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EWI.

CEO UPDATE

July 2014

EWI is a valued EWI member. Below are some updates from our headquarters that I think may be of interest to you and your colleagues.

Innovation: Eddy Current For Nondestructive Evaluation

EWI's overall leadership in advanced nondestructive evaluation (NDE) is aimed at increasing the accuracy and reducing the time and cost of quality inspections. Recently, we have been applying our NDE capabilities to additive manufacturing (AM), (also referred to as 3D printing), of metals. The lack of adequate NDE examination techniques before, during, and after AM fabrication was recently identified as one of the current challenges preventing wide adoption of AM components, especially for critical applications.

Eddy Current NDE techniques have numerous features that closely match the desired capabilities of a real-time AM monitoring and inspection technology. Eddy Current techniques are non-contact, fast, and do not require any couplant or media to transmit energy into the component; this reduces the potential for contamination. They are capable of detecting both discontinuities (cracks, pores, scratches, and lack of fusion), and more gradual changes in the material, such as phase and chemical composition, stresses, surface irregularities, and roughness. Small surface and slightly subsurface defects and conditions are also possible to detect and quantify. A large volume of measured data acquired with each successive deposition can be processed and imaged to enable layer-by-layer evaluation and qualification.

We are currently developing and demonstrating advanced noncontact Eddy Current techniques to detect, image, and quantify challenging AM defects and conditions. For more information please contact Evgueni Todorov at etodorov@ewi.org or 614.688.5268.

News: New Faces At EWI

I am pleased to announce that three **new Associates** have joined us this past month. You'll hear more about them in the coming months. They are:

Michael Ulbrich – President, EWI New York

Chris Kiminas – Vice President, Marketing & Sales

Mahdi Jamshidinia – Applications Engineer, Additive Manufacturing/Lasers

EWI's [Titanium Weld Color Inspection Kit](#) has long been considered the standard for visual inspection of titanium weldments for the Navy. Now, it's become the standard across a broad spectrum of industries including defense, aerospace, energy, oil & gas, and more. The kit's inspection cards are now more durable than ever, with clearer, sharper images. Learn more about the kit or order one on our website.

I'm proud to announce that the **EWI Forming Center** recently received one of nine grants from the State of Ohio's [Edison Advanced Manufacturing Program \(AMP\)](#). This award will provide \$400,000 in funding to establish a material formability testing service to evaluate lightweight

materials and their performance in manufacturing and production environments. The EWI Forming Center's goal with this grant is to establish practical and reliable testing methods for industry.

Member Benefit: Professional Training and Education

EWI offers professional education courses in all key areas of materials joining technology. Designed for engineers, technicians, supervisors, and managers, classes are taught by experts who relate course material to real-world applications. Classes are offered on a regular schedule, and members receive discounts on all class fees. In addition, when four attendees from the same company or organization register for the same course, a fifth can attend free of charge. Classes also can be customized by skill level or to match your organization's specific requirements. Available in single or multi-day formats, they can be conducted at our facility or yours. If you have six or more associates who would like to attend training, please [contact us](#) for flat fee pricing.

Training & Events

July 22-23, 2014: [Ultrasonic Additive Manufacturing Users Conference](#) **FIRST EVER**
(Columbus)

August 4, 2014: [Fundamentals of Welding Engineering](#) (Columbus)

September 17-18, 2014: [7th International EWI/TWI Seminar on Joining Aerospace Materials](#)
(Seattle, hosted by Boeing)

On The Road

Principal Engineer Bill Mohr will speak on "Modeling of Tensile Residual Stresses Extending More Than 5 Weld Widths from Weld Joint"

ASME Pressure Vessels and Piping Conference (PVP 2014)

July 20-24, 2014

Hyatt Regency Orange County, Garden Grove, CA

More information can be found [here](#).

Senior Engineer Evgueni Todorov will present "Evaluation of Friction Stir Welds with Phased Array Ultrasonic and Array Eddy Current Techniques"

Quantitative Nondestructive Evaluation Conference

July 20-25, 2014

Boise Centre, Boise, ID

More information can be found [here](#).

EWI is playing a leading role in the **ASME 2014 International Design & Engineering Technical Conferences**. We're sponsoring a **Manufacturing Solutions Forum**, on August 17 from 1:00-5:00 pm. EWI New York Operations Manager Steve LeVesque and EWI Flexible Automation Technology Leader Ron Brown will host the forum. EWI VP/Chief Technology Officer Chris Conrardy will present "EWI's Models for Public-Private Partnerships." at the **Advanced Design & Manufacturing Forum** as part of a panel on Innovation and Entrepreneurship. The session takes place on August 20 from 1:30-3:10 pm.

August 17-20, 2014

Buffalo Niagara Convention Center, Buffalo, NY

More information can be found [here](#).

Mark Norfolk, President, Fabrisonic LLC (an EWI affiliate), will present "Solid State 3D Printing of Metal"

AWS Additive Manufacturing Conference

September 9-10, 2014

Renaissance Orlando Airport Hotel, Orlando, FL

More information can be found [here](#).

Laser Technology Leader Stan Ream will be in the EWI booth at **Lasers for Manufacturing Event (LME) 2014**

To set up an appointment in advance, contact sream@ewi.org.

September 23-24, 2014

Schaumburg Convention Center, Schaumburg, IL
More information can be found [here](#).

Principal Engineer George Ritter will present "Coatings to Control Solar Heat Gain on Rails" at this year's **American Railway Engineering and Maintenance-of-Way Association Conference (AREMA)**

September 28-October 1, 2014

Hilton Chicago, Chicago, IL

More information can be found [here](#).

Associate of the Month: Linda Holmes Member Development Manager

Linda Holmes has more than 12 years of new business development and customer relationship cultivation experience. Her expertise in new business capture and retention, key opinion leader development, event management, recognition program design, and training program implementation is instrumental to her role as Member Development Manager. As a results-driven, innovative leader, Linda develops and maintains client relationships by working with Business Development and Technology teams at EWI in order to strengthen member relations and depth of services provided.



Prior to joining EWI, Linda was an integral part of the Central Ohio Weight Watchers community. As a corporate account manager, she managed outreach and engagement activities across a 21-county region. She is credited with growing the territory exponentially by building awareness and trusted customer relationships, and developing partnerships with market influencers. Linda developed mutually beneficial contract agreements in support of employee health and wellness, and demonstrated the ROI of program implementation along with the qualitative value of reduced absenteeism, healthcare cost savings, increased productivity, and morale.

Welcome: New EWI Members

We are thrilled to announce the following new EWI members:

American Axle & Manufacturing, Inc.

AAM is a leading, global Tier-One automotive supplier of driveline and drivetrain systems and related components for light trucks, SUVs, passenger cars, crossover vehicles and commercial vehicles with a regionally cost competitive and operationally flexible global manufacturing, engineering and sourcing footprint.

Southwest Jiaotong University – Material Process Engineering Research Center

Southwest Jiaotong University (SWJTU) was founded in 1896 and is one of China's oldest higher education institutions. Known as the cradle of China's railway engineers and "the Cornell of the East", SWJTU is the birthplace of China's modern education in transportation, mining & metallurgy and civil engineering.

On behalf of all of our Associates, thank you for making EWI your innovation partner.

A handwritten signature in black ink, appearing to read "Henry Cialone".

Dr. Henry Cialone
EWI, President & CEO
614.688.5000
henry@ewi.org

(P.S. Stay up-to-date on all EWI happenings. Follow [@EWI_Innovation](#) on Twitter and be sure to Like us on [Facebook](#).)



We Manufacture Innovation

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