

CURRICULUM VITAE

PATRICK L. LAWRENCE
B.E.S., M.Sc., Ph.D.

Chair & Professor
Department of Geography and Planning
<http://www.utoledo.edu/al/geography/>

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ADDITIONAL UNIVERSITY APPOINTMENTS

- Affiliated Faculty – Earth, Ecological and Environmental Sciences Department
- Member, UT Water Task Force
- Research Associate, Lake Erie Research Center
- Full Membership, Graduate Council
- Research Associate, Urban Affairs Center

RESEARCH INTERESTS

- ✓ Water Resources / Watershed Management/ Wetland Planning
- ✓ 2014 Toledo drinking water crisis and Lake Erie HABs
- ✓ Planning for Urban Stream Restoration
- ✓ Climate Change education
- ✓ 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

- Lake Erie Harmful Algae Blooms policy and planning aspects
- Urban stream restoration for the Ottawa River, University of Toledo
- Maumee GIS and Remote Sensing database development
- Watershed Planning and management, Maumee Area of Concern

TOPICS OF COURSE INSTRUCTION (developed and Taught since 2000)

- Environmental Geography (BA Geography/UT General Education Core), Lecture/DL formats
- Geography of United States and Canada (BA Geography/UT Multicultural course) DL format
- Environmental Planning (BA Geography)/Lecture and Blended formats
- Climate Change (Distance Learning/Internet course)
- Geographic Research and Natural Disasters (Distance Learning/Internet course)
- Geography of the Great Lakes (Distance Learning/Internet course)
- Graduate Seminar in Environmental Planning (MA Geography)
- Graduate Seminar in Research Design (MA Geography and SISS PhD program sections)
- Professional Development in Geography (MA Geography program)
- Environmental Aspects of SISS (SISS PhD program)
- Natural Disasters and Hazards (Master of Liberal Studies Program)
- Great Lakes Environmental Issues and Human Impacts (Master of Liberal Studies Program)

EDUCATION HISTORY

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

Advisor: Dr. J. Gordon Nelson
Comprehensive Exams: December 23, 1992 (passed)
Thesis Defense: January 19, 1996 (passed, thesis accepted with revisions)
Degree Awarded: May 22, 1996
Dissertation topic: Great Lakes Shoreline Flooding and Erosion Hazards: Towards a Strategy for Decision-Making in Ontario
Courses: Problems in Resource Management, Environmental Assessment, Land Use History/Landscape Change, Research Proposal/Design

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

Advisor: Dr. Robin. G.D. Davidson-Arnott
Degree Awarded: October 4th, 1991
Thesis Title: Wave Energy and Sediment Transport Patterns on Southeastern Lake Huron and Implications for Shoreline Management
Courses: Environmental Resource Evaluation, Coastal Geomorphology, Coastal Processes, Fluvial Processes

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

Advisor: Dr. D. Ian McKenzie
Degree Awarded: May 24, 1989
Thesis Title: Shoreline Classification along the Niagara Escarpment, Bruce Peninsula, Ontario
Courses (selected): Water Resource Management, Aerial Photography Interpretation, Glacial Geomorphology, Field/Lab Techniques in Geomorphology, Historical Geology, Quaternary Geology

TECHNICAL AND COMPUTER EXPERIENCE

Field surveying and geomorphological lab techniques
IBM: Windows, Word/WordPerfect, Lotus123/Excel, Freelance
Corel Draw, Draw for Windows, Power Point
Geographic Information Systems: SPANS, ARC-INFO, ARCVIEW, ARCGIS

LEADERSHIP TRAINING

2016-2017 University of Toledo Leadership Institute
2015 University of Toledo Chairs Workshop
2014 Annual Academic Chairpersons Conference
2011 Association of American Geographers Department Chair Workshop

ACADEMIC AND PROFESSIONAL AWARDS

2018	UT Sabbatical Leave
2018	Quality Matters 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	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)
1997	Great Lakes Research Student/Faculty Conference Travel Grant (\$250)
1995	University of Waterloo Graduate Scholarship (\$1100)
1994	University of Waterloo Graduate Travel Grant (\$400)
1993	University of Waterloo Graduate Travel Grant (\$375)
1992	CAG '92 Travel Grant (\$200)
1991	University of Waterloo Graduate Scholarship (\$1100)
1989	CAGONT '89 Student Essay Award (\$100)
1989	University of Guelph Graduate Scholarship (\$1200)
1984	Norman Rolling Bursary (University Entrance) (\$800)

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, University of Toledo
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
1996-1999 Postdoctoral Research Associate, Heritage Resources Centre, University of Waterloo
1992-1995 Project Coordinator, Long Point Environment Project, Heritage Resources Centre, University of Waterloo
1992- 1993 Research Coordinator, Heritage Resources Centre, University of Waterloo
1991-1992 Project Coordinator, Lake Huron Shoreline Study, Heritage Resources Centre, University of Waterloo
Summer 1990 Graduate Research Assistant (Great Lakes Coastal Field Research), Department of Geography, University of Guelph
Summer 1989 Shoreline Management Technician, Maitland Valley Conservation Authority, Wroxeter, Ontario
Summer 1988 Research Technician, Ontario Ministry of Environment, Toronto, Ontario

PROFESSIONAL MEMBERSHIPS

1993-present American Association of Geographers (AAG)
1990-present International Association for Great Lakes Research (IAGLR)
1988-present Canadian Association of Geographers (CAG)
2006-2014 The Coastal Society (TCS)
1998-2008 Coastal Zone Canada Association (CZCA)
1991-2003 Canadian Coastal Science and Engineering Association (CC-SEA)
1990-2005 Coastal Education and Research Foundation (CERF)
1989-2003 American Shore & Beach Preservation Association (ASBPA)
1987-2000 Royal Canadian Geographic Society (RCGS)

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, 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:

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, College Technology Committee
 2010 Member, Search Committee, Dean of College of Languages, Literature and Social Sciences
 2009-2010 Member, Arts and Science Council Elections Committee
 2004-present Member, Spatially Integrated Social Science (SISS) Program Committee
 2001-2010 Member, 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:

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
 2000-present Full Membership, Graduate Council
 2000-2015 Research Associate, Urban Affairs Center
 2005-2006 President’s Commission on the River (co-chair)
 2003-2004 Mentor, QUEST program

COMMUNITY SERVICE

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 Planning 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

2020 Member, AAG COVID-19 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
 2019-2020 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

Grant Reviewer:

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

ACADEMIC SERVICE

Current Graduate Student Advisory Committee Chair:

Karen Gallagher, ABD (SISS PhD program) “Planning Model for Evaluating Establishment of Urban Trails”

Tanzia Ahmed, candidate (MA Geography) “Tracking waterborne plastics from major sources in the Maumee Watershed”

PhD SISS Committee Chair (1): (Dissertation successfully defended)

