

CURRICULUM VITAE
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ADDRESS

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EDUCATION

Ph.D. Aquatic Ecology, 1988. University of Louisville, Louisville, Kentucky. Dissertation title: Effects of different intensities and frequencies of disturbance by snail herbivory on periphyton succession. Advisor: Dr. R. Jan Stevenson (retired, Michigan State Univ.).

M.S. Aquatic Ecology, 1983. Central Michigan University, Mount Pleasant, Michigan. Thesis title: Effects of agricultural land use on leaf litter processing rates in central Michigan streams. Advisor: Dr. Robert H. King.

B.S. Biology with Ecology emphasis, 1980 (cum laude). Central Michigan University, Mt Pleasant, Michigan.

PROFESSIONAL POSITIONS HELD

2025 – present Special Assistant to the Secretary of Higher Education for Environmental Sustainability, International Association of Jesuit Universities, Society of Jesus, Rome, Italy
2025 – present Professor and former Founding Dean, School of Environmental Sustainability, LUC
2025 – present Advisory Board, Abrams Climate Academy, Kellogg School of Mgmt, Northwestern Univ
2020 - 2025 Founding Dean, The School of Environmental Sustainability, Loyola University Chicago
2020 - 2023 Board of Trustees Executive Committee, Peggy Notebaert Nature Museum, Chicago, IL
2018 - present Science Advisory Board, Campus de la Transition, Paris, France
2016 – 2025 Board of Trustees, Catholic Climate Covenant, Washington, DC
2013 – 2020 Founding Dean, The Institute of Environmental Sustainability, Loyola University Chicago
2013 – present Science Advisory Board, The Environmental Law and Policy Center, Chicago, IL
2013 – 2017 Board of Trustees, The Delta Institute, Chicago, IL
2013 – 2025 Board of Trustees, Peggy Notebaert Nature Museum and the Chicago Academy of Science
2010 – 2013 Vice Provost, Loyola University Chicago
2011 - 2013 Co-Founding Director of the Faculty Center for Ignatian Pedagogy, Loyola Chicago
2010 – 2011 Past President, Society for Freshwater Science
2009 – 2010 President, Society for Freshwater Science
2008 – 2009 President Elect, Society for Freshwater Science
2005 – 2010 Founding Director, Center for Urban Environmental Research & Policy, Loyola U Chicago
2003 - 2008 Associate Provost for Research and Centers, Loyola University Chicago

2002 – 2003 Program Director, National Science Foundation, Division of Environmental Biology, Ecosystem Studies Program, Arlington, VA
 2002 - present Professor, Department of Biology, Loyola University Chicago
 1994 – 2002 Associate Professor, Department of Biology, Loyola University Chicago
 1992 – 2013 Affiliated Faculty, The University of Michigan Biological Station, Pellston, MI
 1988 - 1994 Assistant Professor, Department of Biology, Loyola University Chicago
 1987-1988 Instructor, Department of Biology, Loyola University Chicago

GENERAL ACADEMIC and CIVIC AWARDS

2024 E. Ted Erickson Award, Industrial Water, Waste & Sewage Group of Chicago
 2024 *Crain's Chicago Business* Notable Leaders in Sustainability Award
 2023 Society for Freshwater Science Fellows Award
 2022 St. Peter Canisius Medal for Extraordinary Service, International Assn Jesuit Universities
 2020 Madonna della Strada Awardee from the Ignatian Volunteer Corps
 2020 Leadership in Science and Education Awardee from the Peggy Notebaert Nature Museum
 2018 Chicago Eco-Champion, *Make It Better Magazine Chicago*.
 2017 Expanded Reason Award, Pope Benedict XVI Foundation, Vatican City, Rome.
 2014 Honorary PhD Recipient and Commencement Speaker, Central MI University.
 2013 Chicago Green Award recipient, *Chicago Magazine*.
 2013 Named a Green Woman Powerhouse Making a Difference in Chicago, *The Wren*.
 2010 - 2011 Past-President, Society for Freshwater Science.
 2009 - 2010 President, Society for Freshwater Science.
 2008 - 2009 President-Elect Society for Freshwater Science.
 2002 - life University Faculty Scholar Award, Loyola University Chicago.
 1996 – life Sujak Master Teacher Award in the College of Arts & Sciences, Loyola University Chicago.
 1988 Biology Teacher of the Year, awarded by the Loyola University chapter of βββ.

RECENT PROFESSIONAL EXPERIENCE and ACCOMPLISHMENTS -- HIGHLIGHTS

2020 – 1 July, 2025 **Founding Dean, School of Environmental Sustainability (SES) -**

- The Board of Trustees ratified our proposal for IES to be promoted to the University's 13th School in September, 2020 with a vision to double faculty and staff positions and student enrollments by 2025. Since 2021, we have accomplished the following:
- Expanded to 39 full time faculty and staff, and are continuing to hire faculty. We have reached our goal on hiring staff and administrators in the Dean's office.
 - New staff position of Student Engagement Manager to develop a community of students at the UG and graduate levels, help them find internships and direct them into careers.
 - New staff position of Academic Advisor for UG and graduate students.
 - New staff position of Sustainability Manager to assist in the Office of Sustainability
- Developed Focus Areas within the SES that identify 5 complex, vexing socio-environmental problems that we are building expertise in: Biodiversity, Environment & Society, Sustainable Food Systems, Environmental Health & Toxicology, and Climate & Energy.
 - The Focus Areas have elected and salaried faculty Coordinators who are meeting with their

faculty and staff to build capacity in teaching, research and community outreach.

- Tuchman is fund raising with Advancement to name the Focus Areas as Centers, with endowed chairs, post docs, and operating budgets. Secured gift funding from Taylor O'Malley for a 3-year post-doc in the Food Systems FA. Hired our first Post-doc Daniel Hayden, PhD in April, 2025.
- Climate Change Conference in 2024 was themed around Food Security and received planning participation from the Sustainable Food Systems Focus Group as a catalyzing activity. The 2025 Climate Change Conference was themed around Water and Water Insecurity and catalyzed participation and interest by several aquatic faculty.
- Built a governance system having ratified SES Bylaws, and developed a Handbook of practices, policies and procedures.
- Conduct the annual Climate Change Conference with between 800 and 1,000 participants.
- Developed and execute the annual Abrams Sustainable Business Challenge to stimulate student entrepreneurship across the University in sustainable business ventures.
- Oversight of the Office of Sustainability which is facilitated our university in reaching carbon neutrality by January 2025, and advance our goals of, zero waste, decarbonized campuses.
- Today when surveyed, 57.1% of incoming freshmen say Loyola's commitment to the environment was *important* or *very important* to their electing to come to Loyola, demonstrating the external reputation we have developed and how this reputation draws undergraduates to Loyola.
- Developed new majors in Environmental Economics & Sustainability with two tracks, and developing a new major and concentration in the MS degree in Climate & Energy to make 8 total majors in SES.
- Fund raising over \$1M in gifts each year, with a steady increase in number of donors and total donations in support of student scholarships at the UG and Grad levels, student paid internships in biodiesel, urban agriculture, sustainability, environmental communications, and student engagement, professional development (travel to conferences) for faculty and staff, new initiatives, projects and speakers, the Climate Change Conference, and much more.

