Andrew T. Rose, Ph.D., P.E.
Associate Professor, Civil Engineering
Department Head
University of Pittsburgh at Johnstown
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EDUCATION

Ph.D. in Civil Engineering (1995) Virginia Polytechnic Institute and State University
Concentration: Geotechnical Engineering
Dissertation: The Undrained Behavior of Saturated, Dilatant Silts
Advisor: Tom Brandon
Master of Science in Civil Engineering (1986) University of Connecticut
Concentration: Geotechnical and Structural Engineering
Bachelor of Science in Engineering (1985) University of Connecticut
Major: Civil Engineering
Specialization: Geotechnical and Structural Engineering

PROFESSIONAL REGISTRATION

Professional Engineer: Pennsylvania, PE-050055-E

TEACHING EXPERIENCE

Associate Professor of Civil Engineering Technology (September 2005 – present)
Assistant Professor of Civil Engineering Technology (September 1999 – August 2005)
University of Pittsburgh at Johnstown, Johnstown, PA
Courses Taught: Soil Engineering, Foundation Design, Structural Steel Design, Reinforced Concrete Design, Advanced Structures, Engineering Mechanics – Dynamics, Strength of Materials, Strength of Materials Laboratory

Instructor, Penn State University, New Kensington, Civil Professional Engineering Review Course, November 2007 – January 2008, Somerset, PA.

Instructor, Week 1, “Transmission Line Design and Construction” presented by GAI Consultants, Inc. in cooperation with the Pennsylvania State University Advanced School of Power Engineering for the Provincial Electric Authority, Kingdom of Thailand, Bangkok, Thailand, August 21 – September 1, 2000

Instructor, Foundation Design (May 20-21, 1999), portion of “Transmission Line Design and Upgrading: A Four-Week Course of Study,” May 10-June 4, 1999, GAI Consultants, Inc. and Power Technologies, Inc., Schenectady, NY

Graduate Teaching Assistant, Civil Engineering Department, Virginia Tech, Blacksburg, VA, September 1990 – May 1991, September 1993 - May 1994

Teaching Assistant, "Seepage, Piping, and Remedial Measures," sponsored by the U.S. Army Corps of Engineers, May 5-7, 1991, Blacksburg, VA
Instructor: Mike Duncan

Teaching Assistant, University of Connecticut, September – December 1986

ADMINISTRATIVE EXPERIENCE

Interim Director (January 2023 – May 2023)
Engineering & Computer Science Division
University of Pittsburgh at Johnstown, Johnstown, PA
Responsible for oversight of twenty-three faculty members and one administrative assistant in five engineering programs and computer science with approximately 575 students.

Department Head (July 2008 – Present)
Interim Department Head (September 2005 – June 2008)
Civil Engineering / Civil Engineering Technology
University of Pittsburgh at Johnstown, Johnstown, PA
Responsible for oversight of six faculty in Civil Engineering program, preparation activities for ABET/EAC and ABET/ETAC accreditation, curriculum review, advising incoming freshmen and upper classmen.

Academic Integrity Administrative Office – Johnstown Campus Spring 2017
Served as campus AIAO overseeing Academic Integrity reviews of students accused of academic integrity violations by faculty

RESEARCH EXPERIENCE

Graduate Research Assistant, Civil Engineering Department, Virginia Tech, Blacksburg, VA, September 1991 – May 1994, Research Sponsor: U.S. Army Corps of Engineers, Experimental research involving the undrained shear strength of saturated, dilatant silts.

Graduate Research Assistant, Civil Engineering Department, University of Connecticut, Storrs, CT, June 1985 – August 1986, Research Sponsor: Connecticut Department of Transportation, Field monitoring and interpretation of vibrations of a four-span, continuous steel plate girder bridge.

CONSULTING EXPERIENCE

Geotechnical and structural engineering design experience on a variety of commercial and industrial developments, transmission lines, dams and highway structures. Applied research experience in transmission line foundation behavior and design. Development of commercial software for transmission line foundation design. Geotechnical exploration and construction observation experience for commercial developments and earth dams.

