Schlagenhauffer - Acuity
Safety Requirements for Industrial Robots
Gwendolyn Luscavage - Acuity
Robotic Ink Jet Printing on 3D Surfaces
Branson Brockschmidt - Southwest Research Institute

12:00 PM – 1:30 PM
NEW! ■ F92: Cost-Effective Robots for Any Type of Production, Even One-Offs, With Case Studies
Alex Domanitsky and James Duffy - Abagy Robotic Systems and Ben Sagan - Mitsubishi Electric Automation, Inc.

2:00 PM – 3:30 PM
NEW! ■ F93: Robotic Operating System, Integration and Programming
Selection Criteria for Autonomous Mobile Robots
Jason Walker and Patty Katsaros - Locus Robotics
How to Get Started with Integrating Mobile Robots
Denise Stafford - KUKA Robotics

SMART MANUFACTURING
TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM
■ F100: Digital Transformation Buzzwords & Playbook
Buzzword (Tech) Hangover
Jason Petri - Brightly (formerly Dude Solutions)
A Leader’s Playbook for Digital Transformation
Jeff Hensel - Eide Bailly

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM
NEW! ■ F94: Analyzing Robotic Investment for Small to Mid-Size Fabricators

Robots as a Service – The Uberization of Robotic Manufacturing
James Van Thof - Adaptec Solutions and Dick Motley - FANUC America Corporation
Automation for Small and Mid-Size Fabrication Shops
Kile Snyder - Tube Form Solutions

10:00 AM – 11:30 AM
NEW! ■ F95: Using Robotics to Build Operational Resilience & Collaboration
Optimizing Your Robot Deployments to Help Solve the Labor Shortage
Tom Munger - Realtime Robotics
Robot Autonomy as an Operating System
Francois Simard - Omnirobotic
Enabling Flexible and Safe Human-Robot Collaboration with Speed and Separation Monitoring
Patrick Sobalvarro - VEO

12:00 PM – 1:30 PM
NEW! ■ F96: Evolution of Robot Programming Possibilities
Unlocking Robot Programming Possibilities
Zachary Thoma - Kawasaki Robotics
The Evolution of Robot Programming
Josh Leath - Yaskawa Motoman

2:00 PM – 3:30 PM
NEW! ■ F97: Robotic Solutions for Weld or Joining Technologies
Not So Fast! What to Know When Considering Collaborative Robot Welding.
Christopher Sharp - OTC-DAIHEN
Robotic Welding for Structural Steel
Danny Steyn - Ocean Machinery

= Basic
= Intermediate
= Advanced
10:00 AM – 11:30 AM

**NEW! F111: Digital Transformation on the Shop Floor: Do More With Less**

Adapt Your Manufacturing Process: Do More with Less
Mark Cianciosa - Acieta

Digital Transformation on the Shop Floor
Steve Bieszczat - Dassault Systemes

12:00 PM – 5:00 PM

**WS02: Smart Manufacturing Bootcamp**

Introduction to Smart Manufacturing
Will Healy III - Balluff Worldwide

Building Your Smart Foundation
Jonathan Kim - AMADA AMERICA, INC.

5 Key Steps: Putting People and Process First for Successful, Ongoing Digital Transformation
Paul Vragel - 4aBetterBusiness, Inc.

Cyber Security Advice for Smart Manufacturing
Jason Miller - BitLyft Cybersecurity

Smart Tech: Condition Monitoring / Predictive Maintenance Topic
Will Healy III - Balluff Worldwide

Smart Tech: The Value of CMMS Systems
Jason Petri - Brightly (formerly Dude Solutions)

Real Time Location Systems (RTLS): How to Get the Right Technology Fit
Mark Dirks and Logan Maxell - WISER Systems

Smart Tech: AI Insights in Production
Jerry Foster - Plex Systems

Developing Smart Processes
Jonathan Kim - AMADA AMERICA, INC.

Building Your Smart Action Plan
Will Healy III - Balluff Worldwide

WEDNESDAY, NOVEMBER 9

8:00 AM – 9:30 AM

**NEW! F114: Surviving Technology and Labor Challenges in Digital Manufacturing**

Manufacturing Execution Systems in an Era of Labor Challenges
Andrew Robling - Epicor Software

How SafeRack Used Lincoln Electric Checkpoint® to Maximize Their Productivity and Reward Skilled Labor!
Douglas Odum - SafeRack and Sheldon Wray - The Lincoln Electric Company

Key Manufacturing Problems Solved by MES SaaS
Paul Hogendoorn - FreePoint Technologies Inc.