2013 – 2020 **Founding Dean of the Institute of Environmental Sustainability (IES)** –

- By Presidential appointment, Tuchman was asked to serve as the Founding Director of the IES (promoted to Dean in 2016), with the charge of building an interdisciplinary School of the Environment from the ground up, and bringing the University to national prominence in environmental science and sustainability. No national search was conducted for the position.
- Launched the IES in August 2013. Twelve years later IES (now the SES) has over 500 students and 39 FT faculty/staff, and was promoted to School status.
- Loyola reached national prominence by ranking 4th in US green schools by Sierra Club in 2014, has received numerous national and international awards in environmental sustainability including the 2017 Second Nature Climate Leadership Award, and has reached the aspirational STARS Gold rating by AASHE. The University has consistently ranked in the top 5% of green campuses nationwide since 2014.
- Oversaw the Office of Sustainability and the development and successful approval by the President and ratification by the Trustees of a Campus Climate Action Plan to make LUC carbon neutral by 2025. We became a carbon-neutral University in January 2025, and are developing a new Carbon Action Plan to decarbonize our campuses.
- By 2016, environmental sustainability had become a *key differentiator* of Loyola University Chicago; we are leading in the Midwest, the 28 Jesuit Universities in the US, and the 180 Jesuit

Universities world wide.

- When surveyed, 54% of incoming freshmen say Loyola's commitment to the environment was *important* or *very important* to their electing to come to Loyola, demonstrating the external reputation we have developed and how this reputation draws undergraduates to Loyola.
- Hosted annual international conferences on Global Climate Change since 2014, over 1,000 attendees in 2018.
- Collaborating on research, teaching and outreach with 22 different Loyola departments or schools and 38 external partner universities, businesses and NGOs.
- Participate and lead multiple Jesuit University Task Forces on environmental sustainability both nationally and internationally.
- Developed/implemented a Mission, Vision, Strategic Plan and an Operations Plan for the IES/SES.
- Developed/implemented 5 new undergraduate majors and four 5-year BS/MS dual degree programs.
- Developed 2 MS programs and 3 certificate programs which launched in 2019.
- Raised over \$6M for IES in donor gifts and >\$2M in grants for IES programming and infrastructure.
- Co-edited *Healing Earth*, a free online Environmental Science textbook written through the lens of ethics and spirituality for the poor and marginalized (see <https://healingearth.ijep.net>). Coordinated writing and editing with 120 participants from 40 Jesuit universities world-wide.
- Conduct environmental science research, maintain a research lab and mentor undergraduate and graduate students, post-doc fellows and Research Associates.

2010 – 2013 Vice Provost for New Initiatives –

- In 2010 the President and Provost asked me to serve as Vice Provost to design and implement several new initiatives at the University including LUREC academic programming, a new J-Term, the FCIP and IES, as well as improving on several existing programs and serving operations roles in the Provost's office.
- **LUREC.** Partnered with the President's office in acquiring a new 100-acre campus 50 miles NW of Chicago called the Loyola University Retreat and Ecology Campus (LUREC) where I helped design academic facilities, implemented, and continue to facilitate and manage all academic programming including; designing the construction of 3 teaching/research laboratories and 2 classrooms, a stockroom for equipment and supplies, an herbarium and specimen collection room. Developed a 4.5 acre student-run organic farm with a new groundwater well and electricity, a large greenhouse, hoop house, tool shed, processing center, chicken coop and bee hives. Designed and conducting ecological restoration of a 25 acre wetland and decommissioning of a 5 acre pond, a project that integrates students, faculty and researchers with industry experts. Facilitation and oversight of 5 summer field courses taught at LUREC. Conduct marketing for LUREC, successful fundraising, grant writing, staff and budget management.
- **J-Term.** To address student graduation rate and enhance the probability of students graduating within 4 years, I led, facilitated, and coordinated the development and implementation of a 2-week condensed January session (J-Term), which offers both face-to-face and online courses for students at the end of Christmas break. This was a new term at Loyola, launched in 2011, and its development required coordination with and explicit trust from the Deans, skeptical faculty, the Registrar, Bursar, Residence Life, Facilities, Library, Campus Safety, Information Technologies, University Marketing, Financial Aid, and Student Development. J-Term is extremely successful today providing upwards of 45 courses per year.
- **FCIP.** Co-Founded and co-Directed a Faculty Center on Ignatian Pedagogy designed to enhance

the teaching culture at Loyola, reward excellence in teaching, and provide resources for new teaching pedagogies and technologies. Instrumental in developing an online teaching certification program, and online teaching standards. Developed multiple university level teaching awards, an Ignatian Scholars Program, and invited Fr. Jose Meso to develop and teach an Ignatian Pedagogy course.

- **IES.** Coordinated and managed the merging of four academic units into the new Institute of Environmental Sustainability (IES), by holding 10 monthly planning meetings, retreats, and listening to concerns of all. Responsible for working closely with the architects and engineers, defining the functional needs for the new IES facility, a 217,000 sq ft, \$58M LEED Gold certified building which opened in fall of 2013. It has the largest geothermal facility in Chicago, a large biodiesel production and clean energy innovations lab, a 3,100 sq ft greenhouse, 2 aquaponics facilities, 2 Innovation Laboratories, state-of-the-art shared research laboratories, a GIS lab, faculty offices, and a 406-bed green student dorm, all under one roof.
- **Fund Raising.** Raised funds through grants and donors specifically for programming and infrastructure of LUREC and IES.
- **Strategic Planning.** I played a central role in the University Strategic Planning and implementation process.
- **University Core.** Facilitated the development of foundational Core courses in the social sciences and sciences and shepherded the implementation of a new University Core Curriculum across all schools. The social science foundational Core course development required meeting with the chairs of the social science departments to develop a 100-level course that integrates Political Science, Anthropology, Sociology and Psychology; a task that took almost 9 months to reach common ground and stakeholder ownership for a course on Globalization. Similarly, development of the Core science course required months of meetings with the chairs of Biology, Chemistry, Physics and Environmental Science, to agree upon a foundational Core science course addressing environmental threats to the planet.
- **Honors Program.** Oversight of the University Honor's Program which doubled in size during these 3 years, and facilitated their move into a new building.
- **Society of Jesus Task Force on Ecology.** By invitation of the University President, I served on Father General Aldo Nicolás's Task Force on Ecology and co-authored the [*Healing a Broken World*](#) document. This document has served to call all Jesuits worldwide to incorporate "Care for Creation" into their daily work and workplace. I was the only lay person from the 130 Jesuit Colleges and Universities worldwide to serve on this task force.
- **Healing Earth.** By invitation of the University President, I was asked to co-edit the [*Healing Earth*](#) e-textbook; an environmental science textbook that employs Ignatian pedagogy through the lenses of ethics and spirituality with a call to action. This text is free and open access, for Jesuit High Schools and Colleges worldwide, as well as for people at the margins, in refugee camps and in poverty situations. This project won the International Expanded Reason Award from the Vatican in 2017.
- **Professional Service.** Served as President of the Society of Freshwater Scientists for 1 year (president-elect for 1 year, and past-president for 1 year).
- **Professional Scholarship.** Conducted environmental science research, mentored graduate students, obtained federal grant funding and published refereed manuscripts in reputable journals.