DiGioia Gray, and Associates, LLC, Monroeville, PA, May 2016 – August 2016
Senior Consultant for geotechnical consulting firm. Develop and foundation design and installation guides, anchored foundation design examples, and QA/QC procedures for transmission line structures. Design of drilled shaft foundations for substation structures.

Appalachian Engineering Group, LLC, Meyersdale, PA, Summer and Fall 2015 (part-time)
Subsurface exploration observation, geotechnical analyses and report preparation for commercial developments.

CME Engineering LLC, Somerset, PA, November 2006 – December 2014 (part-time)
Geotechnical consulting experiences involving determination of allowable bearing pressures for bridge abutments, water tanks, commercial structures and pump station foundations, estimation of pile tip capacities on rock, recommendations for retaining wall design and backfill requirements, design of engineered excavation slopes for deep foundation construction, annual

dam inspections and inspection report preparation, geotechnical analyses and preparation of associated permit application forms for coal combustion by-product landfill expansion.

H.F. Lenz, Co., Inc., Johnstown, PA, Summer 2006
Consulting experiences involving reinforced concrete design of underground utility vaults and vault foundations, design of structural steel pipe support structures, analysis of existing structures for additional loads due to utility pipelines and air handling units.

GAI Consultants, Inc., Monroeville, PA, October 1994 – August 2000
Development of computer programs for transmission line foundation design. Geotechnical and structural design of bridge caissons, water treatment plant structures, transmission line foundations, and rock anchored structures. Evaluation of rock strength and deformation parameters for prediction of drilled shaft and direct embedded electric transmission line foundation behavior under lateral loads. Reinforced concrete design of parking garage slabs. Inspection and identification of parking garage deterioration. Geotechnical analyses related to slope stability and subsidence problems.

J. Michael Duncan, Consultant, Blacksburg, Virginia, August - October, 1992
Assisted in assembling and reviewing shear strength data for the proposed 550 ft high zoned earth and rockfill Seven Oaks dam in California, under the direction of Mike Duncan and Tom Brandon, for the Los Angeles District, U.S. Army Corps of Engineers.

Roald Haestad, Inc., Consulting Engineers, Waterbury, CT, Nov. 1989 – Aug. 1990
Experience with general civil consulting firm included dam rehabilitation and improvement investigations, concrete structure design related to dams and water works, construction inspection of spillway and dam improvements, analysis and design of water tank foundations, and inspection of landfill monitoring well installation. Performed a preliminary investigation into the potential for liquefaction during an earthquake of an existing 250 ft high hydraulic fill dam in western Massachusetts. Also considered the effect of possible remedial measures on the stability of the slopes of the dam.

Seelye, Stevenson, Value & Knecht, Stratford, CT, July - October 1989
Experience in the layout, analysis and preliminary design of reinforced concrete retaining walls for a major DOT highway project. Preparation of soil and rock reports for various highway structures.

Heynen Engineers, Guilford, CT, January 1987 - June 1989
Experience in subsurface explorations and foundation design including field studies for geotechnical projects, dam investigation studies and design, bearing capacity analysis for shallow and deep foundation systems, subdrainage design, environmental site assessments, septic system design, soil laboratory testing, and construction observation and field testing related to earthwork and concrete placement.

Bridgeport Hydraulic Company, Bridgeport, CT, Summer 1984
Summer employment with investor owned water utility involving surveying, drafting, stream flow monitoring, and general engineering office work.

GRANTS

2014 Faculty Academic Support Grant from The Dick Thornburgh Forum for Law & Public Policy to research how Governor Thornburgh and his administration took responsibility for implementing the Dam Safety and Encroachments Act which was enacted following the 1977 Johnstown flood.

Spring 2014 Mentorship Fund Grant to support “California Bearing Ratio (CBR) Test of Pitt-Johnstown Campus Soils for Use in Pavement Design Applications.” Independent Study Student: Donald J. Knieriem.

