

PAUL A. INDEGLIA, Ph.D., P.E.
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Coral Springs, Florida 33076
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email: indeglia@gmail.com

PROFESSIONAL EXPERIENCE

Indeglia Environmental Science and Engineering, PLLC, Coral Springs, Florida
(formerly Peak Consulting Group, Inc.)
Managing Partner; 2012 – present
Vice President – Engineering, 2004 – 2012

RWA, Inc., Naples, Florida
Project Manager; Engineering Intern, 2001 – 2004

Environmental Resources Management, Houston, Texas
Project Manager; Engineering Intern, 1998 – 2001

International Center for the Solution of Environmental Problems, Houston, Texas; Mexico City, Mexico
Research Associate, 1997 – 1998

International Rescue Committee, Somalia; Pakistan; Georgia; Bosnia and Herzegovina; Burundi
Rehabilitation Engineering Manager, 1992 – 1996
Team Leader, 1992 – 1993

United States Peace Corps, Republic of Kenya
Water and Sanitation Technician, 1991 – 1992

van Overberghe Construction, South Bend, Indiana
Project Manager, 1990 – 1991
Construction Laborer, 1988 – 1990 (summers)

South Bend Redevelopment Commission, South Bend, Indiana
Intern, 1989-1990

Fried Frank Harris Shriver & Jacobson, Washington, District of Columbia
Intern – Real Estate and Native American Law Department, 1986 – 1987 (summers)

ACADEMIC POSITIONS

Florida International University, Miami, Florida
College of Engineering and Computing – Doctoral Committee Member, 2019 – present
Department of Civil and Environmental Engineering – Adjunct Faculty, 2018 – present

Florida Atlantic University, Boca Raton, Florida
Department of Civil, Environmental and Geomatics Engineering – Associate Graduate Faculty, 2018 – present

Pontificia Universidad Católica del Ecuador Sede Esmeraldas, Esmeraldas, Ecuador
Center for Research and Development – Associate Faculty, 2012 – present

University of New Hampshire, Manchester, New Hampshire
Department of Engineering Technology – Adjunct Faculty, 2015 – 2017
Department of Business Administration – Adjunct Faculty, 2014

ACADEMIC POSITIONS (continued)

University of Massachusetts Dartmouth, North Dartmouth, Massachusetts
Department of Environmental Engineering – Post-Doctoral Research Associate, 2011 – 2012

Christian Brothers University, Memphis, Tennessee
Department of Environmental Engineering – Research Associate, 2010 – 2011

Sam Houston State University, Huntsville, Texas
Department of Agriculture – Lecturer, 1998 – 1999

The Kenya Polytechnic, Nairobi, Kenya
Engineering Faculty – Instructor, 1991 – 1993

University of Notre Dame, Notre Dame, Indiana
School of Architecture in the College of Engineering – Instructor, 1990

EDUCATION

University of Florida, Gainesville, Florida
Doctorate – Environmental Engineering Sciences, 2011
Department of Environmental Engineering Sciences
Dissertation: On the Physicochemical Characteristics and Biological Effects of Derivatized Fullerene and Synthesis By-products.
Advisor: Jean-Claude Bonzongo, University of Rennes 1, Rennes, France

University of Florida, Gainesville, Florida
Bachelor of Science – Environmental Engineering, 2006
Department of Environmental Engineering Sciences

Humboldt State University, Arcata, California
Master of Science – International Development Technology, 1998
Department of Environmental Resources Engineering
Department of Political Science
Thesis: Reuse of Coconut Residues as Activated Carbon for Domestic Water Purification in Developing Regions.
Advisor: Robert Gearheart, University of Oklahoma, Norman, Oklahoma

University of Notre Dame, Notre Dame, Indiana
Bachelor of Architecture, 1990
School of Architecture, College of Engineering
Thesis: Campus Designing in Concert with Nature: University of Rhode Island – Bay Campus.
Advisor: Jaime Bellalta, Harvard University, Cambridge, Massachusetts

PUBLICATIONS

Indeglia, P., Georgieva, A., Krishna, V., Knapik, J., Barber, D., Martyniuk, C., Koopman, B., and Moudgil, B. “Effect of polyhydroxy fullerenes at ultra-high concentrations on zebrafish (*Danio rerio*), algae (*Raphidocelis subcapitata*), and fungi (*Aspergillus niger*).” In preparation.

Georgieva, A., **Indeglia, P.**, El-Shall, H. and Moudgil, B. “Analysis of industry demand and use of surfactants from renewable resources.” In preparation.