10:00 AM – 11:30 AM

**NEW! F115: Condition & Production Monitoring in Smart Manufacturing**

Why Your Smart Factory Should Start with Condition Monitoring Retrofits!
Will Healy III - Balluff Worldwide

Automate Your Production Monitoring with Machine Data
Bill Bither - MachineMetrics

Utilizing Connected Machines to Create Maintenance Efficiencies and New Service Models
Brent Nelson - Donaldson

12:00 PM – 1:30 PM

**NEW! F116: Using Artificial Intelligence to Drive Value in Manufacturing**

Don’t Get Left Behind: Using Artificial Intelligence Drive Manufacturing Insights
Jerry Foster - Plex Systems

Partnering with Artificial Intelligence and Machine Learning to Drive Value in Manufacturing
Richard Boyd - Tanjo AI

2:00 PM – 3:30 PM

**F117: IIoT & Agile Development for High Mix, Low Volume Environments**

Manufacturing Improvement with IIoT and Agile Development Process
Casey Greer - AMADA AMERICA, INC.

Solving the Late Problem in High-Mix Manufacturing Environments
Mark Lilly - LillyWorks-Protected Flow Manufacturing

THURSDAY, NOVEMBER 10

8:00 AM – 9:30 AM

**NEW! F118: Protect Your Production Line: How to Keep a Cyber Attack from Bringing Business to a Halt**

Jason Miller - BitLyft Cybersecurity

10:00 AM – 11:30 AM

**NEW! F119: Digital Supply Networks & Steps for Securing Your Shop Against Cybersecurity Threats**

The Digital Supply Network Transition
James Ullum - Source International

Smart Manufacturing continued on next page.
Collaborating Around New Data Streams to Survive the Coming Chaos  
Andrew Johnson - ShelfAware LLC

How to Keep Your Data Protected: The Steps for Securing Your Shop Against Cybersecurity Threats  
Jo Cobble - Paperless Parts

12:00 PM – 1:30 PM
NEW! ■ F110: Using Software & Hardware to Empower Smarter Decisions for Fabricators
Using Software to Empower Smarter Decisions in Design and on the Factory Floor  
Charlie Wood - Fast Radius

The Devil is in The Details: Reducing Mistakes & Increasing Margins in Sheet Metal Fabrication  
Jason Ray - Paperless Parts and Pete Beecherl - PennEngineering

STAMPING

TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM
Jason Brewer - Harbour Results, Inc.

10:00 AM – 11:30 AM
■ S11: Metal Stamping Press Maintenance Best Practices to Maximize Performance  
Jeff Fredline - MECO Corporation

12:00 PM – 1:30 PM
NEW! ■ S12: Dealing with Off-Center Loading in Stamping Operations  
David Diaz-Infante - Nidec Press & Automation

2:00 PM – 3:30 PM
NEW! ■ S13: Maximize Your Metalworking Fluids - Cost, Safety, Performance and Re-use  
Bob Anderson - Tower Metal Working Fluids

WEDNESDAY, NOVEMBER 9
8:00 AM – 9:30 AM
■ S14: Problem Solving Methodologies and Tips for Progressive Dies  
Peter Ulintz - Precision Metalforming Association

10:00 AM – 11:30 AM
NEW! ■ S15: Sensors for Die Protection - Make Die Crashes a Thing of the Past  
Jim Finnerty - Wintriss Controls Group LLC

12:00 PM – 1:30 PM
■ S16: Automatic In-Die Part Quality Monitoring & Tool Adjustments  
James Barrett - Link Electric & Safety Control

2:00 PM – 3:30 PM
■ S17: Creating Operational Excellence in the Press Shop through Automation  
Will Healy III - Balluff Worldwide

THURSDAY, NOVEMBER 10
8:00 AM – 9:30 AM
NEW! ■ S18: Lightweight Sheet Metal for the Automotive Industry  
Kidambi Kannan - AutoForm Engineering USA, Inc.

10:00 AM – 11:30 AM
■ S19: The Impact of Sheet Metal Types on Die Maintenance  
Peter Ulintz - Precision Metalforming Association

TUBE & PIPE

TUESDAY, NOVEMBER 8
8:00 AM – 9:30 AM
NEW! ■ F400: What’s Happening in Tube Bending?  
Adapting to Changes Within the Tube Bending Industry  
Christoph Roehm - WAFIOS AG

All Things Tube Bending  
Kile Snyder and Mike Thomas - Tube Form Solutions
10:00 AM – 11:30 AM

[**F411:** Modern Tube Bending and Lubrication](#)

Modern Tube Bending Machinery
Greg Miller - Tubular Solutions Inc.

