

Joseph S. Gregar

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Professional Experience

1980 to Present	Head Scientific Glassblower, Argonne National Laboratory, Argonne, IL
1974-1980	Plant Superintendent and Head Scientific Glassblower, Pope Scientific, Inc., Menomonee Falls, WI
1973-1974	Head Scientific Glassblower, Aldrich Chemical Company, Milwaukee, WI
1969-1973	Scientific Glassblower, Pope Scientific, Inc., Menomonee Falls, WI
1966-1969	Glassblower, The Milwaukee Glass Works, Inc., Milwaukee, WI

Professional Affiliations

- Member, American Scientific Glassblowers Society (ASGS) 1971 to present
- ASGS Midwest Section Director at Large, 2000 to present
- National Director ASGS, Midwest Section, 1996-2000
- Assistant Treasurer ASGS, 1994-1995
- National President ASGS, 1990-1991
- President-Elect, National ASGS, 1989-1990
- ASGS Midwest Section Director at Large, 1985-1996
- National Secretary ASGS, 1984-1988
- ASGS Midwest Section Treasurer, 1983-1987
- National Director ASGS, Midwest Section, 1981-1984
- Re-elected Chair, ASGS Midwest Section, 1981-1983
- Chair, ASGS Midwest Section, 1977-1979
- Vice-Chair, ASGS Midwest Section, 1975-1977
- Chair or member of 16+ ASGS committees

Presentations for ASGS

- Twenty Year History of the ASGS Junior Member Workshop Seminar Program, Manhattan Beach, CA 2007
- Technical Workshop "Resizing Borosilicate Tubing," national award winner, Cleveland, OH, 2003
- Technical Workshop "Quartz to Tungsten Graded Seals," Colorado Springs, CO, 2001
- Technical Workshop "Unique Vacuum Holders," Colorado Springs, CO, 2001
- Technical Workshop "Attaching Vapor Arm on Gregar Extractor," national award winner, Princeton, NJ, 1999
- Poster on "Fabrication of the Gregar Extractor," Princeton, NJ, 1999
- Paper on "Fabrication of the Gregar Extractor," Minneapolis, MN, 1998
- Technical Workshop "Technique for Enlarging the Diameter of Tubing," Seattle, WA 1995
- Technical Workshop "Quartz to Tungsten Seals," Pittsburgh, PA, 1994
- Technical Papers Moderator, Pittsburgh, PA, 1994

- Technical Paper, "Various Unique Vacuum Holders," Detroit, MI, 1992
- Technical Workshop, "Vacuum Holding Techniques," Detroit, MI, 1992
- Paper and demonstration of the use and construction of "The Tilting McLeod Gauge" to junior members at the Junior Members Workshop Seminar, Orlando, FL, 1990
- Technical Workshop "Construction of Tilting McLeod Gauges," Orlando, FL, 1990
- Technical Paper, "Health Hazards in the Glass Shop," co-author, Orlando, FL, 1990
- Technical Workshop "Construction of Spherical Dewars," Milwaukee, WI, 1989
- Paper and demonstration of "Advanced Silvering Techniques" at Junior Members Workshop Seminar, Milwaukee, WI, 1989
- Technical Paper, "Armollex," Cherry Hill, NJ, 1983
- Technical Paper, "Construction of Large Chemical Storage Vessel," Southfield, MI, 1979
- Technical Workshop, "Construction of Spherical Dewars," Chicago, IL, 1976

Seminars

- Organized and taught beginning and intermediate scientific glassblowing techniques to junior members at the ASGS Junior Seminar Workshop programs, continuously since 1988

Patents

- United States Patent # 7,271,592, Toroid Cavity/Coil NMR Multi-Detector (2007)
- United States Patent #413,678, Gregar Extractor (1999)

Awards

- ASGS President's Achievement Award, (2008)
- Argonne National Laboratory Pacesetter Award (2004)
- ASGS Southeast Section's Dana Sampson Award for the best "Lampshop Hint" published in *Fusion* (2003)
- William A. Wilt Award for Outstanding Technical Workshop at the ASGS National Symposium (2003)
- R&D 100 Award for the Gregar Extractor, presented by R&D Magazine (1999)
- First William A. Wilt Award for Outstanding Technical Workshop at the ASGS National symposium (1999)
- ASGS New York Metropolitan Section's Golden Blowhose Award for outstanding contributions to the ASGS and Scientific Glassblowing (1996)
- J. Allen Alexander Award, the highest award of the ASGS (1993)
- Kermit Fisher Award for Best Technical Paper (1992)
- ASGS Southeast Section's Dana Sampson Award for the best "Lampshop Hint" published in *Fusion* (1992)
- The University of Chicago Board of Governors Outstanding Service Award (1992)
- Helmut Drechsel ASGS Achievement Award (1989)
- Midwest Section ASGS Achievement Award (1982)