PUBLICATIONS (continued)

- Georgieva, A., **Indeglia, P.**, Chernishova, I, Somasundaran, P., and Moudgil, B. “Statistical design to assess naturally-derived surfactants.” In preparation.
- Georgieva, A., **Indeglia, P.**, Chernishova, I, Somasundaran, P., and Moudgil, B. “Foaming and defoaming of naturally-derived surfactants by experimental design.” In preparation.
- Indeglia, P.**, Georgieva, A., Krishna, V., Martyniuk, C., and Bonzongo, J.C. 2018. “Toxicity of functionalized fullerene and fullerene synthesis chemicals.” *Chemosphere*. Volume 207, pp. 1-9.
- Pennell, K.G, Scammell, M.K., McClean, M.D., Suuberg, E.M., Moradi, A., Roghani, M., Ames, J., Friguglietti, L., **Indeglia, P.A.**, Shen, R., Yao, Y., and Heiger-Bernays, W.J. 2016. “Field data and numerical modeling: A multiple lines of evidence approach for assessing vapor intrusion exposure risks.” *Science of the Total Environment*. Volume 556, pp. 291-301.
- Indeglia, P.**, Georgieva, A., Krishna, V., and Bonzongo, J.C. 2014. “Physicochemical Characterization of Fullerenol and Fullerenol Synthesis By-Products Prepared in Alkaline Media.” *Journal of Nanoparticle Research*. Volume 16, Issue 25, pp. 1-15.
- Georgieva, A., Pappu, V., Krishna, V.; Georgiev, P.G., Ghiviriga, I., **Indeglia, P.**, Xu, X., Fan, Z.H., Koopman, B., Pardalos, P.M., and Moudgil, B. 2014. “Polyhydroxy Fullerenes – Spectral Data Analysis by Simultaneous Curve Fitting”. *Journal of Nanoparticle Research*. Volume 15, Issue 16, pp. 1-18.
- Indeglia, P.**, Georgieva, A., Krishna, V., and Bonzongo, J.C. 2013. “Mechanical Transformation of C₆₀ Stirred in Water for 28 Days under Varied Photoconditions.” *Journal of Nanoparticle Research*. Volume 15, Issue 11, pp. 1-16.
- Indeglia, P.A.** 2013. “Case study for the treatment of artisanal gold mining effluent in Eloy Alfaro and San Lorenzo Esmeraldas, Ecuador.” *Actualidad*, Pontificia Universidad Católica del Ecuador Sede Esmeraldas. February.
- Pennell, K.G, Scammell, M.K., McClean, M.D., Ames, J., Weldon, B., Friguglietti, L., Suuberg, E.M., Shen, R., **Indeglia, P.A.**, Heiger-Bernays, W.J. 2012. “Sewer Gas: An Indoor Air Source of PCE to Consider During Vapor Intrusion Investigations.” *Groundwater Monitoring and Remediation*. Volume 33, Issue 3, pp. 119-126.
- Gao, J., Wang, Y., Folta, K., Krishna, K., Bai, W., **Indeglia, P.**, Georgieva, A., Nakamura, H., Koopman, B., and Moudgil, B. 2011. “Polyhydroxy Fullerenes: Beneficial Effects on Growth and Lifespan in Diverse Biological Models”. *PLoS One*. 2011;6(5):e19976.
- Bhadha, J., Schmidt, C., **Indeglia, P.**, Bevc, E., Kertesz, R., Rooney, R., and Sansalone, J. 2008. “Granulometric and Metal Distributions for Post-Katrina Surficial Sediments Recovered from New Orleans.” *Journal of the American Water Resources Association*. Volume 45, Issue 6, pp. 1434-1447.
- Indeglia, P.A.**, Heaney, J.P. 2007. “Water Conservation Toilets.” Conserve Florida Water Clearinghouse. University of Florida, Gainesville, Florida.
- Indeglia, P.A.**, Switt, R.S., Ziemba, L.W., Heaney, J.P., Beck, H.W. and Riley, K.J. 2007. “Conserve Florida Water Conservation Guide – Case Studies with Three Utilities: Miami – Dade Water and Sewer Department, City of Venice Utilities, and Orange City Utility.” Conserve Florida Water Clearinghouse, Florida Department of Environmental Protection, Tallahassee, Florida.
- Swihart, T., Riley, K., and **Indeglia, P.** 2006. “Conserve Florida’s Statewide Water Conservation Guide and Clearinghouse.” *Florida Water Resources Journal*. Volume 8.
- Cakir, F.Y., Kini, G., Rembold, M., **Indeglia, P.A.**, Heaney, J.P., and Koopman, B. 2006. “Role of water reuse in limiting ocean discharge of nutrients in Southeast Florida.” In Proceedings 21st Annual WaterReuse Symposium, Hollywood, California.
- Koopman, B., Heaney, J.P., Cakir, F.Y., Rembold, M.D., **Indeglia, P.A.**, and Kini, G. 2006. “Ocean Outfall Study.” Final Report to Florida Department of Environmental Protection, Tallahassee, Florida.