Improving Cost and HSE through Lubrication in Tube Forming/Bending
Christopher Fletcher - Tower Metalworking Fluids

12:00 PM – 1:30 PM

[**NEW! F412:** Custom Tube Bending and Laser Cutting](#)

Marshall Arndt - Sharpe Products

2:00 PM – 3:30 PM

[**F413:** Specialty Tube Welding](#)

Premature Failure of Furnace Tubes
Ali AlShawaf - SABIC

WEDNESDAY, NOVEMBER 9

10:00 AM – 11:30 AM

[**NEW! F415:** Specialty Tube & Hot Rolling Processes](#)

UV Coating Process - The Phases & Methodology to Implement a Successful UV Coating Project from Start to Finish
Michael Kelly, Allied PhotoChemical Inc.

Chatter-Free Tube Drawing
Gaetano Andreisek - QASS Technologies

Controlling Hot Rolling Process with Eddy Current
Jose Ignacio Lucas - ISEND

2:00 PM – 3:30 PM

[**F417:** Advanced Solutions for Tube and Pipe](#)

Advanced Cutting Solutions for Blade Life and Tooling Life Optimization in Tube and Pipe Production
Chris Murray - Thermatool Corp.

Post-Weld Heat-Treat Process Optimization
Sasha Tupalo - Thermatool Corp.

Process Control Techniques for High Frequency Welding
Chris Murray - Thermatool Corp.

WORKFORCE DEVELOPMENT

TUESDAY, NOVEMBER 8

8:00 AM – 9:30 AM

[**NEW! F200:** Technology Investment Choices: The Impact of Hiring & Retention](#)

How Technology Strategy is Impacting Hiring & Employee Retention
Will Healy III - Balluff Worldwide

Teambuilding, Communication, and Collaboration in Technology
Kevin Coleman - KMC EMPOWERMENT LLC

10:00 AM – 11:30 AM

[**F211:** Mentoring & Creating a Successful Career Pathing Program](#)

Xcel Mentoring - Fueling Young People with Purpose
Darrell Galloway and Jay Thompson - Xcel Strategies, Inc.

Five Steps to Creating a Successful Career Pathing Program in Your Company
Mark Ernst - Ernst Enterprises, LLC

12:00 PM – 1:30 PM

[**F212:** Motivating & Building an Effective Workforce in 2022](#)

Motivating Employees When You’re Short Staffed
Chuck DeBettignies - Gainsharing Inc.

Winning the Workplace Challenge: Getting Along and Getting Things Done
Tanya Williamson - Married to the Ring LLC (D/B/A Tanya Williamson & Associates)

2:00 PM – 3:30 PM

[**F213:** Rockstar Recruiting & Becoming the Employer of Choice](#)

Rockstar Recruiting for a New Generation
Susan Frew - Team Star Training

Become the Employer of Choice with Rewards, Challenge, and Recognition
Chuck DeBettignies - Gainsharing Inc.

WEDNESDAY, NOVEMBER 9

8:00 AM – 9:30 AM

[**NEW! F214:** Welcome Onboard: Simple Strategies to Keep Your New Hires from Jumping Ship](#)

Lisa Ryan - Grategy

Workforce Development continued on next page.
10:00 AM – 11:30 AM

**F215: Attracting, Leading & Retaining Talent, Millennials & Gen Z in the Workforce**

Retaining and Attracting Manufacturing Talent During Challenging Times
Joe Mazzeo - Integrated Lean and Quality Solutions LLC

Attracting, Leading & Retaining Millennials & Gen Z in the Workforce
Michele Nichols - Launch Team Inc.

12:00 PM – 1:30 PM

**F216: Creating a Culture of Accountability for Organizational Success**

Creating a Culture of Accountability for Organizational Success
Joe Mazzeo - Integrated Lean and Quality Solutions LLC

Creating a Culture to Win in Manufacturing
Gary Covert - Gary Covert Consulting

2:00 PM – 3:30 PM

**NEW! F217: Creating Mentors for our Future & The Value of Apprenticeships**

Creating Mentors for Our Future - The Apprenticeship Gap
Max Ceron - Canadian Welding Bureau Association

Bridging the Gap: The Value of Apprenticeships for Our Workforce
Melanie Bennett and Kevin Toft - ALM Positioners and Andrew Zinn - Davenport West High School

THURSDAY, NOVEMBER 10

8:00 AM – 9:30 AM

**NEW! F218: Prioritize Your People: Building a Culture to Help You Grow, Maximize Profits**

Adam Schmitt - Fabricator’s Collective

10:00 AM – 11:30 AM

**F219: READ (HIDDEN) EMOTIONS: Know What Others are Feeling**

Dan Seidman - Read Emotions

12:00 PM – 1:30 PM

**NEW! F210: Women Who Lead: Activating the Power Within**

Women Who Lead: Become the Leader You are Destined to Be
Ria Story - Blue-Collar Leadership

