

Lizette R. Chevalier, Ph.D., P.E., BCEE, D-WRE, F-ASCE

Professor
University Woman of Distinction
Southern Illinois University Carbondale
Department of Civil and Environmental Engineering
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Education

Ph.D., Michigan State University, Dept. of Civil and Environmental Engineering, Evaluation of Hydraulic Controls to Promote Surfactant Enhanced Dissolution of Trapped Residual NAPL, 1994.
Advisors: Dr. David Wiggert and Dr. Roger Wallace

Master's of Science, Michigan State University, Dept. of Civil and Environmental Engineering, *The Design and Use of a Tensiometer to Measure Soil Water Pressure in the Vadose Zone*, 1990.
Advisor: Dr. Roger Wallace

Bachelor's of Science, Wayne State University, Dept. of Civil Engineering, 1988

Experience

Southern Illinois University Carbondale

Carbondale, IL
Professor of Civil and Environmental Engineering, 2007-present
Chair, Department of Civil and Environmental Engineering, 2002 – 2008 (two terms)
Associate Professor, Department of Civil and Environmental Engineering, 1999-2007
Assistant Professor, Department of Civil Engineering, 1995-1999

Bucknell University

Lewisburg, PA
Visiting Assistant Professor, Department of Civil Engineering, 1994-1995

Michigan State University

E. Lansing, MI
General Electric Fellow, 1993-1994
Instructor, Numerical Methods, 1992-1993
Graduate Research Assistant, 1990-1992
Dean's Distinguished Fellow in Engineering, 1989-1990

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General Motors Research and Development

Warren, MI

Research and Environmental Staff, Graduate Intern Engineer, 1992

Designed an experimental apparatus for a bench scale soil washing study of clayey soils contaminated with PCBs

Conducted a state-of-the-art review of the commercial application of soil washing and *in-situ* soil flushing for the development of a database of vendors and available technologies

Research and Scholarship

Research Overview

Fate and transport of contaminants; Environmental technology; Environmental impact of anthropogenic nanomaterials; Advances in technology enhanced engineering education

Research and education grants from the National Science Foundation, the Engineering Information Foundation, the USDA/Illinois Groundwater Consortium (\$3.7 M)

NSF CLEANER Science Advisory Board, 2005-2006

Reviewer for National Science Foundation, Department of Homeland Security, Petroleum Research Fund and a wide range of research journals and conferences

Teaching Overview

Introductory (junior-level), graduate-level and general education courses in environmental /water resources engineering, numerical methods for engineers, core curriculum course in environmental science

Developed instructional websites for engineering education that also targets other educational sectors (K-12, community colleges, technical careers)

International Conference of Engineering Educators (ICEE) Advisory Board, Puerto Rico Conference, 2006

Grants Awarded Externally

Pinter, N., Whiles, M., Chevalier, L.R., Lant, C., and Baer, S., 2009. *IGERT: Multidisciplinary, Team-Based Training in Watershed Science and Policy*. National Science Foundation, Division of Graduate Education. (\$3,179,181)

Chevalier, L.R., Ray, B.T., Nicklow, J., and Boruszkowski, L., 2001, *Digital Images of Environmental and Water Resources Engineering Principles and Practice*. National Science Foundation DUE. (\$140,000)

Craddock, J.N., Chevalier, L.R., and Riley, P., 2000, *Interactive Multimedia Labware for Civil Engineering Curricula*. National Science Foundation, Division of Undergraduate Research, Course, Curriculum and Laboratory Improvement. (\$206,079)

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Spoerre, J., Harackiewicz, F.J, and Chevalier, L.R., 1999, *Engineering Change in the Classroom*, Engineering Information Foundation, (\$83,202)

Craddock, J.N, and Chevalier, L.R., 1999, *Civil Engineering Laboratories Supplemental Web Site*, NSF SUCCEED Coalition, (\$4000)

Chevalier, L.R., 1998, *Capillary Trapping of Immiscible Organic Contaminants in Aquifer Soils Due to Flooding*, USDA/Illinois Groundwater Consortium. (\$36,837)

