November 2026

CURRICULUM VITAE

DR. PATRICK L. LAWRENCE (B.E.S., M.Sc., Ph.D.)
(patrick.lawrence@utoledo.edu)

Chair/Professor
Department of Geography and Planning
https://www.utoledo.edu/jhc/geography/
and
Chair
Criminal Justice Program
https://www.utoledo.edu/jhc/criminal-justice/
Legal & Paralegal Studies Program
https://www.utoledo.edu/jhc/legal/

Judith Herb College of Arts, Social Sciences and Education
University of Toledo
https://www.utoledo.edu/jhc/

Office: Snyder Memorial, Room 3061
1905 N. Towerview Blvd.(MS140)
Toledo, OH 43606-3390

419-530-4128
419-530-2545 (main office)
https://www.utoledo.edu/jhc/geography/
Twitter: @ToledoGeography
Facebook: ToledoGeography
Instagram: UToledoGeography

ADDITIONAL UNIVERSITY APPOINTMENTS

- Affiliated Faculty – Earth, Ecological and Environmental Sciences Department
- Member, UT Water Task Force
- Research Associate, Lake Erie Research Center

RESEARCH INTERESTS

- ✓ Water Resources / Watershed Management/ Wetland Planning
- ✓ 2014 Toledo drinking water crisis and Lake Erie HABs
- ✓ Planning for Urban Stream Restoration
- ✓ Use of GIS and remote sensing technology in community based Environmental Decision-Making
- ✓ Impacts of Land Cover/Land Use Change
- ✓ Great Lakes Coastal/Shoreline Management and Geomorphology

CURRENT RESEARCH PROJECTS

- Great Lakes water resource management and planning
- Natural Area Planning: including Great Lakes shoreline, wetlands, forests and National Parks
- Lake Erie Harmful Algae Blooms policy and planning aspects
- Watershed Planning and management, Maumee Area of Concern
- Natural Hazards Planning

EDUCATION HISTORY

1991 – 1996 Doctor of Philosophy (Ph.D.) Degree in Geography, Department of Geography, University of Waterloo, Waterloo, Ontario

1989 - 1991 Master of Science (M.Sc.) Degree in Geography, Department of Geography, University of Guelph, Guelph, Ontario

1984 - 1989 Bachelor of Environmental Studies (B.E.S) Degree in Honors Geography, Department of Geography, University of Waterloo, Waterloo, Ontario

ACADEMIC AND PROFESSIONAL AWARDS

2026 AI for Teaching & Learning Course Certificate, UT Online
2018 UT Sabbatical Leave
2018 Quality Matters (QM) Online/DL Course Certification,GEPL 3900 Environmental Planning
2017 Clean Streams Partner Award, Partners for Clean Streams Inc.
2015 Dean's Recognition Award for Service as Department Chair
2013 UT Jefferson Award for Community Service (April 2013)
2012 UT Edith Rathbun Award for Excellence in Outreach and Engagement
2010-11 College Faculty Excellence Award
2007 UT Sabbatical Leave
2004 Kohler International Faculty Travel Grant ($500)
2003 UT Distance Learning/Master of Liberal Studies Faculty Fellowship ($3000)
2002 Kohler International Faculty Travel Grant ($900)

RESEARCH GRANTS FUNDED (39 total, 21 as PI/Co-PI, $2.4+ million total)

2018 Spatial Distribution Model for Manure from Permitted Livestock Facilities (CAFOs/CAFFs) in the Lake Erie Western Basin and Maumee Watershed, Ohio. Ohio Department of Higher Education/Ohio Sea Grant $34,486 (P.I: P.L. Lawrence)

2015 Maumee Basin Lake Erie HABs Stakeholder Informed Decision-Making Support System. Ohio Board of Regents/Ohio Sea Grant. $66,501 (P.I. P.L. Lawrence)

2013 Ottawa River Restoration Project: Phase II In-stream restoration (supplemental award). US Fish & Wildlife Service. GLRI Grant Program for Habitat Restoration. $47,000. (P.I.: P.L. Lawrence)

2011-2013 Ottawa River Restoration Project. US Fish & Wildlife Service. GLRI Grant Program for Habitat Restoration. $114,132. (P.I.: P.L. Lawrence)

2011-2013 A Multifaceted Urban Stream Restoration Project for the Ottawa River at the University of Toledo, Ohio. Ohio EPA Section 319(h) Nonpoint Source Project Grant Program. $235,197.
(P.I.: P.L. Lawrence)

2010-2013 Climate Change Education: Engaging Teachers and Students and Correcting Misconceptions Using NASA Data. NASA Global Climate Change Education (GCCE) Program. $377,251
(P.I.: K.P. Czajkowski; C.I.: P.L. Lawrence et al.)

2010-2015 LEADERS: Leadership for Educators: Academy for Driving Economic Revitalization in Science.$4.9 million. National Science Foundation
(P.Is.: K.P. Czajkowski et al.; S.I.: P.L. Lawrence et al.)

2009-2012 Enhancing Environmental Education and Careers: Restoration Project for the Ottawa River at the University of Toledo. Stranahan Foundation. $60,000 (P.I.: P.L. Lawrence)

2008-2009 Support of Maumee River Watershed Non-point Source Pollution Modeling*:* Tile Drain Identification from Remote Sensing. USDA NRCS. $50,000 (co PIs: K.P. Czajkowski and P.L. Lawrence)

2008 GEPL/EEES 2200: A New Interdisciplinary Undergraduate Course on Climate Change. UT Center for Teaching and Learning. $9,980 (P.I.: P. L. Lawrence)

2007-09 Urban Conservation and Restoration Projects in the Maumee Area of Concern. Joyce Foundation. $588,118 – funded to Partners for Clean Streams (PCS) Inc.
(Project Director: P.L. Lawrence) *note: Although funding was not directed through the University Office of Research (Joyce Foundation wished to direct funding into a community based non-profit), I did personally assist in preparing the proposal and with the proposal successfully funded I directed the successful completion of the three research projects funded under this grant award.*

2007-08 Potential Environmental and Health Impacts of Sewage Sludge Applications. USDA $187,000 – funded (P.I.: K. Czajkowski, Senior Investigator: P.L. Lawrence)

2006-07 Assessing Beneficial Use Impairments for Ohio Areas of Concern. Ohio EPA Division of Surface Water, Ohio Area of Concern Program. $14,077 – funded (P.I.: P.L. Lawrence)

2005-2010 Maumee River Watershed GIS and Remote Sensing Project. USDA NRCS. $352,067 – funded (Co-PIs: K. Czajkowski and P. Lawrence)

2004-05 Maumee Area of Concern Stage II Strategic Planning Project, US EPA Great Lakes National Program Office (GLNPO), $19,781 – funded (P.I:. P.L. Lawrence)

2003-04 GIS and Remote Sensing Application for Wetlands Classification and, Inventory in the Maumee AOC. Oak Openings Land Conservancy. $6,865 – funded (P.L. Lawrence, P.I.)

2002-03 Use of Remote Sensing For Auglaize River Sediment Monitoring, US Army Corps of Engineers. $77,000 – funded (K. Czajkowski P.I., P. Lawrence C.I.)

2002-03 Dissemination of Remote Sensing Technology in Northwestern Ohio through Educational and Community Outreach. Ohio Aerospace Institute/OhioView. $95,000 – funded (K. Czajkowski P.I., P. Lawrence C.I.)

2002-03 Developing Methodologies to assess natural resource and socioeconomic data for use in community planning decision making: A cooperative agreement between GEPL and USDA. USDA $35,000 – funded (S. Attoh P.I, K.Czajkowski C.I., P. Lawrence C.I.)

2002-03 Preparation of a Watershed Restoration Action Strategy for Open Space and Wetlands in the Maumee Area of Concern, Natural Areas Stewardship Inc. $6,000 – funded (P. Lawrence P.I.)

2002 Modeling the Maumee River Watershed for Sustainable Development. URAF 2001 Interdisciplinary Grant. $50,000 – funded (M. Abraham P.I., K. Czajkowski C.I., P.Lawrence C.I., and others)

2001 Acquisition of Instrumentation in Support of the Center for Geographic Information Science and Applied Geographics (GISAG) National Science Foundation MRI Grant $166,945- funded (PI: K. Czajkowski, CI: K. Schneider, P. Lawrence, P.S. Lindquist)

2001 Developing Methodologies to assess natural resource and socioeconomic data for use in community planning decision making: A cooperative agreement between GEPL and USDA $77,108 – funded. (PI. S. Attoh, CI: K. Schneider, K.Czajkowski, P. Lawrence, N.Reid)

2001 UT Summer Research and Fellowship Award (URAF). Integration of Land Cover Change Analysis into Environmental Decision-Making and Planning for the Great Lakes Shoreline, NW Ohio. Ohio Board of Regents $8,700 – funded (PI: Dr. P.L. Lawrence)

2001 Application of Remote Sensing for Land Cover Analysis and Identification of Wetlands in the lower Maumee River Watershed. UT Urban Affairs Center $4,775 –funded (PI: P.L. Lawrence and CO-PI: K. Czajkowski)

2000 Lake Erie Parks and Protected Areas. Parks Canada Ontario Region $4,000 - funded (PI: J.G. Nelson; CI: P.L. Lawrence)

1998-2000 Regional Planning for the Niagara Escarpment - Building the Great Arc. Social Sciences Humanities Research Council (SSHRC) Grant ($8000) (PI: J.G. Nelson; CI: P.L. Lawrence)

1999 Flood History of the Grand River. Kitchener Rotary & School of Planning, UWaterloo grant ($4000) (PI: J.G. Nelson, CI: P.L. Lawrence)

1998-99 Natural Area Planning in the Carolinian Canada Zone. Parks Canada – Memorandum of Understanding ($4,000) (PI: J.G. Nelson; CI: P.L. Lawrence)

1998-99 Flood Hazards in North America and Organization of Workshop, Sendzimir Foundation grant ($15,000) (PI: J.G. Nelson, CI: R. Serafin; CI: P.L. Lawrence)

1997-98 Natural Corridors and Connectivity Study for Carolinian Canada. Parks Canada – Memorandum of Understanding ($7,500) (PI: J.G. Nelson; CI: P.L. Lawrence)

1996-1998 Ecosystem Conservation Plans for Bruce Peninsula and Fathom Five National Parks. Parks Canada contract ($54,000) (PI: J. G. Nelson; CI: P.L. Lawrence)

1996 Guide to Lake Erie Parks and Protected Areas. Parks Canada, FOCALErie, US EPA grants ($10,000) (PI: J.G. Nelson. CI: P.L. Lawrence)

1995 Land Use and Conservation in the Fairy Lake-Peninsula Lake Area. Ontario Ministry of Natural Resources contract ($24,000) (PI: J.G. Nelson, CI: A. Skibicki, CI: P.L. Lawrence)

1992 Ontario Ministry of Natural Resources. Great Lakes Shoreline Management Workshop grant ($1,000) (PI: P.L. Lawrence)

1992-94 Royal Canadian Geographical Society Major Competitive Research Grant ($50,000) (PI: J.G. Nelson; CI: P.L. Lawrence)

1992 Saugeen Valley Conservation Authority Preparing for a Shoreline Management Plan contract ($15,000) (PI: J.G. Nelson; CI: P.L. Lawrence)

1992 Ontario Ministry of Natural Resources. Review of Great Lakes Shoreline Land Use Planning contract ($3,000). (PI: R.G.D. Davidson-Arnott, CI: J. Ollerhead, CI: P.L. Lawrence)

1989 Royal Canadian Geographical Society Undergraduate Research Grant. Shoreline Classification along the Niagara Escarpment ($1,200) (PI: P.L. Lawrence)

PROFESSIONAL EMPLOYMENT

2019-present	Chair, Department of Geography and Planning, and Chair; Criminal Justice Program*, Legal and Paralegal Program*, Judith Herb College of Arts, Social Sciences and Education, University of Toledo (*added duties July 1st, 2025)
2011-present	Professor (tenured), Department of Geography and Planning, University of Toledo
2016-2017	Associate Dean (Social and Behavioral Sciences), College of Arts and Letters, University of Toledo
2010-2016	Chair, Department of Geography and Planning, University of Toledo
2006-2010	Associate Professor (tenured), Department of Geography and Planning, University of Toledo
2000-2006	Assistant Professor, Department of Geography and Planning, University of Toledo
1999-2000	Visiting Assistant Professor, Department of Geography & Planning, University of Toledo

PROFESSIONAL MEMBERSHIPS

1993-present	American Association of Geographers (AAG)
1990-2026	International Association for Great Lakes Research (IAGLR)
1988-present	Canadian Association of Geographers (CAG)
2006-2014	The Coastal Society (TCS)

UNIVERSITY SERVICE

Department:

2017-2018	Department Personal Committee (DPC)
2017-2018	Department Strategic Plan Committee
2017-2018	MA Geography Program Committee
2015	Chair, GEPL Faculty Search Committee (Medical/Health Geography position)
2010-2016	Chair, Department of Geography & Planning
2010	Chair, Search Committee, Geography Education Assistant Professor position
2007-2010	Graduate Advisor
2007-2010	Department Personal Committee (DPC)
2010-2016	Department Budgets Committee
2004-present	Coordinator, Professional Development Forum/Department Colloquium Speaker Series
2001-2016	Undergraduate Program Committee
2000-2016	Computer Equipment and Space Committee
2000-2016	Graduate Program Committee
2008	Search Committee, Instructor faculty position
2004-2007	Undergraduate Advisor
2004-2005	Chair, Search Committee, Urban Planning faculty position
2001-2002	Chair, Search Committee, Urban Planning faculty position
2000	Graduate Recruiter

College:

2024-2027	Department Representative, College of Arts, Social Sciences and Education (CASE) Council
2024-2025	Special Assistant to the Dean College of Arts and Letters (Small Academic Programs Strategic Enrollment Planning)
2020-2023	Member, CAL College Technology Committee
2019-2021	At-Large (elected) Member, College of Arts and Letter Council
2019-2020	Chair, Elections Committee, College of Arts and Letters Council
2019-2020	Executive Committee, College of Arts and Letters Council
2011-2012	Member, LLSS Community College Connection Committee
2011-2012	Member, LLSS College Strategic Plan Committee
2011-2016	Member, LLSS College Technology Committee
2010	Member, Search Committee, Dean of College of Languages, Literature and Social Sciences (LLS)
2009-2010	Member, Arts and Science Council Elections Committee
2004-present	Member, Spatially Integrated Social Science (SISS) Program Committee
2001-2010	Member, Department Representative, Arts and Sciences Council
2000-present	Affiliated Faculty – Department of Earth, Ecological and Environmental Sciences
2000-present	Research Associate, Lake Erie Research Center
2007-2008	Member, College Committee on Academic Personal (CCAP)
2005-2006	Member, Arts and Science Council Curriculum Committee
2005	Chair, Arts and Science Council Distance Learning Committee
2004- 2006	Spatially Integrated Social Science Program Cluster Faculty Hire Committee

University:

2025-2028	UT Faculty Senate, elected representative, College of Arts, Social Sciences and Education
2025-present	COGS Graduate Student Fellowships and Scholarships Committee

2023-2024	Member, Search Committee, Executive Vice President for Academic Affairs/Provost, University of Toledo
2022-2025	Member, UT Graduate Council (Vice Chair 2022-23, Chair 2023-24, Past Chair 2024-25)
2021-2022	Member, Search Committee, tenure track faculty position, wetlands ecology, College of Natural Sciences and Math, Department of Environmental Sciences
2020-2023	Chair, Academic Programs Committee, UT Faculty Senate
2020-2023	UT Faculty Senate, elected representative, College of Arts and Letters
2019-2020	UT Learning Management System Software RFP Committee
2014-present	UT Water Research Task Force (and Chair, subcommittee on policy, law and economics)
2013-2017	Edith Rathbun Outreach and Engagement Excellence Award Selection Committee
2005-2017	President's Commission on the River (2007-2017, chair)
2007-2017	UT Campus Beautification Committee
2016	Member, University Strategic Enrollment (SEP), Academic Programs Work Group
2007-2016	Advisory Board, Lake Erie Center, University of Toledo
2000-present	Full Membership, University of Toledo Graduate Faculty
2000-2015	Research Associate, Urban Affairs Center, University of Toledo
2005-2006	UT President's Commission on the River (co-chair)
2003-2004	Mentor, QUEST program

COMMUNITY SERVICE

2023-present	Member, UTMC Swan Creek Restoration Project Team
2022-2024	Member (University of Toledo representative), TMACOG Water Quality Council
2006-2016	Founding Trustee and President of the Board of Directors, Partners for Clean Streams Inc.
2007-2017	Clean Your Streams community event, University of Toledo Kickoff Coordinator
2014-2015	Member, TMACOG ad hoc Environmental Program Committee
2012-2015	Member, TMACOG Environmental Council
2006-2014	Chair, Maumee RAP Public Advisory Committee
2004-2005	Member, Maumee RAP Watershed Restoration Plan/Stage II Report Committee
2001-2005	Member, Maumee Remedial Action (RAP) Group Steering Committee
2001-2005	Chair, Open Spaces and Wetland Group, Maumee Remedial Action Plan
2001-2006	Member, Maumee RAP Advisory Committee
2001-2005	Member, Maumee Bay Bacterial Task Force
2000-2005	Member, Ottawa River Action Group, Maumee Remedial Action Plan
1999-2001	Member, Open Spaces and Wetland Group, Maumee Remedial Action Plan

PROFESSIONAL SERVICE

2025-present	Section Editor, Water Resources Section, Cogent Social Sciences open source journal, Taylor & Francis. https://www.tandfonline.com/journals/oass20
2026	Chair, Special Organized Session " Water Resources in a Challenging and Changing World" 2026 AAG Annual Meeting. San Francisco CA, March 2026
2025	Chair, Special Organized Session, " 2014 Toledo Water Crisis: Science and Understanding a Decade Later" 2025 IAGLR Great Lakes Research Conference, Milwaukee, MI, June 2025.
2024-2025	Member, Arrangements Committee, 2025 AAG Annual Meeting (Detroit MI- March 2025)

2023	Co-Host and Local Organizer, 2023 East Lakes Division AAG Annual Meeting-November 2023
2023	Chair, Organized Session, "Great Lakes Environmental Challenges", 2023 AAG Annual Meeting, Denver CO, April 2023.
2023	External Program Reviewer, Northern Arizona University, Department of Geography, Planning and Recreation
2021	Local Organizing Committee, 2021 Applied Geography/ELDAAG/WLDAAG Annual Meeting (virtual), Toledo OH, October 2021.
2020	Chair/Organizer, special session "Academia in the Covid-19 Era: How Programs and Departments Must Address and Adapt", 2020 Applied Geography Conference (virtual)
2020	Member, AAG COVID-19 Internship Assistance Program Proposal Review Committee
2020	Member, AAG COVID-19 Rapid Response Task Force (Regions Subcommittee)
2020	Conference Theme Committee, 2020 Annual Meeting of the American Association of Geographers (AAG), Denver, CO. April 2020.
2019	Member, External Program Review Team, Program Review of Department of Geography, Miami (OH) University
2019-2021	AAG Regions Taskforce, American Association of Geographers (AAG)
2019	Chair, Special Session: "Geographic Research on Harmful Algae Blooms (HABs)". 2019 Annual Meeting of the American Association of Geographers (AAG), Washington DC. April 2019.
2017-2018	American Association of Geographers (AAG) National Council – Regional Councilors (Chair); Committee on Committees (member); International Research Committee (Interim Chair)
2016	Co-Chair, Special Session on Great Lakes Coastal Conservation, 2016 Canadian Coastal Conference, Toronto, Ontario, Canada
2016	Co-Chair, Special Session on Lake Erie HABs, 2016 International Conference on Great Lakes Research, University of Guelph, Ontario, Canada.
2015-2018	American Association of Geographers (AAG) National Council - East Lakes Division Regional Councilor
2015	Co-Chair, Special Session on HABs and the 2014 Lake Erie Drinking Water Crisis, 2015 International Conference on Great Lakes Research, University of New Hampshire
2015	Chair, Special Session on the University of Toledo SISS PhD Program, 2015 Annual Meeting of the Association of American Geographers
2014-2015	Member, 2015 Great Lakes Area of Concern Annual Conference Planning Team
2014-2015	Co-chair, Policy and Economics Subgroup, Ohio Board of Regents Lake Erie HABs Funding Initiative
2014	University of Western Ontario Clusters of Research Excellence Proposals External Reviewer
2014	National Science Foundation Water Sustainability Climate Category 2 Advisory Panel
2014	Chair, Special Sessions, 50th Anniversary of the Department of Geography and Planning, University of Toledo, 2014 Annual Meeting of the Association of American Geographers
2013	Chair, Local Organizing Committee, 2013 ELDAAG/CAGONT Annual Meeting
2013	Co-Chair, Special Session on Restoration and Resiliency in Great Lakes Areas of Concern, 2013 International Conference on Great Lakes Research
2011-2012	Chair, Membership Committee, The Coastal Society
2006-2012	Member, Executive Committee, East Lakes Division, Association of American Geographers

2011-2012	Conference Proceedings Chair/Organizing Committee, 2012 Coastal Society International Conference.
2010-2012	Board of Directors, The Coastal Society (chair of the Membership Committee)
2009-2012	Chair, Executive Committee, East Lakes Division, Association of American Geographers
2009-2010	Program Chair/Organizing Committee, Coastal Society International Conference.
2010	Chair, Special Session on Great Lakes Area of Concern, 2010 International Conference on Great Lakes Research
2009	Chair, Special Session on Watershed Restoration in the Maumee Basin, 2009 International Conference on Great Lakes Research
2009	Chair, Special Illustrated Poster Session on Spatially Integrated Social Science Research, 2009 AAG Annual Meeting
2008-2009	Conference Co-Chair, Local Organizing Committee, 2009 International Conference on Great Lakes Research Conference
2008	Chair, Special Session on Managing Shared Oceans, 2008 Coastal Zone Canada Conference
2008	Chair, Special Session on Watershed Planning, 2008 International Conference on Great Lakes Research
2008	Chair, Special Session on GIS and Urban Water Resources, 2008 Annual Meeting of the Association of American Geographers
2007-2009	Project Director, Maumee Area of Concern Urban Conservation and Restoration Projects (supported by $588,118 in funds from Joyce Foundation to PCS Inc.)
2007-2009	Chair, Nominations Committee, International Association of Great Lakes Research
2007-2008	Organizing Committee, 2008 Coastal Society International Conference.
2007-2008	Organizing Committee (Program), 2008 Coastal Zone Canada Conference
2007	Chair and Principal Organizer, From the Waters to the Future: A Public Lecture in Observation of the 2nd Anniversary of Hurricane Katrina. University of Toledo, Ohio. August 2007.
2006	Chair, Local Organizing Committee, 2006 ELDAAG Conference
2006	Chair, Special Session on Geographies of the Great Lakes, 2006 Annual Meeting of the Association of American Geographers
2005-2007	Editorial Board, International Journal of Lakes & Rivers
2005	Chair, Northwest Ohio Wetlands Forum, June 2005
2005	Chair, Special Panel Session on Fulton County GIS Planning Project, 2005 Annual Meeting of the Association of American Geographers
2004	Co-chair, Special Session on Managing Shared Waters Initiative Coastal Zone Canada 2004 Conference
2004	Chair, Special Session on Niagara Escarpment and Environmental Planning 2004 Geological Association of Canada Annual Conference
2004	Chair, Special Session on Water Resources Planning, 2004 Annual Meeting of the Association of American Geographers
2003	Chair, Special Session on Great Lakes Shoreline Management in Ontario Latornell 2003 Conservation Symposium
2003	Chair, Special Session on Integrating Science into Regional and Local Coastal Planning and Management in Canada, CCSEA 2003 Conference
2003	Chair, Special Session on Remote Sensing Applications, ELDAAG 03 Conference
2003	Chair, Panel Session on Managing Shared Waters Project International Association for Great Lakes Research

2003	Chair, Special Session on Water Resources, 2003 Association of American Geographers Annual Meeting
2000-2002	Co-chair, Program Committee, Managing Shared Waters/ Coastal Zone Canada 2002 Conference, Coastal Zone Canada Association
2000-2002	Member, Organizing Committee, Managing Shared Waters/Coastal Zone Canada 2002 Conference, Coastal Zone Canada Association
2002	Chair, Special Session, Managing Shared Waters Conference Putting the Coast on the Agenda in Canada and around the World
2002	Chair, Special session Great Lakes Coastal Management, MSW/CZC 2002 Conference
2002	Chair, Special Session on "The Use of Remote Sensing for Land Use Change Analysis", 2002 Association of American Geographers Annual Meeting
2001	Program Committee, Leading Edge 2001 Conference, Niagara Escarpment Commission
2001	Chair, Special Session on Great Lakes Transboundary Ecosystem Management. Coastal Zone 2001. Cleveland, Ohio
2000-2006	Editorial Board, Great Lakes Geographer
2000-2001	Local Organizing Committee, Coastal Zone 2001, Cleveland, Ohio
2000	Chair, Geography of the Great Lakes Special Session, 2000 Canadian Association of Geographers Annual Meeting
2000	Chair, Ocean and Coastal Zone Management Session, 2000 Canadian Association of Geographers Annual Meeting
1998-2008	Coastal Zone Canada Association Board of Directors, Vice President Great Lakes
1998-2008	Coastal Zone Canada Association Board of Directors
1996-98	Member, Working Group for the Nearshore Terrestrial Environment Report, 1998 State of Lakes Ecosystem Conference
1997-present	Technical Advisor, Lake Huron Centre for Coastal Conservation
1996-97	Member, Organizing Committee, 1997 Canadian Coastal Conference
1996	Member, Shoreline Management Plan Review Committee, Saugeen Valley Conservation Authority
1994	Chair, Marine Studies and Coastal Management Study Group, Special Sessions, 1994 Canadian Association of Geographers Annual Meeting
1993-94	Invited Representative for Ontario Ministry of Natural Resources Planning Review
1992-93	Ph.D. Student Representative, University of Waterloo, Association of Graduate Geographers
1991-94	Member, Management Board, Heritage Resources Centre, University of Waterloo