COURSES TAUGHT

- Stormwater Best Management Practices**, Fall 2019
Florida International University, Miami, Florida
Adjunct Faculty – Department of Civil and Environmental Engineering
- PFAS and Arsenic in Our Water and Wastewater**, Summer 2019
Granite State Rural Water Association, Portsmouth, New Hampshire
Instructor – Short-Course: Water and Wastewater Operator Certification
- Climate Change Impacts on Water Infrastructure**, Summer 2017
Granite State Rural Water Association, Exeter, New Hampshire
Instructor – Short-Course: Water and Wastewater Operator Certification
- Water Chemistry**, Summer 2017
Granite State Rural Water Association, Concord, New Hampshire
Instructor – Short-Course: Water and Wastewater Operator Certification
- Electrical Technology (ET 675)**, Spring 2017
University of New Hampshire at Manchester, Manchester, New Hampshire
Adjunct Faculty – Department of Engineering Technology
- Engineering Economics (ET 734)**, Spring 2016, Spring 2017
University of New Hampshire at Manchester, Manchester, New Hampshire
Adjunct Faculty – Department of Engineering Technology
- Production Systems (ET 641)**, Fall 2015, Fall 2016
University of New Hampshire at Manchester, Manchester, New Hampshire
Adjunct Faculty – Department of Engineering Technology
- Special Topics – Business Sustainability (BUS 675)**, Fall 2014 (course postponed)
University of New Hampshire at Manchester, Manchester, New Hampshire
Adjunct Faculty – Department of Business Administration
- Capstone Design – Florida Water Environment Association (ENV 4532)**, Spring 2007, Spring 2008
University of Florida, Gainesville, Florida
Co-Instructor – Department of Environmental Engineering Sciences
- Initial Training Course for Landfill Operators**, Spring 2007
University of Florida, Gainesville, Florida
Instructor – Training, Research, and Education for Environmental Occupations
- Green Engineering (ENV 4612)**, Fall 2007, Fall 2008
University of Florida, Gainesville, Florida
Teaching Assistant – Department of Environmental Engineering Sciences
- Applied Agricultural Technology (AGR 410)**, Spring 1998
Sam Houston State University, Huntsville, Texas
Lecturer – Department of Agriculture
- Environmental Sciences**, Spring 1998
St. Stephen's Episcopal School, Houston, Texas
Curriculum Developer for Sustainability Program – Science Department
- Introduction to Swahili (LA 601S)**, Summer 1997
Humboldt State University, Arcata, California
Instructor – College of Extended Education & Global Engagement
- Solid Waste Management (ENGR 435)**, Fall 1996, Spring 1997
Humboldt State University, Arcata, California
Teaching Assistant – Department of Environmental Resources Engineering

COURSES TAUGHT (continued)

Africa (PSCI 680), Spring 1997

Humboldt State University, Arcata, California

Teaching Assistant – Department of Government and Politics

Water and Sanitation Technology, 1991 – 1993

The Kenya Polytechnic, Nairobi, Kenya

Instructor – Engineering Faculty

Reinforced Concrete Design 1991 – 1992

The Kenya Polytechnic, Nairobi, Kenya

Instructor – Engineering Faculty

Environmental Studies (ARCH 598D), Fall 1989

University of Notre Dame, Notre Dame, Indiana

Instructor – School of Architecture, College of Engineering

NOTABLE PRESENTATIONS

The Clean Water Act Section 303(d) – Listing of Impaired Waters. Presented at Florida International University Department of Civil and Environmental Engineering on March 29, 2019.

Low Impact Development: Managing Rainfall Where It Originates. Presented at Florida International University Department of Civil and Environmental Engineering on March 27, 2019.

Sustainability in International Rural Water Development. Presented at the Annual Sustainability Conference of Rhode Island College, Providence, Rhode Island on March 28, 2013.

Assessing Vapor Intrusion and Risk: Development of a Conceptual Site Model. Presented at the Annual Conference on Soils, Sediments, Water and Energy of the University of Massachusetts, Amherst, Massachusetts on October 15, 2012.

Moisture-filled Porosity as a Key Parameter for Accurate Prediction of Vapor Intrusion Rates. Presented at the 244th American Chemical Society National Meeting in Philadelphia, Pennsylvania on August 19, 2012.

Methodologies for Site Assessment of Chlorinated Solvent Vapor Intrusion. Presented at the Brown University Superfund Research Program Retreat, Providence, Rhode Island on January 20, 2012.

Assessing Nanotoxicology Using Molecular Dynamic Simulation – GROMACS and Fullerene. Presented at the Paul Erdos Memorial Lecture Series at the University of Memphis on May, 19, 2010.