Chevalier, L.R., 1998, *Benchmark Experiments in Aquifer Remediation of Light Nonaqueous Phase Liquid Contaminants Using Surfactants*, National Science Foundation Research Planning Grant for Women Scientist and Engineers. (\$18,000)

Grants Awarded Internally

Chevalier, L.R. and DeVantier, B.A., 1999. *Evaluation of GAC from Agricultural By-products to Reduce THM in Chlorinated Water*. Materials Technology Center. (\$18,000)

Chevalier, L.R., 1999, *Support for Research in NAPL Flow, Transport and Remediation in Groundwater Aquifers*. Joint Women's Studies and University Women's Professional Advancement Juried Competition. (\$589)

Chevalier, L.R., 1997-1999, Testing of Surfactants for Use in Remediation of Light Nonaqueous Phase Liquid Contaminants in Aquifers. SIUC Materials Technology Center. (\$33,088)

Chevalier, L.R., 1998, *Technology Enhanced Learning in Engineering*, SIUC Regional Center for Distance Learning and Multimedia Development. (\$750)

DeVantier, B. A. and Chevalier, L.R., 1998. *Technology Enhanced Assessment and Learning of Computer Languages in Engineering Applications*. SIUC Office of Vice Chancellor for Academic Affairs and Provost: New Teaching Fellowship Program in Multimedia Instructional Technology. (\$11,190)

Chevalier, L.R., 1998, *Soil Column Experiments in Remediation of Immiscible Organic Contaminants in Aquifer Soils*. Joint Women's Studies and University Women's Professional Advancement Juried Competition. (\$500).

Chevalier, L.R., 1996-1997, Special Research Project, *Preliminary Experimental Investigation of Transient Mass Transfer of Trapped Residual NAPL in Aquifer Soil*. Office of Research and Development, SIUC. (\$25,015)

Journal Publications

Chevalier, L.R., McCann, C. D., 2008, Feasibility of calcium peroxide as an oxygen releasing compound in treatment walls, *Int. J. of Environment and Waste Management*, 2(3): 245-256.

Yesuf, J. N., DeVantier, B. A., Chevalier, L. R., 2008, Bisolute equilibrium studies for the sorption of basic dyes on a GAC from almond shells: A nonlinear approach, *Water, Air and Soil Pollution: Focus Innovative Remediation Technologies for Pollution Abatement*, 8(2-3):387-393.

Chevalier, L.R., Yesuf, J.N., Knowles, L.S., 2007, Evaluation of textile dye sorption on GAC produced from almond shells based on optimized isotherm models, *Environmental Engineering Science*, 24(4):563-579.

Chevalier, L.R., Yesuf, J., 2007. Use of nonlinear error functions for parameter estimation of pressure-saturation equations. *Water, Air and Soil Pollution*, 179(1-4):57-65.

Nicklow, J.W., Marikunte, S.S., and Chevalier, L.R., 2007. Balancing pedagogical and professional practice skills in the training of graduate teaching assistants. *ASCE J. of Prof. Issues in Engineering Education and Practice*, 133(2):89-93.

Chevalier, L.R., 2006, Use of optimization to develop a correlation model for predicting residual NAPL saturation. *Civil Engineering and Environmental Systems*, 23(2):65-72.

Chevalier, L.R., 2003. Surfactant dissolution and mobilization of LNAPL contaminants in aquifers. *Environmental Monitoring and Assessment: Special Edition on Innovative Technologies and Policies for Waste Management*. 84(1-2):19-33.

Chevalier, L.R., Irwin, C.N. and Craddock, J.N., 2002. Evaluation of InSpectra UV analyzer for measuring conventional water and wastewater parameters. *Advances in Environmental Research*. 6(3):369-375.

Craddock, J.N. and Chevalier, L.R., 2002. Development and formative assessment of web-based multimedia labware for an environmental engineering laboratory. *International Journal of Engineering Education*, 18(6):725-731.

Chevalier, L.R. and Fonte, J.M., 2000. Correlation model to predict residual immiscible organic contaminants in sandy soils. *Journal of Hazardous Materials*, 72(1):39-52.