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 (10): (Thesis Successfully Defended)

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)

Graduate Student Committees/Advising (40+ total students):

- 2019-2020 PhD SISS Advisory Committee Chair (2 students)
 2019-2020 PhD SISS Advisory Committee Member (1 student)
 2019-2020 MA Thesis Advisory Committee Chair (1 student)
 2019-2020 MA Graduate Comprehensive Exam Committee Member (1 student)
- 2018-2019 PhD SISS Advisory Committee Chair (2 students)
 2018-2019 PhD SISS Advisory Committee Member (1 student)
 2018-2019 MA Graduate Comprehensive Exam Committee Member (1 student)
- 2017-2018 PhD SISS Advisory Committee Chair (2 students)
 2017-2018 PhD SISS Advisory Committee Member (1 student)
 2017-2018 MA Graduate Comprehensive Exam Committee Member (2 students)
- 2016-2017 PhD SISS Advisory Committee Chair (2 students)
 2016-2017 PhD SISS Advisory Committee Member (1 student)
 2016-2017 MA Graduate Comprehensive Exam Committee Member (2 students)
 2016-2017 MA Graduate Advisory Committee Chair (1 student)
- 2015-2016 PhD SISS Advisory Committee Chair (2 students)
 2015-2016 PhD SISS Advisory Committee Member (1 student)
 2015-2016 MA Graduate Comprehensive Exam Committee Member (2 students)
 2015-2016 MA Graduate Advisory Committee Chair (2 students)
- 2014-2015 PhD SISS Advisory Committee Chair (1 student)
 2014-2015 MA Graduate Comprehensive Exam Committee Member (2 students)
 2014-2015 MA Graduate Advisory Committee Member (2 students)
- 2013-2014 PhD SISS Advisory Committee Chair (1 student)
 2013-2014 MA Graduate Comprehensive Exam Committee Member (2 students)
 2013-2014 MA Graduate Advisory Committee Member (2 students)
 2013-2014 PhD SISS Advisory Committee Member (1 student)
- 2012-2013 MA Graduate Thesis Committee Chair (1 student)
 2012-2013 MA Graduate Thesis Defense Committee Member (2 students)
 2012-2013 MA Graduate Comprehensive Exam Committee Member (2 students)
 2012-2013 MA Graduate Advisory Committee Member (2 students)
 2012-2013 PhD SISS Advisory Committee Member (2 students)
- 2011-2012 MA Graduate Thesis Committee Chair (2 students)

2011-2012	MA Graduate Thesis Defense Committee Member (2 students)
2011-2012	MA Graduate Comprehensive Exam Committee Member (2 student)
2011-2012	MA Graduate Advisory Committee Member (3 students)
2011-2012	PhD SISS Advisory Committee Member (1 student)
2010-2011	MA Graduate Thesis Committee Chair (1 student)
2010-2011	MA Graduate Thesis Defense Committee Member (2 students)
2010-2011	MA Graduate Comprehensive Exam Committee Member (1 student)
2010-2011	MA Graduate Advisory Committee Member (3 students)
2009-2010	MA Graduate Thesis Committee Chair (2 students)
2009-2010	MA Graduate Thesis Defense Committee Member (2 students)
2009-2010	MA Graduate Comprehensive Exam Committee Member (2 students)
2009-2010	MA Graduate Advisory Committee Member (2 students)
2008-2009	MA Graduate Thesis Committee Chair (3 students)
2008-2009	MA Graduate Thesis Defense Committee Member (2 students)
2008-2009	MA Graduate Comprehensive Exam Committee Member (4 students)
2008-2009	MA Graduate Advisory Committee Member (2 students)
2007-2008	MA Graduate Thesis Committee Chair (3 students)
2007-2008	MA Graduate Thesis Defense Committee Member (2 students)
2007-2008	MA Graduate Comprehensive Exam Committee Member (3 students)
2007-2008	MA Graduate Advisory Committee Member (3 students)
2006-2007	MA Graduate Thesis Committee Chair (3 students)
2006-2007	MA Graduate Thesis Defense Committee Member (2 students)
2006-2007	MA Graduate Advisory Committee Member (3 students)
2005-2006	MA Graduate Thesis Committee Chair (3 students)
2005-2006	MA Graduate Thesis Defense Committee Member (5 students)
2005-2006	MA Graduate Comprehensive Exam Committee Member (4 students)
2005-2006	MA Graduate Advisory Committee Member (4 students)
2004-2005	MA Graduate Thesis Committee Chair (1 student)
2004-2005	MA Graduate Thesis Defense Committee Member (4 students)
2004-2005	MA Graduate Comprehensive Exam Committee Member (4 students)
2004-2005	MA Graduate Advisory Committee Member (4 students)
2003-2004	MA Graduate Thesis Committee Chair (4 students)
2003-2004	MA Graduate Thesis Defense Committee Member (4 students)
2003-2004	MA Graduate Comprehensive Exam Committee Member (4 students)
2003-2004	MA Graduate Advisory Committee Member (4 students)
Summer 2003	Research Experience for Undergraduates (REU) Program, UT Lake Erie Center. Supervised 2 students and related research projects; also advising and instruction for total of 10 students in this program.
2002-2003	MA Graduate Advisor (3 students)
2002-2003	MA Graduate Thesis Defense Committee Member (4 students)

2002-2003 MA Graduate Comprehensive Exam Committee Member (7 students)
2002-2003 MA Graduate Advisory Committee Member (4 students)

Summer 2002 Research Experience for Undergraduates Program. Supervised 1 student and related research projects; also advising and instruction for total of 11 students in this program.

2001-2002 MA Graduate Advisor (2 students)
2001-2002 MA Graduate Thesis Defense Committee Member (2 students)
2001-2002 MA Graduate Comprehensive Exam Committee Member (7 students)
2001-2002 MA Graduate Advisory Committee Member (3 students)

Summer 2001 Research Experience for Undergraduates Program. Supervised 2 students and related research projects; also advising and instruction for total of 11 students in this program.