Activating the Power Within
Nyabingha McDowell - Sistaaz Heal Network LLC

WELDING

TUESDAY, NOVEMBER 8

8:30 AM – 4:00 PM

W1: AWS/WELD-ED EDUCATORS CONFERENCE – ROBOTS AND AUTOMATION IN WELDING EDUCATION

8:30 AM - 8:45 AM
Welcome/ Introductions
Rick Polanin, AWS President & Co-Principal Investigator, Weld-Ed

8:45 AM – 9:15 AM
Teaching Welding Students About Robots
Rick Polanin, AWS President & Co-Principal Investigator, Weld-Ed

9:15 AM – 10:00 AM
Plummer Lecture - The Written Project Portfolio: Benefits to Practical Welding Training
Jeff Carney, Professor, Ferris State University

10:00 AM – 10:15 AM - BREAK

10:15 AM – 11:00 AM
Robot Education at COC
Tim Baber, Professor, College of the Canyons

11:00 AM – 11:45 AM
Robot Systems Education
Joel Johnson, Professor, North Dakota College of Science and Technology

11:45 AM – 12:15 PM – LUNCH
Sponsored by - Hypertherm Plasma Cutting for Student Projects

12:15 PM – 1:00 PM
Hypertherm Automation
Hypertherm Inc.
1:00 PM – 1:45 PM
Engaging Students with Robots
Lincoln Electric Inc.

1:45 PM – 2:00 PM - BREAK

2:00 PM – 2:45 PM
Robot Education at Miller Electric
Miller Electric Inc.

2:45 PM – 3:15 PM
AWS Foundation Scholarship Opportunities
Monica Pfarr, AWS Foundation Executive Director

3:15 PM – 3:30 PM
Vendor Presentations

3:30 PM
Wrap-Up and Evaluations

TUESDAY, NOVEMBER 8
9:00 AM – 4:30 PM
W2: WELDING PRODUCTIVITY TRACKS

9:00 AM – 9:15 AM
Welcome Introduction
Steve Snyder, Staff Welding Specialist, American Welding Society

9:15 AM – 10:15 AM
Cobots Increasing Welding & Cutting Productivity
Josh Pawley, VP of Business Development, Vectis Automation

10:30 AM – 11:30 AM
Robotic Welding Automation: Weld a lot of Parts FAST with CONSISTENT Results
Mike Monnin, General Manager – Sales & Marketing, OTC Daishen, Inc.

11:30 AM – 12:15 PM
Welding Productivity for Welding Enthusiast
Rob Tessier, Airgas and Steve Snyder, Staff Welding Specialist, American Welding Society

12:15 PM – 1:00 PM
LUNCH

1:00 PM – 1:45 PM
Welding continued on next page.

1:45 PM – 2:00 PM
Welding for Sanitary Applications
William Roth, President, Welding Engineering Consultants, LLC and Richard Howard, Director of Quality, Traylor Industrial

This presentation covers basic reasons why sanitary design differs from ordinary fluid designs. It will include some weld joint design principles for sanitary applications as well as acceptance criteria for welded connections per AWS D18.

10:00 AM – 11:00 AM
High Purity Orbital Welding
Richard Howard, Director of Quality, Traylor Industrial and Richard Campbell, Bechtel Fellow & Welding Technical Specialist, Bechtel

This presentation will describe and explain the importance of qualified practices and procedures, with an emphasis on daily production welding. In the high purity world there isn’t any time for rework and rejection, it can adversely affect the schedule and cost of the project. That’s why proven qualified welding procedures and practices are so important to this industry.

11:00 AM – 12:00 PM
Semiconductor High-Purity Welding
Richard Campbell, Bechtel Fellow & Welding Technical Specialist, Bechtel and Richard Howard, Director of Quality, Traylor Industrial

This presentation will provide an overview of the highest of high-purity welding, that in the semiconductor and microelectronics industries. With the current supply-chain crisis, there is a huge push to bring semiconductor manufacturing back to the US. This will provide information on the SEMI standards for welding of tubing in this industry, their requirements and acceptance criteria, along with applications and purging techniques.
1:00 PM – 2:00 PM
Design Engineers & Weld Engineers – How Their Roles Differ and How They Can Work Together
Joe Bailey, Weld Engineering Manager, Vermeer
Using D14 standards as a basis, this talk will consider the unique qualifications and responsibilities of design engineers and weld engineers and ultimately explore how these two roles can and should work together to make a robust product design and manufacturing process.

2:30 PM - 3:30 PM
D1.6 - Proper Purging of Stainless Steel and Other Stainless Steel Pipe Welding
William F. Newell, Jr. PE, Peng, IWE, Vice President, Engineering, Euroweld, Ltd.
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 advantages and disadvantages for each approach.