Chevalier, L.R., Morris, T., Allen, C., Lazarowitz, V. and Fektenberg, L., 2000, Comparison of primary and secondary flushing to enhance LNAPL recovery. *Journal of Soil and Sediment Contamination*, 9(5):425-448.

Chevalier, L.R., Craddock, J.N., Riley, P.C., and Trunk, B.J., 2000. Interactive multimedia labware for strength of materials laboratory. *Computer Applications in Engineering Education*, 8(1): 31-37.

Chevalier, L.R. and Peterson, J.E., 1999. Literature review of 2-D laboratory experiments in NAPL flow, transport and remediation. *Journal of Soil Contamination*, 8(1):149-167.

Chevalier, L.R., 1998. Experimental and numerical evaluation of LNAPL lens and polluted capillary fringe thickness. *ASCE Journal of Environmental Engineering*. 124(2):156-161.

Chevalier, L. R., Wallace, R.B. and Wiggert, D.C., 1998. Impact of surfactants on configuration of hydrocarbon lens. *Journal of Soil Contamination*, 7(3):395-414.

Chevalier, L.R., Masten, S.J., Wiggert, D.C., and Wallace, R.B., 1997. Experimental investigation of surfactant enhanced dissolution of residual NAPL in saturated soil. *Ground Water Monitoring and Remediation*. 17(4):89-98.

Chevalier, L.R. and Wallace, R.B., 1997. Aqueous phase permeability in the region of discontinuous NAPL. *Journal of Soil Contamination*, 6(4):409-424.

R.B. Wallace, D.C. Wiggert, M.D. Shabana, L.R. Chevalier, 1991. Experimental observation of the effect of surfactants on an oil lens present at the capillary fringe. *EOS, Transactions, AGU*, 72(17): 120, H51A-2.

Book Chapter

Chevalier, L.R. and Nicklow, J.W. , 2006. Web based projects for Civil and Environmental Engineering education: Pedagogy, assessment and lessons learned. *International Network for Engineering Education and Research (iNEER) Special Volume*.

Conference Proceedings (peer reviewed)

Harackiewicz, F.J, Marikunte, S., Chevalier, L.R., Nicklow, J.W., 2006. An innovative approach to advising and mentoring of graduate students. *Proceedings of the International Conference on Engineering Education*, San Juan, Puerto Rico.

Chevalier, L.R., Marikunte, S., Yesuf, J.N., 2006, Parameter Estimation Using Spreadsheet Optimization: A Review of Applications in Civil and Environmental Engineering Education and Research, *Proceedings of the International Conference on Engineering Education*, San Juan, Puerto Rico.

Marikunte, S., Nicklow, J.W., Harackiewicz, F., and Chevalier, L.R. 2006. Benefits and challenges of training teaching assistants. *Proceedings of the 2006 ASEE Conference*. Chicago, IL.

Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. 2006. A video production for undergraduate recruitment and retention. *Proceedings of the 2006 World Water and Environmental Resources Congress*, ASCE, Omaha, NE.

Chevalier, L.R., Craddock, J.N, Ray, B.T., Nicklow, J.W., 2005, Technology enhanced projects for education in civil and environmental engineering at Southern Illinois University Carbondale, *iCEER 2005, Exploring Innovation in Education and Research*, Tainan, Taiwan.

Ray, B.T., Chevalier, L.R., Nicklow, J.W., and Boruszkowski, L.A. (2004). Website and CD-ROM development: Digital images of water and wastewater processes for engineering education." *Proceedings of the 2004 ASEE Conference*. Salt Lake City, UT.

Nicklow, J.W., Chevalier, L.R., Ray, B.T., and Boruszkowski, L.A. (2004). "A digital image CD-ROM and website for environmental and water resources engineering curricula and K-12 education." *Proceedings of the 2004 Conference of the Environmental and Water Resources Institute*, ASCE. Salt Lake City, UT.

Nicklow, J.W., Chevalier, L.R., Ray, B.T., Boruszkowski, L.A., 2003. Development of a digital image CD-ROM and website: A new resource for water resources engineering education. *Proceedings of the 2003 Conference of the Environmental and Water Resources Institute*, ASCE. Philadelphia, PA.