2000-2001 MA Graduate Comprehensive Exam Committees Member (4 students)
2000-2001 MA Graduate Advisory Committee Member (3 students)
2000-2001 MA Graduate Thesis Defense Committee Member (1 student)

Course Instructor (2,000+ total students):

Spring 2020 GEPL 6920 Research Design (4 students)
Spring 2020 GEPL 6890 Professional Development in Geography and Planning (1 students)
Fall 2019 GEPL 3900 Environmental Planning (30 students)

Spring 2019 SISS 8040 Research Design (3 students)
Spring 2019 GEPL 3900 Environmental Planning (30 students)
Spring 2019 GEPL 6920 Research Design (4 students)
Spring 2019 GEPL 6890 Professional Development in Geography and Planning (2 students)

Spring 2018 SISS 8040 Research Design (3 students)
Fall 2017 GEPL 3900 Environmental Planning (30 students)
Fall 2017 GEPL 6920 Research Design (8 students)

Fall 2016 GEPL 3900 Environmental Planning (29 students)
Fall 2016 GEPL 6920 Research Design (8 students)

Fall 2015 GEPL 3900 Environmental Planning (30 students)
Fall 2015 GEPL 6920 Research Design (3 students)

Spring 2015 SISS 8040 Research Design (2 students)
Spring 2015 GEPL 4710 Toledo H2O Idea Lab (2 students)
Fall 2014 GEPL 2040 World Regional Geography (17 students)
Fall 2014 GEPL 6920 Research Design (4 students)

Spring 2014 GEPL 2040 Geography of US and Canada (38 students)* took over course at week 9
Spring 2014 SISS 8040 Research Design (3 students)
Spring 2014 SISS 8200 Spatial Perspectives on the Environment (4 students)
Fall 2013 GEPL 3900 Environmental Planning (30 students)
Fall 2013 GEPL 6920 Research Design (5 students)

Spring 2013 GEPL 2200.001 (DL) Climate Change (10 students)

Fall 2012 GEPL 3900 Environmental Planning (30 students)
 Fall 2012 GEPL 6920 Research Design (6 students)

Spring 2012 GEPL 2200.001 (DL) Climate Change (17 students)
 Fall 2011 GEPL 3900 Environmental Planning (36 students)
 Fall 2011 GEPL 6920 Research Design (6 students)

Spring 2011 GEPL 2200.001 (DL) Climate Change (24 students)
 Fall 2010 GEPL 3900 Environmental Planning (25 students)
 Fall 2010 GEPL 6920 Research Design (6 students)

Spring 2010 GEPL 1100:995 (DL) Environmental Geography (93 students)
 Spring 2010 GEPL 2200.001 (DL) Climate Change (9 students)
 Fall 2009 GEPL 1100 Environmental Geography (58 students)
 Fall 2009 GEPL 3900 Environmental Planning (32 students)
 Fall 2009 GEPL 6920 Research Design (7 students)

Spring 2009 GEPL 1100:995 (DL) Environmental Geography (90 students)
 Spring 2009 GEPL 2200.001 (DL) Climate Change (17 students)
 Spring 2009 GEPL 3890.995 (DL) Geographic Approach to Natural Disasters (20 students)
 Fall 2008 GEPL 1100 Environmental Geography (60 students)
 Fall 2008 GEPL 1100:995 (DL) Environmental Geography (84 students)
 Fall 2008 GEPL 3900 Environmental Planning (26 students)
 Fall 2008 GEPL 6920 Research Design (9 students)

Spring 2008 GEPL 1100 Environmental Geography (28 students)
 Spring 2008 GEPL 1100:995 (DL) Environmental Geography (94 students)
 Spring 2008 GEPL 3890.995 (DL) Geographic Approach to Natural Disasters (17 students)
 Fall 2007 GEPL 1100 Environmental Geography (44 students)
 Fall 2007 GEPL 1100:995 (DL) Environmental Geography (74 students)
 Fall 2007 GEPL 3900 Environmental Planning (24 students)
 Fall 2007 GEPL 6920 Research Design (9 students)

Fall 2006 GEPL 1100 Environmental Geography (43 students)
 Fall 2006 GEPL 1100:995 (DL) Environmental Geography (107 students)
 Fall 2006 GEPL 3900 Environmental Planning (25 students)
 Fall 2006 GEPL 6920 Research Design (10 students)

Spring 2006 GEPL 1100 Environmental Geography (32 students)
 Spring 2006 GEPL 1100:995 (DL) Environmental Geography (84 students)
 Spring 2006 GEPL 3060:995 (DL) Geography of the Great Lakes (23 students)
 Fall 2005 GEPL 1100 Environmental Geography (57 students)
 Fall 2005 GEPL 1100:995 (DL) Environmental Geography (90 students)
 Fall 2005 GEPL 3900 Environmental Planning (20 students)
 Fall 2005 GEPL 6930 Thesis Proposal (10 students)

Spring 2005 GEPL 1100 Environmental Geography (61 students)
 Spring 2005 GEPL 3060:995 (DL) Geography of the Great Lakes (26 students)
 Spring 2005 MLS 6030:997 (DL) Natural Disasters and Hazards (6 students)
 Spring 2005 GEPL 6550 Graduate Seminar in Environmental Planning (7 students)
 Fall 2004 GEPL 3900 Environmental Planning (11 students)

Fall 2004 GEPL 1100 Environmental Geography (68 students)
 Fall 2004 GEPL 1100:995 (DL) Environmental Geography (82 students)

Spring 2004 GEPL 6300 Graduate Seminar in Resource Management (7 students)
 Spring 2004 GEPL 1100 Environmental Geography (86 students)
 Spring 2004 GEPL 3060:995 (DL) Geography of the Great Lakes (26 students)
 Spring 2004 MLS 6030:997 (DL) Natural Disasters and Hazards (22 students)
 Fall 2003 GEPL 6550 Graduate Seminar in Environmental Planning (3 students)
 Fall 2003 GEPL 3900 Environmental Planning (21 students)
 Fall 2003 GEPL 1100 Environmental Geography (129 students)
 Fall 2003 GEPL 1100:995 (DL) Environmental Geography (74 students)

Spring 2003 GEPL 6300 Graduate Seminar in Resource Management (1 student)
 Spring 2003 GEPL 3890 Geographic Approach to Natural Disasters (7 students)
 Spring 2003 GEPL 4900:995 (DL) Geography of the Great Lakes (22 students)
 Spring 2003 MLS 6020:987 (DL) Great Lakes: Environmental Issues and Human Impacts (5 students)
 Fall 2002 GEPL 6550 Graduate Seminar in Environmental Planning (4 students)
 Fall 2002 GEPL 3900 Environmental Planning (21 students)
 Fall 2002 GEPL 1100 Environmental Geography (127 students)
 Fall 2002 GEPL 1100:995 (DL) Environmental Geography (65 students)
 Fall 2002 GEPL 4900:995 (DL) Geography of the Great Lakes (3 students)

Spring 2002 GEPL 6300 Graduate Seminar in Resource Management (3 students)
 Spring 2002 GEPL 1100 Environmental Geography (61 students)
 Spring 2002 MLS 6020:987 (DL) Great Lakes: Environmental Issues and Human Impacts (8 students)
 Spring 2002 GEPL 4900:995 (DL) Geography of the Great Lakes (3 students)
 Fall 2001 GEPL 6550 Graduate Seminar in Environmental Planning (9 students)
 Fall 2001 GEPL 3900 Environmental Planning (18 students)
 Fall 2001 GEPL 1100 Environmental Geography (107 students)

