

Shirley Vincent, PhD

Vincent Evaluation Consulting, LLC – Principal and Owner

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**Program Evaluation – Education Research – Grant Proposal Development – Applied Research – Multidisciplinary/Multi-organizational Collaboration – Strategy and Planning – Educator**

Experienced Evaluation and Education Research Professional with demonstrated abilities in providing innovative program evaluation, strategy, and planning services; developing and implementing education and applied research design protocols; developing, writing, and evaluating successful federal and foundation grant proposals; and working collaboratively with diverse teams. Advanced skills in qualitative and quantitative research methodologies and statistical analysis.

- Program evaluation: Serve as program evaluator for grant-funded higher education research projects and academic programs. Expertise in outcome mapping techniques to build reflection and learning into program evaluation, developmental evaluation to apply complexity concepts to enhance innovation, and creation of logic and theory of change models.
- Education research: Design and conduct empirical studies to further understanding of the fields of interdisciplinary environmental, sustainability, natural resources, and energy higher education, including convergence/synthesis learning, curriculum design, assessment, program structure and administration.
- Grant proposal development: Assist in developing collaborative grant proposals for various funding organizations (public and private), prepare research and evaluation reports, peer-reviewed and journalistic publications.
- Applied research: Design and implemented diverse applied research projects to inform and facilitate decision-making and policy-making processes.
- Multidisciplinary/multi-organizational collaboration: Participate in leadership teams comprised of multiple disciplines and organizations including four year and two colleges and universities, public and private organizations. Skilled in facilitating stakeholder participation in decision-making and policy processes.
- Strategy and planning consulting: Provide custom consulting services to colleges and universities to inform and advance their goals, including positioning the university in the national landscape, development of new schools and programs, and review of existing programs.
- Educator: Over ten years of experience teaching biological science and undergraduate research courses at community colleges and universities including Tulsa Community College, the University of Tulsa, and Oklahoma State University.

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## Education

Doctor of Philosophy, Environmental Science – Oklahoma State University (Phi Kappa Phi), 2010

Specialization in sustainability, environmental policy and education. Dissertation: *A Search for Identity: Exploring Core Competencies for Interdisciplinary Environmental Programs*. Graduate Research Excellence Award and Phoenix Award for Outstanding Doctoral Student.

Master of Science, Biological Sciences – University of Tulsa (Omicron Delta Kappa), 1991

Specializations in genetics, molecular and cellular biology. Thesis: *The Effects of Retrotransposon-derived Sequence Insertions on Gene Expression in a Model System*.

Bachelor of Science, Cellular Biology (Beta Beta Beta) – University of Tulsa, August 1986

## Professional Experience

Principal and Owner – Vincent Evaluation Consulting LLC, Tulsa OK (2018 - present)

Director, Research and Evaluation – National Council for Science and the Environment, Washington DC (2017-2018)

Director, Center for Environmental Education Research – National Council for Science and the Environment, Washington DC (2010-2017)

Associate Editor for North America, *International Journal of Sustainability in Higher Education* – Emerald Publishing (2015-2017)

Associate Editor, *Journal of Environmental Studies and Sciences* – Springer Publishing, Association for Environmental Studies and Sciences, Washington DC (2010-2013)

Research Fellow – National Council for Science and the Environment, Washington DC (2006-2010)

Director, Freshman Research Scholars Program – Office of Scholar Development and Recognition, Division of Academic Affairs, Oklahoma State University, Stillwater OK (2005-2008)

Vice President – Farpointer Technologies, Inc. (custom e-commerce solutions), Tulsa OK (1997-2003)

Project Director– Allied Video Corporation (K-12 educational videos and software), Tulsa OK (1995-1997)

Research Scientist – Transgenic Core Facility, Oklahoma Center for Molecular Medicine, University of Tulsa, Tulsa OK (1990-1995)

Research Scientist – Mervin Bovaird Center for Biotechnology at the University of Tulsa, Tulsa OK (1989-1990)

Visiting Instructor – Department of Biological Science, University of Tulsa, Tulsa OK (1989-1990)

Instructor – Department of Biological Science, Tulsa Community College, Tulsa OK (1989-1996)

### **Current Projects**

- External Evaluator - Biology Integration Institute (BII): Regional OneHealth Aerobiome Discovery Network (BROADN). Lead Institution: Colorado State University (Sept. 2021 – Aug. 2026) \$12,000,000.
- External Evaluator – NSF Research Traineeship-Understanding the Rules of Life (NRT-URoL): Building Resources for Interdisciplinary Training in Genomic and Ecosystem Science (BRIDGES). Lead institution: University of Arizona (Sept. 2020 – Aug. 2025) \$ 2,999,859.
- Co-Principal Investigator – NSF Improving Undergraduate STEM Education-Education and Human Resources (IUSE-EHR): Collaborative Research-A Next Generation Concept Inventory using Constructed Response for evaluating student knowledge of complex systems in environmental education. Lead institution: University of Northern Colorado (Sept. 2020 – Aug. 2023) \$1,077,241.
- External Evaluator - NSF Research Traineeship-Innovations at the Nexus of Food, Energy and Water Systems Program (NRT-INFIEWS): Interdisciplinary Training, Education and Research for Food-Energy-Water Systems (InTERFEWS). Lead institution: Colorado State University (Aug. 2018 – July 2023) \$2,994,781.
- External Evaluator - NSF Research Traineeship-Innovations at the Nexus of Food, Energy and Water Systems Program (NRT-INFIEWS): Global STEM Training at the Nexus of Energy, Water Reuse and Food Systems (Global STEWARDS). Lead institution: University of Maryland (Nov. 2019 – July 2023) \$3,000,000.
- Contributor - National Collaborative for Research on Food, Energy, and Water Education (ncfew.org).

### **Completed NSF-Funded Projects**

- External Evaluator – NSF Research Traineeship: Data-Enabled Science and Engineering (NRT-DESW): Computation and Mathematics for Biological Networks (COMBINE). Lead institution: University of Maryland (Nov. 2019 – July 2021) \$2,959,866.
- External Evaluator - NSF Research Coordination Network-Sustainability Research (SRS-RN): Urban Water Innovation Network: Transitioning toward Sustainable Urban Water Systems (UWIN). Lead institution: Colorado State University (Aug. 2015 – July 2021) \$12,000,000.
- External Evaluator – NSF Engineering Education: A Community Building Workshop on Energy, Earth and Environmental Education. Lead institutions: Carleton College and the Association of Environmental Studies and Sciences (July 2019 – Jan. 2020). \$49,743.
- External Evaluator - NSF Integrative Graduate Education and Research (IGERT): Coasts and Communities - Natural and Human Systems in Urbanizing Environments. Lead institution: University of Massachusetts-Boston (Sept. 2013 – Aug. 2019). \$3,000,000.
- Co-Principal Investigator and External Evaluator – Collaborative Research NSF Research Traineeship Innovations in Graduate Education (NRT-IGE): Employing Model-Based Reasoning

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in Environmental Science. Lead institution: University of Texas at El Paso (Sept. 2015 – Aug. 2018).  
\$3,000,000.