2012 Innovation in Education Award, University of Pittsburgh Provost's Advisory Council on Instructional Excellence (ACIE) for “Development and Implementation of a Multi-Course Design Project in the Civil Engineering Technology Curriculum Using a Modified Communities of Practice Approach.”

Summer 2009 UPJ Faculty Scholarship Grant (Category I) in support of work on “Site Specific Prediction of Frost Penetration Depth.”

Summer 2008 UPJ Faculty Scholarship Grant (Category I) in support of work on “Dam Failures and Dam Safety Laws in Pennsylvania.”

Summer 2007 UPJ Faculty Scholarship Grant (Categories I & II) in support of work on “The 1911 Failure of Austin Dam, Austin, PA.”

Summer 2006 UPJ Faculty Scholarship Grant (Categories I & II) in support of work on “John Roebling’s Development and Use of Wire Rope in Western Pennsylvania.”

Summer 2002 UPJ Instructional and Curriculum Grant to support “Development of Assignments and Evaluation Tools of Speaking Assignments in Civil Engineering Technology.”

University of Pittsburgh at Johnstown, Mellon Instructional Technology Grant for Integrating Technology into the Curriculum, “Instructional Technology Cart for Engineering Technology,” 2001-2002.

Summer 2001 UPJ Instructional and Curriculum Grant to support “Development of Structural Analysis and Design Computer Assignments for Civil Engineering Technology.”

New Faculty Fellow Grant to attend the 2000 Frontiers In Education Conference, October 18-21, 2000, Kansas City, MO.

HONORS AND AWARDS

2008 President’s Award for Teaching Excellence, University of Pittsburgh at Johnstown
January 2007, Best Paper Award, ASCE Journal of Professional Issues in Engineering Education and Practice, “Graphical Communication Using Hand-Drawn Sketches in Civil Engineering,” published in the October 2005 issue of ASCE’s Journal of Professional Issues in Engineering Education and Practice (Vol. 131, No. 4., pp. 238–247)
2004 ASEE Gerald R. Seeley Fellow, ASEE Civil Engineering Division
2003 ASCE ExCEEd New Faculty Teaching Award for Zone 1
2003 Outstanding Professor of the Year Award, ASCE Pittsburgh Section
2002 Teacher of the Year, Phi Eta Sigma (Freshman Honor Society), University of Pittsburgh at Johnstown Chapter
2000 Frontiers in Education (FIE 2000), New Faculty Fellow
Selected to attend Bucknell University/NSF sponsored workshop “How to Engineer Engineering Education,” July 14-29, 2002, Bucknell University, Lewisburg, PA
Selected to attend ASCE’s ExCEEd Teaching Workshop, West Point, NY, July 30 – August 4, 2000
Via Fellowship Recipient - Virginia Tech Civil Engineering Department (1990-1994)

Elected to membership in Phi Kappa Phi – 1985, National honor society
Elected to membership in Tau Beta Pi – 1983, National engineering honor society
Elected to membership in Chi Epsilon – 1983, National civil engineering honor society
E. Russell Johnston, Sr., Memorial Award, University of Connecticut Civil Engineering Department (1983)

PROFESSIONAL ASSOCIATION MEMBERSHIP
PROFESSIONAL SOCIETY SERVICE

American Society of Civil Engineers, Member (Member Number 212801)
- Paper reviewer for *Journal of Professional Issues in Engineering Education and Practice*
- Reviewer for manuscript *Washington Roebling's Father*, by Donald Sayenga, editor, 2008.

Pittsburgh Section, ASCE, Geo-Institute
- Chair 2005-06
- Vice Chair 2004-2005
- Program Chair 2002-2004
- Assistant Program Chair 2000-2002
- At-Large Board Member 1998-2000