Spring 2001 GEPL 1100 Environmental Geography (67 students)
 Spring 2001 GEPL 3900 Environmental Planning (17 students)
 Fall 2000 GEPL 1100 Environmental Geography (90 students)
 Fall 2000 GEPL 3900 Environmental Planning (17 students)
 Fall 2000 GEPL 6550 Graduate Seminar in Environmental Planning (8 students)

Spring 2000 GEPL 1100 Environmental Geography (73 students)
 Spring 2000 GEPL 3900 Environmental Planning (13 students)
 Spring 2000 GEPL 3550 Physical Geography (15 students)
 Spring 2000 GEPL 4900 Geography of the Great Lakes (3 students)
 Spring 2000 GEPL 6530 Readings in Ecosystem Planning (7 students)
 Fall 1999 GEPL 1100 Environmental Geography (135 students)
 Fall 1999 GEPL 3900 Environmental Planning (17 students)
 Fall 1999 GEPL 4900 Geography of the Great Lakes (4 students)

Fall 1997 GO 211a Methods in Physical Geography (15 students)
 Department of Geography, Trent University

Fall 1996 1F91 Introduction to Physical Geography (420 students)
 Department of Geography, Brock University
 3P83 Geography of Water Resources (16 students)

Fall 1995

Department of Geography, Brock University
GO 351a Quaternary and Glacial Geomorphology (11 students)
Department of Geography, Trent University

PUBLICATIONS (125 total; 52 peer reviewed or edited)

Refereed Journals (21):

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 (8):

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

Nelson, J.G., Serafin, R., Lawrence, P.L. and Van Osch, K. (eds.) (1999). Floods: Towards Improved Science, Civics, and Decision-Making. *Environments* 27(1). Heritage Resources Centre, University of Waterloo, Waterloo, Ontario.

Lawrence, P.L., Nelson, J.G. and Oliver, J. (eds.) (1996). *Circle of Green: A Guide to Parks and Protected Areas in the Lake Erie Watershed*. Projected conducted with Parks Canada (Ontario Region) and the Federation of Ontario Conservation Authorities on Lake Erie (FOCALerie). Heritage Resources Centre, University of Waterloo, Waterloo, Ontario (map/brochure).

Lawrence, P.L. and Nelson, J.G. (eds.) (1996). *Ontario Parks and Protected Areas Research Forum*. Proceedings of a Workshop held on April 12, 1996. Heritage Resources Centre Working Paper # 9. University of Waterloo, Waterloo, Ontario, 45p.

Lawrence, P.L. (ed.) (1994). *Role of Parks and Protected Areas: Towards a Strategy for Lake Erie*. Heritage Resources Centre Workshop Notes. University of Waterloo, Waterloo, Ontario, 46p.

Lawrence, P.L. and Nelson, J.G. (eds.) (1994). *Lake Erie Biodiversity and Ecosystem Health*. Heritage Resources Centre Working Note # 8. University of Waterloo, Waterloo, Ontario, 130p.

Lawrence, P.L. and Nelson, J.G. (eds.) (1993). *Managing the Great Lakes Shoreline: Experiences and Opportunities*. Heritage Resources Centre Occasional Paper # 21. University of Waterloo, Waterloo, Ontario, 310p.

Papers/Chapters in Published Edited Books (22):

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. Enfield, 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.
- Nelson, J.G., Serafin, R., Skibicki, A. and Lawrence, P.L. (1997). Land Use and Decision-Making for National Parks and Protected Areas. In *National Parks and Protected Areas: Contributions to Heritage Conservation, Tourism, and Sustainable Development* (J.G. Nelson and R. Serafin, eds.) Proceedings of a NATO International Scientific Exchange Program Advanced Science Workshop, Krakow, Poland, April 26-30, 1996. Springer-Verlag Publishers, Heidelberg, Germany, pp. 36-56.

Lawrence, P.L., Stewart, C.J., and Dubois, A. J.-M. (1996). Canada. In *International Bibliography of Coastal Geomorphology 1991-1994* (D.H. Kelletat, ed.). Journal of Coastal Research Special Issue No.19. Coastal Education and Research Foundation, Royal Palm Beach, Florida, pp. 17-24.

Lawrence, P.L. and Nelson, J.G. (1994). Environmental Folio for the Long Point Biosphere: Identifying Issues and Areas of Concern. In *Lake Erie Biodiversity and Ecosystem Health* (P.L. Lawrence and J.G. Nelson, eds.), Heritage Resources Centre Working Note # 5. University of Waterloo, Ontario, Waterloo, Ontario, pp. 57-66.

Nelson, J.G. and Lawrence, P.L. (1994). Preparing for Coastal Management: A Human Ecological Approach. In *Public Issues: A Geographical Perspective* (J.G. Nelson and J. Andrey, eds). Department of Geography Publication Series No. 41. University of Waterloo, Waterloo, Ontario, pp. 311-335.

Papers Published in Edited Conference/Workshop Proceedings (35):

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 (ASPRS) 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/cc03proc/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.
- Nelson, J.G., Lawrence, P.L. and Black, H. (1999). Assessing Ecosystem Conservation Planning for Canadian National Parks – A Summary. In *Proceedings of Canadian Parks and Wilderness Society Workshop on National Parks*. Vancouver, British Columbia.
- Lawrence, P.L., Nelson, J.G. and Black, H. (1999). Preparation of Ecosystem Conservation Planning for Bruce Peninsula National Park and Fathom Five National Marine Park. In *Proceedings of the 1998 Parks Research Forum Ontario (PRFO)*. Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, pp. 314-322.
- Lawrence, P.L., Lussier, C. and Riviere, L.A. (1999). Natural Area and Land Use Planning Connections in the Carolinian Canada Zone. *Proceedings of the 1998 Parks Research Forum Ontario (PRFO)*. Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, pp. 304-307.

Lawrence, P.L. (1999). Science, Information and Research Needs for Parks and Protected Areas (panelist). *Proceedings of the 1998 Parks Research Forum Ontario*. Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, pp. 105-107.

Lawrence, P.L., Nelson, J.G., and Robinson, K. (1998). Development of Ecosystem Conservation Plans for Bruce Peninsula National Park and Fathom Five National Marine Park in the context of the Niagara Escarpment World Biosphere Reserve. In *Proceedings of the Leading Edge '97 Conference*. Niagara Escarpment Commission, Georgetown, Ontario, pp. 103-114.

Lawrence, P.L. and Nelson, J.G. (1998). The Role of Research in World Biosphere Reserves: Experience from Long Point and Opportunities for the Niagara Escarpment. In *Proceedings of the Leading Edge '97 Conference*. Niagara Escarpment Commission, Georgetown, Ontario, pp. 94-102.

Lawrence, P.L. (1997). Linking Geomorphology and Ecosystem Management to Improve Decision-Making on Great Lakes Shoreline Flooding and Erosion Hazards. In *Proceedings of the 1997 Canadian Coastal Conference*. National Research Council, Ottawa, Ontario, pp. 43-57.