Journal Referee:

Canadian Geographer, Environments, Great Lakes Geographer, Ocean & Coastal Management
Journal of Environmental Management, Geomorphology, Journal of Geography, Cities, Water International, International Journal of Lakes and Rivers, Journal of Human Ecology, Proceedings of the Applied Geography Conference, Research in Geographic Education, Environmental Management, Professional Geographer, Journal of Great Lakes Research

Grant Reviewer:

National Science Foundation EES - Centers for Research Excellence in S&T Review Panel (2024-25)
National Science Foundation Coastlines and People (CoPe) Large Scale Proposals Review Panel (2022)

US EPA Great Lakes Restoration Initiative (GLRI) **pass through funds to Ohio EPA for Maumee AOC Habitat Restoration Plan Grants (2017)
Ohio Sea Grant (2017)
Maryland Sea Grant (2015)
NIWR-USGS National Competitive Grants Program. (2015)
NOAA Prevention, Mitigation, and Control of Harmful Algal Bloom (PCMHAB) (2015)
National Science Foundation Water, Sustainability, Climate (WCS) Grant Program (2014)
University of Western Ontario Clusters of Excellence Research Grant Program (2014)
NASA Postdoctoral Program (2012)
Social Science and Humanities Research Council Canada (2002, 2004, 2008, 2012, 2015)
National Science Foundation (2004/05, 2005/06, 2007/08)
US EPA STAR/GRO Graduate Fellowship Programs Grant Review Panel (2005)
Commonwealth Technology Research Fund, Virginia Department of Planning and Budget (2003)

Media Appearances:

13ABC Toledo News, 11 CBS WTOL News, 24 NBC Toledo News, Toledo News Now, CBS Evening News, UT News, UT Tower Views, UT Presidential Town Hall, USA Today, Associated Press,
Toledo Blade, The Independent Collegian, 1370AM WSPD Radio Toledo, News/Talk 760AM WJR Detroit, AM 760 WJR The Relevant University, Lima News

COURSES DEVELOPED AND TAUGHT (current teaching schedule)**

GEPL 1100 Environmental Sustainability (formerly Environmental Geography)
GEPL 3050 Geography of U.S and Canada
GEPL 3060 Geography of the Great Lakes
GEPL 3610 Conservation and Resources**
GEPL 3890 Geographic Research and Natural Disasters
GEPL 3900 Environmental Planning**
GEPL 6550 Graduate Seminar in Environmental Planning
GEPL 6890 Professional Development in Geography and Planning
GEPL 6920 Research Design
SISS 8040 Research Design in SISS
SISS 8200 Spatial Perspectives on the Environment

ACADEMIC SERVICE

PhD SISS Committee Chair (2):
(Dissertation successfully defended)

2021 "Bridging the Gap Between Science and Practice: Examining if Conceptual Models can be Effective as Tools to Guide the Planning and Valuation of Multi-Use Urban Trails." (Karen Gallagher)

2019 "Influence of Permitted Livestock Facilities on Nutrient Transport in the Maumee Watershed: An Assignment Modelling of Manure Distribution" (Edwina Teye)

MA Graduate Student Thesis Chair (14):
(Thesis Successfully Defended)

2024 "Community-Based Flood Risk Governance in Ghana: Drawing Lessons Worldwide" (Stephen Yankyera)

2021 "LiDAR Based Coastal Dune Elevation and Beach Change Assessment at Indiana Dunes National Park (Eric Kostecky)

2021 "Assessing the Sources of Microplastic Pollution in the Maumee Watershed: A Geospatial Approach" Tracking waterborne plastics from major sources in the Maumee Watershed (Tanzia Ahmed)

2013 "Application of GIS in Visualization and Assessment of Ambient Air Quality for SO2 in Lima, Ohio" (Farzana Danish)

2012 "The Development of the Contaminant Rating System (CERS) for Comparing Groundwater Contaminant Data" (Sara Mierzwiak)

2009 " An Application of Geospatial Technology to Geographic Response Plans for Oil Spill Response Planning in the Western Lake Erie Basin (David Dean)

2009 "Estimation of crop residue in the Maumee River Watershed using imagery from Landsat Thematic Mapper" (Jessica De Witt Randall)

2009 "Site Identification of Large Megawatt Wind Turbine Engines within the City of Cleveland by means of using GIS" (Chris Sadowski)

2007 "The Application of GIS in Watershed Planning: The Case of the Western Lake Erie Basin" (Kathryn Swartz)

2006 "Water Quality Testing Site Location: A Methodology for Site Selection" (Phil Haney)

2006 "Relating Watershed Land Cover to Biotic Integrity in the Lake Erie Direct Tributaries, Northwest Ohio" (Kari Gerwin)

2004 "Opportunities to Create a University Urban Village: Secor Gardens and the University of Toledo" (Michael Sachs)

2004 "Community Planning in Fulton County, Ohio: A GIS Methodology for Integrating Community Values in Local Level Planning on the Urban Fringe" (Gavin Smith)

2004 " The Utilization of Remote Sensing and Geographic Information Systems (GIS) for the Development of a Wetlands Classification and Inventory for the Lower Maumee River Watershed, Lucas County, Ohio" (Nate Torbick)

PUBLICATIONS (since 2000) (81)
(copies of many can be found at UToledo Digital Archives:
https://utdr.utoledo.edu/communities/dbb9b671-efc2-457d-a245-4944eeb6e704)

Peer Review Refereed Journals (career-21)

Kanjin,K., Lan, M., Czajkowski, K. and Lawrence, P.L. (2026) Measuring Spatial Accessibility to Improved Water Sources Among the Households in Sibi, Ghana. *Applied Geography (Open Source)* 186,1-13.

Parker, S.R., Mandrak, N.E., Truscott, J.D., Lawrence, P.L., Kraus, D., Bryan, G. and Molnar, M. (2017) Status and extent of aquatic protected areas in the Great Lakes. *The George Wright Forum: Journal of Parks, Protected Areas, and Cultural Sites* 34(3), pp. 381-393.
http://www.georgewright.org/node/15572

Lawrence, P.L. (2014). Habitat Restoration of the Ottawa River at the University of Toledo, Ohio. *Land and Water* (May/June 2014), pp. 39-44.

Lawrence, P.L. (2011). Achieving Teamwork: Linking Watershed Planning and Coastal Zone Management in the Great Lakes. *Coastal Management* 39, pp. 57-71.

Torbick, N, Lawrence, P. and Czajkowski, K. (2006). Application and assessment of an expert system for wetlands identification in northwest Ohio, USA. *Journal of Environmental Monitoring and Restoration* 2, pp. 26-37.

Lawrence, P.L. (2006). Organizing and Assessing Information for Great Lakes Shoreline Community based Decision-Making. *Great Lakes Geographer* 13 (1), pp. 49-68.
http://geography.ssc.uwo.ca/research/great_lakes_geographer/GLG_Volume13/volume_13.htm

Lawrence, P.L. and Nelson, J.G. (2005). Twenty Years of Efforts towards Ecosystem Planning in the Bruce Peninsula National Park, Ontario Canada: 1987 to 2006. *Great Lakes Geographer* 12 (2), pp. 44-61. http://geography.ssc.uwo.ca/research/great_lakes_geographer/GLG_Volume12/volume_12.htm

Lawrence, P.L. (2004). Managing the Great Lakes as a Transboundary Coastal Ecosystem. *Petermanns Geographische Mitteilungen* 1, pp. 20-29.

Nelson, J.G., Lawrence, P.L., Black, H. (2000). Assessing Ecosystem Conservation Plans (ECPs) for Canadian National Parks. *Natural Areas Journal* 20(3), pp. 280-287.
Lawrence, P.L. and Nelson, J.G. (1999). Great Lakes and Lake Erie Floods: A Life Cycle and Civics Perspective. *Environments* 27(1), pp. 1-22.

Lawrence, P.L. (1998). Ontario-Great Lakes Shoreline Management: An Update. *Coastal Management* 26(2), 93-104.

Lawrence, P.L. and Davidson-Arnott, R.G.D. (1997). Alongshore Wave Energy and Sediment Transport on Southeastern Lake Huron, Ontario, Canada. *Journal of Coastal Research* 13(4), 1004-1015.

Nelson, J.G., Skibicki, A. and Lawrence, P.L. (1997). Land Use Change in the Ontario Countyside: Significance, Response, and Implications. *Environments* 24(3), pp. 22-36.

Lawrence, P.L. (1997). Integrated Coastal Zone Management and the Great Lakes. *Land Use Policy* 14(2), pp. 119-136.

Lawrence, P.L. (1995). Development of Great Lakes Shoreline Management Plans by Ontario Conservation Authorities. *Ocean & Coastal Management* 26(3), pp. 205-223.

Lawrence, P.L. (1995). Land Use Planning Reform in Ontario: Implications for Great Lakes Shoreline Management. *Coastal Management* 23(4), pp. 295-307.

Lawrence, P.L. (1995). Great Lakes Shoreline Management in Ontario. *The Great Lakes Geographer* 2(2), pp. 1-20.

Lawrence, P.L. and Nelson, J.G. (1994). Flooding and Erosion Hazards on the Great Lakes Shoreline: A Human Ecological Approach to Planning and Management. *Journal of Environmental Planning and Management* 37(3), pp. 289-303.

Lawrence, P.L. (1994). Natural Hazards of Shoreline Bluff Erosion: A Case Study of Horizon View, Lake Huron. *Geomorphology* 10(1-4), pp. 65-82.

Lawrence, P.L. and Nelson, J.G. (1994). Developing an Environmental Folio for the Long Point Biosphere: Identifying Issues, Institutions and Information. *Environments* 22(2), pp. 67-72.

Lawrence, P.L. , Nelson, J.G. and Peach, J. (1993). Great Lakes Shoreline Management Plan for the Saugeen Valley Conservation Authority. *The Operational Geographer* 11(2), pp. 26-33.

Lawrence, P.L. and McKenzie, D.I. (1991). Application of a Geomorphological Classification of a Rock Cliff shoreline on Georgian Bay, Ontario, Canada. *Shore and Beach* 59(1), pp. 27-36.

Book Co-Author (1):

Nelson, J.G. and Lawrence, P.L. (2009) *Places: Linking Nature and Culture for Understanding and Planning.* University of Calgary Press, Calgary, Alberta. 499 pgs.

Editor or Co-Editor of Books or other Publications (2):

Lawrence, P.L. (ed.) (2013). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK.
http://www.springer.com/earth+sciences+and+geography/remote+sensing/book/978-94-007-4733-3

Lawrence, P.L. (ed.) (2006). Special Issue on Great Lakes Shoreline Management. *Great Lakes Geographer* 13 (1).
http://geography.ssc.uwo.ca/research/great_lakes_geographer/GLG_Volume13/volume_13.htm

Papers/Chapters in Published Edited Books (18):

Gallagher, K. and Lawrence, P.L. (2016). "Managing from Above: The practical implications of using Unmanned Aerial Video (UAV) Systems for Urban Sustainability". In Gatrell, J. et al. (eds.) (2016). *Urban Sustainability: Praxis & Place.* Springer Press, UK. , pp. 217-232.

Lawrence, P.L. (2016). "Urban Stream Management using Spatial Approaches for Stream Clean-Up Data". In Gatrell, J. et al. (eds.) (2016). *Urban Sustainability: Praxis & Place.* Springer Press, UK., pp.5-22.
Lawrence, P.L. (2014). "A Path Across the Border". In Tremblay, R. and Hardwick, S.W. (eds.) *Transnational Borders, Transnational Lives: Academic Mobility at the Borderlands.* Presses de l'Université du Québec. Sainte-Foy, Quebec, pp. 53-70.

Czajkowski, K. and Lawrence, P.L. (2013). GIS and Remote Sensing Applications for Watershed Planning in the Maumee River Basin, Ohio. In Lawrence, P.L. (ed.) (2012). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK., pp. 131-144.

Dean, D. and Lawrence, P.L. (2013). Use of Geospatial Technology for Oil Spill Response Planning in the Western Basin of Lake Erie. In Lawrence, P.L. (ed.) (2012). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK., pp. 177-192.

Eiseman, M., Lawrence, P.L., Walters, T., Crowell, H. and Kusnier, J. (2013). GIS Based Decision-Making Model for the Identification of High Priority Wetland and Stream Restoration Sites. In Lawrence, P.L. (ed.) (2012). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK. pp. 115-130.

Gerwin, K.A. and Lawrence, P.L. (2013). Relating Watershed Land Cover to Biotic Integrity in the Lake Erie Direct Tributaries, Northwest Ohio. In Lawrence, P.L. (ed.) (2012). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK, pp. 161-175.

Rousseau, K. and Lawrence, P.L. (2013). The Application of GIS in Watershed Planning: The Case of Western Lake Erie Basin. In Lawrence, P.L. (ed.) (2012). *Geotechnologies and the Environment: Geospatial Tools for Urban Water Resources*. Springer Press, UK. pp. 145-159.