- Co-Principal Investigator – NSF Socioenvironmental Synthesis Center (SESYNC) Center Pursuit: Understanding, Teaching and Employing Model-based Reasoning in Socioenvironmental Synthesis. Lead institutions: University of Texas-El Paso, Tufts University. (Sept. 2013 – Aug. 2015).

### **Completed Consulting Projects**

- Applied Research Consultant – Aldo Leopold Foundation. Working with the foundation to design and implement research to learn about higher education faculty members' perceptions of ethics, inclusion of ethics in environmental and sustainability program curricula, and methods/needs for content delivery and assessment (Jan. 2017 – Jan. 2020).
- External Review – Smith College: Environmental Science and Policy Program (April 2019).
- Member - Northeast Transportation Workforce Center (NETWC) Environment Discipline. Working Group; an advisory group of interdisciplinary and action-oriented experts focused on advising and critiquing work directed at properly equipping students and workers with the skills, competencies, and experiences necessary to succeed in a transportation career advancing environmental and sustainability goals (March 2017 – Dec. 2018).
- Evaluation Consulting – University of Texas, Austin Planet Texas 2050 Grand Challenges Initiative (Aug. 2018).
- Colorado Mesa University – External Review: Environmental Science Program, College of Arts and Sciences (Feb. 2016).
- Suffolk University – External Review: Environmental Science and Studies Programs, College of Arts and Sciences (May 2015).
- University of Nebraska - Lincoln - Rapid Program Assessment: Environmental Studies Program; Program Director (April 2015).
- Duquesne University – External Review: Center for Environmental Education and Research, Bayer School of Natural and Environmental Sciences (Oct. 2014).
- Saint Cloud State University – External Review: Environmental Studies and Science Programs, Department of Environmental and Technological Studies, School of Computing, Engineering and Environment, College of Science and Engineering (April 2014).
- Passaic County Community College – New Degree Program Proposal Evaluation: Environmental Sustainability Associate of Science, Department of Science (Oct. 2013).
- W. M. Keck Foundation – Program Referee: Undergraduate Research Proposal from a major research university. (Sept. 2013).
- Warren Wilson College – Program Assessment and Strategic Analysis: Department of Environmental Studies (July 2013).
- Portland State University – External Review and Program Assessment and Strategic Analysis: Department of Environmental Science and Management, College of Liberal Arts and Sciences (May 2013).

- University of Connecticut – External Review and Program Assessment and Strategic Analysis: Environmental Science Program, College of Liberal Arts and Sciences and College of Agriculture and Natural Resources (April 2013).
- University of Massachusetts - Boston – Strategic Analysis and Perspectives Study for Implementing the new School of the Environment; Office of Academic Affairs, College of Science and Mathematics, Department of Environmental, Earth and Ocean Sciences (April 2013)
- University of Vermont – Consultation for Envisioning Environment Initiative; Envisioning Environment Work Group, Office of the President (Jan. 2013).
- James Madison University – Strategic Assessment: University’s Position in Environmental and Sustainability Education: Assessment of Existing Programs; Office of the Provost and Institute for Stewardship of the Natural World (April 2012).
- Burlington County College – New Program Development Stage II: Associate of Science in Sustainability; Vice President for Academic Affairs and NASA III Sustainability and Alternative Energy Education Grant (Feb. 2012).
- University of Delaware – Program Assessment and Strategic Analysis: Environmental Science and Studies Programs, College of Earth, Ocean and Environment (Dec. 2011).
- Burlington County College – New Program Development Stage I: Associate of Science in Sustainability; Vice President for Academic Affairs and NASA III Sustainability and Alternative Energy Education Grant (Nov. 2011).
- University of Michigan – Proposal Review: Program in the Environment Self-Study; Program in the Environment (Nov. 2011).
- University of Pittsburgh – Proposal Review: Institute for Environmental Change; Department of Geology and Planetary Science (Oct. 2011).
- Sewanee: University of the South – Strategic Analysis: Q methodology study to determine stakeholder perspectives on redesigning Environmental Studies Program; Environmental Studies Programs and Office of Sustainability (Oct. 2011).
- University of Wisconsin - Whitewater – Proposal Review: new undergraduate major in Environmental Sciences; College of Arts and Letters (Sept. 2011).
- Sewanee: University of the South – Presentations and facilitation of faculty workshop on redesigning the Environmental Studies Program; Environmental Studies Program and Office of Sustainability (Aug. 2011).
- Morgan State University – Program Assessment and Strategic Analysis: Bioenvironmental Sciences Doctoral Program Comparative Analysis; Office of the Provost (Aug. 2011).
- University of Vermont – Program Assessment and External Review: Environmental Studies Program; Rubenstein School of Environment and Natural Resources (June 2011).
- University of Massachusetts - Boston – Program Assessment and Strategic Analysis: Department of Environmental, Earth and Ocean Sciences; Office of Academic Affairs, College of Science and Mathematics, Department of Environmental, Earth and Ocean Sciences (May 2011).

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- University of Massachusetts - Boston – Strategic Analysis: Proposal to develop a School of the Environment; Office of Academic Affairs, College of Science and Mathematics, Department of Environmental, Earth and Ocean Sciences (May 2011).
- Tufts University – Rapid Program Assessment: Environmental Studies Program; Office of the Dean of Arts and Sciences (April 2011).
- University of Texas - Pan American – Program Development Workshop: Faculty Development Workshop on Developing Interdisciplinary Environmental and Sustainability Education Programs; Office of the Provost (April 2011).
- Indiana University - Bloomington – Program Assessment and Strategic Analysis: Environmental majors offered by the School of Public and Environmental Affairs; Dean of the School of Public and Environmental Affairs (March 2011).
- University of Wisconsin - Madison – Proposal Review: new undergraduate major in Environmental Sciences; Office of the Provost and Vice Chancellor for Academic Affairs (Nov. 2010).
- Florida Agricultural and Mechanical University – Program Assessment and Strategic Analysis: Environmental Sciences Institute; Environmental Sciences Institute (Oct. 2010).
- Oklahoma State University – Presentation: Structuring the Environmental Science Graduate Program; Environmental Science Graduate Program Task Force (Sept. 2010).
- Florida Agricultural and Mechanical University – Presentation: Implementing Sustainability across the Curriculum; Faculty Planning Conference - 2020 Vision with Courage: Excellence through the Creation of New Knowledge; Office of the President (August 2010).

