

Jerry Gould

Technology Leader Resistance & Solid-State Welding



TECHNICAL EXPERTISE

Jerry Gould is the Technology Leader for resistance and solid-state welding activities conducted at EWI. With a focus on resistance spot welding, particularly of coated and advanced high-strength steels, Jerry has led studies detailing process investigations, weldability of various materials, and weldability of various stack-up and geometry configurations. He has also added resistance welding of aluminum as a recent focus. Further research includes seam welding, projection welding, flash welding, resistance butt welding, and friction welding. Of note has been Jerry's work on honeycomb panel construction, which includes the specific resistance welding processes involved, as well as work with a range of high-temperature materials.

Jerry is also responsible for developing the capabilities for the statistical design of experiments conducted in production facilities on manufacturing equipment. He is now using many of these approaches to investigate various forge welding processes. Jerry has published over 140 technical papers and articles on various aspects of resistance welding, solid-state welding, and welding metallurgy. He holds six patents, and has authored or co-authored 20 EWI Cooperative Research Reports.

BACKGROUND AND PROJECT EXPERIENCE

Since 1985, Jerry has been on the senior technical staff concentrating on forge welding activities. Prior to joining EWI, he was senior research engineer at the Inland Steel Company Research Laboratory. His major area of expertise is resistance spot welding of sheet steels. His research and consulting in this area has included thermal modeling, weld solidification, electrode deterioration, weldability of various materials, and process kinetics. Additional areas of interest are mechanical properties of welded joints, design of experiments, quality management, and resistance welding equipment design. Jerry is a member of the LIFT (Lightweight Innovations for Tomorrow) technical leadership team, serving as Pillar Leader for Joining and Assembly.

EDUCATION

B.S. Mechanical Engineering, California State Polytechnic University, Pomona
 M.E. Metallurgical Engineering & Materials Science, Carnegie-Mellon University
 Ph.D. Metallurgical Engineering & Materials Science, Carnegie-Mellon University

PROFESSIONAL AFFILIATIONS AND AWARDS

American Welding Society

- James A. Lincoln Gold Metal Award (1995)
- Fellow of the American Welding Society (2008)
- Elihu Thomson Resistance Welding Award (2014)

The Metals Society



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