Lawrence, P.L. (1997). 1997 Canadian Coastal Conference: Long Point Field Trip Guide - Saturday May 24, 1997. In *Proceedings of the 1997 Canadian Coastal Conference*. National Research Council, Ottawa, Ontario, pp. 494-521.

Lawrence, P.L. (1996). Shoreline Management in a Sediment-Limited System: Saugeen-Lake Huron Shoreline, Ontario, Canada. In *Proceedings of the 15th International Conference of the Coastal Society*. Alexandria, Virginia, pp. 71-78.

Lawrence, P.L. (1996). Erosional Landforms of the Queenston Shale Formation: A Prospectus for Land Use Planning, Management and Future Research. In *Proceedings of the Leading Edge '95 Conference*. Ontario Ministry of Environment and Energy, Toronto, Ontario, pp. 68-73

Lawrence, P.L. and D.I. McKenzie. (1995). Georgian Bay Cobble Beaches along the Niagara Escarpment. In *Proceedings of the Leading Edge '94 Conference*. Ontario Ministry of Environment and Energy, Toronto, Ontario, pp. 128-143.

Nelson, J.G. and Lawrence, P.L. (1995). An Environmental Folio for the Niagara Escarpment Biosphere Reserve: The ABC Resource Survey Method and Case Studies from Ontario. In *Proceedings of the Leading Edge '94 Conference*. Ontario Ministry of Environment and Energy, Toronto, Ontario, pp. 350-362.

Lawrence, P.L. and Nelson, G.L. (1994). Changing Land Uses, Environmental Effects, and Institutional Responses in the Long Point Area, Lake Erie. In *Proceedings of the 1994 The Coastal Society Conference*. Charleston, South Carolina.

Lawrence, P.L. and J.G. Nelson (1994). The Role of the University and the Long Point Environmental Folio. In *Coastal Zone Canada '94, Cooperation in the Coastal Zone: Conference Proceedings* (P.G. Wells and P. J. Ricketts, eds.). Coastal Zone Canada Association, Dartmouth, Nova Scotia, Vol. 3, pp. 1173-1189.

Nelson, J.G. and Lawrence, P.L. (1993). Human Ecological Approach to Coastal Management: Case Studies from the Great Lakes. In *Managing the Great Lakes Shoreline: Experiences and Opportunities* (P.L. Lawrence and J.G. Nelson, eds.). Heritage Resources Centre Occasional Paper # 21. University of Waterloo, Waterloo, Ontario, pp. 91-116.

Lawrence, P.L., Nelson, J.G. and Stenson, R. (1993). Meeting Information and Communication Needs in Regional Coastal Zone Management: Case Studies from the Great Lakes. In *Coastlines of Canada, Proceedings of the Coastal Zone '93*. American Society of Civil Engineers, New York, New York, pp. 135-149.

Lawrence, P.L., Nelson, J.G. and Peach, J. (1993). An Ecosystem Approach to Great Lakes Management: A Case Study of the Saugeen Valley Conservation Authority. In *Proceedings of the 1993 Canadian Coastal Conference*. Coastal Zone Engineering Program, National Research Council, Ottawa, pp. 13-26.

Lawrence, P.L. (1990). An Inventory of Shoreline Protection Structures and Preliminary Shore Hazard Assessment on Southeastern Lake Huron: Implications for a Shoreline Management Plan. In *Proceedings of 1990 Canadian Coastal Conference*. National Research Council, Ottawa, pp. 521-533.

Ontario Ministry of Natural Resources (1989). *Coastal Processes and Bluff Erosion - Technical Short Course Field Guide*. Conservation Authorities and Water Management Branch, Toronto, Ontario. (contributing author), 10p.

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.

Lawrence, P.L. and Nelson, J.G. (1999). *Representation of Carolinian Canada Sites and Landscape and Ecological Classifications within Southern Ontario*. Heritage Resources Centre Technical Paper #17 University of Waterloo, Waterloo, Ontario.

Lussier, C. Lawrence, P.L. and Nelson, J.G. (1999). *Natural Area Planning Connectivity in the Carolinian Canada Zone*. Heritage Resources Centre Technical Paper #15, University of Waterloo, Waterloo, Ontario.

Riverie, L-A., Lawrence, P.L. and Nelson, J.G. (1999). *Natural Area Planning Mapping for the Carolinian Canada Zone*. Heritage Resources Centre Technical Paper #14, University of Waterloo, Waterloo, Ontario.

Skibicki, A., Nelson, J.G., Lawrence, P.L. and Wilcox, K. (1998). *Assessing Environment and Development: Fairy and Peninsula Lakes 1995*. Heritage Resources Centre Technical Paper #13, University of Waterloo, Waterloo, Ontario.

Lawrence, P.L. and Nelson, J.G. (1994). *Shoreline Flooding and Erosion Hazards in the Long Point Area*. Long Point Environment Folio Publication Series Working Paper # 7 (P.L. Lawrence and J.G. Nelson, eds.). Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, 32p.

Downey, A.M., Radovic, S., and Lawrence, P.L. (1994). *Water Quality of Long Point Bay: Issues and Areas of Concern for Planning and Management*. Long Point Environment Folio Publication Series Technical Paper # 7, (P.L. Lawrence and J.G. Nelson, eds.). Heritage Resources Centre, University of Waterloo, 40p.

Lawrence, P.L. and Beazley, K. (1994). *Land Cover Change in the Long Point Area 1955 - 1990 from Aerial Photography*. Long Point Environment Folio Publication Series Technical Note # 2 (P.L. Lawrence and J.G. Nelson, eds.). Heritage Resources Centre, University of Waterloo, Waterloo, Ontario, 30p.

Skibicki, A.J., Serafin, R. and Lawrence, P.L. (1993). *Biodiversity and the Coastal Zone: An Introductory Bibliography*. Heritage Resources Centre Bibliography and Review Paper # 3. University of Waterloo, Waterloo, Ontario, 32p.

Lawrence, P.L. and Nelson, J.G. (1992). *Preparing for a Shoreline Management Plan for the Saugeen Valley Conservation Authority: An Initial Survey and Assessment of Relevant Information*. Heritage Resources Centre On-Demand Publication. University of Waterloo, Waterloo, Ontario, 76p.

Research/Contract Reports (19):

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.

Lawrence, P.L. (1999). *National Parks and Tourism Research Bibliography*. Report for Heritage Resources Centre, University of Waterloo, Waterloo, Ontario.

Lawrence, P.L., Nelson, J.G. and Seedhouse, T. (1999). *Floods and the Grand River*. Summary Report for the 1999 Kitchener Rotary Youth Civics Project – A Commemoration of the 1974 Grand River Flood. Heritage Resources Centre and Grand River Conservation Authority.