Progress on the Synthesis and Characterization of Polyhydroxyfullerenes. Presented at the Industrial Advisory Board Meeting of the Particle Engineering Research Center, University of Florida, Gainesville, Florida on August 18, 2010.

Antimicrobial Coatings. Presented at the Industrial Advisory Board Meeting of the Center for Particulate and Surfactant Systems (CPaSS), Particle Engineering, Columbia University, New York, New York on August 20, 2009.

Nanotoxicology of Fullerene Derivatives and By-Products. Presented at the Industrial Advisory Board Meeting of the Particle Engineering Research Center, University of Florida, Gainesville, Florida on September 2, 2009.

NOTABLE PRESENTATIONS (continued)

Photocatalytic Nanocomposite-based Coating for Disinfection on Surfaces. Presented at the Industrial Advisory Board Meeting of the Particle Engineering Research Center, University of Florida, Gainesville, Florida on November 5, 2008.

Conserve Florida Water – Water Conservation Guide. Presented at the Florida Water Resources Conference, Orlando, Florida on April 17, 2007.

Granulometric and Metal Distributions for Post-Katrina Surficial Sediments Recovered from New Orleans. Presented at the American Water Resources Association Conference, Baltimore, Maryland on November 8, 2006.

Sustainable Energy for Rural Water Delivery: A Case Study. Presented at the Rice University Chapter of Sigma Xi, Houston, Texas on June 9, 1998.

Sustainable Water Use in Agriculture. Presented at Texas A&M University, College Station, Texas on April 16, 1998.

GRANTS:

Total Awarded/Managed \$4,530,700

North Springs Improvement District – Heron Bay Nature Preserve. \$5,000,000. Principal Investigators: Colon, R., Early, J, and **P.A. Indeglia, Ph.D.** Awarded by the Florida Department of Environmental Protection – Florida Forever Parks and Open Space Program in March 2021 (pending).

Beltline Neighborhood Building Envelop Energy Conservation and Outreach Program. \$15,000. Principal Investigators: L. Lin, Ph.D. and **P.A. Indeglia, Ph.D.** Awarded by the United States Environmental Protection Agency – People, Prosperity and Planet Program in May 2011.

Conserve Florida Water Clearinghouse Operating Budget – FY 2008. \$450,000. Principal Investigators: J.P. Heaney, Ph.D. and K.J. Riley. Role as major contributor and editor. Awarded by the Florida Department of Environmental Protection in November 2007.

The Coastal Dune Lakes of Florida: Trends in Water Quality and Changing Land-use Practices. \$10,000. Principal Investigators: J. Jawitz, Ph.D., J.H. Bhadha, C. Schmidt, and **P.A. Indeglia.** Awarded by the United States Environmental Protection Agency – People, Prosperity and Planet Program in May 2007.

Conserve Florida Water Clearinghouse Operating Budget – FY 2007. \$450,000. Principal Investigators: J.P. Heaney, Ph.D., H.W. Beck, Ph.D., and K.J. Riley. Role as major contributor and editor. Awarded by the Florida Department of Environmental Protection in November 2006.

Sustainable Design and Implementation of a Solid Waste Management System in Kratovo, Macedonia. \$10,000. Principal Investigator: A.S. Lindner. Role as major contributor. Awarded by the United States Environmental Protection Agency – People, Prosperity and Planet Program in May 2006.

Conserve Florida Water Clearinghouse – Initial Implementation Grant. \$150,000. Principal Investigators: J.P. Heaney, Ph.D., H.W. Beck, Ph.D., and K.J. Riley. Role as major contributor and editor. Awarded by the Florida Department of Environmental Protection in February 2006.

GRANTS (continued)