2008 – 2010 **Founding Director of the Center for Urban Environmental Research and Policy (CUERP)** –

- After accomplishing all of the goals I set forth for my work in the Office of Research Services, in 2008 I asked permission of the President and Provost to step away from the Provost's office so that I could begin to develop CUERP and the University Sustainability Initiative. My goal was to reduce our campus environmental footprint by 50% and develop plans for a School of the Environment to raise awareness about the peril of the planet and develop solutions to environmental challenges. The President and Provost allowed me to develop and direct CUERP for two years, and then invited me back to the Provost's Office to serve as Vice Provost of New Initiatives in 2010.
- Developed the mission, vision, strategic plan and operations plan for CUERP.
- Negotiated for space and budget, hired 10 faculty and staff.
- Initiated and managed numerous successful ongoing programs including;
 - University GIS Research lab
 - University recycling and sustainability initiative
 - Some of the first truly interdisciplinary university research programs
 - Solutions To Environmental Problems (STEP) Program
 - CUERP Undergraduate Student Research Program
 - Carbon Scholars Program
 - Student-run Biodiesel Production Facility and BioSoap Production Facility
 - A 4.5 acre student organic farm at LUREC
 - Urban Agriculture Program with campus gardens and the Loyola Farmer's Market
 - A 25 acre wetland restoration and biodiversity recovery program.
- CUERP was very successful, and was the only University Center of Excellence to be elevated to the level of a degree-granting, stand-alone Institute, which is now well on its way to becoming the School of the Environment.
- Conducted environmental science research, maintained my research lab and mentored undergraduate and graduate students, post-doc fellows and Research Associates, obtained federal grant research funding and published refereed manuscripts in reputable journals.

2003 – 2008 **Associate Provost for Research and Centers** –

- After serving at the National Science Foundation as Program Officer in the Ecosystem Studies Program for one year, I was invited by the Provost to serve as Associate Provost for Research and Centers, to restructure and manage the Office of Research Services, to increase faculty grant awards by 50%, and to help define and oversee new strategic Centers of Excellence.
- Revitalized and completely restructured the Office of Research Services and all of its operations.
- Brought the university into compliance with radiation safety, biohazardous materials, and the use of animals and human subjects in research.
- Visited every department in CAS and schools on the Lakeside campuses to learn what needs faculty from different disciplines had for research, and developed programs to help facilitate research in these different areas.
- Created an online grant signature routing system and grant submission system (the PTAP).
- Developed internal research grant awards programs for humanities, social sciences, natural sciences, and professional school scholars.
- **LUROP** - Developed and launched the University-wide interdisciplinary Loyola Undergraduate Research Opportunities Program which coordinates and financially supports undergraduate

students conducting research with faculty. Developed and steward the Carbon Fellows Program for undergraduate student research in STEM disciplines.

- Worked with the VP of Research at HSD to develop and implement a cross-campus research initiative to incentivize and facilitate interdisciplinary research teams across our main liberal arts and sciences campus, the professional schools campus, and our health sciences campus.
- Facilitated and led the development of 3 new University Centers of Excellence (and served as Founding Director of one – CUERP). This required multiple town-hall meetings to engage faculty who had expertise and interest in Human Rights, Catholic Intellectual Heritage, and Environmental Sustainability. New Centers included the Center for Urban Environmental Research and Policy (CUERP), the Joan and Bill Hank Catholic Center for Catholic Intellectual Heritage (CCIH), and the Center for Human Rights of Children (CHRC).
- I oversaw and facilitated the sensitive retirement of two established Centers of Excellence (the Center of Ethics, and the Parmley Hearing Institute).
- Oversaw the direction and growth of all 8 University Centers of Excellence; developed a Center Directors Council that met monthly, and coordinated projects that leveraged different Centers with one another.
- LUC external grant funding doubled in the 5 years that I served as Associate Provost for Research and Centers.
- Conducted environmental science research, maintained my research lab and mentored undergraduate and graduate students, post-doc fellows and Research Associates, obtained federal grant research funding and published refereed manuscripts in reputable journals.

EXTRAMURAL RESEARCH GRANTS RECEIVED

- 2020 – 2022 Porticus Foundation. Translation of the Healing Earth online textbook into Portuguese and French. N.C. Tuchman and M.J. Garanzini. \$180,000.
- 2016- 2019 U.S. Environmental Protection Agency: Great Lakes Restoration Initiative (GLRI). “Increasing biodiversity and habitat complexity in invaded wetlands.” PIs S. Lishawa and N.C. Tuchman, Co-PIs E. Clark, A. Schrank, D. Albert, N. Reo, B. Lawrence. \$649,695.
- 2014-2017 U.S. Environmental Protection Agency, Great Lakes Restoration Initiative (GLRI). “Furthering Capacity to Maintain High Quality Coastal Wetlands in Northern Michigan”. P.I. N.C. Tuchman, Co-PI S. Lishawa. \$499,727.
- 2014 - 2015 Northern Trust Company Charitable Trust. “LUREC Summer Internships”. P.I. N.C. Tuchman, Co-PI S. Lishawa. \$75,000.
- 2012 – 2014 U.S. Department of Agriculture, National Institute of Food and Agriculture. “Sustainable Urban Agriculture Education for a Food Secure and Sustainable Future: A Workshop Series”. P.I., N.C. Tuchman, Co-PIs C.G. Peterson, L. Vail, S. Lishawa, and S. Mitten. \$35,630.
- 2010 – 2013 U.S. Environmental Protection Agency, Great Lakes Restoration Initiative (GLRI). “A

- Sustainable Approach to Restoring Wetland Biodiversity”. P.I. N.C. Tuchman, Co-PIs D. Albert, and S. Lishawa. \$449,603.
- 2010 - 2011 U.S. Department of Energy, Congressional Direction. “Chicago Clean Air, Clean Water Program, Loyola University Chicago: Environmental Monitoring for a Healthy Sustainable Urban Future.” P.I., N.C. Tuchman. \$486,000.
- 2009 - 2012 National Science Foundation (Division of Chemistry). “MRI-R2: Acquisition of a Triple Quadrupole Mass Spectrometer”. P.I., P. Chiarelli, Co-PIs N.C. Tuchman and P. Geddes. \$335,300.
- 2009 – 2011 National Science Foundation (Division of Environmental Biology). Urban Long-Term Research Areas Exploratory (ULTRA-Ex): Connecting the social and ecological sciences with planners, managers, and the public: Building a broad foundation for the Chicago Region ULTRA. P.I., D. Wise, Co-PIs L. Heneghan, B. Pijanowski, N.C. Tuchman, and L. Westphal. \$299,920.
- 2008 – 2010 U.S. Environmental Protection Agency P3 Program (People, Prosperity and the Planet). “Innovative Biodiesel Production: A Solution to the Scientific, Technical, & Educational Challenges of Sustainability”. P.I., N.C. Tuchman, Co-PIs D. Larkin and S. Lishawa. \$75,000.
- 2007 – 2009 National Oceanic and Atmospheric Administration’s Illinois-Indiana Sea Grant Program. “Do urbanization and invasive plant species affect water quality services performed by Great Lakes coastal wetlands?” P.I. N.C. Tuchman, Co-PIs, D. Larkin, P. Geddes and D. Goldblatt. \$80,000.
- 2007 – 2008 U.S. Environmental Protection Agency P3 Program (People, Prosperity and the Planet); Phase I “Innovative Biodiesel Production: A Solution to the Scientific, Technical, and Educational Challenges of Sustainability”. P.I. D. Larkin, Co-PI N.C. Tuchman. \$10,000.
- 2007 – 2009 National Science Foundation (Division of Environmental Biology, Ecosystems Studies Fellowship Program). “Exploring Mechanisms behind Invasions: Do Microbes Mediate Plant Invasion success by Altering Nutrient Pools and transformation Processes?” P.I. N.C. Tuchman, Co-PI P. Geddes. \$120,000.
- 2005 - 2009 National Science Foundation (Ecosystems Studies Program) “Graduate Research Fellowship Award: The Role of Litter Accumulation as a Mechanism for Invasion Success of a Non-Native Cattail, *Typha x glauca* in Great Lakes Coastal Wetlands.” P.I. N.C. Tuchman, Co-PI Monika Freyman. \$121,500.
- 2003 - 2005 National Science Foundation (Ecosystems Studies Program) “REU Supplement: Interactive Effects of Elevated Atmospheric CO₂, N-Enrichment, and an Invasive Species on Wetland Plant Productivity”. PI N.C. Tuchman. \$6,000.
- 2003 - 2005 National Science Foundation (Ecosystems Studies Program) “Supplement: Elevated