American Society for Engineering Education, Member
- Abstract and Paper Reviews for Engineering and Public Policy Division for ASEE Annual Conference, 2015, 2016, & 2017
- Abstract and Paper Reviews for New Engineering Educators Division for ASEE Annual Conference, 2013, 2014, 2017
- Moderator, New Engineering Educators Division, Session on Faculty Development Toolkit, 2006 Annual Conference, Chicago
- Co-moderator, New Engineering Educators Division, Session on Motivating Students to Achieve, 2003 Annual Conference, Nashville
- Co-moderator, New Engineering Educators Division, Session on Balancing Personal and Professional Lives, 2002 Annual Conference, Montreal
- Co-moderator, New Engineering Educators Division, Session on Balancing Personal and Professional Lives, 2001 Annual Conference, Albuquerque, NM

Society for Industrial Archeology, Member

UNIVERSITY SERVICE

University of Pittsburgh at Johnstown

Provost's Advisory Committee for Undergraduate Programs (PACUP) – Pitt-Johnstown Faculty Representative, 2016-present
University Planning and Budget Committee (UPBC), 2014-2017
Campus Status Committee, At-Large Representative, 2013-2014
Member, CE Non-Tenure Stream Faculty Search Committee, 2018, 2019
Chair, CET Non-Tenure Stream Faculty Search Committee, 2014, 2015, 2017
Chair, CET Tenure-Stream Faculty Search Committee, 2012, 2013, 2016
Chair, Appeals Panel for Humanities Division faculty renewal case review, 2011-2012
Chair, Division Status Committee for Dr. C. Jayasooriya's promotion and tenure case, 2019
Chair, Division Status Committee for Dr. Hui Liu's renewal case, 2019
Chair, Division Status Committee for Dr. Brian Moyer's promotion and tenure case, 2016
Chair, Division Status Committee for Dr. Randy Kelley's promotion and tenure case, 2015
Chair, Division Status Committee for Dr. Maher M. Murad's promotion and tenure case, 2014
Chair, Division Status Committee for Dr. Eunice Yang's promotion and tenure case, 2014, 2015
Chair, Division Status Committee for Dr. Chandana Jayasooriya's renewal case, 2013

Chair, Division Status Committee for Dr. Brian Moyer's renewal case, 2012
Chair, Division Status Committee for Dr. Randy Kelley's renewal case, 2011
Chair, Division Status Committee for Dr. Eunice Yang's renewal case, 2010
Chair, Promotion and Tenure Peer Review Committee for Dr. Shannon Parks, 2021

Chair, Promotion and Tenure Peer Review Committee for Dr. Maher M. Murad, 2014
Chair, Promotion and Tenure Peer Review Committee for Mr. Brian L. Houston, 2008
Chair, Renewal of Contract Review for Mr. Richard Youchak, 2008, 2011, 2014
Promotion and Tenure Peer Review Committee for Dr. M. D. Karunaratne, 2009
Promotion and Tenure Peer Review Committee for Ms. Amy L. Miller, 2007
Chair, President's Award for Teaching Excellence Selection Committee, 2008-2009
President's Award for Teaching Excellence Selection Committee, 2006-2007
President's Scholars Advisory Group 2006-2007
Distinctive Programs Task Force, 2013-2014
GenED Working Group, ET Representative 2010-2013
Featured Speaker, 2008 First Year Student Convocation, August 23, 2008
Faculty Advisor, Society of Undergraduate Engineers, 2002-2008
President's Global Education Task Force 2007-2008
Invited Presentation, Global Warming Solutions Forum, January 31, 2008
Campus & Library Committee 2003-2007, 2008-2013
Admissions Committee 2004-2006
Engineering Division Curriculum Committee 2005-Present
Faculty Senate Council 2000-2001
Nominations Committee, 1999-2002, Chair 2000-2002
Invited Lecture, Paul Saylor Engineering Forum, February 20, 2001
Invited Lecture, Paul Saylor Engineering Forum, February 22, 2000
Freshmen Speech Contest Coordinator, Paul Saylor Engineering Forum, February 22, 2000 and February 18, 2002, February 19, 2003, February 24, 2004

Virginia Tech
Graduate Student Assembly Delegate, 1991-1994
University Building Committee, 1993-1994
University Commencement Committee, 1993-1994

External Service
Promotion and Tenure Case External Reviewer
Old Dominion University – 2013
UNC – Charlotte – 2016
New York University – 2019