### **Publications – Peer-reviewed Journal Articles**

Romulo, Chelsie, Shirley Vincent, Steven Anderson, Brian Tucker, Nicholas Babin, Barry Michnick, Camille Washington-Ottobre, Denielle Perry, Eunice Balavascunas, Becky Thomas, Dan Drukenbrod, Lisa Doner, Prajjwal Panday, Anne Toomey. 2022 (in preparation). Alignment among environmental programs in higher education: What Food-Energy-Water concepts are we covering in introductory courses? *International Journal of STEM Education*.

Pennington, Deana, Shirley Vincent, David Gosselin, Kate Thompson. 2021. Convergent Learning across Socio-Environmental Disciplines. *Socio-environmental Systems Modeling*, 3, 17895, doi:10.18174/sesmo.2021a17895.

Gosselin, David, Kate Thompson, Deana Pennington, and Shirley Vincent. 2020. Learning to be an Interdisciplinary Researcher: Incorporating Training about Dispositional and Epistemological Differences into Graduate Student Environmental Science Teams. *Journal of Environmental Studies and Sciences* 10(3): 310-326.

Garibay, Juan, Shirley Vincent, Paul Ong. 2020. Diversity Content in STEM?: How Faculty Values Translate into Curricular Inclusion Unevenly for Different Subjects in a Growing Interdisciplinary Field. *Journal of Women and Minorities in Science and Engineering* 26(1): 61-90.

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- Garibay, Juan and Shirley Vincent. 2018. Racially Inclusive Climates within Degree Programs and Increasing Student of Color Enrollment: An Examination of Environmental/Sustainability Programs. *Journal of Diversity in Higher Education* 11(2): 201-220.
- Trencher, Gregory, Shirley Vincent, Kyle Bahr, Shogo Kudo, Kate Markham, and Yasuhiro Yamanaka. 2018. Effectiveness of key competency development in 14 sustainability and environmental master's programs, *Journal of Cleaner Production* 181: 829-841.
- Thompson, Kate, David Gosselin, Simon Knight, Roberto Martinez-Maldonado, Roderic Parnell, Deana Pennington, Julia Svoboda-Gouvea, Shirley Vincent, and Penny Wheeler. 2017. Designing the EMBeRS Summer School: Connecting Stakeholders in Learning, Teaching and Research. Chen, W. et al. (Eds.). *Proceedings of the 25th International Conference on Computers in Education*. New Zealand: Asia-Pacific Society for Computers in Education.
- Vincent, Shirley. 2017. Response: Theory in, theory out: NCSE and the ESS curriculum. *Journal of Environmental Studies and Sciences* 7(2): 200-204.
- Gosselin, Dave, Shirley Vincent, Antje Danielson, Christopher Boone, Deana Pennington. 2016. Introduction to the special issue: Negotiating Boundaries: Effective Leadership of Interdisciplinary Environmental and Sustainability Programs, *Journal of Environmental Studies and Sciences* 6(2): 268-274.
- Pennington, Deana, Gabriele Bammer, Antje Danielson, David Gosselin, Julia Svoboda Gouvea, Geoffrey Habron, Roderic Parnell, Kate Thompson, and Shirley Vincent. 2016. The EMBeRS Project: Employing Model-Based Reasoning in Socio-Environmental Synthesis. *Journal of Environmental Studies and Sciences* 6 (2): 278-286.
- Vincent, Shirley and Katelyn Dutton. 2016. Three perspectives on U.S. on interdisciplinary environmental and sustainability program leadership: a review of the findings of the Center for Environmental Education Research of the National Council for Science and the Environment 2003-2014. *Journal of Environmental Studies and Sciences* 6(2): 405-417.
- Vincent, Shirley, J. Timmons Roberts and Stephen Mulkey. 2016. Interdisciplinary environmental and sustainability education: islands of progress in a sea of dysfunction. *Journal of Environmental Studies and Sciences* 6(2): 418-424.
- Vincent, Shirley. 2016. Trends in Interdisciplinary Environmental and Sustainability Programs. *Environmental Manager: Special Issue on Campus Sustainability Programs: Walking the Talk*. Air and Waste Management Association, October, p. 22-27.
- Garibay, Juan, Paul Ong and Shirley Vincent. 2016. Program and institutional predictors of environmental justice inclusion in U.S. post-secondary environmental and sustainability curricula. *Environmental Education Research*, 22(7): 919-942.

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Vincent, Shirley and Stephen Mulkey. 2015. Transforming U.S. higher education to support sustainability science for a resilient future: the influence of institutional administrative organization. *Environment, Development and Sustainability*, special issue on Environmental Education for Sustainable Development 17(2): 341-363.

Perkins, John H., Catherine Middlecamp, David Blockstein, Jennifer Rivers Cole, Robert H Knapp, Kathleen M. Saul and Shirley Vincent. 2014. Energy Education and the Dilemma of Mitigating Climate Change. *Journal of Environmental Studies and Sciences* 4(4): 354-359.

Gosselin, David, Rod Parnell, Nick Smith-Sebasto and Shirley Vincent. 2013. Integration of sustainability in higher Education: Three cases of curricular implementation. *Journal of Environmental Studies and Sciences* 3(3): 316-330.

Vincent, Shirley and Will Focht. 2011. Interdisciplinary Environmental Programs: Elements of Field Identity and Curriculum Design. *Journal of Environmental Studies and Sciences* 1(1): 14-35.

Vincent, Shirley and Will Focht. 2010. In Search of Common Ground: Exploring Identity and the Possibility of Core Competencies for Interdisciplinary Environmental Programs. *Environmental Practice* 12(1): 76-86.

Vincent, Shirley and Will Focht. 2009. U. S. Higher Education Environmental Program Managers' Perspectives on Curriculum Design and Core Competencies: Implications for Sustainability as a Guiding Framework. *International Journal of Sustainability in Higher Education* 10(2): 164-183.

Vincent, Shirley and Thomas Shriver. 2009. Framing Contests in Environmental Decision-making: A Case Study of the Tar Creek (Oklahoma) Superfund Site. *American Journal of Environmental Science* 5(2): 164-178.

Nadon, Nancy L., Shirley G. Miller (Vincent), Karen D. Draeger, and Michelle Salvaggio. 1997. Myelin proteolipid DM20: evidence for function independent of myelination. *International Journal of Developmental Neuroscience* 15(3): 285-293.