Lawrence, P.L. (2012). As The Water Flows: Community Based Decision-Making and Participatory Planning for the Maumee Area of Concern, Ohio. In Grover, V.I. and Krantzberg, G. (eds.). *Great Lakes: Lessons in Participatory Governance.* Science Publishers. Enflield, NH., pp. 293-311.

Lawrence, P.L. (2012). Sweetwater Seas and Shores: Waters and Coasts of the Great Lakes Georegion. In Nelson, J.G. (ed.). *Beyond the Global City: Understanding and Planning for the Diverse Georegions of Ontario*. McGill-Queen's University Press. Kingston, Ontario, pp. 55-79.

Torbick, N., Lawrence, P.L. and Czajkowski, K. (2008). Application and Assessment of a GIScience Model for Wetlands Identification in Norwest Ohio. In Ji, W. ed. *Wetland and Water Resource Modeling and Assessment: A Watershed Perspective*. Taylor & Francis Group Publishers. New York., pp 3-10.

Lawrence, P.L. (2005). A Watershed Restoration Action Strategy (WRAS) for Open Space and Wetlands in the Maumee Remedial Action Plan (RAP), Ohio. In Tobin, G.A. and Montz, B.W. eds. *Paper of the Applied Geography Conferences, Volume 28.* Applied Geography Conferences Inc.pp. 36-45. (peer reviewed)

Lawrence, P.L, Czajowski, K. and Torbick, N. (2004). Policy Implication of Remote Sensing in Understanding Urban Environments: Developing a Wetlands Inventory for Community Decision-Making in the Maumee Area of Concern, Ohio. In Jensen, R.., Gatrell, J., and McLean, D. eds. *Place, Meaning and the Politics of Cities: Alternative Methodologies for Using Geo-Spatial Technologies to Understanding Urban Environments.* Springer Verlag Press, London, U.K. pp. 23-36.

Nelson, J.G., Lawrence, P. and Black, H. (2003). Assessing Ecosystem Conservation Plans for Canadian National Parks. In Nelson, J.G., Day, J.C., Sportza, L.M., Loucky, J. and Vasquez, C. eds. *Protected Areas and the Regional Planning Imperative in North America*. University of Calgary & Michigan State University Press. Calgary, Al. & East Lansing, MI, pp. 113-132.

Lawrence, P.L. and Nelson, J.G. (2002) Preparing for Ecosystem Conservation Planning of Bruce Peninsula National Park. In Bondrop-Nielson, S and Munro, eds. *Managing Protected Areas in a Changing World*. Science and Management of Protected Areas Association. Halifax, NS, pp. 244-261.

Lawrence, P.L., Nelson, J.G., and Stephenson, B. (2002). Conservation of the Carolinian Canada Sites in Southern Ontario. In Bondrop-Nielson, S and Munro, eds. (2002) *Managing Protected Areas in a Changing World*. Science and Management of Protected Areas Association. Halifax, NS, pp. 540-552.

Lawrence, P.L. (2002) The Search for the Niagara Escarpment in Southwestern Ohio. In J.G. Nelson and J. Porter, eds. *Building the Great Arc: An International Heritage Corridor in the Great Lakes Region*. Heritage Resources Center, University of Waterloo, Occasional Paper 28. Waterloo, Ontario, pp. 105-112.

J.G. Nelson and Lawrence, P.L. (2002) The Shared Canadian and American Experience of the Niagara Escarpment Landscape: Opportunities for Building the Great Arc. In *Borderlands: The Shared Canadian and US Experience of Landscape.* Alliance for Historic Landscape Preservation. Washington D.C. pp. 25-31.

Papers Published in Edited Conference/Workshop Proceedings (17):

Lawrence, P.L. (2011). "The EC3 Project: Linking River Restoration, Stormwater Improvements, and Bank Stabilization for a section of the Ottawa River, University of Toledo, Ohio." In *Proceedings of the 2011 Environmental Connection 11, IECA Annual Conference.* Orlando, FL. February 2011.

Lawrence, P.L. (2010). "Coastal Management Measures for the Lower Mamuee Watershed, NW Ohio" In *Proceedings of the 22nd Coastal Society Conference.* Wilmington, NC. June 2010.

Lawrence, P.L. (2008). "Concentrated Animal Feed Operations (CAFOs): Implications for Watershed Planning in the Great Lakes Coastal Zone in NW Ohio. In *Proceedings of the 2008 The Coastal Society Conference.* The Coastal Society, Williamsburg, VA, pp.194-198.

Lawrence, P.L. (2008). "Achieving Teamwork: Linking Watershed Planning and Coastal Zone Management – The Case of the Maumee Basin, Lake Erie". In *Proceedings of the 2008 Coastal Zone Canada Conference.* Coastal Zone Canada Association, Dartmouth, NS, pp. 241-245.

Lawrence, P.L. and Czajkowski, K. (2008). "Geographic Information System (GIS) and Remote Sensing Geospatial Online Data Management Project for the Maumee Watershed, Ohio". In *Proceedings of the 2008 American Society for Photogrammetry & Remote Sensing (ASRPS) Annual Conference.* American Society for Photogrammetry & Remote Sensing Bethesda, Maryland.

Lawrence, P.L., Eastop, D., LeBlanc, S., Gottgens, H. and Klinger, T. (2007). " The River Runs through it: Planning for the Ottawa River, University of Toledo". In *Proceedings of the Greening of the Campus VII Conference.* Ball State University, Muncie, Indiana, pp. 284-294.

Lawrence, P.L. (2007). The Detroit River International Wildlife Refuge: An Experience of binational conservation management in the Great Lakes. In *Transboundary Protected Areas, Research and Planning, Proceedings of the 2006 Parks Research Forum of Ontario (PRFO) Annual Meeting.* Parks Research Forum of Ontario, University of Waterloo, Ontario Canada, pp. 45-58.

Lawrence, P.L. (2007). Content Analysis of Leading Edge Conference Abstracts 1994 – 2006: Highlights and Trends. In *Proceedings of the 2006 Leading Edge Conference.* Niagara Escarpment Commission. Georgetown, Ontario. http://www.escarpment.org/leading_edge/LE06/index-le06.htm

Lawrence, P.L. (2007). The Niagara Escarpment in the Upper Peninsula of Michigan: Experiences and Opportunities in Land Conservation and Protected Areas. In *Proceedings of the 2006 Leading Edge Conference.* Niagara Escarpment Commission. Georgetown, Ontario.
http://www.escarpment.org/leading_edge/LE06/index-le06.htm

Lawrence, P.L. (2006). Approaches to Regional Planning for the Niagara Escarpment in Northern Bruce County, Ontario. In *Results of the 2005 Great Arc III Workshop.* Niagara Escarpment Resource Network Online Publication available at http://www.escarpmentnetwork.org/greatarciiiinfo.htm

Lawrence, P.L. and Nelson, J.G. (2005). Selected Landforms and Geology of the Great Arc. In *Proceedings of the 2004 Great Arc Workshop II*. Heritage Resources Center, University of Waterloo, pp. 1-14.

Lawrence, P.L. and DeMars, A.J. (2005). A Geographic Information System Probability of Occurrence Model for the Niagara Escarpment in Southwestern Ohio. In *Proceedings of the Leading Edge'04 Conference*. Ontario Ministry of Natural Resources, Niagara Escarpment Commission. Georgetown, Ontario Canada. http://www.escarpment.org/leading_edge/LE04/papers/Lawrence.Demars.pdf

Lawrence, P. (2003). Science and the Management of the Great Lakes coast: A Case Study of the Maumee Area of Concern. In *Proceedings of the 2003 Canadian Coastal Conference.* Canadian Coastal Science and Engineering Association. Queens University, Kingston, Ontario.
http://www.cciw.ca/ccsea/ccc03proc/Lawrence.pdf

Lawrence, P.L. (2002). The Search for the Niagara Escarpment in Southwestern Ohio. In *Proceedings of the Leading Edge 2001 Conference on the Niagara Escarpment.* Ontario Ministry of Natural Resources, Niagara Escarpment Commission. Georgetown, Ontario Canada.
http://www.escarpment.org/leading_edge/LE01/papers/lawrence.pdf

Lawrence, P.L. (2001). Towards Transboundary Coastal Ecosystem Management in the Great Lakes Basin. In *Proceedings of Coastal Zone 01* Conference. National Oceanic and Atmospheric Administration. Washington D.C.

Nelson, J.G., Lawrence, P.L. and Beck, C. (2000). Building the Great Arc: Landscape and Regional Planning for the Niagara Escarpment in Canada and the United States. In *Proceedings of Leading Edge'99: A Conference on The Niagara Escarpment.* Niagara Escarpment Commission, Georgetown, Ontario.

Lussier, C., Lawrence, P.L., and Nelson, J.G. (2000). Status of Natural Area Planning for Carolinian Canada Sites. In *Proceedings of the 1999 Parks Research Forum Ontario (PRFO).* Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, pp. 331-344.

Published Papers, Articles or Reports (12):

Lawrence, P.L. (2014). "River Restoration Project completed for main campus". *University of Toledo Alumni Magazine*, April 2014.

Lawrence, P.L. (2013). *50th Anniversary of the Department of Geography and Planning at the University of Toledo.* University of Toledo, Toledo, Ohio.

Lawrence, P.L. (2013). *"Department of Geography and Planning celebrates 50th Anniversary." University of Toledo Alumni Magazine*, September 2013.

Research/Contract Reports (5):

Lawrence, P.L. (2013). *Multifaceted Urban Stream Restoration Project for the Ottawa River at the University of Toledo, Ohio.* Final Project report for Ohio EPA and US Fish and Wildlife Service. Columbus, OH.

Lawrence, P.L. (2007). *Assessing Selected Unknown Beneficial Use Impairments for Great Lakes Areas of Concern in Ohio.* Final Report for Ohio EPA Division of Surface Water, Ohio Great Lakes Program. Columbus, Ohio.

Czajkowski, K., Lawrence, P.L., Palmer, M., Fedders, M. and Coss, J. (2004). *AnnAGNPS: Remote Sensing for land use/land cover (LULC) and Digital Elevation Models (DEM) at the University of Toledo*. Final report for The Upper Auglaize River Watershed Project AGNPS Modeling for Sediment Reduction. Submitted to US Army Corps of Engineers, Buffalo District, Buffalo NY and USDA, Natural Resources Conservation Service, Columbus, OH.

Lawrence, P.L., Czajowski, K. and Torbick, N. (2003). *Maumee River Watershed Protection and Enhancement Planning Project*. Final Report to Oak Openings Land Conservancy, Ohio EPA, and the Open Space and Wetlands Action Group, Maumee Remedial Action Group. Toledo, Ohio.

Lawrence, P.L. and Moebius, E. (2003). *Watershed Restoration Action Strategy for Open Space and Wetlands within the Maumee AOC*. Final Report to Natural Areas Stewardship Inc, Ohio EPA, and the Open Space and Wetlands Action Group, Maumee Remedial Action Group. Toledo, Ohio.

Contributing Author to Published Reports (4):

UT Ottawa River Commission (2006). *The River Runs Through It: Final Report of the UT Ottawa River Commission*. University of Toledo, Toledo, Ohio. (writing of several sections of the report)

Maumee RAP (2006). *Maumee Area of Concern Stage 2/Watershed Restoration Plan.* Report submitted to Ohio EPA. Columbus, Ohio. (writing and data collection for sections on water quality of the Lake Erie Tributaries)

Murphy, G. and Ventura, S. (eds.) (2004). *Landscape Suitability Analysis and Community Level Planning for Agricultural Land Conservation* (writing of sections on areas of environmental/ecological significance for the Fulton County Comprehensive Planning Project within this report), pp. 71-104. NRCS, USDA. Washington, DC.

Pollution Probe (2002). *Managing Shared Waters: Resource Kit*. Pollution Probe, Toronto, Ontario. (various sections of text)

PRESENTATIONS (since 2000) (220)

Invited Professional Presentations (47):

Lawrence, P.L. (2026) "Urban Sustainability- Water Planning Challenges in Resurgent Legacy Cities: Case Study of Toledo Ohio" Presentation to Environmental Geography students, Salford University, Manchester UK. April 20206.

Lawrence, P.L. (2026) "Research Opportunities and Collaboration Possibilities with the Department of Geography and Planning at the University of Toledo" Presentation to the Salford University Geography Research Group, Manchester UK. April 2026.

Lawrence, P.L. (2020). "Lake Erie Harmful Algae Blooms and Toledo Drinking Water" *Graduate Seminar in Eutrophication (virtual).* University of Waterloo, Department of Geography. Waterloo, ONT. October 2020.

Lawrence, P.L. (2020). "Toledo Water: An Overview". *OUTSTEPS Lower Great Lakes Research Festival Workshop (virtual)*. SUNY Buffalo, NY. September 2020.

Lawrence, P.L. (2018). "Your Watershed: The Maumee" *2018 Partners for Clean Streams Spring Fundraiser Dinner.* (keynote speaker). Toledo, OH. April 2018.