Ray, B.T., Chevalier, L.R., Nicklow, J. W., Boruszkowski, L. A., and McCann, C. D., 2003. Website and CD-ROM development: Digital images of water and wastewater processes for engineering education. *Proceedings of the 2003 ASEE Conference*. Nashville, TN.

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Harackiewicz, F.J., Linsey, J., Chevalier, L.R., 2002. Antennas for Everyone, *Proceedings of the ASEE Annual Conference and Exposition*, Montréal, Canada.

Chevalier, L.R., Craddock, J.N., Vallath, C., and Arndt, A., 2002. technology enhanced laboratory manual for introduction to environmental engineering, *Proceedings of the ASEE Annual Conference and Exposition*, Montréal, Canada.

Craddock, J.N., Chevalier, L.R., and Mushumhi, K., 2002. Mechanics of materials interactive multimedia labware, *Proceedings of the ASEE Annual Conference and Exposition*, Montréal, Canada.

Chevalier, L.R., and Craddock, J.N., 2001. Formative assessment of interactive multimedia labware for environmental engineering laboratory. *Proceedings of the International Conference on Engineering Education*, Aug. 6-10, 2001, Oslo/Bergen, Norway.

Chevalier, L.R., Chrisman, B., and Kelsey, M., 2001. Success Week: A freshman orientation program at Southern Illinois University Carbondale College of Engineering. *Proceedings of the International Conference on Engineering Education*, Aug. 6-10, 2001, Oslo/Bergen, Norway.

Harackiewicz, F.J., Chevalier, L.R. and Palmer, S.C., 2001. Notable Engineers: A Project Book. *Proceedings of the International Conference on Engineering Education*, Aug. 6-10, 2001, Oslo/Bergen, Norway.

Chevalier, L.R. and Craddock, J.N., 2001. Interactive multimedia labware for civil engineering curricula. *Proceedings of the 2001 American Society for Engineering Education Annual Conference*, June 24-27, 2001, Albuquerque, New Mexico.

Craddock, J.N. and Chevalier, L.R., 2000. Interactive multimedia labware for torsion experiment, *Proceedings of the American Society for Engineering Education Conference: Engineering Education Beyond the Millennium*, St. Louis, MO.

Craddock, J.N. and Chevalier, L.R., 2000. Web based laboratory manuals in civil engineering. *Proceedings of the International Conference on Engineering Education*, Taipei, Taiwan.

Chevalier, L.R. and Petersen, J.E., 1998. Reduction of residual LNAPL in aquifers by applying surfactant prior to pumping. *Proceedings of the Groundwater Symposium at the American Society of Civil Engineering International Water Resources Engineering Conference*, Memphis, Tenn.

Chevalier, L.R. and Craddock, J.N., 1998. Integrating technology enhanced learning into a nontechnical engineering course. *Proceedings of the International Conference on Engineering Education: Progress Through Partnership: Strengthening Alliances*, Rio, Brazil.

Chevalier, L.R., 1997. Using the world wide web as a teaching resource in undergraduate classes. *Proceedings of the International Conference on Engineering Education: Progress Through Partnerships*, Chicago, IL.

Chevalier, L.R., Wallace, R.B., Wiggert, D.C., and Shabana, M.D. 1996. 2-D experimental investigation of surfactant mobilization of light nonaqueous phase liquid. *Proceedings of the ASCE Conference on NAPL in the Subsurface Environment: Assessment and Remediation*, Washington D.C.

Selected Conference Proceedings (non-peer reviewed), Presentations and Posters

Eichfeld, W., Hsiao, J.K., Chevalier, L.R., 2007. Using advisory boards in the capstone design process. *1st National Conference Focused on Engineering Capstone Design Courses*, Boulder, Colorado.

Craddock, J.N., and Chevalier, L.R., 2002. Experiences with Cross Discipline Partnerships in the Development of Multimedia Labware for Civil Engineering Classes. *Proceedings of the ASEE Illinois-Indiana Sectional Conference*, Illinois Institute of Technology, Chicago, IL.