- Post-Katrina Granulometric Analysis of Sediments in New Orleans.** \$4,700. Principal Investigators: **P.A. Indeglia**, J. Bhadha, R. Kertesz, and E. Bevc. Awarded by AWRA – Florida State Chapter, University of Florida – Benton Engineering Council, and University of Florida – Department of Environmental Engineering Sciences in September 2005.
- Arcata (CA) Green Bike Program.** \$50,000. Principal Investigators: W.A. Reeve and **P.A. Indeglia**, Agency for Sustainable Systems in Science and Technology. Awarded by the United States Department of Energy in August 2001.
- Arcata (CA) Green Bike Program.** \$50,000. Principal Investigators: W.A. Reeve and **P.A. Indeglia**, Agency for Sustainable Systems in Science and Technology. Awarded by the United States Department of Energy in August 1999.
- Development of Environmental Engineering Technologies for the Removal of Pathogens from Shrimp Production Effluent – Outreach and Education Program.** \$82,000. Principal Investigators: J.L. Goldman, Ph.D. and **P.A. Indeglia**, International Center for the Solution of Environmental Problems. Awarded by Texas Coastal Management Program in July 1998.
- Termite Methane Pilot Project.** \$5,000. Principal Investigators: J.L. Goldman, Ph.D. and **P.A. Indeglia**, International Center for the Solution of Environmental Problems. Awarded by Lindsay Barnes, Executive Vice President, Royal Dutch Shell Corporation in July 1998.
- Benito Juárez Air Quality Pilot Project.** \$50,000. Principal Investigators: J.M. Diaz-Guiardo, J.L. Goldman, Ph.D. and **P.A. Indeglia**, International Center for the Solution of Environmental Problems. Awarded by Shell Foundation in February 1998.
- Economic Benefits of City-Wide Recycling, City of Houston, Texas.** \$37,500. Principal Investigators: J.L. Goldman, Ph.D. and **P.A. Indeglia**, International Center for the Solution of Environmental Problems. Awarded by City of Houston Solid Waste Management Department in January 1998.
- Clifton Beach Water Quality Investigation.** \$6,500. Principal Investigators: J.L. Goldman, Ph.D. and **P.A. Indeglia**, International Center for the Solution of Environmental Problems. Awarded by the Harris and Eliza Kempner Fund in October 1997.
- Refugee Relief Activities in Tbilisi and Kutaisi, Georgia: Public Health Engineering.** \$2,400,000. Principal Investigators: P. Heinzen and **P.A. Indeglia**. Awarded by the United States Agency for International Development in March 1994.
- Refugee Relief Activities in Bardera, Somalia: Public Health Engineering.** \$750,000. Principal Investigators: P. Heinzen and **P.A. Indeglia**. Awarded by the United Nations High Commission for Refugees in November 1992.

PROFESSIONAL SERVICE

PEER-REVIEWER

Scientific Journals

Chemosphere
Clinical Immunology, Endocrine & Metabolic Drugs
Ecotoxicology and Environmental Safety
Environmental Science and Technology
Journal of Nanoparticle Research
Nanotoxicology

United States Environmental Protection Agency

Science to Achieve Results (STAR) Grants – Harmful Algal Blooms, 2020 – present
Small Business Innovative Research (SBIR) Contracts, 2016 – present
People, Planet, and Prosperity (P3) Grants, 2013 – present

National Council on Science and the Environment

National Conference Session Proposals, 2019

TECHNICAL ADVISOR

American Association of Petroleum Geologists, Tulsa, Oklahoma
Advisory Committee – Energy Materials Division, 2017 – 2019

Souhegan River Local Advisory Committee, Concord, New Hampshire
Advisor – Appointed by Governor Maggie Hassan, 2014 – 2017

Engineers Without Borders – UMD, North Dartmouth, Massachusetts
Faculty Advisor, 2011 – 2012

Engineers Without Borders – UF, Gainesville, Florida
Graduate Advisor, 2007 – 2008

BOARD OF DIRECTORS

Agency for Sustainable System in Science and Technology, Arcata, California
Chairman, Board of Directors, 1995 – 2017
Executive Director, 1995 – 1998; 2001 – 2008

Pennichuck Corporation, Merrimack, New Hampshire
Member, Board of Directors, 2012 – 2017

University of Notre Dame Alumni Association, Naples, Florida
Member, Board of Directors, 2003 – 2006
Secretary, 2004 – 2006

COMMUNITY ASSOCIATIONS

American Red Cross, Fort Lauderdale, Florida
Emergency Disaster Relief Coordinator, 2017 – present

Souhegan River Watershed Association, Merrimack, New Hampshire
Member, 2014 – 2017

Town of Amherst Pipeline Task Force, Amherst, New Hampshire
Conservation Commission Liaison, 2014 – 2016

Town of Amherst Stormwater Task Force, Amherst, New Hampshire
Member, 2014 – 2016

PROFESSIONAL SERVICE (continued)

COMMUNITY-ASSOCIATIONS (continued)

Town of Amherst Conservation Commission, Amherst, New Hampshire
Commissioner, 2013 – 2016

Department of Homeland Security - National Protection and Programs Directorate, Washington, D.C.
National Infrastructure Protection Plan – Contributor, 2005 – 2006

American Red Cross, Naples, Florida
Emergency Disaster Relief Coordinator, 2001 – 2005

Habitat for Humanity, Collier County, Florida
Director for Land Development, 2004

Bayou Preservation Association, Houston, Texas
Community Coordinator, 1997 – 2000

Urban Plunge, Chicago, Illinois
Activities Coordinator, 1989

Northeast Neighborhood Association, South Bend, Indiana
Volunteer Community Outreach Worker, 1986 – 1991