WEDNESDAY, NOVEMBER 9
8:00 AM – 4:00 PM
W5: APPLIED WELDING METALLURGY
Practical Welding Metallurgy
Ben Pletcher, Chief Welding Technologist, Bechtel
Introduction to basic metallurgy concepts with practical applications of material properties from time of manufacturing through to welding fabrication. We will discuss crystal structures, grain size, effects of welding and how these change the mechanical properties of our engineering alloys. By understanding fundamental physical metallurgy concepts, we will evaluate scenarios of how and why we use preheat, PWHT, or place limitations on heat input. Our emphasis on this course will be carbon and low-alloy steels but introduce stainless and non-ferrous alloys for future more specialized study.

8:00 AM – 4:00 PM
W6: PRICING FOR PROFITABILITY OF WELDED STRUCTURES
Scott Helzer, Technology Enabled Welding & Inspection - AWS: CWI, CWE, ASNT: PT, RT, VT
Introduction to the Micro and Macro Economics of Welding Using Cost / Volume / Profit Relationships for the Best Practices in the Economics & Marketing of Welded Fabrications

10:00 AM - 12:00 PM
W7: WELDING PERFORMANCE QUALIFICATIONS
Scott Witkowski, Republic Testing Labs
Learn how to successfully perform, test, report, and write certs for welder qualification.

1:00 PM – 3:30 PM
W8: SECRETS TO A SUCCESSFUL PQR
Scott Witkowski, Republic Testing Labs
Learn how to successfully create, weld, test, report, & write a successful PQR over multiple codes.

THURSDAY, NOVEMBER 10
8:00 AM – 4:00 PM
W9: STAINLESS STEEL FABRICATIONS DO’S & DON’TS, AND WHY NOT(S)
Scott Helzer, Technology Enabled Welding & Inspection - AWS: CWI, CWE, ASNT: PT, RT, VT
Introduction to the properties of stainless steels: corrosion resistance, weldability, joint designs, base and electrode compatibility & the estimating of costs as compared to carbon steels.
RESISTANCE WELDING ONE-SPOT-SHOP

MACHINERY CONSUMABLES SERVICE + REPAIR TRAINING

INDUSTRIAL WATER CHILLER

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T. J. SNOW

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TUESDAY, NOVEMBER 8

7:00 AM – 8:30 AM
SESSION 1: PLENARY SESSION
Chair: T.J. Lienert, TJ Lienert Consulting

8:00 AM
Addressing Materials Challenges and Other Barriers to the Future of Additive Manufacturing
Todd Palmer, Pennsylvania State University

SESSION 2: AMERICAN COUNCIL OF THE IIW
Chair: R. Shaw, Steel Structures Technology Center

10:00 AM
Role of Standards in Welding Safety
Bruce Cannon, Weld Australia

10:30 AM
Keeping Pace with Change Thomas Medal 2020
Vincent van der Mee, European Welding Association

11:00 AM
IIW Commission I Activities on Additive Manufacturing
Doug Kautz, Leidos, Inc.

11:20 AM
The International Institute of Welding: Strategic Directions for Welding and Joining Research and Industrial Applications
Robert Shaw, Steel Structures Tech Ctr

11:40 AM
Microstructure and Mechanical Properties of Electron Beam Additively Manufactured Ti-6Al-4V
Amber Black, Samantha Lawrence, Mary O’Brien, Robin Pacheco, Nolan Regis, Mark Sandoval, Michaela McKamey, Brett Preston, and Thomas Jungst, Los Alamos National Laboratory

SESSION 3: ARTIFICIAL INTELLIGENCE/MACHINE LEARNING
Chair: Zongyao Chen, Air Liquide

10:00 AM
An AI-based Vision Methodology for Self-guided Seam Tracking in Gas Metal Arc Welding
Mahyar Asadi and Amin Ghasemazar, Novarc Technologies

10:20 AM
Evaluation of Spatter Production with Deep Learning Algorithms
Zongyao Chen, Air Liquide

10:40 AM
How to Accurately Monitor the Weld Penetration from Dynamic Weld Pool Serial Images using CNN-LSTM Deep Learning Model?
Rui Yu, Joseph Kershaw, Peng Wang, and YuMing Zhang, UKY

11:00 AM
Machine Learning-based Process Characterization and Efficient Adaptive Control in Robotic Arc Welding
Joseph Kershaw, Rui Yu, Yuming Zhang, and Peng Wang, University of Kentucky

11:20 AM
Predicting Operation Windows for High-Frequency Induction Aluminum Tube Welding Through Machine Learning
Shao-Wei Cheng, National Tsing Hua University and Hongyan Zhang, University of Toledo
SESSION 4: AUTOMATION, SENSING & CONTROL
Chair: YuMing Zhang, UKY

2:00 PM
Developing an Automated Defect Detection TIG Welding Robot with a Future Adaptive Implementation
Shems-Eddine Belhout, John Codevilla, Devon Goodspeed, William Hamel, Bradley Jared, and Dylan Hansen, University of Tennessee; David Hansen, John Tatman, and Greg Frederick, Electric Power Research Institute