Craddock, J.N. and Chevalier, L.R., 2002. Industrial training applications of a multimedia environmental laboratory manual for introduction to environmental engineering. Calvert City Environmental Consortium, Calvert City, Ky.

Cisco, R.M, Chaffee, S.G., Chevalier, L.R., Ray, B.T., Nicklow, J.W., Boruszkowski, L., 2002. Digital Imaging of Environmental Water Resources Engineering. Poster Presentation. *UWPA Conference Celebrating Scholarship By and About Women*, Southern Illinois University Carbondale.

Arndt, A., Swami, S., Chevalier, L.R., Craddock, J.N, 2002. *Development of Interactive Multimedia Labware for Civil Engineering Curriculum*. Poster Presentation. UWPA Conference Celebrating Scholarship By and About Women, Southern Illinois University Carbondale.

Craddock, L.R. and Chevalier, J.N., 2002. Multimedia Environmental Laboratory Manual for Introduction to Environmental Engineering. Presentation to the Purchase Area Environmental Forum, Paducah, Kentucky.

Chevalier, L.R, and Craddock, J.N., 2002. Demonstration of Multimedia Labware for Strength of Material Laboratory. *SIUC Technology Fair: Distance Learning Week*, Southern Illinois University Carbondale.

Chevalier, L.R. and Cisse, A.M., 1999. Testing of surfactants for use in remediation of light nonaqueous phase liquid contaminants in aquifers. Paper Presentation. *4th Annual ChAMP Student Research Conference in Science, Mathematics, Engineering and Technology, Research, Discovery and Communication*, Illinois Institute of Technology, Chicago, IL.

Chevalier, L.R. and Fonte, J.M, 1999. Correlation model for trapping of immiscible organic contaminants in sandy soils. *Proceedings of the 9th Annual Conference Illinois Groundwater Consortium*. Research on Agricultural Chemicals in Illinois Groundwater: Status and Future Directions IX., Makanda, IL.

Chevalier, L.R. and Fonte, J.M., 1998. Simulated Study of Environmental Restoration: A Civil and Environmental Engineering Workshop for High School Students. *Proceedings of the ASEE Forecast for the Future. Proceedings of the ASEE Illinois-Indiana Sectional Conference*. March Carbondale, IL.

Chevalier, L.R. and Fonte, J.M., 1998. Capillary Trapping of Immiscible Organic Contaminants in Aquifer Soils Due to Flooding: Preliminary Results. *Proceedings of Illinois Groundwater Consortium 8th Annual Research Planning Conference, Research on Agricultural Chemicals in Illinois Groundwater: Status and Future Directions*, Makanda, IL.

Graduate Students

Ricot Saint Aime (current) Foreign Fulbright Fellow-Haiti

Jean-René Thélusmond (current) Foreign Fulbright Fellow-Haiti

Serena Blackstock , 2009, Master's Project. Geographic Information Systems for Investigating the Location of Wind Energy Systems.

Sarah Burnam, 2007, Master's Thesis, The Effect of Ethanol Cosolvency on Benzene.

Manoj Bhattarai, 2006, Master's Thesis, A Numerical Modeling Study of Surfactant Enhanced Mobilization of Residual LNAPL Using UTCHEM.

Jemil N. Yesuf, 2006, Master's Thesis. Determination of Single and Multi-component Adsorption isotherms Using Nonlinear Regression and Numerical Optimization. *Thesis of the Year Award for SIUC and the Midwest Association of Graduate Schools.*

Mayank Srivastava, 2005, Master's Thesis, Estimation of Coalbed Methane Production Potential through Reservoir Simulation. Thesis co-Advisor with Dr. Harpalani, Mining and Mineral Resources Engineering.

Mark Radake, 2005, Master's Thesis. Surfactant Enhanced Recovery of Light Non-aqueous Phase Liquids.

LaToya Knowles, 2005, Master's Thesis. Adsorptive Removal of Basic Dyes by Acid Activated Almond Nutshell.

Craig Irwin, 2002, Master's Project. Evaluation of InSpectra UV Analyzer for Measuring the Conventional Water Parameter.

Kelvin Wong, 2000, Master's Thesis. Mechanisms of Surfactant Enhanced NAPL Recovery from Soil.