Montgomery County School Board, Rockville, Maryland
Title IX Liaison from Montgomery County Student Government, 1984 – 1985

PROFESSIONAL CERTIFICATION

Professional Engineer
Florida (License Number 77905)

PROFESSIONAL AFFILIATIONS

American Association of Petroleum Geologists

American Water Resources Association

American Water Works Association

Granite State Rural Water Association

International Water Association

Global Council for Science and the Environment

National Society of Professional Engineers

ACADEMIC ORGANIZATIONS

American Water Resources Association – University of Florida, Gainesville, Florida
Vice President, 2005 – 2008

Environmental Career Forum – University of Florida, Gainesville, Florida
Program Coordinator, 2006 – 2007

Engineers Without Borders – University of Florida, Gainesville, Florida
Student Member, 2005 – 2006; Graduate Researcher, 2007 – 2008

Campus Center for Appropriate Technology – Humboldt State University, Arcata, California
Community Research Coordinator, 1996 – 1997

Student Orientation – University of Notre Dame Rome Studies Program, Notre Dame, Indiana
Committee Director, 1989

ACADEMIC ORGANIZATIONS (continued)

- Beaux Arts – University of Notre Dame**, Notre Dame, Indiana
Event Coordinator, 1988
- Student Government – University of Notre Dame**, Notre Dame, Indiana
Special Assistant to the Vice President, 1986 – 1987
- Traffic Citation Appeals Court – University of Notre Dame**, Notre Dame, Indiana
Magistrate, 1986 – 1987

PATENTS

“Functionalized fullerenes as a biomass stimulant and a life extension agent”

- Patent No. US9399756B2
Patent No. US20130035398
Patent No. WO2011127285A2 and A3
Publication Date: July 26, 2016

SPECIALIZED PROFESSIONAL DEVELOPMENT PROGRAMS

- Managing Unreasonable Risks for TCE Under the Toxic Substances Control Act**, 2021
United States Environmental Protection Agency, Washington, District of Columbia
- PFAS Continuing Education for Clinicians**, 2021
Agency for Toxic Substances and Disease Registry, Atlanta, Georgia
- Case Study in Environmental Medicine – Tetrachloroethylene Toxicity**, 2021
Agency for Toxic Substances and Disease Registry, Atlanta, Georgia
- Case Study in Environmental Medicine – Lead**, 2021
Agency for Toxic Substances and Disease Registry, Atlanta, Georgia
- The Clock Is Ticking: How to Adopt the Final LCRR With Minimal Disruption**, 2021
120Water, Zionsville, Indiana
- How Parks Make Communities More Sustainable**, 2021
Security and Sustainability Forum/Island Press, Washington, D.C.
- How to Build Faster, More Accurate Sewer/Storm Models**, 2021
Innovyze, Portland, Oregon
- Storm Water Low Impact Development Guidance**, 2021
Southard Engineering, Gainesville, Florida
- Designing Storm Drain Inlets**, 2021
Southard Engineering, Gainesville, Florida
- Hydrology – Rainfall Runoff Processes: Peak Flow for Ungauged Sites**, 2021
Southard Engineering, Gainesville, Florida
- Quality Considerations for Munitions Response Projects**, 2020
Interstate Training and Regulatory Council, Washington, District of Columbia
- Using CAST (Chesapeake Assessment Scenario Tool) for Local Planning**, 2020
Chesapeake Bay Program, Annapolis, Maryland
- Site Investigation and Remediation for Munitions Response Projects**, 2020
Interstate Training and Regulatory Council, Washington, District of Columbia
- Stormwater Practices and Management – Core Course**, 2019
University of Minnesota Extension, Minneapolis, Minnesota
- Due Diligence and Supply Chain Transparency of Timber, Paper and Packaging Products**, 2019
Société Générale de Surveillance, Geneva, Switzerland

SPECIALIZED PROFESSIONAL DEVELOPMENT PROGRAMS (continued)

Survey of Munitions Response Technologies, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

Climate Change Adaptation Leadership Series, 2019

- **Climate Choices and the Future of Dangerously Hot Days**
- **Power to the People with Minigrids**
- **Killer Heat in the United States – The Future of Dangerously Hot Days**
- **Corporate Energy Strategies to Thrive in a Decarbonized World**
- **Climate Action Planning**
- **Profit from Capture of Methane Emissions**

Security and Sustainability Forum, Washington, D.C.