Lawrence, P.L. and Seedhouse, T. (1999). *Grand River Floods: An Annotated Research Bibliography*. Report for the 1999 Kitchener Rotary Youth Civics Project – A Commemoration of the 1974 Grand River Flood. Heritage Resources Centre and Grand River Conservation Authority.

Seedhouse, T. and Lawrence, P.L. (1999). *Grand River Flood Tour Guide*. Report for the 1999 Kitchener Rotary Youth Civics Project – A Commemoration of the 1974 Grand River Flood. Heritage Resources Centre and Grand River Conservation Authority.

Lawrence, P.L and Nelson, J.G. (1998). *North America Flood Literature Review and Annotated Bibliography*. Prepared for a Workshop on Coping with Floods: a Civics Perspective - Comparing and contrasting experience from Europe and North America. Krakow, Poland, October 1998.

Lawrence, P.L. and Nelson, J.G. eds. (1998). *Synopsis of the Background Information Study (BIS) for Bruce Peninsula National Park (BPNP) and Fathom Five National Marine Park (FFNMP): A Summary and Interpretation for Ecosystem Conservation Planning*. Unpublished report for Parks Canada, Cornwall, Ontario, 50p.

Lawrence, P.L. Nelson, J.G., Wilcox, S., Black, H. and Olive, H. (1997). *Ecosystem Conservation Plans for Bruce Peninsula National Park and Fathom Five National Marine Park - Background Information Study (BIS)*. Unpublished report for Parks Canada, Cornwall, Ontario, 155p.

Skibicki, A., Nelson, J.G., Lawrence, P.L. and Wilcox, K. (1996). *Land Use and Conservation: Fairy and Peninsula Lakes*. Contact report to the Ontario Ministry of Natural Resources, Maple, Ontario, 152p.

Lawrence, P.L. and Nelson, J.G. (eds.) (1995). *Role of Parks and Protected Areas: Towards a Strategy for Lake Erie*. Proceedings of a Workshop held on October 14, 1994. Contact report for the Parks Canada, Ontario Region, Cornwall, Ontario, 18p.

Lawrence, P.L., Chisholm, V., Healy, M., and Quinn, M. (1992). *Resource Survey of the Lake Huron Coast: Technical Notes*. Final Report for the Saugeen Valley Conservation Authority. Hanover, Ontario, 110p.

Davidson-Arnott, R.G.D., Ollerhead, J. and Lawrence, P.L. (1991). *Assessment of the Policy Setback Requirements on Municipal Official Plans and Zoning Bylaws for Great Lakes-St. Lawrence Shoreline*. Ontario Ministry of Natural Resources, Lands and Water Policy Branch. Toronto, Ontario, 13p.

Lawrence, P.L. (1989). *An Inventory of Shoreline Protection Structures on Lake Huron*. Report for the Maitland Valley Conservation Authority. Wroxeter, Ontario, 80p.

Lawrence, P.L. (1989). *Preliminary Assessment of Shoreline Hazard Areas and Development at Risk*. Report for the Maitland Valley Conservation Authority. Wroxeter, Ontario, 70p.

Lawrence, P.L. (1989). *Shoreline Classification along the Niagara Escarpment, Bruce Peninsula - Final Report*. Undergraduate Research Grant Report for the Royal Canadian Geographical Society. Vanier, Ontario, 96p.

Contributing Author to Published Reports (7)

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)

Cornelisse, K.J. and Evans, D.O. (eds.) (1999). *The Fairy and Peninsula Lakes Study, 1994-1998: Effects of land use on the aquatic ecosystem*. Ontario Ministry of Natural Resources. Peterborough, Ontario. (sections of text on land cover change analysis and land uses planning)

Nelson, J.G. and Wilcox, K. (ed.) (1996). *Long Point Environmental Folio*. Heritage Resources Centre, University of Waterloo, Waterloo, Ontario. (review and editing of numerous sections of selected individual reports in this series)

Environmental Assessment Graduate Seminar (1992). *The Application of Redbooks for Threatened Landscapes to Environmental Assessment in Canada*. School of Urban and Regional Planning Working Paper Series No. 30. University of Waterloo, Waterloo, Ontario. 22p. (writing and editing of sections of full report)

PRESENTATIONS (total = 253)

Invited Professional Presentations (45):

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 Colloboratory 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’ *Interagency 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 Summit*. 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.

Lawrence, P.L. (1998). “Science, Information and Research Needs for Parks and Protected Areas: Cooperation” (invited panelist). *1998 Parks Research Forum*. Peterborough, Ontario. February 1998.

Lawrence, P.L. and Nelson, J.G. (1992). “Human Ecological Approach to Coastal Management: Case Studies from the Great Lakes.” (invited speaker) *Managing the Great Lakes Shoreline: Experiences and Opportunities Workshop*. Heritage Resources Centre. University of Waterloo, Ontario, October 1992.

Public Presentations (36):

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 Club, 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.

- Lawrence, P.L. (1999). "Ecosystem Planning and National Parks in Canada". *Gamma Theta Upsilon*. University of Toledo, Toledo, Ohio October 1999.
- Lawrence, P.L. (1998). "Great Lakes Shoreline Management ". *Third Age Learning Seminar Series*. Kitchener, Ontario, January 1998.
- Lawrence, P.L. (1997). "Development of a Carolinian Canada Research Project by the Heritage Resources Centre and Parks Canada ". *Carolinian Canada Forum*. London, Ontario, November 1997.
- Lawrence, P.L. (1996). "Report on the preparation of the Long Point Environmental Folio and Shoreline Flooding and Erosion Hazard Research ". *Annual Meeting of the Long Point Biosphere Reserve Organization*. Port Rowan, Ontario, April 1996.
- Lawrence, P.L. (1995). "The Concept of Assessment-A Human Ecological Perspective: Case Studies of the Saugeen Lake Huron Project and Long Point Environmental Folio ". Presentation to *CIDA Industrial Cooperation Program/Dendron Resource Surveys*. Faculty of Environmental Studies, University of Waterloo, Ontario, May 1995.
- Lawrence, P.L. (1995). "ABC Resource Survey and the Heritage Resources Centre ". Presentation to the *Fairy and Peninsula Lakes Task Team*. Ontario Ministry of Natural Resources, Barrie, Ontario, March 1995.
- Lawrence, P.L. (1994). "Waterfronts, Shores and Coasts with Special Reference to the Great Lakes – Commentary ". *Symposium on the Heritage Estate in Canada and Ontario*. Faculty of Environmental Studies, University of Waterloo, Ontario, November 1994.
- Lawrence, P.L. (1993). "Managing the Great Lakes Shoreline." Presentation to meeting of *Saugeen Field Naturalists*. Kincardine, Ontario, November 1993.
- Lawrence, P.L. (1993). "The Long Point Environmental Folio Project. " *Long Point Ecosystem Stress Workshop*. Long Point Biosphere Reserve Committee, Port Rowan, Ontario, May 1993.
- Lawrence, P.L. and Nelson, J.G. (1993). "Thinking about Long Point's Environment-Past, Present, and Future." *Annual Meeting of the Long Point Biosphere Reserve Organization*. Port Rowan, Ontario, April 1993.
- Lawrence, P.L. (1991). "Preparing for a Shoreline Management Plan for the Saugeen Valley Conservation Authority." *Geography Graduate Forum*. Department of Geography, University of Waterloo, October, 1991.