- Atmospheric CO₂ Alters Plant Detritus Nutritional Quality: Effects on Microbial and Detritivore Food Webs in Aquatic Ecosystems". P.I. N.C. Tuchman, Co-PI J. Kelly. \$27,000.
- 2001 - 2005 National Science Foundation (Ecosystems Studies) "Elevated Atmospheric CO₂ Alters Plant Detritus Nutritional Quality: Effects on Microbial and Detritivore Food Webs in Aquatic Ecosystems". P.I. N.C. Tuchman, Co-PIs, R.G. Wetzel and J.A. Teeri. \$348,332.
- 1999 - 2002 National Science Foundation (Ecosystems Studies Program) "Effects of Elevated Atmospheric CO₂ on Plant Nutritional Quality and Heterotrophic Utilization in Aquatic Ecosystems". P.I. N.C. Tuchman, Co-PIs, R.G. Wetzel and J.A. Teeri. \$300,000.
- 1996 Nancy Ryerson Ranney Leadership Grants Program. "Restoration of a Low-Diversity Cattail Wetland in the Ryerson Woods Conservation Area". P.I., N.C. Tuchman. \$6,000.
- 1995 Nancy Ryerson Ranney Leadership Grants Program. "Establishment of Seven Wetland Plant Species within a Disturbed Cattail Stand". P.I., N.C. Tuchman. \$5,750.
- 1993-1996 National Oceanic and Atmospheric Administration (Illinois-Indiana Sea Grant Program). "Shifts in Southwestern Lake Michigan Benthic Food Web Dynamics Since the Invasion of the Zebra Mussel". P.I., N.C. Tuchman. \$59,000.
- 1993 - 1995 National Science Foundation (Instrument and Laboratory Improvement Program). "Studying Plant Cellular Processes and Aquatic Organisms Through Advanced Microscopic Techniques". Co-PIs, N. Tuchman and J. Smarrelli. \$39,868.
- 1991-1993 National Oceanic and Atmospheric Administration (Illinois-Indiana Sea Grant Program). "Dietary Benefit of Benthic Algae in the Diets of Two Lake Michigan crayfish; *Orconectes propinquus* and *Orconectes virilis*". P.I., N.C. Tuchman. \$120,000.
- 1990-1991 National Oceanic and Atmospheric Administration (Sea Grant Program). "Effects of Crayfish Grazing on Benthic Algal Standing Crops, Turnover Rates, and Productivity". P.I., N.C. Tuchman. \$49,500.

INTRAMURAL RESEARCH GRANTS RECEIVED

- 2015 Loyola University Chicago Provost's Summer Research Fellowship. "Increasing the resilience of Great Lakes coastal wetlands to invasive species through Indigenous community-researcher collaboration". With S. Lishawa and B. Ohsowski. \$60,000.
- 2011 Center for Urban Environmental Research and Policy Summer Fellowship. "Characterizing the potential of Great Lakes wetland invaders to produce biogas". With E. Throop and B. Lawrence. \$2,000.
- 2011 Mulcahy Scholars Program. "Investigating the Effects of the Antibiotic Azithromycin on Stream Bacteria and Algal Community Composition". S. Hertel, L.Vail. \$2,000.

- 2010 – 2012 President’s Intercampus Research Award. "Environmental Exposure to Bisphenol-A in Countries at Differing Levels of Economic Development: Effects on Human Health and Aquatic Life". With A. Luke, D. Shoham, P. Chiarelli, and L. Vail. \$80,000.
- 2010 Center for Urban Environmental Research and Policy Summer Fellowship. “Investigating the Effects of the Antibiotic Azithromycin on Stream Bacteria and Algal Community Composition”. With S. Hertel and L. Vail. \$2,000.
- 2009 - 2011 Interdisciplinary Research Stimulation Award. “Chicago Clean Air, Clean Water Program”. With G. Thiruvathukal, P. Geddes, M. Schmeling, and J. Frenkreis. \$20,000.
- 2009 Loyola University Chicago Office of Research Services. “Emerging contaminants in Chicago surface waters: Effects on biological communities”. \$6,000.
- 2009 Mulcahy Scholars Program. “Invasive plant species and wetland denitrification rates: Effects of water level and time since invasion”. With O. McKenna. \$2,000.
- 2008 – 2010 Carbon Scholars Program. “Effects of Invasive Plant Species on Wetland Denitrification and Greenhouse Gas Emissions”. With M. Olszewski, D. Larkin and A. Fitch. \$14,000.
- 2008 Center for Urban Environmental Research & Policy Summer Fellowship. “Mapping Invasive Wetland Plants at Spring Bluff Nature Preserve”. With D. Miceli. \$2,000.
- 2007 Mulcahy Scholars Program. “Bacterial biomass and decomposition rates of 4 native wetland plants compared with the invasive *Typha x glauca*”. With C. Stowell. \$2,000.
- 2007 Mulcahy Scholars Program. “Tracking a wetland plant invasion through time using lead dating and nutrient analyses of soil cores.” With R. Porto. \$2000.
- 2007 Mulcahy Scholars Program. “Reconstructing the history of a plant invasion using pollen analyses of deep sediment cores”. With N. Kmytuyk. \$2,000.
- 2006 Center for Urban Environmental Research and Policy Summer Fellowship. “Does invasive *Typha x glauca* enhance N-fixation relative to native plants?” With L. Barham. \$2,000.
- 2005 Mulcahy Scholars Program. “Allelopathic properties of the invasive wetland plant, *Typha x glauca* on germination and growth of native wetland plants”. With S. Mestrezat. \$2,000.
- 2002 Mulcahy Scholars Program. “Elevated atmospheric CO₂ alters leaf litter nutritional quality for stream invertebrates, and the subsequent food quality of their feces for stream coprophageous insects”. With N. Miller. \$2,000.
- 2001 Mulcahy Scholars Program. “Elevated Atmospheric CO₂-Induced Alterations in Tree