Wells (Vincent) S.G. and K.S. Miller. 1992. The Effects of Retrotransposon-Derived Sequence Insertions on Gene Expression in a Model System. *Cellular and Molecular Biology* 38(2): 159-169.

Wells (Vincent) S.G. and K.S. Miller. 1990. A Rapid and Sensitive Neomycin Phosphotransferase II Assay Suitable for Optimizing Cell Transfection Protocols. *BioTechniques* 8(4): 390-391.

### **Publications – Research Reports and Book Chapters**

Koshollek, Alanna, Buddy Huffaker, Lillie Herbst, Shirley Vincent. 2020. *Where are Ethics in Environmental and Sustainability Higher Education Programs in the U.S.?* The Aldo Leopold Foundation.

Vincent, Shirley, Sumedha Rao, et al. 2017. *Scope of Interdisciplinary Environmental, Sustainability, and Energy Baccalaureate and Graduate Education in the United States*. National Council for Science and the Environment, Washington, DC.



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- Vincent, Shirley, Katelyn Dutton, Rica Santos and Lilah Sloane. 2015. *Interdisciplinary Environmental and Sustainability Education and Research: Leadership and Administrative Structures*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, Antje Danielson and Rica Santos. 2015. Interdisciplinary Environmental and Sustainability Education and Research: Institutes and Centers at U.S. Research Universities. In Leal Filho, W., Brandli, L. and Kuznetsova, O. and A. Paco (Eds.) *Integrative Approaches to Sustainable Development at University Level: Making the Links*, World Sustainable Development Book Series, Springer-Verlag, Berlin, Germany.
- Vincent, Shirley, Rica Santos, Louise Cabral, and Stevenson Bunn. 2014. *Interdisciplinary Environmental and Sustainability Education and Research: Results from a Census of Community Colleges*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, Rica Santos, and Louise Cabral. 2014. *Interdisciplinary Environmental and Sustainability Education and Research: Institutes and Centers at Research Universities*. National Council for Science and the Environment, Washington, DC.
- Garibay, Juan, Paul Ong and Shirley Vincent. 2014. *Inclusion of Environmental Justice Curricular Content in Interdisciplinary Environmental and Sustainability Degree Programs*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, Stevenson Bunn and Lilah Sloane. 2013. *Interdisciplinary Environmental and Sustainability Education on the Nation's Campuses: Curriculum Design*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, Stevenson Bunn and Sarah Stevens. 2013. *Sustainability Education: Results from the 2012 Census of Four-Year Colleges and Universities*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, David Blockstein, Stevenson Bunn and Sarah Stevens. 2013. *Non-traditional and Broad Energy Education: Results from the 2012 Census of Four-Year Colleges and Universities*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley, Stevenson Bunn and Sarah Stevens. 2012. *Interdisciplinary Environmental Education on the Nation's Campuses: Results from the 2012 Census of Four-Year Colleges and Universities*. National Council for Science and the Environment, Washington, DC.
- Vincent, Shirley. 2011. *Interdisciplinary Environmental Education: Elements of Field Identity, Core Competencies, and Curriculum Design for Higher Education Degree Programs*. Lambert Academic Publishing: SaarBrücken, Germany, ISBN 978-3-8465-4696-3.
- Vincent, Shirley. 2010. *Interdisciplinary Environmental Education on the Nation's Campuses: Elements of Field Identity and Curriculum Design*. National Council for Science and the Environment, Washington, DC.

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Vincent, Shirley. 2010. *Interdisciplinary Environmental Education. Results of the Council of Environmental Deans and Directors National Study of U.S. Interdisciplinary Environmental Programs*. National Council for Science and the Environment, Washington, DC.

Vincent, Shirley and Will Focht. 2009. *Perspectives on Environmental Program Curricula and Core Competencies: a report of the Curriculum Committee of the Council of Environmental Deans and Directors*. National Council for Science and the Environment, Washington, DC.

Vincent, Shirley and Will Focht. 2006. "Section E: Enhancing LCA with Stakeholder Assessment." In grant report for R-829423-01-0: *New Methods in Environmental Remediation, Monitoring, and Life Cycle Assessment*. United States Environmental Protection Agency, Washington, DC.

### **Presentations: Invited Speaker**

- Invited Speaker: NRT Research Traineeship Annual Meeting: Shaping 21<sup>st</sup> Century STEM Graduate Education. Evaluation Perspectives Session: Building Energy-Food-Water-Systems Graduate Education Capacities. January 28-29, 2021, Virtual.
- Invited Panelist: NSF Research Traineeship Annual Meeting. Measuring, Evaluating and Reporting Impact Panel. September 25-27, 2019, Northwestern University, Chicago, IL.
- Invited Presentation to the NSF Board: National Science Foundation. Environmental Education and Workforce Diversity. National Science Foundation Advisory Committee on Environmental Education and Research. March 5-6, 2014, Washington DC.
- Keynote Address: World Symposium on Sustainable Development at Universities. Interdisciplinary Environmental and Sustainability Education and Research: Institutes and Centers at U.S. Research Universities. Second World Symposium on Sustainable Development at Universities. September 3-5, 2014, Manchester, United Kingdom.
- Keynote Address: Association for Environmental Science and Studies. The State of Environmental Science and Studies. Association for Environmental Science and Studies Conference: Linking Rural and Urban Societies and Ecologies, June 19-22, 2013, Pittsburg, PA.
- Invited Presentation to the EPA Office of Research and Development. Interdisciplinary Environmental and Sustainability Programs Study: How are higher education institutions training environmental leaders and thinking about sustainability? U.S. Environmental Protection Agency Office of Research and Development, January 20, 2012, Washington DC.
- Invited Speaker: Florida A&M University. Sustainability across the Curriculum. Panelist presentation and discussion for the Green Campus Roundtable held during the Focus on the Environment Week: Working towards a Sustainable FAMU, March 29, 2010, Tallahassee, FL.
- Invited Speaker: University of Michigan. Transition from Student to Environmental Professional: Knowledge and Skills for Success. Public lecture presented for the Program in

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the Environment Lecture Series hosted by the Program in the Environment, March 31, 2009, Ann Arbor, MI.

- Keynote Address: National Environmental Studies and Science Summit. 2008. Environmental Programs: Identity and Curriculum; Prescription for Sustainable Prosperity. National Environmental Studies and Science Summit, May 22-24, 2008, Jonesboro, AR.
- Invited Speaker: Aligning Homeland Security and Environmental Protection. Aligning Homeland Security and Environmental Protection. Aligning Homeland Security and Environmental Protection, a public forum of representatives of federal, state and local governments, April 28, in Tulsa, OK (see Schafer, Shaun. 2003 "Environmental Protection Reborn." *Tulsa World*, May 4, News section).