Geophysical Prove-Outs for Munitions Response Projects, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

CAST Modeling 101 – An Intro to Using CAST (Chesapeake Assessment Scenario Tool), 2019

Chesapeake Bay Program, Annapolis, Maryland

Munitions Response Historical Record Review, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

PFAS and Due Diligence: Practical Information for Managing the Emerging Risk, 2019

Société Générale de Surveillance, Geneva, Switzerland

Characterization and Remediation of Soils at Closed Small Arms Firing Ranges, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

ISO 14001:2015 Webinar: Analyzing Common Pain Points of Compliance, 2019

Société Générale de Surveillance, Geneva, Switzerland

Nutrient Management in Coastal Communities, 2019

United States Environmental Protection Agency, Washington, District of Columbia

Site Investigation and Remediation for Munitions Response Projects, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

Vapor Intrusion: Tools to Identify Potential Vapor Intrusion, 2019

ERS, Laguna Hills, California

Vapor Intrusion: Requirements, 2019

ERS, Laguna Hills, California

Quality Considerations for Munitions Response Projects, 2019

Interstate Training and Regulatory Council, Washington, District of Columbia

Relocating Homes for Flood Protection, 2019

Southard Engineering, Gainesville, Florida

Oil Wastewater Collection and Treatment, 2018

Southard Engineering, Gainesville, Florida

Heritage and Transition: Community-led Solutions in Coal Country, 2018

New Mexico Climate Action, Santa Fe, New Mexico

Geospatial Analysis for Optimization at Environmental Sites, 2018

Interstate Training and Regulatory Council, Washington, District of Columbia

Geophysical Classification for Munitions Response, 2018

Interstate Training and Regulatory Council, Washington, District of Columbia

Every Dollar Counts: Calculating Sewer System Life Cycle Costs, 2018

Forester University, Santa Barbara, California

SPECIALIZED PROFESSIONAL DEVELOPMENT PROGRAMS (continued)

- Superfund Redevelopment Initiative Series: Bringing Industrial Reuse to Superfund Sites**, 2018
Interstate Training and Regulatory Council, Washington, District of Columbia
- Characterization and Remediation of Fractured Rock**, 2018
Interstate Training and Regulatory Council, Washington, District of Columbia
- Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment**, 2018
Interstate Training and Regulatory Council, Washington, District of Columbia
- Issues and Options in Human Health Risk Assessment**, 2018
Interstate Training and Regulatory Council, Washington, District of Columbia
- Global Diversity and Inclusion Benchmarks: Standards for Organizations around the World**, 2017
Centre for Global Inclusion, North Las Vegas, Nevada
- A Guide to Rainwater Harvesting**, 2017
Southard Engineering, Gainesville, Florida
- Ponds: Planning, Design, and Construction**, 2017
Southard Engineering, Gainesville, Florida
- Managing for Results: Results-based Management**, 2016
Johns Hopkins University – Bloomberg School of Public Health, Baltimore, Maryland
- Sustainability Toolkit: A Practical Guide to Integration (ISO 26000: Social Responsibility)**, 2016
Tavares Consulting Group, London, Ontario
- Global Governance in the Face of Non-Traditional Risks**, 2016
The Council on Strategic Risks: Center for Climate and Security, Washington, District of Columbia
- Advances in Water Source VRF Technology: A New Era of Efficiency**, 2015
Forester University, Santa Barbara, California
- Smart Building Best Practices**, 2015
Forester University, Santa Barbara, California
- Maximizing Erosion Control**, 2015
Forester University, Santa Barbara, California
- Ethics and Sustainable Development**, 2015
National Society of Professional Engineers, Alexandria, Virginia
- Today's Three Greatest Risks in Green Design and Construction**, 2015
National Society of Professional Engineers, Alexandria, Virginia
- Energy Efficiency for Water Utilities**, 2015
Granite State Rural Water Association, Sunapee, New Hampshire
- Why Investing in Nature Makes Economic Sense**, 2015
Institute for International Economic Policy, Washington, District of Columbia
- Groundwater Statistics for Environmental Project Managers**, 2015
Interstate Training and Regulatory Council, Washington, District of Columbia
- Rethinking Our Land: Growing Sustainable and Resilient Communities**, 2015
Security and Sustainability Forum: Arizona State University, Tempe Arizona
- Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management**, 2015
Interstate Training and Regulatory Council, Washington, District of Columbia
- Analytical Chemistry Data Review – Volatile Organics Data**, 2015
En Novative Technologies, Dexter, Michigan
- Peace, Conflict, and the Scale of the Climate Risk Landscape**, 2015
Security and Sustainability Forum: Arizona State University, Tempe Arizona

SPECIALIZED PROFESSIONAL DEVELOPMENT PROGRAMS (continued)