Lawrence, P.L. (2017). "Environmental Challenges for Legacy Cities". *2017 Ohio Community Development Corporation Association Annual Conference*. Toledo, OH. October 2017.

Lawrence, P.L. (2017). "Lake Erie HABs Stakeholders Information Management Project*". 2017 Ohio Sea Grant Science Writers Forum.* OSU Stone Lab. August 2017.

Lawrence, P.L. (2016). "Ottawa River Restoration Project at the University of Toledo, Ohio". *U.S. Army Corp of Engineers, Great Lakes District Offices Public Stakeholders Meeting.* Toledo, OH. September 2016.

Lawrence, P.L. (2016) "Lake Erie HABs Stakeholder Outreach and Engagement in the Maumee Watershed". *Great Lakes Collaboratory Webinar*. Great Lakes Commission. Ann Arbor, MI. September 2016.

Gottgens, J.H. and Lawrence, P.L. (2016). "Restoration of the Ottawa River, University of Toledo, Ohio". *NOAA Restoration Webinar Series.* NOAA Office for Coastal Management. Silver Spring, MD. April 2016.

Lawrence, P.L. (2016). "The Watershed We Live in". *Great Lakes Research Symposium.* Toledo Zoo. Toledo, OH. February 2016.

Lawrence, P.L. (2015). "When the Water Turns Green: Public Responses and Challenges for Water Managers from the Lake Erie Harmful Algae Bloom Events". *2015 Regional Storm Water Summit*. Oakland County Water Resources Commissioner and Pure Oakland Water- POW. Southfield, MA. October 2015. (Key Note Speaker).

Lawrence, P.L. (2015) "Creating a Social Compact Between the City of Toledo and the University of Toledo: From Knowledge to Action" (panelist). *Academic Symposium for the Presidential Inauguration of President Sharon Gaber*. University of Toledo, OH. September 2015.

Lawrence, P.L. (2015) "To Drink – or – Not to Drink: the Quality of the City of Toledo's Drinking Water" (panelist). *Public Forum organized by the Bethlehem Baptist Church*. Toledo, OH. September 2015.
Lawrence, P.L. (2015). "Will the Water Turn Green Again?: Update on 2015 Lake Erie HAB season and potential for concerns". *U.S Coast Guard Marine Safety Unit, Western Lake Erie Area Committee Meeting*. Toledo, OH. June 2015.

Lawrence, P.L. (2015). "Restoration Efforts in the Tenmile Creek/Ottawa River Watershed, NW Ohio' I*nteragency Ecological Restoration Quality Committee Webinar Series.* US EPA Great Lakes National Program Office, Great Lakes Restoration Initiative. April 2015.

Lawrence, P.L. (2015)." Building a Department of Colleagues". *Academic Chair Workshop Series.* Office of the Provost, University of Toledo. February 2015.

Lawrence, P.L. (2014) "Lake Erie and HABs: A Watershed Perspective" *University of Toledo Sigma Xi Chapter.* Toledo, OH. October 2014.

Lawrence, P.L. (2013). Great Lakes Coastal Conservation: Efforts and Opportunities" *2013 Sources of Knowledge Forum, Bruce Peninsula National Park.* Tobermory, ONT. May 2013.

Lawrence, P.L. (2013). "EDGE Project Small Grant Projects: Student Career Sessions at 2012 EL/WL Regional Meeting" (panelist). *2013 Annual Meeting of the Association of American Geographers.* Los Angeles, CA. April 2013.

Lawrence, P.L. (2012). "Ottawa River Restoration Project at the University of Toledo: Update" *2012 Fall Maumee RAP Summitt.* Toledo, OH. December 2012.

Lawrence, P.L. (2012). "Careers in Professional Geography" (panelist). *West Lakes/East Lakes Division AAG 2012 Annual Joint Meeting*. Northern Illinois University, DeKalb, IL. October 2012.

Lawrence, P.L. (2012). "Promoting collegiality, communication and improving faculty satisfaction" (panelist). *2012 AAG Department Leadership Workshop*. University of Colorado at Boulder. June 2012.

Lawrence, P.L. (2012). "Distance Learning at the Department of Geography and Planning, University of Toledo". *2012 Annual Meeting of the Association of American Geographers (AAG).* New York, NY. February 2012.

Lawrence, P.L. (2012). "Environmental Planning for the Ottawa River, University of Toledo, Ohio". *Western Michigan University, Department of Geography.* Kalamazoo, MI. February 2012.

Lawrence, P.L. (2012). " University of Toledo Ottawa River Restoration Project" *TMACOG Environmental Council*. Toledo, OH. January 2012.

Lawrence, P.L. (2011). "Climate Change and the Great Lakes" *GESU Catholic School Professional Development Forum*. Toledo, OH. November 2011.

Lawrence, P.L. (2011). "Integrating GIS and Remote Sensing Applications into Watershed Planning for the Maumee Basin, Ohio". *University of Akron, Department of Geography*. April 2011.

Lawrence, P.L. (2010). " Global Change and Local Places Revised: Ten Years later at University of Toledo". *2010 Annual Meeting of the Association of American Geographers (AAG).* Washington, D.C. April 2010.
Lawrence, P.L. (2010). "GIS and Remote Sensing Applications for Watershed Planning and Land Use Management in the Maumee Watershed, NW Ohio" *Kent State University, Department of Geography*. February 2010.

Lawrence, P.L. (2009). "The Thin Green and Blue Line: An Overview of Coastal Processes and the Nearshore of the Lake Erie ". *Caring for Our Coast.* Carolinian Canada Coalition Forum 2009. Pt. Pelee National Park, Ontario. October 2009.

Lawrence, P.L. (2007). "Maumee Watershed Planning and Lake Erie". *The Future of Lake Erie: Water Works Project Panel.* Bowling Green State University, OH. October 2007.

Lawrence, P.L. (2007) " Capacity Building and Organizational Development for the Maumee RAP" *2007 Great Lakes Areas of Concern: Achieving Restoration Targets and Sustaining Stewardship"* Great Lakes Commission. Cleveland, OH. June 2007.

Lawrence, P.L. (2007). "Lets Get the Word Out: GIScience and Community Planning for Watershed Planning in the Great Lakes Basin". *University of New Orleans Geographic Society Speaker Series*. New Orleans, LA. March 2007.

Lawrence, P.L. (2006). " Isn't that Spatial? Using Technology to Clean Up our Streams". *2006 Student Watershed Watch Forum*. 17th Annual Maumee RAP Student Watershed Watch. TMACOG. Toledo, Ohio. November 2006.

Lawrence, P.L. (2006). "Voices from the Local Level: Maumee RAP". *2006 Lake Erie Areas of Concern Summit.* Great Lakes Commission. Erie, PA. July 2006.

Lawrence, P.L. (2006). "The Detroit River International Wildlife Refuge: An Experience of binational conservation management in the Great Lakes". *2006 Parks Research Forum of Ontario (PRFO) Annual Meeting.* Niagara Falls, Ontario. April 2006.

Lawrence, P.L. (2005) " Regional Planning for the Niagara Escarpment in the northern Bruce County, Ontario" *Great Arc Workshop III,* University of Green Bay, Green Bay, WI. September 2005.

Lawrence, P.L., Attoh, S., Czajkowski, K., Smith, G. and Sackman, L. (2005). " Searching for a Balance: Sustainable Agriculture, Natural Resources, and Development, Community Planning and Decision-Making in Fulton County, Ohio ". *International Conference on Environmental, Cultural, Economic and Social Sustainability.* RMIT University, Common Ground, and the Globalization Research Centre, University of Hawaii. Oahu, Hawaii. February 2005.

Lawrence, P.L. (2004). " We own an Island: Environmental Planning, Research and Community Engagement Opportunities for Gard Island" *Geography and Planning Department Colloquium.* University of Toledo. October 2004.

Lawrence, P.L. and Torbick, N. (2004). "Wetlands Inventory and Classification for Lucas County by use of Remote Sensing". (invited speaker) *Oak Openings Research Forum.* Toledo, Ohio. January 2004.

Lawrence, P.L. (2003). " Geomorphology, Ecosystem Planning and Community Decision-Making in the Long Point and Niagara Escarpment World Biosphere Reserves". *Department of Geography Seminar*. SUNY Buffalo. Buffalo, NY. April 2003.

Lawrence, P.L. (2003). " Maumee Watershed" (invited speaker) *Protecting, Restoring and Maintaining Ecosystem Integrity of Habitats in the Lake Erie Basin*. Lake Erie Millennium Network Workshop. Windsor, Ontario. February 2003.

Lawrence, P.L. and Nelson, J.G. (2002). " Sharing Landscapes: Bioregional Planning for the Niagara Escarpment, the Great Arc and other Binational Examples within the United States and Canada" (invited key note speaker). *A Conference on the Niagara Escarpment: Planning Practices and Smart Growth Strategies*. East Central Wisconsin Planning Commission. University of Green Bay-Wisconsin. September 2002.

Lawrence, P.L. (2002). "The Managing Shared Waters Initiative" (invited speaker) *International Association for Great Lakes Research 2002 Annual Conference*. Winnipeg, Manitoba, Canada. May 2002.

Lawrence, P.L. (2001). "What is the Niagara Escarpment?; Where is the Niagara Escarpment? ". *Great Arc Workshop, Leading Edge 2001 Conference*. Niagara Escarpment Commission/Niagara Escarpment World Biosphere Reserve. Burlington, Ontario Canada. October 2001.

Lawrence, P.L. (2001). "Smart Growth in Ohio: The Big Picture". *Smart Growth in Ohio Workshop*. Ohio Department of Natural Resources. Cleveland, Ohio. July 2001.

Public Presentations (26):

Lawrence, P.L. (2020). "Lake Erie: Our Great Lake". *2020 Great Lakes Education Symposium.* Toledo Zoo, Toledo, OH. February 2020.

Lawrence, P.L. (2019). "Facilitating Informed Community Decision Making for Watershed and Water Resource Planning in the Toledo Area: 1999-2019". *2019 University of Toledo Research Symposium: Impacting Our Region Through Community-Engaged Scholarship.* Toledo, OH. April 2019.

Lawrence, P.L. (2016). "Saving the Ottawa River". *Toledo Torch Club.* Toledo, OH, October 2016.

Lawrence, P.L. (2015). "Challenges and Hope: Theater & Positive Change in the Age of Global Warming" (panel). *The Immortals.* University of Toledo Center for the Performing Arts. April 2015.

Lawrence, P.L. (2015). "Toledo and Water: What you need to know and what you can do to help". *UT Retirees Association Meeting*. Toledo, OH. January 2015.

Lawrence, P.L. (2014) "The 2014 Toledo Water Crisis: A Watershed Perspective". *Crisis: Freshwater in Northwest Ohio Panel.* Northern Ohio University. Ada, OH. October 2014.

Lawrence, P.L. et al. (2014). "Watershed Management". *Public Forum on Harmful Algae in Ohio's Great Lake*. University of Toledo, OH. August 2014.

Lawrence, P.L. (2014). "University of Toledo Ottawa River Restoration Project". *2014 Spring Maumee RAP Summit.* University of Toledo, Toledo, OH. May 2014.

Lawrence, P.L. (2014). "Ottawa River & You" The *Wonders of Water.* Toledo Section of the American Chemical Society. Toledo, OH. April 2014.

Lawrence, P.L. (2013). "A River That Runs Through Toledo (and Point Place!): An Environmental History of Tenmile Creek/Ottawa River". *University of Toledo Lake Erie Centre Public Speaker Series.* Oregon, OH. February 2013.

Lawrence, P.L. (2012). "Ottawa River Restoration at the University of Toledo". *Restoring Streams in Lucas County, Ohio Workshop.* Sylvania, OH. November 2012.

Lawrence, P.L. (2012). "University of Toledo Ottawa River Restoration Project: Update, Progress and Future Plans. *UT Ottawa River Restoration Project Public Meeting.* Toledo, OH. October 2012.

Lawrence, P.L. (2012). "Restoring the Ottawa River at the University of Toledo". *UT School of Law Brown Bay Lunch.* Toledo, OH. October 2012.

Lawrence, P.L. (2010). "Environmental Restoration of the Ottawa River at the University of Toledo". *Kiwanis Club of Northwest Toledo*. Toledo, OH. February 2010.

Lawrence, P.L. (2009). "What Watershed do you live in?" *PCS Watershed Patch Program.* Maumee, OH. April 2009.

Lawrence, P.L. (2007). "Hurricane Katrina: A Timeline". *From the Waters to the Future: A Public Lecture in Observation of the 2nd Anniversary of Hurricane Katrina*. University of Toledo, Ohio. August 2007.

Lawrence, P.L. (2007). "Geographic Information Science for Understanding Water Quality in the Maumee Area of Concern" *Presentation to the Sierra Cub, NW Ohio Chapter*. Rossford, Ohio. April 2007.

Lawrence, P.L. (2005). "Gard Island and the University of Toledo". *Ottawa River Cleanup Association (ORKA) meeting*. Toledo, Ohio. November 2005.

Lawrence, P.L. (2005). "Surf, Sand and Cool Drinks: We own an Island, What now? - Gard Island and the University of Toledo. *UT Lake Erie Centre Public Speaker Series*. June 2005.