### **Symposia, Panels and Workshops Organized and Led**

- Symposium: Improve Collaboration for Building Resilience: Leverage Differences among Collaborators 2018. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Science, Business and Education of Sustainable Infrastructure. January 23-25, Washington, DC.
- Workshop: Improve Collaboration for Building Resilience: Leverage Differences among Collaborators 2018. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Symposium: Co-creating Research on Integrated Environment and Health Problems using Model Based Reasoning. 2017. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: Co-creating Research on Integrated Environment and Health Problems using Model Based Reasoning 2017. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: Facilitating Socio-Environmental Synthesis: Employing Model-Based Reasoning Interdisciplinary Collaboration. 2016. Association for Environmental Studies and Sciences Conference: Science, Empathy, Collaboration and Sustainability, June 8-11, Washington DC.
- Symposium: Sustainability Education at the Food-Energy-Water Nexus: Ongoing Research. 2016. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: Sustainable Food-Water-Energy Nexus Education. 2016. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.

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- Workshop: 2015. Decisions, Information, Data and Systems: Putting it all Together. National Council for Science and the Environment Conference on Science, Policy and the Environment: Energy and Climate. January 27-29, Washington, DC.
- Panel: Panel Discussion: Interdisciplinary Environmental and Sustainability Institute and Centers at U.S. Research Universities. 2014. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, June 9-11, Rye Brook, NY.
- Panel: Relationships between Interdisciplinary Environmental Education and Sustainability Education Degree Programs: Transitions and Transformations. 2011. Association for Environmental Studies and Sciences Conference: Environment: Confronting Complexity, June 23-26, Burlington, Vermont.
- Panel: Sustainability and the Environmental Studies and Science Curriculum. 2010. Association for Environmental Studies and Sciences Conference: Environment: Many Shades of Green, June 17-20, Portland, OR.
- Panel: Curriculum Reform in Environmental Studies and Sciences. 2009. Association for Environmental Studies and Sciences Conference: Environment: The Interdisciplinary Challenge, October 8-11, Madison, WI.
- Panel: Conflict and Resolution. 2009. Association for Environmental Studies and Sciences Conference: Environment - The Interdisciplinary Challenge, October 8-11, Madison, WI.
- Discussion Session: CEDD Curriculum Study: Influences on Success and Trends. 2009. National Council for Science and the Environment, Council of Environmental Deans and Directors Summer Conference, July 7-9, Warrenton, VA.
- Panel: Perspectives on Sustainability Curricula. 2008. Association for the Advancement of Sustainability Conference 2008: Working Together for Sustainability: On Campus and Beyond, November 10-12, Raleigh, NC.
- Discussion Session: CEDD Curriculum Study: Survey of Program Leaders. 2008. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, July 15-17, Stevenson, WA.
- Symposium: Sustainability Curricula: Knowledge, Skills and Experiential Learning. 2008. Society for Human Ecology XVI International Conference, Integrative Thinking for Complex Futures: Creating Resilience in Human-Nature Systems, September 10-13, Bellingham, WA.
- Discussion Session: Core competencies for Environmental Science and Studies Programs. 2008. Third National Environmental Studies and Science Summit, May 22-24, Jonesboro, AR.

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- Panel: Integrating Undergraduate Research and Scholarship Advising. 2007. National Association of Fellowship Advisors Fourth Biennial Conference: Scholarships in a National Context, July 24-28, Washington, DC.
- Discussion Session: Census Survey of U.S. Higher Education Environmental Programs. 2007. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, June 5-7, Skaneateles, NY.
- Workshop: Curriculum Task Force. 2004. National Council on Science and the Environment, Council of Environmental Deans and Directors Annual Winter Business Meeting, January 31-February 1, Washington, DC.
- Public Forum: Aligning Homeland Security and Environmental Protection. 2003. Oklahoma State University, April 28, Tulsa, OK. (Schafer, Shaun. 2003. Environmental Protection Reborn." *Tulsa World*, May 4, News section)
- Symposium: Improve Collaboration for Building Resilience: Leverage Differences among Collaborators 2018. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Science, Business and Education of Sustainable Infrastructure. January 23-25, Washington, DC.
- Workshop: Improve Collaboration for Building Resilience: Leverage Differences among Collaborators 2018. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Symposium: Co-creating Research on Integrated Environment and Health Problems using Model Based Reasoning. 2017. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: Co-creating Research on Integrated Environment and Health Problems using Model Based Reasoning 2017. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: Facilitating Socio-Environmental Synthesis: Employing Model-Based Reasoning Interdisciplinary Collaboration. 2016. Association for Environmental Studies and Sciences Conference: Science, Empathy, Collaboration and Sustainability, June 8-11, Washington DC.
- Symposium: Sustainability Education at the Food-Energy-Water Nexus: Ongoing Research. 2016. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.

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- Workshop: Sustainable Food-Water-Energy Nexus Education. 2016. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.
- Workshop: 2015. Decisions, Information, Data and Systems: Putting it all Together. National Council for Science and the Environment Conference on Science, Policy and the Environment: Energy and Climate. January 27-29, Washington, DC.
- Panel: Panel Discussion: Interdisciplinary Environmental and Sustainability Institute and Centers at U.S. Research Universities. 2014. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, June 9-11, Rye Brook, NY.
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- Panel: Sustainability and the Environmental Studies and Science Curriculum. 2010. Association for Environmental Studies and Sciences Conference: Environment: Many Shades of Green, June 17-20, Portland, OR.
- Panel: Curriculum Reform in Environmental Studies and Sciences. 2009. Association for Environmental Studies and Sciences Conference: Environment: The Interdisciplinary Challenge, October 8-11, Madison, WI.
- Panel: Conflict and Resolution. 2009. Association for Environmental Studies and Sciences Conference: Environment - The Interdisciplinary Challenge, October 8-11, Madison, WI.
- Discussion Session: CEDD Curriculum Study: Influences on Success and Trends. 2009. National Council for Science and the Environment, Council of Environmental Deans and Directors Summer Conference, July 7-9, Warrenton, VA.
- Panel: Perspectives on Sustainability Curricula. 2008. Association for the Advancement of Sustainability Conference 2008: Working Together for Sustainability: On Campus and Beyond, November 10-12, Raleigh, NC.
- Discussion Session: CEDD Curriculum Study: Survey of Program Leaders. 2008. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, July 15-17, Stevenson, WA.
- Symposium: Sustainability Curricula: Knowledge, Skills and Experiential Learning. 2008. Society for Human Ecology XVI International Conference, Integrative Thinking for Complex Futures: Creating Resilience in Human-Nature Systems, September 10-13, Bellingham, WA.

