

Alber Sadek

Senior Engineer



TECHNICAL EXPERTISE

Alber Sadek is an senior engineer in EWI's Materials group. His current work involves the selection of metals and alloys as they are applied in different industrial sectors, covering their physical properties, material characterization, weldability (similar/dissimilar alloys), corrosion, wear, fatigue, and creep properties. He investigates the effect of welding parameters, welding processes and shielding gas composition on the microstructure and mechanical properties of different alloy weldments.

BACKGROUND AND PROJECT EXPERIENCE

Prior to joining EWI, Alber was the General Manager of the Welding Technology and Inspection Department at Central Metallurgical Research & Development Institute (CMRDI) in Egypt. While at CMRDI, he provided theoretical and technical support in materials engineering and selection, heat treatment, material characterization, welding metallurgy (ferrous and nonferrous alloys), welding technology, welding process development, nondestructive testing, and fitness for services and risk based assessment. He was involved in applied joint research projects in the design, characterization and development of implant material and alloys. Alber has extensive experience in failure analysis and troubleshooting for a variety of industrial sectors. His work had been especially beneficial in making improvements at chemical, petrochemical and fertilizer companies.

Through his participation in International Institute of Welding (IIW) activities, Alber is involved with training welding engineers, technologists, specialists, welders, and weld inspectors, and administration of the welder certification program.

EDUCATION

B.Sc. Metallurgical Eng. Dept., Faculty of Eng., Cairo University, 1978
 M. Sc. Metallurgical Eng. Dept., Faculty of Eng., Cairo University, 1983
 Ph.D. Joining and Welding Research Institute, Osaka University, 1990

PROFESSIONAL AFFILIATIONS

International Institute of Welding (IIW)
 Japan Welding Society (JWS),
 Japan Welding Engineer Society (JWES)
 The Welding Institute (TWI), UK.
 American Welding Society (AWS)



1250 Arthur E. Adams Dr.
 Columbus OH 43221
 614.688.5000
ewi.org