Lawrence, P.L. (2004). " Wetlands of Northwest Ohio" *Society for Environmental Education*. University of Toledo. November 2004.

Lawrence, P.L. (2002). "Current Research on the Ottawa River: Land Use Changes and Sediment Loading." *Profiling the Ottawa River V: Biennial Conference on the Ottawa River, Ohio.* Maumee RAP Ottawa River Action Group. Toledo, Ohio. September 2002.

Lawrence, P.L. (2002) " Land Use Change, Urban Sprawl, and Smart Growth in Northwest Ohio". *University of Toledo EarthFest.* University of Toledo. April 2002.

Lawrence, P.L. (2002) Panel on " Perspectives on Global Warming". *University of Toledo EarthFest*. University of Toledo. April 2002

Lawrence, P.L. (2001). "Climate Change and Global Warming ". *Ohio Geographic Alliance Workshop*. University of Toledo. June 2001.

Lawrence, P.L. and K. Czajkowski (2001). " Environmental Problems and the Issue of Global Warming". *UT Summer Scholar Program, Department of Political Science and Public Administration*. University of Toledo. June 2001.

Lawrence, P.L. and K. Czajkowski (2001). "Climate Change and Global Warming: Current Issues and the Ongoing Debate." *Earthfest 2001*. University of Toledo. April 2001.

Academic/Professional Conference Presentations (146):

Lawrence, P.L. (2027). "Four Decades of Lake Erie Shoreline Management in Ontario: Success, Failure or Unresolved Potential" *2027 Coastal Zone Canada Conference*. University of Waterloo, Ontario, Canada. June 2027 (proposed)

Lawrence, P.L. (2027). "The Race to 64: Debates About Establishing New U. S National Parks". *2027 AAG Annual Meeting.* New York, NY. February 2027. (accepted)

Yankyera, S. and Lawrence, P.L. (2026) "The Spatial Structure of Inland Flood Loss in the United States: Exposure, Vulnerability, and Implications for Risk Governance". *2026 ELDAAG Annual Meeting*. Ohio State University. October 2026.

Lawrence, P.L. (2026). "Great Lakes Transboundary Water Management Challenges in the Trump Era" *2026 AAG Annual Meeting. San Francisco CA*, MI. March 2026.

Lawrence, P.L. (2025) "Are the Great Lakes Boundary Waters Treaty and the Great Lakes Water Quality Agreement at Risk?" 2025 ELDAAG Annual Meeting. University of Cincinnati OH. November 2025.

Lawrence, P.L. (2025). " 2014 Toledo Water Crisis: Science and Understanding a Decade Later"-Special Session Introduction and Overview" *2025 Conference on Great Lakes Research.* International Association of Great Lakes Research. Milwaukee, WI. June 2025.

Lawrence, P.L. (2025). "Cruise Ships on the Great Lakes-Considering the Community and Environmental Impacts-Case Study of Small Rural Towns in Michigan" *2025 AAG Annual Meeting.* Detroit, MI. March 2025.

Lawrence, P.L. (2024) "The 2014 Drinking Water Crisis in Toledo Ohio: Perspectives on a Decade of Progress Towards Improved Understanding and Responses, Yet No Solutions". *2024 ELDAAG Annual Meeting.* Western Michigan University, MI. October 2024.

Lawrence, P.L. (2024). Post Environmental Project Evaluation: How Successful Were We-Ottawa River Restoration at Main Campus of the University of Toledo 2013 to 2023. *2024 AAG Annual Meeting Virtual).* April 2024.

Lawrence, P.L. (2023) "A Decade Later: Observational Assessment of River Restoration Project Outcomes - Ottawa River, University of Toledo" *2023 ELDAAG Annual Meeting.* Maumee Bay Resort, OH. November 2023.

Kostecky, E. and Lawrence, P.L. (2023). "Assessing Shoreline Changes at Indiana Dune National Park at Lake Michigan (2013-2018) via LiDAR" *2023 Conference on Great Lakes Research.* International Association of Great Lakes Research. Toronto, ONT. May 2023.

Lawrence, P.L. (2023). "Cruise Ships on the Great Lakes: Economic Bonanza or Ecosystem Disaster". *2023 Annual Meeting of the American Association of Geographers (AAG).* Denver CO. April 2023.

Lawrence, P.L. (2022). "Evolution of Conservation Planning in Lake Erie" *Annual Meeting of the East Lakes Division of American Association of Geographers (ELDAAG)*. October 2022.

Lawrence, P.L. (2022). "Legacies and Prospects for Lake Erie Coastal System Conservation and Restoration in Less-Altered Coastal Ecosystems". 2022 Great Lakes Coastal Symposium Sault Ste. Marie, MI. September 2022.

Teye, E. and Lawrence, P.L. (2022). " A Transportation Simulation Model for selected CAFFs within the Maumee Watershed, Ohio". *2022 Waste to Worth Conference*. Extension Foundation and US Department of Agriculture. Maumee Bay State Park, Ohio. April 2022.

Lawrence, P.L. et al. (2022). " Development of an EcoHealth Report Card for Western Basin of Lake Erie" *2022 State of Lake Erie Conference*. Cleveland, OH. March 2022.

Gallagher, K. and Lawrence, P.L. (2022). "Conceptual models for the Planning and Valuation of Multi-Use Urban Trails." *2022 Annual Virtual Meeting of the American Association of Geographers.* March 2022.

Lawrence, P.L. (2021)' The U.S. National Park Dilemma" 2021 Joint Virtual/In-Person Annual Meeting of Applied Geography Conference/East Lakes Division AAG/West Lakes Division AAG. University of Toledo, OH. October 2021.

Lawrence, P.L. (2021) and Kostecky, E. "Coastal Resilience and Climate Change Challenges at Indiana Dunes National Park, Lake Michigan" *2021 Coastal Zone Canada Conference (virtual).* Coastal Zone Canada Association, Ottawa, CA. June 2021.

Lawrence, P.L. and Teye, E. (2021). "Spatial Distribution Model for Manure from Permitted Livestock Facilities, Maumee Watershed, Ohio". *2021 Virtual Conference on Great Lakes Research.* International Association of Great Lakes Research. Ann Arbor, MI. May 2021.

Lawrence, P.L (2021). "The Virtual Learning Experience: Views from an Undergraduate Geography Course, Fall 2020 term at University of Toledo". *2021 Annual Meeting of the American Association of Geographers (AAG) (virtual)*. Seattle, WA. April 2021.

Lawrence, P.L.(2020). " Perceptions of Lake Erie-A Student Survey" *2020 ELDAAG Annual Meeting (virtual).* Bowling Green State University, Bowling Green OH. October 2020.

Lawrence, P.L. (2020). "Academia in the Covid-19 Era: How Programs and Departments Must Address and Adapt" roundtable special session, *2020 Applied Geography Conference (virtual).* October 2020.

Kostecky, E. and Lawrence, P.L (2020). "2019 Great Lakes Record High Water Levels Shoreline Hazards: A survey of Parks and Protected Areas" *2020 Annual Natural Hazards Research and Applications Workshop (virtual)*. Natural Hazards Center. Boulder, CO. July 2020.

Kostecky, E. and Lawrence, P.L (2020). "Assessing Impacts of 2019 Record High Water Levels on Great Lakes Parks and Protected Areas" *2020 Annual Conference on Great Lakes Research (virtual)*. International Association of Great Lakes Research. Ann Arbor, MI. June 2020.

Lawrence, P.L.(2019). " A U.S. National Park on Lake Erie: What are the Prospects and Possibilities?" *2019 ELDAAG Annual Meeting.* Saginaw Valley State University, Saginaw, MI October 2019.

Teye, E., Lawrence, P.L., and P. Lindquist (2019). " Modelling of Transportation of Land Application of Nutrients from Permitted Livestock Facilities in the Maumee Basin, Ohio". *2019 Annual Great Lakes Research Conference.* SUNY Brockport, NY. June 2019.

Lawrence, P.L (2019). "Geographic Research on Harmful Algae Blooms (HABs): An Overview". *2019 Annual Meeting of the American Association of Geographers (AAG)*. Washington, DC. April 2019.

Gallagher, K. and Lawrence, P.L. (2018). " Can a Conceptual Model Using Environmental, Economic, and Social Factors Be Used To Guide The Planning and Valuation of Multi-Use Trails in Urban Areas?" *2018 Applied Geography Conference.* Kent State University, Kent, OH. November 2018.

Teye, E., Lawrence, P.L., and P. Lindquist (2018). " Economic Based Transportation Model for Land Application of Nutrients from Permitted Livestock Facilities in the Maumee Basin, Ohio". *2018 ELDAAG Annual Meeting.* Ohio Northern University, Ada, OH. October 2018.

Kostecky, E. and Lawrence, P.L. (2018). "Comparative Policy and Planning Evaluation of Approaches for Impaired Watershed Designation*s:* Chesapeake Bay and Western Basin Lake Erie". *2018 ELDAAG Annual Meeting.* Ohio Northern University, Ada, OH. October 2018.

Teye, E., Lawrence, P.L., and P. Lindquist (2018)." Economic Based Transportation Model for Land Application of Nutrients from Permitted Livestock Facilities in the Maumee Basin, Ohio". *2018 Understanding Algal Blooms: State of the Science Conference.* Toledo OH. September 2018.

Kostecky, E. and Lawrence, P.L. (2018). "Comparative Policy and Planning Evaluation of Approaches for Impaired Watershed Designation*s:* Chesapeake Bay and Western Basin Lake Erie". *2018 Understanding Algal Blooms: State of the Science Conference.* Toledo OH. September 2018.

Lawrence, P.L. (2018). "Informed Decision-Making for Community Stakeholders in the Maumee Watershed to Address Economic and Policy Responses for Lake Erie Harmful Algae Blooms." *2018 Annual Meeting of the American Association of Geographers (AAG)*. New Orleans, LA. April 2018.

Lawrence, P.L. (2017). "If You Build (or Allow) It They Will Come: Unsustaining Coastal Development: A Case Study of Hastings Drive, Long Point (Lake Erie), Ontario, Canada-1952 to 2017." *2017 ELDAAG Annual Meeting.* Eastern Michigan University, Ypsilanti,Marquette, MI. October 2017.

Lawrence, P.L. (2017). "What is in a Name? Should the Maumee AOC be the Toledo AOC". *2017 International Conference on Great Lakes Research.* Detroit, MI. May 2017.

Lawrence, P.L. (2017). "Engagement, Involvement and Key Roles of a Geographer(s) with a University Campus Effort towards River Restoration." *2017 Annual Meeting of the American Association of Geographers (AAG)*. Boston, MA. April 2017.

Lawrence, P.L. (2016). "30 Years Later -Evolution or (De)Evolution of Ontario Great Lakes Shoreline Management Plans, 1995-2015: A Case Study of Elgin County, Ontario." *2017 CAGONT Annual Meeting.* University of Waterloo, Ontario, Canada. October 2016.

Lawrence, P.L. (2016). "Multi-purpose River Cut Bank Feature on University of Toledo Main Campus." *2016 ELDAAG/WLDAAG Annual Meeting.* Northern Michigan University, Marquette, MI. October 2016.

Lawrence, P.L. (2016). "Challenges and Prospects for Great Lakes Protected Areas" (panel). *2016 Coastal Zone Canada Conference.* Toronto, Ontario, Canada. June 2016.

Lawrence, P.L., Egan, K. and Turner, K. (2016). "Lake Erie Harmful Algae Blooms Decision Making Support for Maumee Watershed Stakeholders ". *2016 International Conference on Great Lakes Research.* University of Guelph, Ontario, Canada. June 2016.

Lawrence, P.L. (2016). "Considering Potential Environmental Research Applications for an UAV Quadcopter along an Urban River". *2016 Annual Meeting of the American Association of Geographers (AAG)*. San Francisco, CA. April 2016.

Lawrence, P.L. (2016). "Multi-Benefits from a River Cutbank Feature". *2016 Environmental Connections Conference.* International Erosion Control Association. San Antonio, TX. February 2016.

Lawrence, P.L. (2016). "Wind Direction and Speed as Factors during the 2014 Lake Erie Harmful Algae Bloom" *2016 Annual Meeting American Metrological Society*. New Orleans, LA. January 2016.

Lawrence, P.L. (2015). "Why are there so many Golf Balls in that Dredged Sediment?: Golf Courses and Environmental Impacts to the Ten Mile Creek/Ottawa River in Toledo, Ohio". *2015 ELDAAG Annual Meeting.* Kent State University, Kent, OH. October 2015.

Lawrence, P.L. (2015). "2014 Toledo Drinking Water Crisis: Community, Planning, Policy Issues and Responses". *2015 International Conference on Great Lakes Research.* University of Vermont, Burlington, VT. May 2015.

Lawrence, P.L., Lindquist, P., Reid, N., Czajkowski, K., Hammel, D., Nemeth, D.J., Alam, B. and Smirnov, O. (2015). "Spatially Integrated Social Sciences at the Department of Geography and Planning, University of Toledo". *2015 Annual Meeting of the Association of American Geographers (AAG)*. Chicago, IL. April 2015.