Renee Goff, 2000, Master's Thesis. Evaluation of GAC from Almond Shells to Reduce Chloroform in Drinking Water.

Lars O. Fektenberg. 1999, Master's Thesis. Comparison of Primary and Secondary Surfactant Flushing to Enhance LNAPL Recovery.

Amadou Cisse, 1999, Master's Project. Experimental Measures of Surfactant Properties.

Jeannette M. Fonte, 1998, Master's Thesis. Capillary Trapping of Nonaqueous Phase Liquids in Saturated Porous Media: Study of Characteristic for Prediction.

Jason Petersen, 1998, Master's Thesis. Laboratory Investigation of LNAPL Flow and Surfactant Enhanced Remediation.

Web Sites Developed Through NSF Education Grants

Digital Images in Environmental and Water Resources Engineering: A Web Site of Discovery

http://civil.engr.siu.edu/CEE_DI/

On-line Laboratory Manual for Environmental Engineering

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On-line Laboratory Manual for Strength of Materials

http://civil.engr.siu.edu/CEE_Labs/

On-Line Course Material

Course material includes Powerpoint lecture notes, class problems, exams, quizzes and homeworks. Notes are also available through 710 Bookstore.

<http://civil.engr.siu.edu/cheval>

ENGR 351 Numerical Methods for Engineers

CEE 310 Environmental Engineering

CEE 412 Contaminant Flow, Transport and Remediation in Groundwater

CEE 510 Hazardous Waste Engineering

Additional Courses

CEE 418 Water and Wastewater Design

ENGR 301i Humans and Their Environment (University Core Curriculum)

Service

National/International Activities

ABET (Accreditation Board for Engineering and Technology) Reviewer for ASCE (American Society of Civil Engineering), 2005-present

Engineering Panel Chair, Department of Homeland Security Graduate Fellowships and Undergraduate Scholarships, 2003-2007

National Science Foundation CLEANER Science Advisory Board, 2005-2006

International Conference of Engineering Educators (ICEE) Advisory Board, Puerto Rico Conference, 2006

Membership in Professional Associations

American Association of University Women

American Society of Civil Engineers

American Society of Engineering Educators

American Water Works Association

Association of Environmental Engineering and Science Professors

Engineers Without Borders

Groundwater Foundation

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National Groundwater Association

Reviewer: Grant Proposals, Manuscripts for Journals, Textbooks

National Science Foundation

Fulbright Scholar Program

American Chemical Society Petroleum Research Fund

U.S. Environmental Protection Agency

State of Wisconsin Joint Solicitation of Groundwater and Related Research/Monitoring Proposals

U.S. Civilian Research and Development Foundation (Cooperative Grant Program, First Steps to Market Grant Program)

McGraw Hill, PWS Publisher, Waveland Press , Wiley

ASCE Journal of Environmental Engineering

ASCE Journal of Geotechnical and Geoenvironmental Engineering

Chemosphere

Environmental Engineering Science

Environmental Modeling and Software

Environmental Science and Technology

Journal of Contaminant Hydrology

Journal of Hazardous Material

Soil and Sediment Contamination

Water Research

Water Resource Management

Water Resources Research

Service at SIUC (selected)

Faculty Co-Advisor Society of Women Engineers Student Chapter, 1999-present

Tau Beta Pi (Engineering Honor Society), Faculty Advisory Board, 1996 – present

Engineers Without Borders, Founding Advisory Board for Student Chapter, 2008-present

Advisory Board, Middle Mississippi River Wetland Field Station, 2009-present

Reviewer, Undergraduate Research Forum, 2006-present

External review, P&T, Library Affairs, 2009

External mentor for P&T Dossier Preparation, Mass Communications and Media Arts, 2009

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Nepalese Student Organization, Faculty Advisor, 2008-2009

NSF AGEP Proposal- Operational PI developing a grant proposal for a state-wide coalition to advance graduate education of under-represented students into the professoriate (2006-present; resubmitting)

University Women Professional Advancement (UWPA) Leadership Panel, 2009

Presidential/Chancellor Scholarship Interview Team, 2008

SIUC Conference for Women, Panel, Developing and Valuing a Diverse Workforce, 2008

President's Committee on Diversity in Academics/Financial Assistance Committee (Graduate subgroup) 2006-2007.