COMMUNITY SERVICE

AYSO Region 728 Board Member, 2013-2017
Assistant Scoutmaster, Boy Scout Troop 183, Johnstown, PA 2015-2022.
Den Leader, Tiger Cub Den 2, Pack 217 Cub Scouts, Keystone District, 2009-2010.
AMD&ART, Inc., Johnstown, PA. – Board Member, 2002-present, Vice-President 2006 – 2012.
PE Review Course sessions on Soil Mechanics, Foundation Design, Structural Analysis, Structural Steel Design, and Reinforced Concrete Design, Johnstown Chapter, Pennsylvania Society of Professional Engineers, Spring 2004, Spring 2006.
PE Review Course sessions on Soil Mechanics, Foundation Design, Structural Analysis, and Structural Steel Design, Johnstown Chapter, Pennsylvania Society of Professional Engineers, February 2000.
EIT Review Course session on Strength of Materials, Johnstown Chapter, Pennsylvania Society

of Professional Engineers, February 13, 2008.
EIT Review Course session on Dynamics, Johnstown Chapter, Pennsylvania Society of Professional Engineers, February 2000, 2001, 2002, 2003, 2004.

K-12 OUTREACH

Hands-on Presentation on *Fountains and Hydropower* for Westmont Hilltop 8th Grade science classes February 11, 2016
Hands-on Presentation on *Fountains and Hydropower* for AAUW Johnstown Chapter, Girl's STEM Day, Penn Highlands Community College, Nov. 14, 2015
Hands-on Presentation on *Bridges and Structures*, AAUW Johnstown Chapter, Girls Tech Over, Penn Highlands Community College, 2012, 2014
Bridge Building presentation for 2nd grade classes, Westmont Hilltop Elementary School, March 2010 (120 students approx.), March 2011 (144 students approx.), February 2012 (117 students approx.), February 2013 (120 students approx.). February 2014 (99 students approx.)
Science Fair Judge, Westmont-Hilltop Elementary School, 2008-2014
Future Cities mentor for Windber Middle School, 2010-2011
"*LEARN – Alternative Energy,*" Instructor, July 2013, University of Pittsburgh at Johnstown
"Catstrophe- Learning Lessons from Engineering Failures," Instructor for one-week Academy of Engineering summer camp held by UPJ and The Learning Lamp, July 2011.
"Structural Engineering: Beams, Bridges & Towers," Instructor for one-week Academy of Engineering summer camp held by UPJ and The Learning Lamp, August 2010.
"Civil Engineering Camp," Instructor for one-week Academy of Engineering (Lego-based) summer camp held by UPJ and The Learning Lamp, Summer 2008 & 2009.
"Alternative Energy Camp," Co-instructor for one-week Academy of Engineering (Lego-based) summer camp held by UPJ and The Learning Lamp, Summer 2008 & 2009.
"Engineering of Cities," instructor for one-week Academy of Engineering (Lego-based) summer camp held by UPJ and The Learning Lamp, July 30 – August 3, 2007.
Presentation on Bridges, Rainbow Room Preschool, Westmont, May 2007.
Proctor for MATHCOUNTS Regional Competition, Johnstown Chapter, Pennsylvania Society of Professional Engineers, February 12, 2000.

PUBLICATIONS

Peer Reviewed Journal Articles

Brandon, T.L., **Rose, A.T.**, and Duncan, J.M. (2006). "Drained and Undrained Strength Interpretation for Low-Plasticity Silts," *ASCE Journal of Geotechnical and Geoenvironmental Engineering,* Vol. 132, No.2, pp. 250-257.

Rose, A.T. (2005). "Graphical Communication Using Hand-Drawn Sketches in Civil Engineering." *Journal of Professional Issues in Engineering Education and Practice.* Volume 131, No. 4, pp. 238-247. **(Best Paper Award)**

Rose, A.T. (2004). "RMR Rock Properties for Shallow Foundation Design." *Journal of Engineering Technology*, Volume 21, No. 2, pp. 42-50.