- Foliage: Effects on Aquatic Detritivore Growth and Subsequent Fish Predation. With S. Abichandani. \$2,000.
- 2000 Mulcahy Scholars Program. "Elevated atmospheric CO₂ lowers leaf litter food quality: impacts on growth and development of 4 species of mosquito larvae." With L. Sasso. \$2,000.
- 1999 Mulcahy Scholars Program and Dept of Biology. "Upgrading and expanding the Stream Research Facility in the Greenhouse of Damen Hall". \$5,000.
- 1998 Mulcahy Scholars Program. "Elevated atmospheric CO₂-Induced alterations in tree foliage chemistry: Effects on stream detritivore growth rates". With G. Kilbane. \$2,025.
- 1996 Loyola University Summer Research Award. "Heterotrophic metabolism as a survival mechanism for resource-limited benthic algae". \$6,000.
- 1995 Loyola University Research Support Grant. "Effects of Hydrologic Regime on the Success of Four Wetland Forb Species. \$1,200.
- 1993 Loyola University Grant in Aid. "Design and Construction of a Stream Research Facility in the Greenhouse of Damen Hall". \$1,150.
- 1992 Loyola University Research Support Grant. "Effects of the Invasion of the Exotic Zebra Mussel on Rock Reef Ecosystems in SW Lake Michigan". \$1,200.
- 1991 Loyola University Summer Research Award. "Effects of Crayfish Grazing on Algae in Southwestern Lake Michigan". \$5,500.
- 1991 Loyola University Research Support Grant. "Effects of Crayfish Grazing on Benthic Algae in Southwestern Lake Michigan". \$1,000.
- 1989 Loyola University Summer Research Award. "Effects of Light Limitation on Diatom Stalk Production". Awarded \$4,500.

RESEARCH MANUSCRIPTS PUBLISHED (REFEREED)

- Keyport S, Carson BD, Johnson O, Lawrence BA, Lishawa SC, Tuchman NC, Kelly JJ. 2019. Effects of harvesting an invasive hybrid cattail on abiotic and biotic wetland properties. **Restoration Ecology**. 27 (2) 389-398. [DOI:10.1111/rec.12859](https://doi.org/10.1111/rec.12859)
- Lishawa, S. C., Lawrence, B. A., Albert, D. A., Larkin, D. J., & Tuchman, N. C. (2019). Invasive species removal increases species and phylogenetic diversity of wetland plant communities. **Ecology and Evolution**. 9 (11) 6231-6244. <https://doi.org/10.1002/ece3.5188>

- Carson, BD, Lishawa SC, Tuchman NC, Monks AM, Lawrence BA, Albert DA. 2018. Harvesting invasive plants to reduce nutrient loads and produce bioenergy: an assessment of Great Lakes coastal wetlands. **Ecosphere**. 9 (6): e02320. 10.1002/ecs2.2320.
- McCarthy, J.W. and Tuchman, N.C. 2018. How We Speak of Nature: A Plea for a Discourse of Depth. **The Heythrop Journal**. 59 (6): 944-958. <https://doi.org/10.1111/heyj.13017>
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- Zenchak, K.A. and N.C. Tuchman. 1991. The effects of crayfish grazing on benthic algal community dynamics in Southwestern Lake Michigan. 11th biennial North American Diatom Symposium, Clemson, South Carolina.
- Panella, J., J. Smarrelli and N.C. Tuchman. 1991. Facultative heterotrophy in *Achnanthes rostrata* under laboratory conditions. 11th biennial North American Diatom Symposium, Clemson, South Carolina.
- Tuchman, N.C., R. Jan Stevenson and K. A. Zenchak. 1991. Effects of snail and crayfish grazing on benthic algal succession rates and direction. 39th Annual meeting, North American Benthological Society, Santa Fe, New Mexico.
- Zenchak, K.A. and N.C. Tuchman. 1991. The effects of crayfish grazing on benthic algal community

dynamics in southwestern Lake Michigan. 39th Annual meeting, North American Benthological Society, Santa Fe, NM.

Johnson, R.E., N.C. Tuchman and J. Smarrelli. 1991. The effect of density on the distribution of photosynthetically active cells in benthic algal mats. 39th Annual meeting, North American Benthological Society, Santa Fe, New Mexico.

Tuchman, N.C. 1989. Limiting factors that induce stalk formation in benthic diatoms. 10th biennial meeting of the North American Diatom Symposium, Lake Itasca, Minnesota.

Tuchman, N.C., R.E. Youssef, R.J. Pane and I.S. Zabaneh. 1989. Effects of light intensities on Lake Michigan algal community development. IL State Academy of Science, Chicago, IL.

Tuchman, N.C. 1989. Effects of light level on benthic diatom stalk production. North American Benthological Society, Guelph, Ontario.

Tuchman, N.C. 1988. Effects of grazing on algal community resilience and resistance. North American Benthological Society, Tuscaloosa, Alabama.

Stevenson, R.J., C.C. King and N.C. Tuchman. 1988. Benthic algal succession: is there a common theme? Phycological Society of American meetings, Pacific Grove, California.

Kirschtel, D.B., N.C. Tuchman, C.C. King, C.G. Peterson and R.J. Stevenson. 1987. Periphyton succession: community response to nutrient enrichment. 9th N. American Diatom Symposium, Tomahawk, WI.

Stevenson, R.J., N.C. Tuchman, D.B. Kirschtel, C.C. King, and C.G. Peterson. 1987. Periphyton succession: can population accumulation patterns be used to assign species to guilds? 9th North American Diatom Symposium, Tomahawk, Wisconsin.

Brooks, N.C. 1986. Effects of acidity on the leaf decay process in four northern Michigan lakes. North American Benthological Society, Lawrence, Kansas.

Godshalk, G.L. and N.C. Brooks. 1985. A leaf litter budget study on two southern Mississippi streams. North American Benthological Society, Corvallis, Oregon.

Brooks, N.C. and R.H. King. 1983. Effects of agricultural land use on leaf litter processing rates in a central Michigan stream. North American Benthological Society, LaCrosse, Wisconsin.

PROFESSIONAL SOCIETY MEMBERSHIPS (past and present)

Society for Freshwater Science (SFS)

Society of Limnology and Oceanography (ASLO)

Ecological Society of America (ESA)

The Society for Wetland Scientists (SWS)

Council of Scientific Society Presidents (CSSP)

Association for the Advancement of Sustainability in Higher Education (AASHE)