2:20 PM
High Speed Video (HSV) and Synchronized Data Acquisition (DAQ) to Observe Welding Process Stability
James McNeil, Jim Hansen, Michael Carney, Dennis Harwig, and Nick Kaputska, EWI

2:40 PM
Real-Time Recognition of Arc Weld Pool Using Image Segmentation Network
Rui Yu, Joseph Kershaw, Peng Wang, and YuMing Zhang, UKY

3:00 PM
Micro Cross Weld Tensile Testing of Dissimilar Metal Welds using Digital Image Correlation
William Siefert and Boian Alexandrov, Edison Joining Technology Center (OSU Welding Engineering)

3:20 PM
Mechanical Design and Development of a Five Degree-of-Freedom TIG Welding Robot
Devon Goodspeed, Bradley Jared, William Hamel, Josh Penney, Shems Belhout, Ethan Rummel, John Codevilla, and Dylan Lewis, The University of Tennessee

SESSION 5: WELDING PROCESS STUDIES
Chair: Nick Kaputska, EWI

2:00 PM
Application of Polarity Switching Capacitor Discharge Welding to Aluminum Sheet Structures
Jerry Gould and Lindsey Lindamood, EWI; Julio Malpica, Patrick Lester, and Dewei Zhu, Novelis Global Research & Technology Center

2:20 PM
Buried Arc GMAW for Single Pass Single Sided Erection Joints onboard Ships
Jim Hansen, Nick Kapustka, and Paul Blomquist, EWI

2:40 PM
Impact of Beam Deflection on Porosity During Keyhole Mode Laser Welding of Aluminum Alloys
Abhirup Saha, Tarasankar DebRoy, and Todd Palmer, Penn State University; Jeffrey Rodelas and Michael Maguire, Sandia National Laboratories

3:00 PM
Micro GTAW Applied to a Battery Pack for Racing Applications
Faisal El Idrissi and Prashanth Ramesh, Center for Automotive Research – The Ohio State University; Kaue Riffel, Federal University of Santa Catarina; Michael Johann, Venturi North America; and Antonio Ramirez, Edison Joining Technology Center – The Ohio State University

3:20 PM
WeldVac – A Quiet, Clean Metal Removal System
Paul Blomquist and Jason Rausch, EWI

WEDNESDAY, NOVEMBER 9

SESSION 6: MECHANICAL PROPERTIES
Chair: P.W. Hochanadel, LANL

9:00 AM
An Investigation into the Effects of Stir Zone Chemistry on Fracture Toughness in Friction Stir Welded Pipeline Grade Steel
Michael Eff, Jerry Gould, Tim Stotler, and Hyeyun Song, EWI

9:20 AM
Development of a Temperature-Dependent Material Property Database for DH36 Steel
Daniel Bechetti, Jennifer Semple, and Charles Fisher, Naval Surface Warfare Center, Carderock Division; Wei Zhang, The Ohio State University
9:40 AM
Evaluating the Carbide Precipitation Behavior During Short Term Tempering and its Influence on Impact Toughness
Eun Jang and Boian Alexandrov, OSU Research

10:00 AM
Fatigue Properties of Dissimilar Aluminum to Steel Welds Joined by Ultrasonic Interlayered Resistance Spot Welding Process
Luke Walker and Wei Zhang, The Ohio State University; Craig Vanderbilt, 2KTH Parts Industries; and Anoop Samant, Honda Development & Manufacturing of America

10:20 AM
Hardness Prediction by Incorporating Heat Transfer and Molten Pool Fluid Flow in a Multi-pass, Multi-layer Weld for Onsite Repair of CSEF Grade 91 Steel
Aryan Aryan, Obinna Onwuama, Desmond Bourgeois, and Wei Zhang, The Ohio State University

10:40 AM
Use of Low Transition Temperature Steel Alloys In Welded Overlays for High Wear Applications
Carter Trautmann and Patricio Mendez, University of Alberta

11:00 AM
Meta-Analysis of Fatigue Properties in Additively Manufactured 316L Austenitic Stainless Steel
Ian Wietecha-Reiman, Stephen Sabol, David Driggers, and Todd Palmer, Pennsylvania State University

SESSION 7: PROCESS MODELING AND SIMULATION
Chair: P.F. Mendez, CCWJ Univ of Alberta

9:00 AM
Analysis of Temperature and Velocity Fields in the GTAW Arc for Argon
Patricio Mendez, Alberto Velazquez, Marco Ramirez, and Alfredo Delgado, Universidad Nacional Autónoma de México and Stefano Sacco, University of Alberta

9:20 AM
Droplet Temperature in GMAW
Rishiekesh Ramgopal and Patricio Mendez, Canadian Centre for Welding and Joining