Peer Reviewed Journal Articles (in preparation)

Rose, A.T. "Ibsen, Ethics and Engineers – Relating Environmental Ethics in Ibsen's An Enemy of the People with Current Environmental Concerns Regarding Hydraulic Fracturing." Paper in preparation for ASCE Journal of Professional Issues in Engineering Education and Practice.

Rose, A.T. "Improving Appreciation of Local Geological Challenges in Undergraduate Civil

Engineering Students Using Case Histories," Paper in preparation for the Journal of Geoscience Education.

Peer Reviewed Technical Conference Proceedings

Rose, A.T. "Pennsylvania's Historic Civil Engineering Landmarks," Proceedings, 2019 World Environmental & Water Resources Congress, History and Heritage Symposium, May 19-23, 2019, Pittsburgh, PA.

Rose, A.T. "John Roebling's Innovations in Western Pennsylvania," Proceedings, 2019 World Environmental & Water Resources Congress, History and Heritage Symposium, May 19-23, 2019, Pittsburgh, PA.

Rose, A.T. "Reconstruction of a Local Dam as a Real-World Learning Experience." Proceedings, Dam Safety 2016, September 11-15, 2016, Philadelphia, PA.

Rose, A.T. "The Influence of Dam Failures on Dam Safety Laws in Pennsylvania." Proceedings, Dam Safety 2013, - September 8-12, 2013, Providence, RI.

Rose, A.T. "Using Local Case Histories in Undergraduate Teaching." Proceedings, 7th International Conf. on Case Histories in Geotechnical Engineering, May 1 - 4, 2013, Chicago.

Rose, A.T. "Using the 1911 Austin Dam Failure Case History in Undergraduate Teaching." Proceedings, 7th International Conf. on Case Histories in Geotechnical Engineering, May 1 - 4, 2013, Chicago.

Rose, A.T. "Temporary Frost Protection of a Landfill Liner Prior to Landfilling." Proceedings, The 24th International Conference on Solid Waste Technology and Management, March 15 - 18, 2009, Philadelphia.

Rose, A.T. "John Roebling's Development and Use of Wire Rope in Western Pennsylvania." John A. Roebling Symposium, ASCE History and Heritage Committee, October 27-29, 2006, Brooklyn, NY.

Rose, A.T. "Effect of Cavity Nucleation and Growth During Compression Tests on a Two-Phase Composite Material." Proceedings, 2004 ASCE Engineering Mechanics Conference, June 2004, Newark, Delaware.

Rose, A.T. "Enhancing Undergraduate Mechanics Courses with Low Cost Physical Models and Hands-On Learning Activities." Proceedings, 2004 ASCE Engineering Mechanics Conference, June 2004, Newark, Delaware.

Rose, A.T., DiGioia, A.M., and Hirany, A. "Use of Rock Mass Rating (RMR) to Estimate Rock Properties for Laterally Loaded, Rock-Socketed Transmission Line Foundations." Rock Mechanics in the National Interest, Vol. 2, D. Elsworth, J. P. Tinucci, and K.A. Heasley, Eds., Proceedings, 38th U.S. Rock Mechanics Symposium, DC Rocks 2001, Washington, D.C., July 7-10, 2001.

DiGioia, A.M., Hirany, A., Newman, F.B., and **Rose, A.T.** "Granular Backfill Selection for Direct Embedded Poles." Transactions, IEEE, ESMO-98, Orlando FL, April 26-30, 1998, pp. 56-61.

DiGioia, A.M., Hirany, A., Newman, F.B., and **Rose, A.T.** "Rock-Socketed Drilled Shaft Design for Lateral Loads." Transactions, IEEE, ESMO-98, Orlando FL, April 26-30, 1998, pp. 62-68.

DeWolf, J. T., Kou, J. W., and **Rose, A. T.**, "Field Study of Vibrations in a Continuous Bridge." Proceedings of the 3rd International Bridge Conference, Paper Number IBC-86-16, Pittsburgh, PA, June 2, 3 & 4, 1986, pp. 103-109.