- TCE PCBs and Phthalates – Exposure, Mechanisms of Disease, and Clean-up Remedies**, 2015
United States Environmental Protection Agency, Washington, District of Columbia
- Human Health Risk Assessment**, 2015
Interstate Training and Regulatory Council, Washington, District of Columbia
- PRP Perspectives in Superfund Site Reuse**, 2015
United States Environmental Protection Agency, Washington, District of Columbia
- Invasive Species Workshop**, 2015
University of New Hampshire – Extension, Milford, New Hampshire
- Brain Health and the Environment**, 2015
National Institutes of Environmental Health and Safety, Research Triangle Park, North Carolina
- Power Lines, Pipelines and Power Plants: Siting New Hampshire’s Energy Future**, 2015
New Hampshire Municipal Association, Concord, New Hampshire
- Addressing the Food, Water, Energy Nexus**, 2015
Arizona State University – School of Sustainability, Tempe Arizona
- Green Infrastructure**, 2015
United States Environmental Protection Agency, Washington, District of Columbia
- Remedy Selection for Contaminated Sediments**, 2015
Interstate Training and Regulatory Council, Washington, District of Columbia
- Dense Non-aqueous Phase Liquid: Characterizing, Remediating, and Monitoring**, 2015
Interstate Training and Regulatory Council, Washington, District of Columbia
- Cutting Trash in Half: How New Hampshire’s Towns and Cities Are Turning to PAYT**, 2015
New Hampshire Municipal Association, Concord, New Hampshire
- The Significance of Children’s Environmental Health Research through Collaboration**, 2015
National Institutes of Environmental Health and Safety, Research Triangle Park, North Carolina
- Project Matching: Shovel-Ready Renewable Energy Projects**, 2015
United States Environmental Protection Agency, Washington, District of Columbia
- Toxic Release Inventory: Pollution Prevention (P2) Resources**, 2015
United States Environmental Protection Agency, Washington, District of Columbia
- Getting the Message Out – Targeting Communication Strategies**, 2015
Antioch University, Keene, New Hampshire
- Green Infrastructure and Flood Resiliency – Land Use Management as an Adaptation Strategy**, 2015
Antioch University, Keene, New Hampshire
- Introduction to Conservation Design**, 2015
Southard Engineering, Gainesville, Florida
- Best Practices for Soil VOC Sampling**, 2015
En Novative Technologies, Dexter, Michigan
- ISO 9000 (Quality Management) Internal Auditor Training**, 2015
New Hampshire Manufacturing Extension Partnership, Manchester, New Hampshire
- Asset Management for Water Utilities**, 2014
Granite State Rural Water Association, Sunapee, New Hampshire
- Sustainable Stormwater Management**, 2013
Cumberland County Soil and Water Conservation District, Portland, Maine
- Expert Witness and Legal Case Support Work for Scientists**, 2013
Professional Analytical and Consulting Services, Pittsburgh, Pennsylvania

SPECIALIZED PROFESSIONAL DEVELOPMENT PROGRAMS (continued)

- Arsenic: Health and Remediation Applications**, 2012
National Institutes of Environmental Health and Safety, Research Triangle Park, North Carolina
- Training Module on Indigenous Peoples' Issues**, 2012
United Nations Permanent Forum on Indigenous Issues, New York, New York
- ISO 14000 (Environmental Management) Foundation**, 2011
Quality Systems Consulting Group, Newburyport, Massachusetts
- Principles of Environmental Toxicology**, 2010
University of Idaho, Moscow, Idaho
- The Fourier Transform and Its Applications**, 2010
Stanford Center for Professional Development, Stanford, California
- Development of Engineering Faculty**, 2009
University of Florida, Gainesville, Florida
- Life Cycle Assessment Methodologies**, 2008
Training, Research and Education for Environmental Occupations, Gainesville, Florida
- Water Conservation Certificate Program**, 2007
Training, Research and Education for Environmental Occupations, Gainesville, Florida
- Transfer Station and Materials Recovery Facility Operators Training**, 2006
Training, Research and Education for Environmental Occupations, Gainesville, Florida
- Leadership Foundations for Career Success**, 2003
University of Florida, Gainesville, Florida
- Effective Communications and Human Relations**, 2002
Dale Carnegie, Miami, Florida
- Role of Wetlands in Watershed Management**, 2000
Humboldt State University, Arcata, California
- 40-Hour Hazardous Materials Course**, 1998
Ecological Safety Services, Houston, Texas
- Constructed Wetlands for Wastewater Management**, 1996
Humboldt State University, Arcata, California
- Community Mediation**, 1996
Humboldt Mediation Center, Eureka, California
- Communication and Conflict Management**, 1995
Humboldt Mediation Center, Eureka, California
- Facilitation in Indigenous Issues**, 1993
United Nations Operations in Somalia, Mogadishu, Somalia
- Cross-Cultural Training**, 1991
International Training Center – CHP International, Naivasha, Kenya
- Mediation and Facilitation**, 1988
Center for Social Concerns, University of Notre Dame, Notre Dame, Indiana