

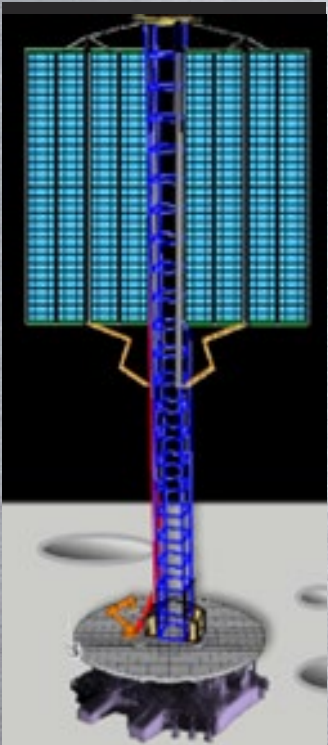
# EWI 2024 – CELEBRATING OUR 40TH YEAR WITH TECHNICAL INNOVATION AND ACHIEVEMENT



More than 200 professionals and students participated in our **6 in-person trainings, 2 online courses, and 1 hybrid class.**



Working with the 2024 top global automotive OEM, we developed an advanced spot-welding technique for aluminum body-in-white that enhances electrode life, minimizes need for cooling water, and **reduces energy use during production by more than 85%.**



The capabilities of our tele-manufacturing system expanded to accommodate multiple functions including **tele-gouging, tele-grinding, and tele-inspection.**

Funded by NASA, EWI demonstrated **Robotic Refill Friction Stir Spot Welding** to build solar towers on the moon in a Phase 1 proof-of-concept study. EWI is advancing the application to TRL 6, demonstrating RFSSW in lunar conditions and performing automated assembly.



Our **H2 and CO2 Test Labs** completed 19 client and R&D projects in the first full year of operation. Industry users included energy, pipeline, heavy equipment, aerospace, chemical, and automotive companies.

EWI introduced a guide series for **technical innovation in heavy manufacturing**, focused on solving the industry's biggest problems.



As part of our strategic affiliation with CWB, EWI launched **The American Welding Program**, offering numerous training options for both professionals and students.



Our associates gave more than 60 presentations on EWI research at professional conferences throughout the world. In addition, we hosted **3 industry workshops**, drawing over 75 attendees.



**Nancy Porter**, Senior Project Manager, won the prestigious George E. Willis Award from AWS. **Josh James, Matt Hay, and Logan McNeil** received EWI awards for excellence in applied R&D and new client services.



InfoTech WNY honored two EWI leaders in innovative education, **Dan Vrana** for directing the **Buffalo Summer Automation Camp** and **Dillan Sayers** for leading the **Rust Belt Robotics competitive team.**



For small manufacturers unsure about adopting flexible automation, EWI developed a **loaner cobot cell** to provide instruction and practice on common automation-assisted tasks. Three loaners will be available by early in 2025.