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- Discussion Session: Core competencies for Environmental Science and Studies Programs. 2008. Third National Environmental Studies and Science Summit, May 22-24, Jonesboro, AR.
- Panel: Integrating Undergraduate Research and Scholarship Advising. 2007. National Association of Fellowship Advisors Fourth Biennial Conference: Scholarships in a National Context, July 24-28, Washington, DC.
- Discussion Session: Census Survey of U.S. Higher Education Environmental Programs. 2007. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Conference, June 5-7, Skaneateles, NY.
- Workshop: Curriculum Task Force. 2004. National Council on Science and the Environment, Council of Environmental Deans and Directors Annual Winter Business Meeting, January 31-February 1, Washington, DC.
- Public Forum: Aligning Homeland Security and Environmental Protection. 2003. Oklahoma State University, April 28, Tulsa, OK. (Schafer, Shaun. 2003. Environmental Protection Reborn." *Tulsa World*, May 4, News section).

#### **Presentations: International Conferences**

Manzanares, Amanda, Lydia Horne, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021.

Conceptual change in food, energy, water (FEW) concepts: the role of interest, self-efficacy, and transformative experience. Association for Psychological Science Convention, May 26-27, Virtual.

Manzanares, Amanda, Lydia Horne, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021. What undergraduate students know about the Food-Energy-Water (FEW) Nexus. American Institute of Professional Geologists. October 23-26, Virtual.

Horne, Lydia, Amanda Manzanares, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021. Creating a Tool to Measure Student Learning of Food-Energy-Water Concepts. Indiana University-Purdue University Indianapolis Assessment Institute, October 24-27, Virtual.

Manzanares, Amanda, Lydia Horne, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021. Students prior knowledge and alternative conceptions regarding food, energy and water. Association for Environmental Studies and Science Conference: Community, Commitment, Collaboration – Moving Toward a Just Future. June 18-July 1, Virtual.

Horne, Lydia, Amanda Manzanares, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021. What Food-Energy-Water topics are taught in higher education interdisciplinary environmental programs? Association for Environmental Studies and Science Conference: Community, Commitment, Collaboration – Moving Toward a Just Future. June 18-July 1, Virtual.

Horne, Lydia, Amanda Manzanares, Steve Anderson, Shirley Vincent Romulo, Chelsie. 2021. Alignment among environmental programs in higher education: What Food-Energy-Water

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concepts are we covering in introductory courses? International Association for Society and Natural Resources Conference: Building a Global Network for Natural Resource Social Science. June 20-24. Virtual.

Manzanares, Amanda, Lydia Horne, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021. Creating a tool to assess students' knowledge of FEW concepts. NSF STEM for All Video Showcase: Covid, Equity and Social Justice. May 11-18 Virtual. Link to video: <http://videohall.com/p2134>.

Romulo, Chelsie, Shirley Vincent, Steve Anderson. 2020. What are We Teaching in Introductory Environmental Courses, What is Missing, and What to do About It? Geological Society of America Annual Meeting, October 26-30, Virtual.

Romulo, Chelsie, Shirley Vincent, Steve Anderson. 2020. Introducing a Next Generation Concept Inventory using Constructed Response for Evaluating Student Knowledge of Complex Systems in Environmental Education. Geological Society of America Annual Meeting, October 26-30, Virtual.

Romulo, Chelsie, Steve Anderson, Shirley Vincent. 2020. Alignment among environmental programs in higher education: What are we covering in introductory courses? Association for Environmental Studies and Science Conference: Research and Action. July 15-17, Virtual.

Romulo, Chelsie, Steve Anderson, Shirley Vincent. 2020. What's Missing in ESS and What to do About It: Introductory Courses. Association for Environmental Studies and Science Conference: Research and Action. July 15-17, Virtual.

Pennington, Deana D., Dave Gosselin, Shirley Vincent, Kate Thompson. 2020. Learning to Converge Across Disciplines. American Geophysical Union Fall Meeting Dec. 1-17, Virtual.

Vincent, Shirley, Deana Pennington, Robert Chen, Alan Berkowitz and Aude Lochet. 2019. Evaluating Transdisciplinary, Sustainability-focused Higher Education Programs: Using Transdisciplinary Orientation as a Performance Measure in Three NSF-Funded Program Contexts. Science of Team Science Conference: Building the Knowledge Base for Effective Team Science, May 20-23, Lansing, MI.

Romulo, Chelsie, Shirley Vincent, Steve Anderson. 2019. Proposing a modified concept inventory method to evaluate a systems approach to environmental education. Association for Environmental Studies and Science Conference: Sustainable Futures. June 26-29, University of Central Florida, Orlando, FL.

Pennington, Deana, Kate Thompson, Shirley Vincent, Dave Gosselin. 2019. Deep Knowledge Integration across Disciplines: The EMBeRS Method. Science of Team Science Conference: Building the Knowledge Base for Effective Team Science, May 20-23, Lansing, MI.



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Pennington, Deana, Shirley Vincent, Dave Gosselin, and Kate Thompson. 2018. EMBeRS: A Best Practice for Enabling Interdisciplinary Learning, Synthesis and Convergence. American Geophysical Union Annual Meeting, December 10-14, Washington DC.

Thompson, Kate, David Gosselin, Simon Knight, Roberto Martinez-Maldonado, Roderic Parnell, Deana Pennington, Julia Svoboda-Gouvea, Shirley Vincent, and Penny Wheeler. 2017. Designing the EMBeRS Summer School: Connecting Stakeholders in Learning, Teaching and Research. 25th International Conference on Computers in Education, Asia-Pacific Society for Computers in Education, December 3-7, Christchurch, New Zealand.

Garibay, Juan, Shirley Vincent, and Matthew Ericson 2017. Do Content Values Translate To Curricular Inclusion Similarly Across Subjects?: Comparing Diversity Content to Other Subject Areas in Interdisciplinary Environmental And Sustainability Programs. Association for the Study of Higher Education Annual Conference, November 8-11, Houston, TX.

Vincent, Shirley 2016. Sustainability Core Competencies in Interdisciplinary Environmental and Sustainability Degree Programs. National Council for Science and the Environment Conference on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, Washington, DC.

Blockstein, David, Shirley Vincent, and Rob Long 2016. International Workshop on Energy Education, September 5-7, Kyoto University, Kyoto, Japan.

Gosselin, Dave, Deana Pennington and Shirley Vincent. 2016. Negotiating Boundaries: Effective Leadership of Interdisciplinary Environmental and Sustainability Programs. Science of Team Science Conference, May 16-19, Phoenix, AZ.