OTHER PROFESSIONAL ACTIVITIES and SERVICES

2024 - 2025	External team member, Mission Priority Examen, Fordham University, Bronx, NY
2022 – present	Lead on designing curricula and executing a STEM teacher training program between Burkina Faso, Africa KoJUS University and Loyola University Chicago
2021 – 2022	External team member, Mission Priority Examen, San Francisco University, CA
2021 - present	Advisory Board member Santa Clara U. Environmental Justice Institute, San Jose, CA
2020 – 2023	Advisory Board member, Oxford University Campion Hall Laudato Si' Research Institute, Oxford, England
2020 – 2023	Board of Trustees Executive Committee, Peggy Notebaert Nature Museum, Chicago, IL
2020 – 2023	Chair, Museum Experience Committee, Peggy Notebaert Nature Museum, Chicago, IL
2020 – 2023	Laudato Si' 7-Year Journey, Universities Working Group, Vatican City, Rome, Italy
2019	External Mission Priority Examen Team for Santa Clara University, San Jose, CA
2019	Ecological Examen for Regis University, Denver, CO
2018 – present	Advisory Board member, Campus de la Transition, Paris, France
2018 – 2025	Faculty Council Member, LUC Baumhart Center for Social Enterprise, Chicago, IL
2017 - present	Chair, Society of Jesus, IAJU Task Force on Environmental and Economic Justice
2017	External Mission Priority Examen Team for LeMoyne University, Syracuse, NY
2016	External Mission Priority Examen Team for John Carroll University, Cleveland, OH
2016	External reviewer for Gonzaga University Environmental Studies Program
2016 – 2025	Board of Trustees, Catholic Climate Covenant, Washington, DC
2015 – 2019	U of I Summer Institute on Sustainability and Energy (SISE) Advisory Board
2015	External reviewer for Loyola University New Orleans Environmental Studies Program
2014	External reviewer for University of San Francisco Environmental Studies Program
2013 – 2025	Board of Trustees, Peggy Notebaert Nature Museum, Chicago, IL
2012 – present	Science Advisory Board, Environmental Law and Policy Center, Chicago, IL
2012 – present	Co-editor of <i>Healing Earth</i> , an online free Environmental Science textbook
2013 – 2017	Board of Trustees, the Delta Institute, Chicago, IL
2011 – 2012	Adolfo Nicolás, S.J. Task Force on Ecology – published <i>Healing a Broken World</i>
2008	Site Review Team, NSF Science and Technology SAHRA Program, Tucson, AZ
2008	Collaborated with Highland Park High School Asst. Principal to construct and develop a biodiesel lab program for the High School
2006 (fall)	Served on NSF review panel, Frontiers in Integrative Biological Research (FIBR).
2006 (spring)	Served on NSF review panel, Frontiers in Integrative Biological Research (FIBR).
2005 (fall)	Served on NSF review panel, Frontiers in Integrative Biological Research (FIBR).
2004	Served on NSF review panel, Long-Term Ecological Research (LTER) Program.
2004 - 2006	U of Michigan Biological Station seminar series coordinator.
2004	Reviewer and judge, JSHS High School Science Fair.
2004 - 2006	U of Michigan's NSF- IGERT Program Review and Selection Committee.
2003 - 2005	Aquatic Initiatives Committee of the Chicago Wilderness.
2006	Sustainability Task Force of the Chicago Wilderness.
2006 - 2012	Executive Committee of the Chicago Wilderness.
2003	Site reviewer for the NSF-funded Luquillo LTER Site in Puerto Rico.
2002-2003	Served as Program Officer for the Ecosystem Studies Program at the National Science

- Foundation, Arlington, VA. Oversight of \$13M budget and two programs (Ecosystem Studies and Coupled Natural and Human Systems)
- 2002 Participated in the U.S. Climate Change Science Program Planning Workshop for Scientists and Stakeholders, Washington, D.C.
- 2002 Served on NSF Division of Environmental Biology review panel for the Long-Term Ecological Research (LTER) competition.
- 2001 - 2005 Director of the Elevated CO₂ Research Facility at the University of Michigan Biological Station.
- 1995 – present *ad hoc* reviewer for the promotion and tenure of faculty at the Univ. of San Francisco, Univ. of California at Berkeley, The Ohio State University, The Univ. of Missouri-Rolla, Univ. of Denver, DePaul University, University of Oklahoma, Univ. of Maryland Baltimore County, and Loyola University Chicago.
- 1995 - 2004 Conduct Science Units and Science Field Trips for all grades (K-5) at Braeside Elementary School, Highland Park, IL
- 1991 - 1996 Professional Consultant for Integrated Lakes Management, Inc., Gurnee, IL
- 1991 - 1993 Chicago Junior Sciences and Humanities Symposium Advisory Board
- 1990 - present *ad hoc* grant proposal reviewer for 30 proposals submitted to the following funding agencies: National Science Foundation, U.S. Environmental Protection Agency, U.S. Department of Energy, Illinois-Indiana Sea Grant, Ohio Sea Grant, New York Sea Grant, Michigan Sea Grant.
- 1989 - present *ad hoc* manuscript reviewer for 61 manuscripts submitted to the following journals: *Ecology*, *Global Change Biology*, *Canadian J. Fisheries and Aquatic Sciences*, *Limnology and Oceanography*, *Freshwater Biology*, *J. North American Benthological Society*, *Archiv für Hydrobiologie*, *Oikos*, *Hydrobiologia*, *J. Phycology*, *Canadian J. Botany*, *J. Freshwater Ecology*, *American Midland Naturalist*, and *J. Great Lakes Research*.
- 1988 - 1990 Wetlands Consultant for Young Environmental Services, Inc., Glenview, IL

PROFESSIONAL PUBLIC SPEAKING

- 2025 Panelist and Panel Organizing Co-Chair – Environmental Justice: Responding to the Cry of the Earth and the Cry of the Poor. IAJU Assembly, Pontificia Universidad Javeriana, Bogotá, Colombia.
- 2025 Opening Remarks and Program Committee – Jesuit Integral Ecology Assembly: From Ecological Conversion to Prophetic Action. Loyola University Chicago
- 2025 Panelist, University as a Laboratory of Sustainability and Integral Ecology. Ten Years of Laudato Si': Challenges and Hope Conference at the Pontificia Universita Gregoriana, Rome, Italy.
- 2025 Plenary Presenter, HOPE:25 – The Jesuit University in the 21st Century: A Project of Hope for the World. 4-day conference at Universidad Loyola Andaluca, Sevilla, Spain
- 2025 Keynote Speaker, One Heart, One Home, One Vision: Celebrating the 10th anniversary of Laudato Si' Seattle University, Seattle, WA
- 2025 Panelist – The Current State of Climate Science. Envisioning a Livable Future: 10th Anniversary of Laudato Si' Lecture Series.
- 2024 Panelist, Int'l Conference on Environmental Sustainability, St. Aloysius College, Mangaluru, India
- 2024 Keynote, Int'l Conference on Environmental Sustainability, St. Aloysius College, Mangaluru, India
- 2024 Invited Speaker, co-presenter with Kana Henning, AJCU Facilities, Public safety and Sustainability Conference, Loyola University Maryland, Baltimore, MD