External review of Geography and Environmental Resources Program, 2007

Women's History Month, Panel, 2007

Internal Review Team for Department of Geography and Environmental Resources, 2007

Provost's Ad Hoc Committee on Gay, Lesbian, Bi-Sexual and Transgender Issues at SIUC, 2006

Teachers' Academy for Life-Long Learning: Diversity-The Never-Ending American Public School Experiment, 4th Annual Workshop, Panelist, SIUC, June, 2005.

Graduate Stipend and Benefits Task Force Committee, 2005

Provost's Task Force on Non-Tenure Track Faculty Policy Issues, 2002

Southern @150, Strategic Planning, Library and Information Technology Committee, 2002

Provost's Commencement Committee, 2000-2005

Environmental Studies Program Advisory Committee Member, 1999-2005

SIUC Safezone Program

Activities for Recruitment, Retention and Diversity

McNair Scholar Mentor, 2005-present

Faculty Coordinator for Engineering Success Week (Freshman/Transfer Student Orientation), 1998-2008; Faculty participant 2009-present

Dialoging Dissertations: An Event for Female Scholars, Panelist, 2007

Diversity Leadership Team, Keeping our Faculties III: Recruiting, Retaining and Advancing Faculty of Color, Minneapolis, Minnesota, 2004

Mentor to junior faculty, 2000-present (College of Engineering, College of Agricultural Sciences, College of Mass Communications and Media Arts, College of Liberal Arts)

Minority engineering student mentor

Workshops for Expanding Your Horizons Conference

Workshops for Introduction Engineering Summer Camp for Minorities

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Workshops for Introduction to Engineering Summer Camp for Women

Workshops for Introduction to Engineering Summer Camps for Middle School Students

Workshops for Southern Illinois Science, Engineering and Math Network

Workshops for Minority Engineering Office: Science, Math, Engineering and Technology Student Visitation Weekend

Accreditation Activities

Lead department through two ABET accreditation reviews (2002, 2008)

ASCE ABET Reviewer, 2005-present

ABET Webinar: Preparing for the Self Study, Presented by Dr. Stu Zweben, Dec. 2007.

Joint Meeting of Structural Engineering Licensure Board and Professional Engineering Licensure Board for Engineering Deans and faculty, Springfield, IL 2005

ASCE ABET Evaluator Training, ASCE Webinar System, 2005.

Program Assessment and Accreditation Workshop Seminar by Dr. Gloria Rogers, College of Engineering, SIUC, 2005.

Best Assessment Practices IV Symposium sponsored by the Rose-Hulman Institute of Technology and the Foundation Coalition, Terra Haute, Indiana, 2001.

Community

John A. Logan College Assessment Initiative Advisory Committee

Volunteer for District 95 (hands-on science activities, reading activities)

Community Volunteer (Animal Shelter, Giant City Stables)

Awards and Recognition

2009 Fellow, American Society of Civil Engineers

2009 Diplomat, American Association of Water Resources Engineers (D. WRE)

2009 Board Certified Environmental Engineer. American Academy of Environmental Engineers (BCEE)

2009 Grand Marshall, Summer Graduation; Faculty Marshall, Fall Graduation

2008 Grand Marshall, Fall Graduation; Faculty Marshall, Summer Graduation

2005 SIUC University Woman of Distinction, Administrative/Professional

2005 Certificate of Appreciation, Student Chapter, National Society of Black Engineers

2001 Distinguished Faculty Award, SIUC Undergraduate Student Government

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NSF Travel Award to 1998 ICEE International Conference on Engineering Education in Rio de Janeiro, Brazil.

Faculty Mentoring Program Protégé Travel Funds, 1996, University Women's Professional Advancement, SIUC.

Nominated by SIUC Office of Research and Development for 1996 Junior Faculty Enhancement Award, Oak Ridge Associated Universities.

AGWSE/NGWA Faculty Training Fellowship. 1996, Understanding Migration, Assessment and Remediation of Nonaqueous Phase Liquids.