Peer Reviewed Educational Conference Proceedings

Alshurafa, S., Wieserman, L., and **Rose, A.T.** "Teaching and Management Plan of an Engineering Course." Proceedings, 2022 ASEE Annual Conference, June 26-29, 2022, Minneapolis, MN.

Rose, A.T. "Using Archival Materials to Study the Influence of Public Policy on a Hydroelectric Project." Proceedings, 2016 Frontiers in Education Conference, October 12-15, 2016, Erie, PA.

Rose, A.T., "Using a Former Governor's Archives as a Source of Scholarship in Engineering Technology." Proceedings, 2015 ASEE Annual Conference, June 14-17, 2015, Seattle, WA.

Rose, A.T. "Work in Progress: Structural Art: Encouraging Student Creativity and Artistic Expression." Proceedings, 2011 Frontiers in Education Conference, October 12-15, 2011, Rapid City, SD.

Rose, A.T., "Making Service Count: Advice for New Engineering Educators." Proceedings, 2010 ASEE Annual Conference, June 20-23, 2010, Louisville, KY.

Rose, A.T. and Miller, A.L. "A Collaborative Approach to Offering Summer Engineering Camps for Middle School Students." Proceedings, 2009 Frontiers in Education Conference, October 18-21, 2009, San Antonio, TX.

Rose, A.T. "Incorporating Assignments to Develop Hand Sketching Skills in the Civil Engineering Technology Curriculum." Proceedings, 2009 ASEE Annual Conference, June 2009, Austin, TX.

Rose, A.T. and Kinsinger, K. S. "Incorporating Diversity and International Awareness into an Introduction to Engineering Technology Seminar Course." Proceedings, 2008 ASEE Annual Conference, June 2008, Pittsburgh, PA.

Rose, A.T. and Voigt, N. "Role of Adjunct Faculty in Engineering Education." Proceedings, 2008 ASEE Annual Conference, June 2008, Pittsburgh, PA.

Rose, A.T. "Career Options in Engineering Education." Proceedings, 2006 ASEE Annual Conference, June 2006, Chicago, IL.

Murad, M. and **Rose, A.T.** "Short and Long-term Influence of Excellent Instructors on Graduates in Engineering Technology: a Case Study." Proceedings, 2006 ASEE Annual Conference, June 2006, Chicago, IL.

Rose, A.T. and Grash, V. "Interaction of Engineering Technology and Fine Arts through Instructor Collaboration." Proceedings, 2005 ASEE Annual Conference, June 2005, Portland, OR.

Rose, A.T. Miller, A.L., Murad, M.M. and Martinazzi, R. "The Spaghetti Factor – A Peer Leadership Model for the "Sticking Together" of Untenured Faculty Prior to Their Tenure Decision." Proceedings, 2005 ASEE Annual Conference, June 2005, Portland, OR.

Rose, A.T. "Balancing Classical Solutions with Computer Technology in the Undergraduate

Geotechnical Curriculum." Proceedings, 2004 ASEE Annual Conference, June 2004, Salt Lake City.

Martinazzi, R., **Rose, A.T.**, and Samples, J. "Leadership 101: Developing the Leader in Engineering and Engineering Technology Students." Proceedings, 2004 ASEE Annual Conference, June 2004, Salt Lake City.

Rose, A.T. "Advice on Covering Classes during a Prolonged Instructor Absence: Keep the Students Learning." Proceedings, 2003 ASEE Annual Conference, June, 2003, Nashville TN.

Rose, A.T. "Developing Student Awareness in the Social and Economic Aspects of Civil Engineering Projects." Proceedings, 2003 ASEE Annual Conference, June, 2003, Nashville TN.

Rose, A.T. "Building Better Rapport with Students: Advice for New Engineering Educators." Proceedings, 2002 ASEE Annual Conference, June, 2002, Montreal.

Rose, A.T. and Murad, M. "Summer Internships for Engineering Technology Students: Sharing the Experiences." Proceedings, 2002 ASEE Annual Conference, June, 2002, Montreal.