9:40 AM
Energy Balance in Gas Metal Arc Welding
Vicente Núñez Sánchez and Patricio Mendez, CCWJ

10:00 AM
Integrated Modeling of Defect Formation During Deep Penetration Laser Welding of Creep Resistant Nickel Base Alloys
Mingze Gao, Barnali Mondal, Todd Palmer, and Tarasankar Debroy, Penn State University

10:20 AM
Scaling Analysis of Thermal and Mechanical Process in Friction Stir Welding
Xinrui Liu and Patricio Mendez, University of Alberta

10:40 AM
The Influence of Dynamic Behaviors Characteristics of Molten Pool on the Weld Formation during the High-Speed Laser Welding
Yuweei Ai, Central South University

SESSION 8: ADDITIVE MANUFACTURING
Chair: Michael Eff, EWI

2:00 PM
Carbonitride Development and Heat Treatment Response of Additively Manufactured 17-4 PH Stainless Steel with Variations in Composition
Derek Shaffer, Pennsylvania State University

2:20 PM
Characterization of Dissimilar Materials 410 Martensite Stainless Steel and Mild Steel Component Produced by Wire Arc Additive Manufacturing
Wei Tang, Yukinori Yamamoto, Andrzej Nycz, Peeyush Nandwana, Michael Kirka, Derek Vaughan, Chris Masuo, Luke Meyer, Sudarsanam Babu, and Sougata Roy, Oak Ridge National Laboratory; Obed Acevedo, University of Tennessee
2:40 PM
Deleterious Phase Avoidance in Additively Manufactured Functional Gradients through Path Planning
Olga Eliseeva, EWI

3:00 PM
Large-Scale Hybrid Manufacturing using Wire Arc Additive Manufacturing
Joshua Penney, Aaron Cornelius, Tiffany Quigley, Ross Zameroski, William Hamel, Bradley Jared, and Tony Schmitz, University of Tennessee

3:20 PM
Process-Feature-Microstructure-Property Relationships for A9628 Directed Energy Deposition Additive Manufactured Steel Components
Nikolas Vega Michalak, Dennis Harwig, and Boian Alexandrov, Ohio State University

3:40 PM
The Effects of Post-Weld Processing on Friction Stir Welded Additive Manufactured AlSi10Mg
Michael Eff, EWI and Harvey Hack, Northrop Grumman

4:00 PM
Hybrid Manufacturing: Combining Additive Friction Stir Deposition, Metrology, and Machining
Ross Zameroski, Joshua Kincaid, Sudarsanam S (Suresh) Babu, and Tony Schmitz, University of Tennessee, Knoxville

4:20 PM
In-situ Liquid Nitrogen Cryogenic Cooling for Interpass Control in High-Duty Cycle Wire Arc Additive Manufacturing of Large Components for Navy Applications
Alexey Kuprienko, Dennis Harwig, and Carolin Fink, The Ohio State University; Michael Carney, EWI

SESSION 9: WELDABILITY/ WELDING METALLURGY
Chair: Daniel Bechetti; NSWC Carderock Division

2:00 PM
Influence of Microstructure on the Mechanism of Hydrogen-assisted Cracking in Dissimilar Metal Welds for Refinery Application
Abbas Mohammadi and Boian Alexandrov, The Ohio State University; Jorge Penso, Shell Global Solutions US Inc.

2:20 PM
Influence of Microstructure on the Mechanism of Hydrogen-assisted Cracking in Dissimilar Metal Welds for Refinery Application
Abbas Mohammadi and Boian Alexandrov, The Ohio State University; Jorge Penso, Shell Global Solutions US Inc.

2:40 PM
Investigation of Fe-10 wt.% Ni Steel Weld Metal Hydrogen Induced Cracking Susceptibility using the Gapped Bead on Plate (GBOP) Test
Tyler Christ and Daniel Bechetti, NSWC Carderock Division

2:40 PM
Material Characterization of Grade 91 Steel Welds using Micro-resolution Ultrasonic Imaging System
Obinna Onwuama, Aryan, Desmond Bourgeois, and Wei Zhang, The Ohio State Univ Dept of MSE; Jeong Na, Kellogg Brown & Root LLC

3:00 PM
Optimizing Productivity of Hyper Duplex Stainless Steels Overlay while Avoiding Sigma Phase Formation
Andres Acuna and Antonio Ramirez, The Ohio State University

3:20 PM
Phase Transformation Behavior of Fe-10wt.% Ni Steel Weld Metal
Daniel Bechetti, Jennifer Semple, and Matthew Sinfield, Naval Surface Warfare Center, Carderock Division