Additional Administrative/Professional Achievements and Activities

Professional Engineering License, Illinois

HERS Bryn Mawr Summer Institute Certificate, 2008. An intensive residential institute for women leaders in higher education; focused on administrative training in issues facing higher education, including strategic planning, budgeting and finance, government relations, changing demographics, and globalization.

National Leadership Workshop for SEM (Science, Engineering, Math) Department Chairs, University of Washington, Seattle Washington, 2005

Women in Engineering Leadership Institute (WELI) Leadership Summit, University of Connecticut, 2004

SIUC Diversity Leadership Team, Keeping our Faculties III: Recruiting, Retaining and Advancing Faculty of Color, Minneapolis, Minnesota, 2004

Additional Professional Development Activities (selected)

Workshop for the Center of Sustainable Engineering, Carnegie Mellon University, 2009.

IDCEO Environmental Workshops for the Construction Industries, February 25, 2009, Dunn-Richmond Economic Development Center, Carbondale, IL.

American Recovery and Reinvestment Act – A Briefing for Civil Engineers, ASCE Webinar, March 5, 2009.

How to Design the "Perfect" Introduction to Engineering Course, FacultyNetwork, Wiley, 2008.

Teaching Design to First-year Students: Content and Style, FacultyNetwork, Wiley, 2008.

The Future of Race and Immigration in America: Where Are We Headed? SIUC, Paul Simon Public Policy Institute, 2008.

Phytoremediation of Organics, presented by A. Ferro and S. Strand, 2008. Sponsored by the National Institute of Health, National Institute of Environmental Health Sciences, and the Environmental Protection Agency (<http://www.clu-in.org/conf/tio/phyto2/>)

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Endocrines Disruptors and the Water Industry Symposium, American Water Works Association, Cincinnati, Ohio. 2002

Illinois Section AWWA Educational Seminar: Coliform and Bacteria, Makanda, Illinois. 2000

The Role of Desalination in Averting a Global Water Crisis, Sponsored by the Public Policy Institute, Southern Illinois University Carbondale, 1999

Faculty Summer Institute, University of Illinois at Urbana-Champaign, 1998

NSF Chautauqua Short Course: Multimedia Laboratory and Classroom Simulations: Instructional Tools for the Sciences, Dayton, Ohio 1997

Association of Groundwater Scientists and Engineers/National Groundwater Association Faculty Fellowship. Understanding Migration, Assessment and Remediation of Nonaqueous Phase Liquids, Nashville, Tn., 1996

Current Projects/Focus Areas

NSF ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers, Institutional Transformation, Principle Investigator on developing a proposal for institutional transformation, ESISTEM - *Empowerment and Sustainability Initiative in Science, Technology, Engineering and Mathematics*, Chevalier, L.R. (Lead PI), Miller Hughes, M., Renzaglia, K, Means, J., Winter, T. (co-PIs); Proposal involved colleagues from six colleges as well as eight other universities. (resubmitted; November 2009)

NSF AGEP: Alliances For Graduate Education and the Professoriate, Developing proposal, Serving as the operational PI for a state-wide coalition to advance graduate education of under-represented students into the professoriate. The lead PI on this proposal is the Vice Chancellor for Research, Dr. John Koropachak. State-wide partners include the University of Illinois-Chicago and Illinois Louis Stokes Alliance for Minority Participation (resubmission; deadline TBA)

NSF IGERT *Multidisciplinary, Team-Based Training in Watershed Science and Policy*, proposal recommended for funding, anticipated start date Fall 2009. Will serve as the executive director in the first year of this five year project

Initiatives in Environmental Engineering – As the senior faculty member in environmental engineering, I actively lead and foster the development and assessment of the environmental engineering curriculum as well as interdisciplinary research collaboration. I have also taken the lead in developing a web-presence for the program and initiating an annual symposium promoting our research and teaching

In my role as a member of the student chapter advisory board, I am actively supporting the student chapter of Engineers Without Borders with their first project. I plan on traveling abroad with the students to assist them as well as to develop a personal appreciation and participation in the mission of the program

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Submitted: November 2009