



JOSEPH F. GRZETIC
SENIOR STAFF CONSULTANT, FACILITIES MANAGER

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Mr. Joseph Grzetic is a Senior Staff Consultant with experience in physical, mechanical, and chemical testing of pipe and fitting materials. He performs site investigations, and failure analysis of plastic products. He specializes in machine shop practices, test set-ups, court exhibits, optical microscopy, and photography.

Due to his expertise, Mr. Grzetic has also been given the responsibility of Facilities Manager. In this capacity, he oversees the operations of the Aurora location.

Prior to joining Engineering Systems Inc. (ESi), Mr. Grzetic was employed by Bodycote Broutman/L.J. Broutman & Associates for over eighteen years as a Manager of a Piping Products Laboratory on a variety of new piping projects, as well as used piping products, which included failure analysis. Prior to that, he had over eight additional years of experience in research and development which included closed cell polyimide insulation, non-asbestos clutch plates and brake pads, and plastic food containers.

Areas of Specialization

Testing of plastic piping products
Failure analysis of gas, water, and sewer pipes
Gas, water, and sewer pipe investigations
Failure analysis of water inlet valves on appliances
Research and development of materials

Education

St. Rita H.S. Chicago, IL (1975)
College of DuPage (1979)

Positions Held

Engineering Systems Inc., Aurora, Illinois

Senior Staff Consultant, Mechanical Engineering, December 2015 to present
Senior Technologist, Mechanical Engineering, February 2003 to December 2015

Bodycote Broutman Inc., Melrose Park, Illinois

Manager, Piping Products Laboratory, May 1999 – February 2003

January 2018



L.J.Broutman and Associates, Chicago, Illinois

Manager, Piping Products Laboratory, July 1995 – May 1999
Senior Experimentalist, July 1990 – July 1995
Experimentalist, September 1984 – July 1990

Imi-Tech Corporation, Elk Grove Village, Illinois

Foreman, June 1983 – September 1984

International Harvester, Hinsdale, Illinois

Technical Support Engineer, June 1980 – June 1983

Resinoid Engineering, Skokie, Illinois

Manufacturing Engineer Trainee, June 1979 – June 1980

Continental Plastics Industries, Lombard, Illinois

Technician, June 1976 – June 1979

Publications

"Analysis and Testing of Freezing Phenomena in Piping Systems," IMECE2008-69109 by Kenneth M. Smith, Jr., P.E., Michael P. Van Bree and **Joseph F. Grzetic**. Presented at ASME International Mechanical Engineering Congress and Exposition, Boston, MA, November, 2008.

"Analysis and Testing of Freezing Phenomena in Plastic Piping Systems," IMECE2009-10071 by Dale B. Edwards, P.E., Kenneth M. Smith, P.E., Donald E. Duvall, Ph.D., P.E., and **Joseph F. Grzetic**. Presented at 2009 ASME International Mechanical Engineering Congress and Exposition Lake Buena Vista, FL, USA.

"Safety Analysis and Child Testing of Residential Windows," IMECE2009-10127 by Brickman, Dennis B., and **Grzetic, Joseph F.** Proceedings of the ASME 2009 International Mechanical Engineering Congress & Exposition, Lake Buena Vista, FL, November 13-19, 2009, pp. 1-7.

"Crib Tent Safety Analysis," IMECE2010-38593 by Brickman, Dennis B., and **Grzetic, Joseph F.** Proceedings of the ASME 2010 International Mechanical Engineering Congress & Exposition, Vancouver, British Columbia, Canada, November 13-19, 2010, pp. 1-6.

"Preventing Failures in Elastomeric Resistance Bands," by Shah, Anand R., Brickman, Dennis B., **Grzetic, Joseph F.**, and Eganhouse, Joseph T., Proceedings of the Society of Plastics Engineers Annual Technical Conference, Anaheim, CA, May 8-10, 2017, pp. 1-11.