3:40 PM
The Influence of Boride Phase Transformations on Heat-Affected Zone Liquidation Cracking Susceptibility in Laser Welded 304L Stainless Steel
Erin Barrick, Jeffrey Rodelas, James (Tony) Ohlhause, Johnathon Brehm, Jack Herrmann, Peter Duran, Khalid Hattar, Kathryn Small, Ryan DeMott, and Charlie Robino, Sandia National Labs

4:00 PM
Welding Investigation of Wrought FeMnAl Steel
Tao Dai, LeTourneau University and Zhili Feng, Oak Ridge National Laboratory

AWS POSTER COMPETITION
Posters present welding results and related material, which are best communicated visually, as well as research results that call for close study of photomicrographs, tables, systems architecture, or other illustrative materials.
MONDAY, NOVEMBER 7

7:00 AM – 8:30 AM  
AWS Prayer Breakfast

This year’s speaker at the AWS Prayer Event will be Steve Bunyard. Steve Bunyard is the president of ReIGNITE Hope, which is a faith based welding training organization headquartered in Southern California. In his younger years, Steve was CEO and owner of Premier Performance, a high-performance automotive retailer and manufacturer in Orange County, California. After selling the company, Steve went on to become the missions pastor at Rolling Hills Covenant Church (RHCC) for twenty years. While pastoring at RHCC, Steve founded ReIGNITE Hope in 2011. Steve is an American Welding Society Certified Welder and a Certified Welding Inspector. Steve has a bachelor’s degree from Long Beach State University and a Master’s degree in Christian Apologetics from Biola University. Steve and his wife Lorri have been married for 47 years and live in San Pedro, California.

8:30 AM – 10:00 AM  
AWS Opening Session / Annual Business Meeting

During the AWS Opening Session and the 103rd Annual Business Meeting, 2022 AWS President Dr. W. Richard Polanin will give the Presidential Report and Mr. Dennis K. Eck will be inducted as the AWS President for 2023. Following the induction, the 2022 Class of AWS Counselors, Fellows, and the CWI Lifetime Achievement Award winner will be introduced.

10:30 AM – 11:30 AM  
Comfort A. Adams Lecture

The Comfort A. Adams lecture this year is titled “Understanding and Control of Weld Microstructure and Joint Interface of Steels and Dissimilar Metals” by Toshihiko Koseki, Professor at Kyoto University of Advanced Science and Emeritus Professor of The University of Tokyo in Japan.

6:30 PM – 8:30 PM  
AWS Opening Reception

On behalf of the AWS president and first lady, we invite you to attend the AWS Opening Reception. This reception is the official kick off to FABTECH 2022 for AWS members. Attendees will have the opportunity hear from our current 2022 President Dr. W. Richard Polanin, President Elect Dennis K. Eck, and Executive Director & CEO Gary W. Konarska II.

TUESDAY, NOVEMBER 8

12:00 PM – 2:00 PM  
AWS National Awards Ceremony

As the Society and the Industry it serves have grown, so has the need to recognize outstanding scientists, engineers, welders, educators, and researchers. This Award Ceremony and Luncheon will serve to celebrate their incredible accomplishments. This is an invitation only event.

2:00 PM – 3:00 PM  
AWS National Nominating Committee – Open Meeting

AWS members are requested to submit their recommendations for national officers to serve during 2024. Nominations must be accompanied by 20 copies of biographical material on each candidate, including a written statement by the candidate as to his/her willingness and ability to serve if nominated and elected.

WEDNESDAY, NOVEMBER 9

12:00 PM – 2:00 PM  
AWS Rhenda M. Kenny Section Appreciation And Member Milestone Recognition Event

Held each year to coincide with FABTECH, the AWS Rhenda M. Kenny Section Appreciation and Member Milestone Recognition Event unites leaders from across the American Welding Society to celebrate the dedication and service of long-time members and outstanding volunteers, including AWS Section and Student Chapter Officers.

1:00 PM – 3:00 PM  
WEMCO Excellence in Welding Awards Ceremony

The best and brightest stars in the welding industry will be honored for their outstanding achievements at the annual Excellence in Welding Awards. Presented by the AWS and WEMCO, the Excellence in Welding Awards honor outstanding people, organizations and programs that elevate the image of welding. This is an invitation only event.
EXHIBIT HALL CAREERS IN WELDING MOBILE EXHIBIT
OPEN DURING SHOW HOURS

The American Welding Society Foundation’s Careers in Welding Mobile Exhibit, sponsored by Lincoln Electric, is a 53-foot expandable trailer that provides individuals with a unique, hands-on virtual reality welding experience. Visitors learn about the vast career opportunities in the welding field and how they can apply for AWS Scholarships to pursue education and training. Each day of the tour, a $1,000 scholarship will be awarded to the person with the highest score on the VRTEX virtual reality welding machines.
DESTINATION: ATLANTA

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