Academic/Professional Conference Presentations (173):

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 Designations: 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 Designations: 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, Kalamzoo, 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 Meteorological 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 Maumee 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 (ASPRS) 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 Meteorological 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, K., 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 Meteorological 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. Catharines, 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 (ASPRS) 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*. 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*. 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*. 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*. 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*. 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*. 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." *Association of American Geographers Annual Meeting 2001*. 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." *Association of American Geographers Annual Meeting 2000*. Pittsburg, PA. April 2000.

Lawrence, P.L. (1999). "Conservation Role for Carolinian Canada Sites in Southern Ontario." *East Lakes Division- Association of American Geographers Annual Meeting '99*. Loudonville, Ohio, November 1999.

Nelson, J.G., Lawrence, P.L. and Beck, C. (1999). "Building the Great Arc: Landscape and Regional Planning for the Niagara Escarpment in Canada and the United States." *Leading Edge '99 Conference on the Niagara Escarpment*. Ontario Ministry of Natural Resources. Burlington, Ontario, October 1999.

Lawrence, P.L. and Nelson, P.L. (1999). "Representation of Carolinian Canada Sites." *1999 Lake Erie Forum Workshop on Communication in Ecosystem Planning, Management and Decision-Making for the Lake Erie Basin*. Heritage Resources Centre, University of Waterloo and Parks Canada, Ontario Region. Point Pelee National Park, September 1999.

Nelson, J.G. and Lawrence, P.L. (1999). "The Shared Canadian and American Experience of the Niagara Escarpment Landscape: Opportunities for Building the Great Arc." *Borderlands: The Shared Canadian and U.S. Experience of Landscape - Annual Conference of the Alliance for Historic Landscape Preservation*. Niagara-on-the-Lake, Ontario, June 1999.

- Lussier, C., and Lawrence, P.L. (1999). "Status of Natural Area Planning for Carolinian Canada Sites." *1999 Annual Meeting of the Parks Research Forum of Ontario*. Guelph, Ontario, April 1999.
- Lawrence, P.L., Skibicki, A., and Nelson, J.G. (1998). "Land Cover and Land Use Change Analysis for Fairy and Peninsula Lakes, Muskoka, Ontario." *CAGONT '98 - Canadian Association of Geographers, Ontario Conference*. Wilfrid Laurier University, Waterloo, Ontario, October 1998.
- Nelson, J.G. and Lawrence, P.L. (1998). "Great Lakes Floods with special reference to Lake Erie." *Coping with Floods: a Civics Perspective - Comparing and contrasting experience from Europe and North America International Conference*. Krakow, Poland, October 1998.
- Nelson, J.G. Lawrence, P.L., and Black, H. (1998). "Preparing Ecosystem Conservation Plans for Some National Parks in Ontario." *25th Annual Natural Areas Association Conference*. Natural Areas Association. Mackinac Island, Michigan, October 1998.
- Lawrence, P.L., Nelson, J.G., Lussier, C. and Riviere, L.A (1998). "Natural Area Planning for the Carolinian Canada Zone in Southern Ontario." *25th Annual Natural Areas Association Conference*. Natural Areas Association. Mackinac Island, Michigan, October 1998.
- Lawrence, P.L. (1998). "Managing Great Lakes Shoreline Erosion and Flooding Hazards in an Ecosystem and Land Use Context". *1998 Canadian Association of Geographers Conference*. University of Ottawa, June 1998.
- Lawrence, P.L. (1998). "Great Lakes Shoreline Governance in Ontario: Social, Economic and Political Considerations." *IAGLR' 98 - 41st International Conference on Great Lakes Research*. McMaster University, Hamilton, Ontario, May 1998.
- Lawrence, P.L., Nelson, J.G. and Black, H. (1998). "Preparation of Ecosystem Conservation Planning for Bruce Peninsula National Park and Fathom Five National Marine Park." *1998 Parks Research Forum*. Peterborough, Ontario, February 1998.
- Lawrence, P.L., Lussier, C. and Riviere, L.A. (1998). "Natural Area and Land Use Planning Connections in the Carolinian Canada Zone." *1998 Parks Research Forum*. Peterborough, Ontario, February 1998.
- Lawrence, P.L., Lussier, C. and Riviere, L.A. (1997). "Landscape Connectivity Planning in Carolinian Canada." *Carolinian Canada Forum*. London, Ontario, November 1997.
- Lawrence, P.L., Nelson, J.G., and Robinson, K. (1997). "Development of Ecosystem Conservation Plans for Bruce Peninsula National Park and Fathom Five National Marine Park in the context of the Niagara Escarpment World Biosphere Reserve." *Leading Edge '97*. Burlington, Ontario, October 1997.
- Lawrence, P.L. and Nelson, J.G. (1997). "The Role of Research in World Biosphere Reserves: Experience from Long Point and Opportunities for the Niagara Escarpment." *Leading Edge '97. Conference on the Niagara Escarpment*. Burlington, Ontario, October 1997.
- Lawrence, P.L. (1997). "Managing Great Lakes Coastal Ecosystems on a Watershed Basis." *52nd Annual Conference of the Soil and Water Conservation Society*. Toronto, Ontario, July 1997.

Lawrence, P.L. (1997). "Can a Watershed Approach save the Great Lakes Shoreline from Flooding and Erosion Hazards?" *IAGLR '97 - 40th Annual International Conference on Great Lakes Research*. Buffalo State College, Buffalo, New York, June 1997.

Lawrence, P.L. (1997). "Linking Geomorphology and Ecosystem Management to Improve Decision-Making on Great Lakes Shoreline Flooding and Erosion Hazards." *1997 Canadian Coastal Conference*. Canada Coastal Science and Engineering Association (CCSEA). University of Guelph, Guelph, Ontario, May 1997.

Lawrence, P.L. (1997). "Policy and Planning Implications of Integrated Great Lakes Coastal Ecosystem Management." *1997 Great Lakes Research Consortium Student/Faculty Conference*. SUNY College, Syracuse, New York, February 1997.

Lawrence, P.L. (1996). "Development of a Lake Erie Parks and Protected Areas Guide." *Lake Erie Forum: Assessing Lake Erie Protected Areas Workshop*. University of Waterloo, Waterloo, Ontario, January 1996.