Vincent, Shirley. 2015. Aligning sustainability education with the needs of business. Association for the Advancement of Sustainability in Higher Education Conference: Transforming Sustainability Education, October 25-28, Minneapolis, MN.

Vincent, Shirley. 2015. Three perspectives on interdisciplinary environmental and sustainability program leadership: an analysis of the views of program leaders. Association for Environmental Science and Studies Conference: Confronting Frontiers, Borders and Boundaries, July 24-27, San Diego, CA.

Garibay, Juan, Paul Ong and Shirley Vincent. 2015. The "Other" Climate Issue in Environmental Education: How a Climate of Inclusion Impacts Racial/Ethnic Diversity. Paper Session on Environmental Education across Subjects and Milieus: Investigating Student Learning and Inclusive Climate. American Educational Research Association Annual Meeting: Toward Justice: Culture, Language, and Heritage in Education Research and Praxis, April 16-20, Chicago, IL.

Vincent, Shirley. 2014. Three Views on Interdisciplinarity: Results from a National Survey. Association for Environmental Science and Studies Conference: Welcome to the Anthropocene: From Global Challenge to Planetary Stewardship, June 11-14, New York, NY.

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- Garibay, Juan, Paul Ong and Shirley Vincent, 2014. Examining the Inclusion of Environmental Justice Curricular Content in Interdisciplinary Environmental and Sustainability Degree Programs: A Recursive Path Analysis. Association for the Study of Higher Education Annual Conference, November 19-22, Washington, DC.
- Vincent, Shirley. 2013. IES Program Assessment: the National View. Association for Environmental Science and Studies Conference: Linking Rural and Urban Societies and Ecologies, June 19-22, Pittsburg, PA.
- Vincent, Shirley. 2013. Results from the NCSE 2013 Survey: Assessment in Interdisciplinary Environmental and Sustainability Programs. Panel on Interdisciplinary Environmental Program Team USA: Linking Assessment, Professional Competencies and Careers Panel. Association for Environmental Science and Studies Conference: Linking Rural and Urban Societies and Ecologies, June 19-22, Pittsburg, PA.
- Vincent, Shirley. 2012. Trends in Interdisciplinary Environmental and Sustainability Education. Association for Environmental Studies and Science Conference: Preparing for our Environmental Future, June 21-24, Santa Clara, CA.
- Vincent, Shirley. 2011. Education for a Sustainable Society. Panel on Environmental Education and Sustainability Education Degree Programs: Transitions and Transformations. Association for Environmental Studies and Science Conference: Confronting Complexity, June 23-26, Burlington, VT.
- Vincent, Shirley. 2010. Interdisciplinary Environmental Education: Three Approaches to Sustainability. Association for the Advancement of Sustainability in Higher Education Conference 2010: Campus Initiatives to Catalyze a Just and Sustainable World, October 10-12, Denver, CO.
- Vincent, Shirley. 2010. Approaches to Sustainability in ESS Program Curricula. Association for Environmental Studies and Science Conference: Many Shades of Green, June 17-20, Portland, OR.
- Vincent, Shirley. 2009. Mobilizing STEM Education for a Sustainable Future. Panel at the National Council for Science and the Environment-Council of Environmental Deans and Directors Annual Summer Conference, July 7-9, Warrenton, VA.
- Vincent, Shirley and Will Focht. 2009. In Search of Common Ground: Exploring Identity and the Possibility of Core Competence Prescriptions for Interdisciplinary Environmental Programs. Association for Environmental Studies and Science Conference: Environment – The Interdisciplinary Challenge, October 8-12, Madison, WI.
- Vincent, Shirley. 2008. Evidence for the Emergence of Sustainability as a Guiding Principle for Environmental Programs. Association for the Advancement of Sustainability Conference 2008: Working Together for Sustainability -- On Campus and Beyond, November 10-12, Raleigh, NC.

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Focht, Will and Shirley Vincent. 2008. Environmental Programs: Identity and Curriculum; Prescription for Sustainable Prosperity. 14<sup>th</sup> International Interdisciplinary Conference on the Environment, June 30-July 3, Edmonton, Alberta, Canada.

Vincent, Shirley. 2008. A Survey of Interdisciplinary Environmental Program Leaders: Can Sustainability Serve as a Guiding Framework for Core Competencies? Society for Human Ecology XVI International Conference, Integrative Thinking for Complex Futures: Creating Resilience in Human-Nature Systems, September 10-13, Bellingham, WA.

Vincent, Shirley. 2007. Fellowship Preparation Courses: How to establish one on enduring pedagogical and philosophical bases. Panel at the National Association of Fellowship Advisors Fourth Biennial Conference: Scholarships in a National Context, July 24-28, Washington, DC.

Vincent, Shirley and Will Focht. 2006. Understanding the Sociopolitical Context of Remediation Technology Acceptance: A Case Study of the Tar Creek (Oklahoma) Superfund Site. XIV International Conference of the Society for Human Ecology, October 18-21, Bar Harbor, ME.

Vincent, Shirley and Will Focht. 2004. Perspectives on University Environmental Program Curricula. Fourth SETAC World Congress and 25<sup>th</sup> Annual Meeting in North America of the Society of Environmental Toxicology and Chemistry, November 14-18, Portland, OR.

Focht, Will and Shirley Vincent. 2003. Perspectives on University Environmental Program Curricula, International Society for the Study of Subjectivity 19<sup>th</sup> Annual Q Conference, October 2-4, Canton, OH.

### **Presentations: National Conferences**

Manzanares, Amanda, Lydia Horne, Steve Anderson, Shirley Vincent, Chelsie Romulo. 2021.

Student Understanding of Food-Energy-Water Nexus Concepts in Introductory Interdisciplinary Environmental Programs. Earth Educators' Rendezvous, June 12-16, Virtual,

Murray, Rianna, Gili Marbach-Ad, Kelsey McKee, Shirley Vincent, Amy Sapkota. 2021. Experiential Graduate Course Prepares Interdisciplinary Future Leaders to Innovate at the Food-Energy-Water Nexus. American Educational Research Association Conference, April 9-12, Orlando, FL.

Aude Lockett, Alan Berkowitz, Shirley Vincent, Geoffrey Habron, Alex Maas, and Dave Gosselin. 2018. Building Transdisciplinary Skills among Undergraduate Students through Summer Research Experiences. Council of Undergraduate Research Biennial Conference, July 1-3, Arlington, VA.

Vincent, Shirley. 2017. 2016 Census Summary. National Council for Science and the Environment, Council of Environmental Deans and Directors Summer Meeting, June 19-21, Tucson, Arizona.