- 2023 Co-Presenter with Michael Schuck, Laudato Si' Universities workshop annual AJCU Conference on Pastoral, Theological and Ministerial Education in Tucson, AZ
- 2023 Presentation to Evanston Garden Club on the Health of the Great Lakes, Evanston, IL
- 2023 Presented to the International Association of Collegiate Conference and Event Directors about sustainable events and LUC sustainability, Chicago, IL
- 2023 Panelist and Moderator Reducing Healthcares' Environmental Footprint at American College of Healthcare Executives Congress on Care for our World: Intersecting Health Equity and Rapid Climate Change, MATTER, Chicago, IL
- 2023 Panelist, Ignatian STEM: What Difference Can a Jesuit Education Make? Webinar. Fordham University, NY, NY
- 2023 Inaugural Keynote Speaker at Xavier University's Laudato Si' Lecture Series
- 2023 Invited Speaker, How Can we Implement Laudato Si' Across Universities? Santa Clara University's Climate and Environmental Justice Conference, San Jose, CA
- 2023 Presenter - An Approach to an Environmentally Sustainable Campus. Presented to the residents of Westminster Place, an Independent and Assisted Living residence in Evanston, IL.
- 2023 Opening Remarks and Lecture on Climate Change and Our Responsibility to Meet Carbon Neutrality, Common Home Corps Training Camp, Loyola University Chicago.
- 2022 Closing Keynote speaker, Evanta Chicago CIO Executive Summit, Chicago, IL
- 2022 Panel speaker and Panel Coordinator Chair, Laudato Si' 7-Year Journey, IAJU Assembly, Boston College, Boston, MA
- 2022 Presenter – Science and Ethics at the International Conference on Transitioning to Integral Ecology? Transdisciplinary Approaches for the Grounding and Implementation of a Holistic Worldview at Pontificia Universita Gregoriana, Rome, Italy.
- 2022 Workshop Presenter - Ecology and Land Restoration: Connecting Science, Ethics, and Spirituality for the Presentation Sisters of the Blessed Virgin Mary, Aberdeen, SD
- 2021 Keynote Speaker on UAP 4, Justice in Jesuit Higher Ed Conference, Georgetown U., Washington DC
- 2021 Invited Speaker, The Jesuit University & Sustainability, AJCU Leadership Institute, Chicago, IL
- 2021 Spotlight: School of Environmental Sustainability at LUC, 30 min interview for Cimpatico TV
- 2021 Invited speaker on How Higher Ed can Lead on Sustainability, U of Detroit Mercy, Detroit, MI
- 2021 Keynote address for Sustainability Week at the Esade University of Barcelona, Spain
- 2021 Panel speaker for Sustainability in Businesses, Fordham University School of Business, NY
- 2021 Co-Panelist, Health Disparities and Climate Change. Loyola University Chicago, IL
- 2021 Keynote speaker on Sustainability at LUC, American Chemical Society, Chicago, IL
- 2021 Keynote address at Faith Doing Justice Summit on the Environment, Fordham Prep High School, NY
- 2021 Keynote address St. Joseph University's Institute of Environmental Stewardship, Philadelphia, PA
- 2021 Invited speaker for Earth Week event, Truman College, Chicago, IL
- 2021 Keynote address for launch of Institute for Climate, Villanova University, Philadelphia, PA
- 2020 Invited speaker on UAP 4, Midwest Province Conference for Jesuits in Formation, Milwaukee, WI
- 2020 Keynote Speaker at EAIE, International Higher Education Society, Seville, Spain
- 2019 Invited speaker at side event United Nations High-Level Political Forum on SDGs, NY, NY
- 2018 Invited speaker at EcoJesuit Annual Meeting, Leticia, Amazonas, Colombia
- 2018 Invited plenary speaker at International Association of Jesuit Universities Assembly, Bilbao, Spain
- 2018 Commencement speaker at Loyola Andaluca, Seville, Spain
- 2018 Keynote speaker at Association of Engineers on Environmental Sustainability and Engineering Solutions, Seville, Spain
- 2018 Invited speaker on Educating the Next Generation at St. Louis Univ. Climate Summit, St. Louis, MO

- 2018 Invited speaker on Laudato Si' and the Call for Courageous Leadership: Climate Action in Jesuit Universities, Cardinal Bernardin Lecture, Georgetown University
- 2018 Invited speaker at Second Nature Higher Education Climate Leadership Conference, Phoenix, AZ
- 2017 Invited speaker at EcoJesuit side event, COP23, Bonn, Germany
- 2017 Invited speaker at the Environmental Markets Association Roundtable: Current Developments in Environmental Markets: Air Quality Credits and Potential Nutrient Trading Tools, Chicago, IL
- 2017 Panel Moderator for the Fragile Great Lakes at the Peggy Notebaert Nature Museum
- 2016 Invited speaker at the Heartland Delta Faculty Conversations, Marquette University
- 2015 Invited speaker on The Role of Jesuit Universities in Advancing Laudato Si': LUC as a Case Study, Marquette University, Milwaukee, WI
- 2015 Invited speaker on The Particular Point of View of Biology on the World, Université Catholique de Louvain, Belgium
- 2015 Invited speaker on Living on our Fragile Planet: Ecological Sustainability & Global Climate Change, Common Ground, Deerfield, IL
- 2015 Keynote speaker at Sustainability Matters! Goethe Institute International Conference, Chicago, IL
- 2015 Invited speaker on The Role of Jesuit Universities in Advancing Sustainability, USDA Food and Nutrition Service, Chicago, IL
- 2015 Invited speaker on International Jesuit Ecology Project, International Assembly of Jesuit University Presidents, Melbourne, Australia
- 2015 Invited speaker on Sustainability and Higher Education, Focus Abengoa, Loyola Andalucia, Seville, Spain
- 2015 Invited speaker on Invasives-to-Energy: Can we Mitigate Climate Change while Managing Great Lakes Coastal Wetlands for Biodiversity?, Illinois Institute of Technology
- 2015 Invited speaker on International Jesuit Ecology Project, Loyola College, Chennai, India
- 2014 Commencement speaker at Newman Institute, Uppsala, Sweden
- 2014 Commencement Speaker and Honorary PhD recipient, Central Michigan University, Mt. Pleasant, MI
- 2015 Invited speaker on Sustainability, Mission and Higher Ed, John Carroll University
- 2015 Invited speaker on *Healing Earth* at the meeting of International Jesuit University Presidents in Melbourne, Australia
- 2014 Invited speaker on the State of the Great Lakes, Common Ground
- 2014 Invited speaker on Corporate Partnerships with Higher Ed for Sustainability, Spheres of Influence
- 2013 Good Food Festival & Conference, University of IL at Chicago, panelist
- 2013 Invited speaker on Global Climate Change, Common Ground
- 2013 Invited speaker at the McHenry County College Bioneers Lecture series
- 2013 The Albertus Magnus Lecturer at Dominican University, Chicago, IL
- 2012 Keynote speaker at the Inauguration of Fr. Kevin Gillespie, President, St. Joseph's Univ.
- 2012 Invited speaker on the Food System Crisis, the Common Ground
- 2012 Keynote speaker at the Annual Defenders of McHenry County meeting
- 2012 Invited speaker on the Global Water Crisis, the Common Ground
- 2011 Invited speaker on Global Climate Change, the Common Ground
- 2010 Invited speaker on Environmental Sustainability in Jesuit Higher Education at the Assembly of International Jesuit University Presidents in Mexico City
- 2010 Invited speaker on Agriculture and the Food System, the Common Ground
- 2010 Invited speaker on Global Climate Change at the Lake Shore Unitarian Society
- 2009 Invited speaker Building a Healthier Chicago annual meeting
- 2009 Keynote speaker at the Xavier University Sustainability conference