Lawrence, P.L. (2015). "Local Community Responses to the August 2014 Toledo Drinking Water Crisis and Lake Erie HABs". *2015 Great Lakes Area of Concern Annual Conference.* USEPA Great Lakes Program Office. University of Toledo, Toledo, OH. March 2015.

Lawrence, P.L. (2015). "Ottawa River Restoration Project at the University of Toledo". *2015 Great Lakes Area of Concern Annual Conference.* USEPA Great Lakes Program Office. University of Toledo, Toledo, OH. March 2015.

Lawrence, P.L. (2015). "Using the Issue of Great Lakes Water Levels in an Online Line Learning Module on Climate Change for High School Science*". 2015 Annual Meeting American Metrological Society, 24th Symposium on Education*. Phoenix, AZ. January 2015.

Lawrence, P.L. (2014). "Great Lakes Restoration Initiative Efforts for the Ten Mile Creek/Ottawa River Watershed in the Maumee Area of Concern". *7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of The Coastal Society.* Washington, DC. November 2014.

Lawrence, P.L. (2014). "Yes, Geography and Geographers really do matter: Perspectives on the 2014 Toledo Drinking Water Crisis". *2014 ELDAAG/WLDAAG Joint Annual Meeting.* Western Michigan University, Kalamazoo, MI. October 2014.

Lawrence, P.L. (2014). "Geography in the next fifty years: Special Panel Session in recognition of 50th Anniversary of the Department of Geography and Planning at the University of Toledo". *2014 Annual Meeting of the Association of American Geographers (AAG)*. Tampa, FL. April 2014.

Lawrence, P.L. (2014). "Rehabilitation of the Ottawa River at the University of Toledo". *2014 IECA Environmental Connections Conference*. Memphis, TN. February 2014.

Lawrence, P.L. (2014). "Building a Department of Colleagues". *30th Annual Academic Chairpersons Conference.* Jacksonville, FL. February 2014.

Lawrence, P.L. (2013). "Ottawa River Restoration Project at the University of Toledo*".* *2013 ELDAAG/CAGONT Joint Annual Meeting.* Toledo, OH. October 2013.

Lawrence, P.L. (2013). "Restoration of the Ottawa River at the University of Toledo". *River Restoration Workshop.* US ACOE and Partners for Clean Streams Inc. University of Toledo, Toledo, OH. August 2013.

Lawrence, P.L. (2013). "Restoration and Resiliency in Great Lakes Areas of Concern: Experience with 25 years of efforts in the Tenmile Creek/Ottawa River, Maumee Area of Concern (1987-2012)". *2013 International Association for Great Lakes Research Conference*. Purdue University, Indiana. June 2013.

Lawrence, P.L, Mierzwiak, S., Czajkowski, K., and Nemeth, D.J. (2013). " Mom what if all the water went away? Using A Counter Factual Story For A High School Learning Module On Climate Change - Draining The Great Lakes". *2013 Annual Meeting of the Association of American Geographers (AAG)*. Los Angeles, CA. April 2013.

Lawrence, P.L. (2013). The Evolution and Revolution of National Park Planning: Perspectives and Reflections Twenty Five Years after the Establishment of the Bruce Peninsula National Park, Canada (1987-2012). *2013 George Wright Society Conference*. Denver, CO. March 2013.

Lawrence, P.L., Derrick, D., Horvat, M., Blair, C., and Patterson, K. (2013). "Rocks, Riffles and Restoration: The Tenmile Creek/Ottawa River, Ohio". *2013 IECA Annual Conference.* San Diego. CA. February 2013.

Lawrence, P.L, Mierzwiak, S., Czajkowski, K., and Nemeth, D.J. (2013). "A Climate Change Learning Module for High School Educators Examining the Misconception of Weather versus Climate Using the Example of Great Lakes Water Levels". *2013 Annual Meeting American Metrological Society, 21st Symposium on Education*. Austin, TX. January 2013.

Lawrence, P.L. (2012). "Restoring the Ottawa River at the University of Toledo". *Sustainable U: Perspectives on Sustainability in Higher Education and Beyond in NW Ohio.* University of Toledo, OH. November 2012.

Lawrence, P.L. (2012). "Ecosystem Conservation Plan for the Lake Erie Bluffs Park, Ohio"
2012 West Lakes/East Lakes Divisions Association of American Geographers Joint Annual Meeting. Northern Illinois University, DeKalb, IL. October 2012.

Lawrence, P.L. (2012). " Coastal Watershed Restoration in the Great Lakes: Progress in the Ten Mile Creek/Ottawa River Watershed, Ohio". *The 23rd Coastal Society Conference.* Miami, FL. June 2012.

Lawrence, P.L. (2012). "Toward Integration: Linking Ecology, Engineering, and Environmental Planning for Enhancing and Restoring the Ottawa River at the University of Toledo, Ohio *2012 Annual Meeting of the Canadian Association of Geographers (CAG).* University of Waterloo, Waterloo, Ontario, Canada. May 2012.

Tsapranis, M., Czajkowski, K., and Lawrence, P.L. (2012). "Teaching Climate Change through Project-based Science". *2012 National Science Teachers Association National Conference*. Indianapolis, IN. March 2012.

Hedley, M.L., Czajkowski, K., Lawrence, P.L. and Struble, J.L. (2012). "Scientists and Science Educators: A Working Partnership in Developing Project-based Science (PBS) Courses for Teachers." *2012 National Science Teachers Association National Conference*. Indianapolis, IN. March 2012.

Lawrence, P.L. (2012). " The River Runs through it: Planning for the Ottawa River, University of Toledo - A Five Year Progress Report" *Greening of the Campus XI Conference.* Ball State University, Muncie, In. March 2012.

Lawrence, P.L. and Czajkowski, K (2012). " Climate Change Education Initiatives at the University of Toledo". *2012 Annual Meeting of the Association of American Geographers (AAG).* New York, NY. February 2012.

Lawrence, P.L. and Czajkowski, K. (2012). "Developing Climate Change Learning Modules for High School Educators". *2012 Annual Meeting American Metrological Society, 21st Symposium on Education*. New Orleans, LA. January 2012.

Lawrence, P.L. (2011). "Managing Your Bluffs: Opportunities for Conservation of the Cohesive Clay Shorelines of Lake Erie." *ELDAAG 2011 Annual Meeting*. Youngstown, OH. October 2011.

Lawrence, P.L. (2011). "Clean Your Streams: International Coastal Cleanup and the Ohio Coastal Weeks efforts in the Maumee Great Lakes Area of Concern, Lake Erie." *Coastal Zone 2011 Conference*. Chicago, IL. July 2011.

Lawrence, P.L. (2011). " Connecting Environmental Education to Urban River Restoration at the University of Toledo, Ohio. " *2011 Annual Meeting of the Association of American Geographers (AAG).* Seattle, WA. April 2011.

Lawrence, P.L. (2011). "The EC3 Project: Linking River Restoration, Stormwater Improvements, and Bank Stabilization for a section of the Ottawa River, University of Toledo, Ohio." *2011 Environmental Connection 11, IECA Annual Conference.* Orlando, FL. February 2011.

Lawrence, P.L. (2010). "The Challenges and Opportunities for Parks and Protected Areas in the Lake Erie Watershed." *ELDAAG 2010 Annual Meeting*. Grand Valley State University, Grand Rapids, MI. October 2010.

Lawrence, P.L. (2010). "Coastal Management Measures for the Lower Mamuee Watershed, NW Ohio." *The 22nd Coastal Society Conference.* Wilmington, NC. June 2010.

Lawrence, P.L. (2010). "Completion of a Watershed Restoration Plan/Stage II for the Maumee Area of Concern." *2010 International Association for Great Lakes Research Conference*. University of Toronto, Ontario. May 2010.

Lawrence, P.L., Czajkowski, K., Dean, D., Thompson, J., Randall, J., Coss, J., Haney, P., Swartz, K. and Hayase, R. (2010). " GIS and Remote Sensing Applications for Watershed Planning: Five Years of Activities for the Maumee Basin, Ohio: 2005-2010." *2010 American Society for Photogrammetry & Remote Sensing (ASRPS) Annual Conference.* San Diego, CA. April 2010.

Lawrence, P.L. (2010). " Development of a Climate Change course for an Undergraduate Geography Program" *2010 Annual Meeting of the Association of American Geographers (AAG).* Washington, D.C. April 2010.

Lawrence, P.L. (2010). " Watershed Planning for a Great Lakes Area of Concern: Recent Efforts and Projects within the Maumee Watershed, Ohio." *2010 Land Grant-Sea Grant National Water Conference*. Hilton Head, SC. February 2010.

Lawrence, P.L. (2010). "The Experience and Evaluation of a new undergraduate course on Climate Change." *2010 Annual Meeting American Metrological Society, 19th Symposium on Education*. Atlanta, GA. January 2010.

Lawrence, P.L. (2009). "Greening of the Campus: Successes and Frustrations at the University of Toledo, Ohio. " *ELDAAG 2009 Annual Meeting*. Wright State University, Dayton, OH. October 2009.

Lawrence, P.L. (2009) "Projects in the Maumee Area of Concern: An Overview of PCS Inc. and Progress." *2009 International Association for Great Lakes Research Conference*. University of Toledo, Ohio. May 2009.

Lawrence, P.L. (2009). "Spatially Integrated Social Science and Watershed Planning: Examples from the Maumee Watershed, Ohio." *2009 Annual Meeting of the Association of American Geographers (AAG).* Las Vegas, NV. March 2009.

Lawrence, P.L., Czajkowski, IK., Dean,D., Ault, T., Swartz, K., Coss,J., and Hayase, R. (2009). "Changes in Use, Crop Types, Tillage Practices in the Maumee Watershed, Ohio: 2005-2007." *2009 NRCS-CSREES National Water Conference*. St. Louis, MO. February 2009.

Lawrence, P.L. (2009). "Development of a new undergraduate course on Climate Change to be taught within an Internet Distance Learning Environment." *2009 Annual Meeting American Metrological Society, 18th Symposium on Education*. Phoenix, Az. January 2009.

Lawrence, P.L. (2008). "Why not just move the River? The Saga of the Ottawa River, Interstate 75, and the Jeep Factory in Toledo, Ohio." *CAGONT/ELDAAG 2008 Annual Meeting*. Brock University, St. Catherines, Ontario. October 2008.

Lawrence, P.L. (2008). "Teaching Climate Change in the "An Inconvenient Truth" Era." *2008 National Council for Geographic Education Annual Conference.* Dearborn, MI. October 2008.

Lawrence, P.L. (2008). "Concentrated Animal Feed Operations (CAFOs): Implications for Watershed Planning in the Great Lakes Coastal Zone in NW Ohio." *2008 The Coastal Society Conference.* Los Angeles, CA. June 2008.

Lawrence, P.L. (2008). "Achieving Teamwork: Linking Watershed Planning and Coastal Zone Management – The Case of the Maumee Basin, Lake Erie." *2008 Coastal Zone Canada Conference.* Vancouver, BC. May 2008.

Lawrence, P.L. (2008) "Twenty Years Later: Reflections on the Great Lakes RAP Experience for Watershed Planning in the Maumee Area of Concern 1987 to 2007." *2008 International Association for Great Lakes Research Conference*. Peterborough, Ontario, Canada. May 2008.

Lawrence, P.L., Czajkowski, K., Dean, D., Coss, J., Haney,P., Swartz, K. and Hayase, R. (2008). "Geographic Information System (GIS) and Remote Sensing Geospatial Online Data Management Project for the Maumee Watershed, Ohio." *2008 American Society for Photogrammetry & Remote Sensing (ASRPS) Annual Conference.* Portland, OR. April 2008.

Lawrence, P.L. (2008). "Take a Piece of Trash, Put it in a Bag: Spatial and Temporal Trends from Ten Years of the Clean Your Streams Event (1995-2006) in the Lower Maumee Watershed, Ohio." *2008 Annual Meeting of the Association of American Geographers (AAG).* Boston, MA. April 2008.

Lawrence, P.L. (2007). " What we learned from the Red Cedar Creek at Michigan State University: Planning for the Ottawa River at the University of Toledo." *2007 ELDAAG Conference*. Michigan State University, East Lansing, MI. October 2007.

Lawrence, P.L. (2007). "Comparison of Instructional Approaches for an undergraduate university course on Environmental Geography: Classroom Lecture versus Distance Learning Internet formats." *2007 National Council for Geographic Education Annual Conference.* Oklahoma City, Oklahoma. October 2007.

Lawrence, P.L., Czajkowski, K., Dean, D., Coss, J., Haney,P., Swartz, K. and Hayase, R. (2007). "Maumee GIS Watershed Project: An Overview." *2007 Maumee River Basin Partnership of Local Governments (MRBPLG) Annual Conference*. Findlay, OH. October 2007.

Lawrence, P.L. and Swartz, K. (2007). " Use of GIS for Watershed Planning in the Maumee Basin, Ohio." *2007 Ohio GIS Conference.* Columbus, OH. September 2007.