Rose, A.T. "Exposing Students to Innovative Construction Technologies in the Undergraduate Civil Engineering Technology Curriculum." Proceedings, 2002 ASEE Annual Conference, June, 2002, Montreal.

Rose, A.T. "Improving Student Skills in Multimedia Presentations." Work-in-Progress abstract accepted for 2002 Frontiers in Education Conference, November 6-9, 2002, Boston, MA.

Rose, A.T. "Using the Peer Review Process to Implement Writing Assignments in an Engineering Technology Course." Proceedings, 2001 ASEE Annual Conference, June 24-27, 2001, Albuquerque, NM.

Rose, A.T. "Improving Student Problem Solving Skills in the Identification and Correction of Errors." Proceedings, 2001 ASEE Annual Conference, June 24-27, 2001, Albuquerque, NM.

Rose, A.T. "Consulting and Industrial Experiences as Related to Promotion and Tenure of Engineering Technology Faculty." Proceedings, 2001 ASEE Annual Conference, June 24-27, 2001, Albuquerque, NM.

Rose, A.T. "Distance Education the Old-Fashioned Way – Take Me To Your Students." Proceedings, 2001 ASEE Annual Conference, June 24-27, 2001, Albuquerque, NM.

Rose, A.T. "Role of Consulting Engineering Experiences for Civil Engineering Technology Faculty and Other Engineering Educators in the Next Century." (FIE New Faculty Fellow Grant Paper), Proceedings, 2000 Frontiers in Education Conference, October 18-21, 2000, Kansas City, MO.

Rose, A.T. "Syntax Error Analysis as a Problem Solving Technique." (Work-in-progress), Proceedings, 2000 Frontiers in Education Conference, October 2000, Kansas City, MO.

Rose, A.T. "Balancing Your Life (Boat) in the Tenure Stream." Proceedings, 2000 ASEE Annual Conference, June 18-21, 2000, St. Louis, MO.

Articles

Rose, A.T. *"A "New Deal" for a 75 Year Old WPA Bandshell,"* Society for Industrial Archeology Newsletter, Vol. 44, No. 1, 2015, pp. 16-17.

Rose, A. *"IA in Art: Borglum Fountain Honoring Sewing Machine Manufacturer Restored,"* Society for Industrial Archeology Newsletter, Vol. 43, No. 1, 2014, pp. 1.

Rose, A. "*Johnstown Lights Historic Stone Bridge*," Society for Industrial Archeology Newsletter, Vol. 41, No. 4, 2012, pp. 11.

Engineering Reports

DiGioia, A.M., Newman, F.B., Bazán, T.E., and **Rose, A.T.** "Single Poles Directly Embedded in Soil and/or Rock and H-Frame Drilled Shafts and Direct Embedded Poles in Soil With Granular Backfill," Report E 2341, EPRI, Palo Alto, CA, May 2000.

DiGioia, A.M., Newman, F.B., Snyder, M.D., and **Rose, A.T.** "Laterally Loaded Rock-Socketed Foundation Research," Report EPRI TR-108254, Electric Power Research Institute, Palo Alto, CA, 1997.

DiGioia, A.M., Newman, F.B., and **Rose, A.T.** "EPRI Tailored-Collaboration Foundation Research, Direct Embedded Pole Granular Backfill Research," Unpublished EPRI Report, Electric Power Research Institute, Palo Alto, CA, April 1997.

Rose, A.T., Brandon, T. L., and Duncan, J. M. "Classification and Engineering Behavior of Silts." Final Report submitted to the U.S. Army Corps of Engineers, Lower Mississippi Valley Division, Project No. W00300-1182-1674, Charles E. Via Department of Civil Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, (Draft: August 4, 1993).

Duncan, J. M., Brandon, T. L., Idriss, I. M., and **Rose, A.T. "**Evaluation of Densities, Shear Strengths, Hyperbolic Parameters, and Cyclic Test Program for Seven Oaks Dam." Report prepared for Los Angeles District, U.S. Army Corps of Engineers, October 20, 1992.