Lawrence, P.L. (1995). "Natural Hazards Management and Land Use Planning Reform in Ontario: A Geographical Perspective." *CAGONT '95 - Canadian Association of Geographers, Ontario Conference*. York University, Toronto, Ontario, October 1995.

Lawrence, P.L. (1995). "Erosional Landforms of the Queenston Shale Formation: A Prospectus for Land Use Planning, Management and Future Research." *Leading Edge '95 Conference on the Niagara Escarpment*. Ontario Ministry of Environment and Energy. Collingwood, Ontario, October 1995.

Lawrence, P.L. (1995). "Changes in Land Use Planning: A Great Lakes Shoreline Perspective." *Update on Land Use Law, Policy and Practice in Ontario: Recent Changes and Their Implications Workshop*. Heritage Resources Centre. University of Waterloo, Waterloo, Ontario, May 1995.

Lawrence, P.L. and D.I. McKenzie. (1994). "Georgian Bay Cobble Beaches along the Niagara Escarpment." *Leading Edge '94 Conference on the Niagara Escarpment*. Ontario Ministry of Environment and Energy. Orangeville, Ontario, October 1994.

Lawrence, P.L. and Nelson, J.G. (1994). "An Environmental Folio for the Niagara Escarpment Biosphere Reserve: The ABC Resource Survey Method and Case Studies from Ontario." *Leading Edge '94 Conference on the Niagara Escarpment*. Ontario Ministry of Environment and Energy. Orangeville, Ontario, October 1994.

Lawrence, P.L. (1994). "Long Point World Biosphere Reserve." *Role of Parks and Protected Areas: Towards a Strategy for Lake Erie Workshop*. Heritage Resources Centre. University of Waterloo, Waterloo, Ontario, October, 1994.

Lawrence, P.L. (1994). "Natural Hazards of Shoreline Bluff Erosion: A Case Study of Horizon View, Lake Huron." *25th Binghamton Symposium on Natural Hazards and Geomorphology*. Binghamton, New York, September 1994.

Lawrence, P.L. and J.G. Nelson (1994). "The Role of the University and the Long Point Environmental Folio." *Coastal Zone Canada '94 Conference*. Canadian Coastal Zone Association. Halifax, Nova Scotia, September 1994.

- Lawrence, P.L. (1994). "Understanding Shoreline Land Uses, Hazards and Management Responses: Long Point, Lake Erie." *Canadian Association of Geographers Conference '94*. Wilfrid Laurier University, Waterloo, Ontario, May 1994.
- Lawrence, P.L. and Nelson, P.L. (1994). "Changing Land Uses, Environmental Effects, and Institutional Responses in the Long Point Area." *Coastal Society '94 Conference*. The Coastal Society. Charleston, South Carolina, April 1994.
- Lawrence, P.L. and Nelson, J.G. (1993). "Environmental Folio for the Long Point Biosphere: Identifying Issues and Areas of Concern." *Lake Erie: Biodiversity and Ecosystem Health Workshop*. Heritage Resources Centre. University of Waterloo, Ontario, November 1993.
- Lawrence, P.L. Nelson, J.G., and Serafin, R. (1993). "Understanding Regional Semi-enclosed Seas: International Case Studies." *EMECS '93: International Conference on Environmental Management of Enclosed Seas*. Baltimore, November, 1993.
- Lawrence, P.L., Nelson, J.G. and Stenson, R. (1993). "Meeting Information and Communication Needs in Regional Coastal Zone Management: Case Studies from the Great Lakes." *Coastal Zone '93 Conference*. New Orleans, Louisiana, July 1993.
- Lawrence, P.L. and Nelson, J.G. (1993). "Preparation of an Environmental Folio for the Long Point Biosphere Reserve and Region." *Canadian Association of Geographers Conference '93*. Carleton University, Ottawa, May 1993.
- Lawrence, P.L., Skibicki, A. and Yeung, C.L. (1993). "Long Point Environmental Folio: Understanding Land Uses, Hazards, Institutions and Management Arrangements." *Canadian Association of Geographers Conference '93*. Carleton University, Ottawa, May 1993.
- Lawrence, P.L., Nelson, J.G. and Peach, G. (1993). "An Ecosystem Approach to Great Lakes Management: A Case Study of the Saugeen Valley Conservation Authority." *1993 Canadian Coastal Conference*. Canada Coastal Science and Engineering Association. Vancouver, B.C., May 1993.
- Lawrence, P.L. (1993). "Managing Coastal Sediments: The Theoretical and Practical Challenges." *1993 Ontario Association of Geomorphologists Conference*. Wilfrid Laurier University, Waterloo, Ontario, April 1993.
- Lawrence, P.L. and Nelson, J.G. (1992). "Developing and Environmental Folio for the Long Point Biosphere: Identifying Issues, Institutions and Information." *CAGONT '92 - Canadian Association of Geographers, Ontario Conference*. University of Toronto, Ontario, October 1992.
- Lawrence P.L. and Davidson-Arnott, R.G.D. (1992). "Evaluation of Alongshore Wave Energy and Sediment Transport Patterns on Southeastern Lake Huron Coast." *IAGLR '92 - 35th Annual Meeting, International Association for Great Lakes Research*. University of Waterloo, Waterloo, Ontario, June 1992.
- Lawrence, P.L. (1992). "Coastal Processes and a Management Framework for an Eroding Bluff Shoreline: A Case Study of Horizon View, Lake Huron." *Canadian Association of Geographers Conference '92*. Vancouver, British Columbia, May 1992.
- Lawrence, P.L. (1992). "Coastal Hazards on the Great Lakes: Implications for Management and Planning." *Canadian Association of Geographers Conference '92*. Vancouver, British Columbia, May 1992.

Lawrence, P.L. (1990). "As a Matter of Principles: Considering Management of the Great Lakes Coastline through Sustainable Development." *CAGONT '90 - Canadian Association of Geographers, Ontario Conference*. Brock University, St. Catherines, Ontario. October 1990.

Lawrence, P.L. (1990). "The Structure and Formation of Raised Cobble Beach Ridges on the Georgian Bay Shoreline, Bruce Peninsula, Ontario." *IAGLR '90 - 33rd Annual Meeting, International Association for Great Lakes Research*. Great Lakes Institute, Windsor, Ontario, May 1990.

Lawrence, P.L. (1990). "An Inventory of Shoreline Protection Structures and Preliminary Shore Hazard Assessment on Southeastern Lake Huron: Implications for a Shoreline Management Plan." *1990 Canadian Coastal Conference*. Kingston, Ontario, May 1990.

Lawrence, P.L. (1989). "Shoreline Classification along the Niagara Escarpment, Bruce Peninsula, Ontario." *CAGONT '89 - Canadian Association of Geographers, Ontario Conference*. University of Guelph, Ontario, October 1989.