Lawrence, P.L. (2007). " The River Runs through it: Planning for the Ottawa River, University of Toledo." *Greening of the Campus VII.* Ball State University, Muncie, Indiana. September 2007

Lawrence, P.L. and Gerwin, K. (2007). "Relationship between Land Cover, Aquatic Biological Integrity and Habitat Quality in the Lake Erie Tributaries, Maumee Area of Concern, NW Ohio." *International Association for Great Lakes Research 50th Annual Conference on Great Lakes Research*. Penn State University, PA. May 2007.

Lawrence, P.L. (2007). "Organizing Spatial Data for Watershed Planning in the Maumee Basin, Ohio." *2007 Annual Meeting of the Association of American Geographers (AAG).* San Francisco, CA. April 2007.

Lawrence, P.L., Czajkowski, K., Dean, D., Coss, J., Haney,P., Swartz, K. and Hayase, R. (2007). "Maumee Watershed Project." *2007 NRCS-CSREES National Water Conference*. Savanna, Georgia. January 2007.

Lawrence, P.L. and Sachs, M. (2006). "A University Urban Village: Secor Gardens and the University of Toledo, Ohio." *2006 Association of Collegiate Schools of Planning (ACSP) Annual Conference*. Ft. Worth, Texas. November 2006.

Lawrence, P.L. (2006). "Developing Internet Teaching Modules for a Natural Disasters Course: 2004 Tsunami and 2005 Hurricane Katrina." *2006 ELDAAG Conference.* University of Toledo, Toledo, OH. October 2006.

Lawrence, P.L. (2006). "Content Analysis of Leading Edge Conference Abstracts 1994 – 2006: Highlights and Trends." 2006 *Leading Edge Conference.* Niagara Escarpment Commission. Burlington, Ontario. October 2006.

Lawrence, P.L. (2006). "The Niagara Escarpment in the Upper Peninsula of Michigan: Experiences and Opportunities in Land Conservation and Protected Areas." *Great Arc IV Workshop. 2006 Leading Edge Conference.* Niagara Escarpment Commission. Burlington, Ontario. October 2006.

Gerwin, K. and Lawrence, P.L. (2006). "Development of Land Use Impact and Water Quality Online Information System for the Maumee RAP in support of a Stage II report and community decision making". *International Association for Great Lakes Research 49th Annual Conference on Great Lakes Research*. University of Windsor, Windsor, Ontario. May 2006.

Lawrence, P.L. (2006). "Gard Island: A New Addition to the Detroit River International Wildlife Refuge." *International Association for Great Lakes Research 49th Annual Conference on Great Lakes Research*. University of Windsor, Windsor, Ontario. May 2006.

Lawrence, P.L. (2006). "Across the Lakes, Across the Border: A Comparison of Great Lakes Remedial Action Plans from Toronto, Ontario and Maumee, Ohio Areas of Concern." *2006 Annual Meeting of the Association of American Geographers (AAG).* Chicago, IL.. March 2006.

Lawrence, P.L. (2006). " Watershed Planning and Water Quality in Maumee River Watershed, Ohio." *2006 NRCS-CSREES National Water Conference*. San Antonio, TX. February 2006.

Lawrence, P.L. (2005). "A Watershed Restoration Action Strategy (WRAS) for Open Space and Wetlands in the Maumee Remedial Action Plan (RAP), Ohio." *2005 Applied Geography Conference.* Washington DC. November 2005.

Lawrence, P.L. (2005). "Environmental Planning Aspects of the new University of Toledo Facilities Master Plan." *2005 ELDAAG Conference.* Bowling Green State University, Bowling Green, OH. October 2005.

Lawrence, P.L. and K. Czajkowski. (2005). " Maumee Watershed GIS and Remote Sensing Project." *Maumee River Basin Partnership of Local Governments Annual Conference*. Lima, OH. October 2005.

Lawrence, P.L. (2005). " Wetlands Planning in NW Ohio." *NW Ohio Wetlands Forum*. Maumee RAP Open Space and Wetlands Action Group. Toledo, Ohio. June 2005.

Lawrence, P.L. (2005). " Great Lakes Shoreline Management and the Remedial Action Plans (RAPs): Case Study of the Maumee RAP. " *International Association for Great Lakes Research 48th Annual Conference on Great Lakes Research*. University of Michigan, Ann Arbor, Michigan. May 2005.

Lawrence, P.L., Attoh, S. and Czajkowski, K. (2005). " Community Planning in a rural agriculture county experiencing urban sprawl: Application of the USDA Landscape Suitability Analysis and GIS for Fulton County, Ohio." (panel session). *2005 Annual Meeting of the Association of American Geographers (AAG).* Denver, CO. April 2005.

Lawrence, P.L. (2005). " Community Based Efforts to address Great Lakes Wetland Issues in the Maumee River Watershed, Ohio: Technology, Education, Public Awareness, and Planning Initiatives." *Great Lakes Coastal Wetlands: 10th Annual Wetland Science Forum.* Wisconsin Wetlands Association and Wisconsin Coastal Management Program. Green Bay, Wisconsin. January 2005.

Lawrence, P.L. (2004). " GIS and Web Technology for Wetland Planning." *Great Lakes Regional Data Exchange Conference.* Detroit, Michigan. October 2004.

Lawrence, P.L. (2004). " What to Do with an Island? Environmental Planning Options and Opportunities for Gard Island and the University of Toledo. " *2004 ELDAAG Conference.* Ohio University, Athens, Ohio. October 2004.

Lawrence, P.L. (2004). " How soon we forget - October 16, 2005 the 50th Anniversary of Hurricane Hazel in the Great Lakes Basin: Remembrances and Reflections from an Environmental Planning Perspective". *2004 ELDAAG Conference.* Ohio University, Athens, Ohio. October 2004.

Lawrence, P.L. (2004) " Managing Shared Waters – Progress with the Great Lakes Coastal Network". *2004 Coastal Zone Canada Conference.* St.Johns Newfoundland, Canada. June 2004.

Norbick, N. and Lawrence, P.L. (2004) " Development of Remote Sensing Techniques for the Classification and Inventory of Wetlands in the Maumee Area of Concern, Ohio." *International Association for Great Lakes Research 47th Annual Conference on Great Lakes Research*. Waterloo, Ontario Canada. May 2004.

Lawrence, P.L. and J. Gordon Nelson (2004). "Planning for the Great Arc Landscape Corridor: The Niagara Escarpment in a Regional Context. " *2004 Geological Association of Canada Annual Meeting*. St.Catherines, Ontario. May 2004.

Lawrence, P.L. (2004). "Landscape Characterization of the Niagara Escarpment in Southwestern Ohio." *2004 Geological Association of Canada Annual Meeting*. St.Catherines, Ontario. May 2004.

Lawrence, P.L. (2004). "Addressing Wetlands Issues and Concerns within the context of Watershed Basin Planning in the Maumee Watershed, Ohio". *2004 Annual Meeting of the Association of American Geographers (AAG).* Philadelphia, PA. March 2004.

Lawrence, P.L. (2004) " The Great Arc." *Leading Edge'04 Conference*. St.Catherines, Ontario. March 2004.

Lawrence, P.L. and DeMars, A.J. (2004). "A Geographic Information System Probability of Occurrence Model for the Niagara Escarpment in Southwestern Ohio". *Leading Edge'04 Conference*. St.Catherines, Ontario. March 2004.

Lawrence, P.L. (2004) "Describing the Great Arc: Landscape Characteristics of the Niagara Escarpment outside Ontario within New York, Wisconsin, Michigan, Illinois, and Indiana." *Great Arc Project Workshop II, Leading Edge'04 Conference*. St.Catherines, Ontario. March 2004.

Lawrence, P.L. (2003) " Great Lakes Shoreline Management in Ontario: An Overview." *2003 Latornell Conservation Symposium.* Alliston, Ontario. November 2003.

Torbick, N and Lawrence, P.L. (2003). "The Utilization of Remote Sensing and Geographic Information Systems (GIS) for the Development of a Wetlands Classification and Inventory in the Maumee Area of Concern". *2003 ELDAAG Conference*. Western Michigan University, Kalamazoo, Michigan. October 2003.

Gerwin, K. and Lawrence, P.L. (2003). "Study of Sediment Loading and Land Use Trends in the Ottawa River Watershed, Northwest Ohio". *2003 ELDAAG Conference*. Western Michigan University, Kalamazoo, Michigan. October 2003.

DeMars, A. and Lawrence, P.L. (2003). "The Application of Geographic Information Science (GIS) Technology for a Landscape Characterization of the Niagara Escarpment, Southwest Ohio". *2003 ELDAAG Conference*. Western Michigan University, Kalamazoo, Michigan. October 2003.

Lawrence, P.L. (2003) " Science and the Management of the Great Lakes Coast: A Case Study of the Maumee Area of Concern." *Canadian Coastal Conference 2003*. Kingston, Ontario. October 2003.

Lawrence, P.L. (2003) " The Managing Shared Waters Project: Progress, Outcomes and Follow-up." *International Association for Great Lakes Research 46th Annual Conference on Great Lakes Research / International Lake Environment Committee 10th World Lakes Conference*. Chicago, IL. June 2003

Lawrence, P.L. (2003) "Examining US-Canada Transboundary Bioregional Planning Arrangements as Models for the Lake Erie Islands." *Mid-Continent Regional Science Association 2003 Annual Conference*. Cleveland, Ohio. May 2003.

Lawrence, P.L., Kaktins, S-L., and DeMars, A. (2003). "Landscape Characterization of the Niagara Escarpment in Southwestern Ohio by Use of Geographic Information Science Technology." *112th Annual Meeting of The Ohio Academy of Science*. University of Findley, Findley, Ohio. April 2003.

Lawrence, P.L., Horvat, M., Grigore, M., Czajkowski, K. and Torbick, N. (2003). "Challenges and Limitations Using Remote Sensing to Delineate Wetlands in Northwest Ohio." *Ohio Geospatial Technology Conference for Agriculture and Natural Resource Applications.* Columbus, Ohio. March 2003.

Lawrence, P.L. (2003) "Assessing Capacity for Managing Shared Waters." *2003 Annual Meeting of the Association of American Geographers (AAG).* New Orleans, LA. March 2003.

Lawrence, P.L. (2002). " The Preparation of a Watershed Restoration Action Strategy (WRAS) for Open Spaces and Wetlands in the Maumee River Area of Concern, Northwest Ohio." *ELDAGG 2002: East Lakes Division, Association of American Geographers Annual Meeting*. Central Michigan University, Mt. Pleasant, Michigan. October 2002

Lawrence, P.L. (2002). "Experiences with Transboundary Coastal Ecosystem Management in the Great Lakes." *Managing Shared Waters / Coastal Zone Canada 2002 Conference*. Hamilton, Ontario Canada. June 2002

Lawrence, P.L and K. Czajkowski (2002). "The Utilization of Remote Sensing for Land Cover Change Analysis for Environmental Decision-Making: Selected Case Studies from Northwestern Ohio." *AAG 2002: Association of American Geographers Annual Meeting (AAG)*. Los Angeles, CA. March 2002.

Lawrence, P.L. S. Fuller and K. Czajkowski (2001). " The Application of Remote Sensing Technology for Wetland Classification and Implications for Environmental Planning within the Maumee River Watershed, NW Ohio". *ELDAGG 2001: East Lakes Division, Association of American Geographers Annual Meeting*. Cincinnati, OH October 2001.

Lawrence, P.L. (2001). "The Search for the Niagara Escarpment in Southwestern Ohio." *Leading Edge 2001 Conference on the Niagara Escarpment.* Ontario Ministry of Natural Resources, Niagara Escarpment Commission. Burlington, Ontario Canada. October 2001.

Lawrence, P.L. (2001). "Linking Land and Water Across the United States/Canadian Border: Great Lakes Transboundary Coastal Ecosystem Management within the Lake Erie basin". *Coastal Zone 2001 Conference*. Cleveland, OH July 2001.

Lawrence, P.L. (2001). "From Concept to Practice: Selected Great Lakes Ecosystem Planning Case Studies from Northwest Ohio." *2001 Association of American Geographers Annual Meeting (AAG)*. New York, NY. February 2001.

Lawrence, P.L. (2000). "Assessing Great Lakes Coastal Hazard Policies". *Canadian Association of Geographers Annual Meeting 2000*. Brock University, St. Catherines, Ontario. June 2000.

Lawrence, P.L. and J.G. Nelson (2000). "Preparing for Ecosystem Conservation Planning of Bruce Peninsula National Park." *SAMPA 2000: 4th Annual Conference on Science and the Management of Protected Areas*. University of Waterloo, Ontario. May 2000.

Lawrence, P.L., J.G. Nelson, Stephenson, B. (2000). "Conservation of the Carolinian Canada sites in Southern Ontario." *SAMPA 2000: 4th Annual Conference on Science and the Management of Protected Areas*. University of Waterloo, Ontario. May 2000.

Lawrence, P.L. (2000). "Organizing for Informed Decision-Making in Ecosystem Planning."
2000 Association of American Geographers Annual Meeting (AAG). Pittsburg, PA. April 2000.