Vincent, Shirley. 2017. NCSE Center for Environmental Education Research (CEER): 2017 Reports and Core Competencies Project. National Council for Science and the Environment, Council of Environmental Deans and Directors Winter Meeting, January 26-27, Washington, DC.

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- Vincent, Shirley. 2015. Three perspectives on interdisciplinary environmental and sustainability program leadership: an analysis of the views of program leaders. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 22-24, Washington, DC.
- Vincent, Shirley. 2015. Center for Environmental Education Research Update. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 29-30, Washington, DC.
- Vincent, Shirley. 2014. Interdisciplinary Environmental and Sustainability Education, Research, and Outreach – Community College Census. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 9, New York, New York.
- Vincent, Shirley. 2014. Community College Census. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 31, Washington, DC.
- Vincent, Shirley. 2013. The NCSE Research Program. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 17-19, Pittsburg, PA.
- Vincent, Shirley. 2013. Trends in Interdisciplinary Environmental and Sustainability Education. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 18, Washington, DC.
- Vincent, Shirley. 2012. Results from the 2012 Census of U.S. Four Year Colleges and Universities. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 21-23, San Jose, California.
- Vincent, Shirley. 2012. IE and Sustainability Programs Study and Customized Consulting Services Update. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 21, Washington, DC.
- Vincent, Shirley. 2011. Interdisciplinary Environmental and Sustainability Programs Study: 2011 Update and Related Services. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 21-23, Lake Champlain, Vermont.
- Vincent, Shirley. 2011. Interdisciplinary Environmental Programs Research and Assessment. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 22, Washington, DC.
- Vincent, Shirley. 2010. CEDD Curriculum Study: Influences on Success and Trends. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 7-9, Boulder, CO.

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- Vincent, Shirley. 2010. CEDD Curriculum Study: Summary and Next Steps. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 23, Washington, DC.
- Focht, Will and Shirley Vincent. 2009. Three Paths to Environmental Sustainability Education: Science, Governance, and Management. Presentation given at the Interdisciplinary Environmental Association Second Roundtable on Environmental Science and Study, July 9-11, Daytona Beach Shores, FL.
- Vincent, Shirley and Will Focht. 2009. CEDD Curriculum Study: Key Findings. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 7-9, Warrenton, VA.
- Vincent, Shirley and Will Focht 2009. CEDD Curriculum Study: Influences on Success and Trends. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 7-9, Warrenton, VA.
- Vincent, Shirley and Will Focht. 2009. CEDD Curriculum Study: Sustainability in U.S. Environmental Programs. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 7-9, Warrenton, VA.
- Focht, Will and Shirley Vincent. 2009. CEDD Curriculum Study: Curricular Models and Core Competency Areas. Interdisciplinary Environmental Association First Roundtable on Environmental Science and Study, March 1-3, Daytona Beach, FL.
- Vincent, Shirley and Will Focht. 2008. CEDD Curriculum Study: Curricular Models and Core Competency Areas. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, December 7, Washington, DC.
- Vincent, Shirley and Will Focht. 2008. CEDD Curriculum Study: Survey of Program Leaders. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 15-17, Stevenson, WA.
- Vincent, Shirley and Will Focht. 2008. CEDD Curriculum Study. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Winter Meeting, January 19, Washington, DC.
- Vincent, Shirley. 2007. Aligning Undergraduate Research and Scholar Development. National Association of Fellowship Advisors Fourth Biennial Conference: Scholarships in a National Context, July 24-28, Washington, DC.
- Vincent, Shirley. 2007. Oklahoma State University's Scholar Preparation Course. National Association of Fellowship Advisors Fourth Biennial Conference: Scholarships in a National Context, July 24-28, Washington, DC.

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Vincent, Shirley and Will Focht. 2007. Census Survey of U.S. Higher Education Environmental Programs. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, June 5-7, Skaneateles, NY.

Focht, Will and Shirley Vincent. 2005. CEDD Curriculum Study: Major Findings. National Council for Science and the Environment-Council of Environmental Deans and Directors Annual Winter Meeting, February 4, Washington, DC.

Focht, Will and Shirley Vincent. 2003. Curriculum Study: Next Steps. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 9, Warrenton, VA.

Focht, Will and Shirley Vincent. 2003. Survey of PKAL Participant Perspectives on Environmental Curricula. Project Kaleidoscope Assembly: Taking Advantage of New Opportunities for Environmental Sciences, September 19-21, Portland, OR.

Focht, Will, and Shirley Vincent. 2003. Study of Environmental Deans' and Directors' Perspectives on Environmental Curriculum. National Council for Science and the Environment, Council of Environmental Deans and Directors Annual Summer Meeting, July 16-18, Keystone, CO.

#### **Leadership: Elected Positions**

- Associate Editor for North America, International Journal of Sustainability in Higher Education, Emerald Publishing (2015-2017)
- Associate Editor, Journal of Environmental Studies and Sciences, the official journal of the Association for Environmental Studies and Science (2010-2013)
- Conference Committee Co-Chair for Curriculum, Association for the Advancement of Sustainability in Higher Education (2011, 2012)
- Special Advisor to the Board of Directors, Sustainable Tulsa (2009-2012)
- Executive Council, Association for Environmental Studies and Science (2009-2010)
- Executive Board, Society for Human Ecology (2006-2010)
- Bylaws Committee
- 2008 Conference Committee
- Task Group Chair, ASTM International Worldwide Standards Committee on Environmental Assessment, Risk Management and Corrective Action (E50). The committee successfully developed an international standard titled *E2348-06 - Standard Guide for a Framework for a Consensus-based Environmental Decision-making Process*. The role of the Task Group Chair is to draft and edit the standard and guide the development and balloting process. (2004-2006)
- President and Vice President, Graduate and Professional Student Government Association, Oklahoma State University (2004-2006)
- Board of Directors, Tulsa Chapter of the National Association for Women in Communications (1999- 2004)
- Volunteer Council, Nature Conservancy, Oklahoma Office (1985-1996)

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### **Teaching Experience**

Oklahoma State University (Program Director and Graduate Associate 2005-2008)

- Freshman Research Scholars Seminar

University of Tulsa (Visiting Instructor 1990, Graduate Teaching Assistant 1986-1987)

- Genetics and Human Diversity
- Methods in Cell Physiology
- Microbiology Laboratory

Tulsa Community College (Instructor 1989-96)

- Human Anatomy and Physiology
- Pathogenic Microbiology
- General Biology

National Science Foundation Summer Teacher Institute (Lecturer 1986-90)

- Molecular Genetics
- Genetic Engineering
- *In Vitro* Fertilization

### **Professional Affiliations**

American Evaluation Association

American Education Research Association

Association for Environmental Studies and Sciences

International Network for the Science of Team Science