

Barbara J. Arnold

EXPERIENCE HIGHLIGHTS

Dr. Arnold holds a B.S., M.S., and Ph.D. in Mineral Processing from The Pennsylvania State University, specializing in coal froth flotation, fine particle processing, and coal petrology. Her research and development experience has included projects for government and industry funding agencies as well as private companies, and has covered the development of a coal cleaning simulator, coal handling, coal blending, coal cleaning characterizations, and flowsheet evaluations. Her project management experience has included the development and management of project budgets, project schedules, oversight of project personnel, and reporting functions. She is currently owner and president of PrepTech, Inc., a small business that offers processing equipment and consulting to coal companies.

EMPLOYMENT HISTORY

1997 - present	President, PrepTech, Inc., Apollo, Pennsylvania
Fall 1995 - Summer 2000, Summer 2003	Part-time Instructor, The Pennsylvania State University New Kensington Campus, MatSc 101--Energy and Fuels in Society; EMSC 150--Out of the Fiery Furnace
1987 - 1996	Project Manager, CQ Inc.'s (formerly EPRI's) Coal Quality Development Center, Homer City, Pennsylvania
Summers: 1984-1986	Student Engineer, EPRI's Coal Quality Development Center, Homer City, Pennsylvania
Summers: 1981-1983	Student Engineer, U.S. Steel Corporation, Applied Research Laboratory, Monroeville, Pennsylvania
1981-1982	Laboratory Technician, The Pennsylvania State University, Mineral Processing Section, University Park, Pennsylvania

EDUCATION

Ph.D. in Mineral Processing, The Pennsylvania State University, 1989
M.S. in Mineral Processing, The Pennsylvania State University, 1985
B.S. in Mining Engineering (Mineral Processing Option), The Pennsylvania State University,
1982

CERTIFICATIONS

Professional Engineer, Pennsylvania (PE 043678-E)

AWARDS

Penn State College of Earth and Mineral Sciences Alumni Achievement Award, 2008
Robert Stefanko Distinguished Achievement Award, Penn State Mining Engineering, 2007
Distinguished Member, Society of Mining, Metallurgy, and Exploration, Inc., Class of 2006
Distinguished Service Award, Coal & Energy Division, SME, 2006
Chairperson Award, Coal & Energy Division, SME, 2003
J. W. Woomer Young Engineer Award, Society for Mining, Metallurgy, and Exploration, Coal Division, 1992
The Henry DeWitt Smith Trust of AIME, Scholarship for Graduate Studies in Mineral Engineering, 1985-1986
Outstanding Young Women of America, 1986
Eric A. and Josephine Walker Award, Penn State New Kensington Campus, 1980

PROFESSIONAL MEMBERSHIP AND ACTIVITIES

Society for Mining, Metallurgy, and Exploration, Inc.
Strategic Planning Committee 1992-93
Strategic Plan Oversight Committee
Working Party on the Structure of SME, 1994
Coal & Energy Division, Secretary, 1995-1996
Coal & Energy Division, Program Chairperson 2001
Coal & Energy Division, Chair, 2003
SME Board Member, 2002, 2003, 2004, 2005
SME Executive Committee Member, 2004, 2005
SME Foundation Vice President, 2009 - current
Mineral Processing Division, Concentration Committee, 1995 - 1996 Chairperson
Mineral Processing Division, Scholarship Selection Committee, 1998-99 Chairperson
American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.
Miscellaneous Award Committees
Editorial Board, *Coal Preparation, A Multinational Journal*
Editorial Board, *International Journal of Mineral Processing*
Sigma Xi, The Scientific Research Society
Tau Beta Pi, Engineering Honorary Society

OTHER ACTIVITIES

Mortar Board National College Senior Honor Society
Section Coordinator 1986-1996, National Council Director of Communications 1997-1999, President-elect 1999-2001, President 2001-2003
Penn State New Kensington Advisory Board, 1997 - current
Penn State New Kensington 50th Anniversary Celebration Chairperson, 2007-2008
Penn State New Kensington Campaign Co-Chairperson, 2008 - current
Penn State Alumni Association
Alle-Kiski Society, Board Member since 1991, President 1995
Graduates of Earth and Minerals Sciences, Board Member beginning in 1994, Secretary 1996-1998, President-elect 1998-2000, President 2000-2002, Past President, 2002-2004

List of Publications and Presentations Available Upon Request