- 2009 Invited speaker at the 1909 Plan of Chicago Centennial Celebration
- 2009 Keynote speaker and Chair, The Common Ground Lecture series
- 2009 Invited speaker on Climate Science & Policy, Common Ground (w J. Frendreis)
- 2009 Invited speaker at the AJCU President's Board meeting Campus Sustainability
- 2009 Keynote speaker on Climate Change at Charis Ministries, Chicago, IL.
- 2008 Invited speaker on Invasive Species Research at the U. of MI Biol. Station.
- 2008 Invited Research speaker at U of Illinois Urbana Champaign.
- 2008 Invited Research speaker at Loyola University Chicago Biology Department.
- 2007 Invited Research speaker at U of I-Chicago School of Engineering, Environ/Water Resources.
- 2005 Invited Research speaker at Cornell University, Dept of Ecology and Evolutionary Biology.
- 2004 Invited speaker at the University of Montana, College of Forestry.
- 2004 Invited speaker at Western Michigan University, Department of Biology.
- 2004 Invited speaker for University of Illinois at Chicago's Ecology and Evolution seminar series.
- 2004 Invited speaker at The University of Montana, Division of Biological Sciences.
- 2003 Invited speaker at Eastern Michigan University, Department of Biology.
- 2003 Invited speaker at Virginia Polytechnic University, Department of Biological Sciences.
- 2002 Invited speaker at the Smithsonian Environmental Research Center.
- 2002 Invited speaker at Western Michigan University, Department of Biology.
- 2002 Invited speaker at Bucknell University, Department of Biology.
- 2002 Invited speaker at the National Science Foundation, Division of Environmental Biology.
- 2002 Invited speaker at the University of Alabama, Department of Biological Sciences.
- 2001 Invited speaker for Bowling Green State University's Biology Departmental seminar series.
- 2001 Research seminar at Loyola University Chicago Department of Biology seminar series.
- 2000 Invited speaker for the University of Georgia's Institute of Ecology seminar series.
- 2000 Invited speaker for the University of Michigan Biological Station research seminar series.
- 1998 Invited speaker for University of Illinois at Chicago's Ecology and Evolution seminar series.
- 1997 Invited seminar speaker University of Chicago, Ecology and Evolutionary Biology Dept.
- 1996 Interviewed on the "Insight" Program on CNN International; 8 minute live television interview on the impacts of the zebra mussel invasion on waterways in the U.S.
- 1995 Invited seminar speaker U.S. Environmental Protection Agency.
- 1994 Invited speaker for Central Michigan University's Department of Biology seminar series.
- 1993 Invited speaker for DePaul University's Department of Biology seminar series.
- 1993 Invited speaker for Michigan State University's Kellogg Biological Station seminar series.
- 1992 Invited speaker for Northern Illinois University Department of Biology seminar series.
- 1989 Invited speaker for dinner address at the American College Physicians Society annual meetings, Chicago, Illinois. Topic: The Ecological and Economic Impacts of Global Change.

PROFESSIONAL DEVELOPMENT

- 2024 Diversity, Equity and Inclusion workshop
- 2023 Diversity, Equity and Inclusion advanced training
- 2020 COVID-19 Awareness & Prevention training
- 2019 Diversity, Equity & Inclusion training
- 2011 – 2018 Monthly participant in 1-on-1 Xcellero Leadership Coaching program.
- 2012 – 2013 Participant in a course on Ignatian Pedagogy – 1 semester graduate course w/ Fr. Jose Mesa

2009 - 2010	Participant in the inaugural cohort of the Ignatian Colleagues Program, an 18-month AJCU lay leadership development program
2008	Participant, American Jesuit Colleges and Universities Leadership Conference II, Chicago, IL
2006	Participant, American Jesuit Colleges and Universities Leadership Conference I, Chicago, IL
2006	Participant, The Conference Board's Women's Leadership Conference: Advancing the Woman Leader: The Organizational Challenge, NY, NY.
2004	Participant, Loyola University Chicago Human Resources 8 day workshop on Management and Leadership.

TEACHING ACTIVITIES

- 1) **General Biology I (Biology 101):** All lectures in the semester: majors requirement; 45+ students. New preparation for this course.
- 2) **General Biology II (Biology 102):** All lectures in the semester: majors requirement; 170+ students.
- 3) **Honors General Biology II (Biology 125H):** All lectures in the semester; majors requirement for honors students; 40+ students.
- 4) **General Biology II (Biology 125):** All lectures in the semester; majors requirement; 40 students
- 5) **Environmental Careers & Professional Skills (ENVS 220):** Developed and taught the inaugural course for all SES majors.
- 6) **Ecology (Biology 265):** All lectures in the semester; majors requirement; 50+ students.
- 7) **Limnology (Biology 316/416):** All lectures in the semester as well as one 5-hour laboratory or field trip each week; elective. Graduate level course that I developed.
- 8) **Wetland Ecology (Biology 327/417):** All lectures in the semester as well as one 5-hour laboratory or field trip each week. New graduate level course that I developed.
- 9) **Special Topics: Research in Wetland Ecology (Biology 395/495):** Direct 15-18 students in researching wetland restoration. Undergraduate and graduate level course that I developed.
- 10) **Solutions To Environmental Problems: Biodiesel (ENVS 350b):** Designed and developed this interdisciplinary course with 13 faculty from 9 different academic units. Built a biodiesel lab and produced biodiesel for campus shuttle buses in 2008, developed a business plan for the operations, and produced a documentary, website, and partnered with 6 local high schools.
- 11) **Solutions To Environmental Problems: Food Systems (ENVS 350f):** Involved in the design and execution of this interdisciplinary course. Built a greenhouse for student/faculty research and food production, developed composting program on campus, developed and manage a community Farmer's Market and started a 4.5 acre student organic vegetable farm with bee-keeping and chickens at LUREC.
- 12) **Solutions To Environmental Problems: Water (ENVS 350w):** Designed and involved in execution of this interdisciplinary course with 10 faculty from 8 different academic units. Facilitated student's drive to ban the sale of bottled water on campuses, and implementation of a stormwater capture system on campus.
- 13) **Solutions To Environmental Problems: Biogas (ENVS 350g):** Designed and involved in execution of this interdisciplinary course. Facilitated experimental anaerobic digestion of waste food on campus to produce natural gas to offset fossil natural gas consumption.
- 14) **Global Change Biology (Biology 395/495):** All lectures in the semester. New course I developed for Biology majors and Environmental Studies Program majors.
- 15) **Restoration Ecology (Biology 395/495):** Team-taught course that I developed with Dr. Roberta Lammers and Dr. Marty Berg for Biology majors and Environ. Studies Program majors.
- 16) **Research Techniques (Biology 425):** One lecture in a semester. Graduate level course.

17) **Community Ecology (Biology 462):** All lectures and discussions in the semester. Graduate level course that I developed.

18) **Integral Ecology: Biodiversity (ENVS 490b):** Developed this course with a team of faculty for First Studies Jesuit men to learn about the environmental crisis of the loss of biodiversity. Taught at LUREC.

19) **Integral Ecology: Water (ENVS 490w):** Developed this course with a team of faculty for First Studies Jesuit men to learn about the environmental crisis and water insecurity. Taught at LSC.

UNIVERSITY OF MICHIGAN BIOLOGICAL STATION TEACHING ACTIVITIES

1992 - 2000 (summers). **Limnology (Biology 480):** All lectures and field trips. 5 credit upper division rigorous field and lecture course. Individual student research projects required in addition to small group research projects, oral presentations, and papers.

POST DOCTORAL FELLOW/RESEARCH ASSOCIATE SUPERVISION

2016 – 2022 Andrew Monks, Research Associate
2014 – 2018 Brendan Carson, Research Associate
2011 – 2012 Beth Lawrence, Post doc
2009 – present Shane Lishawa (Full time Research Associate)
2007 – 2008 Daniel Larkin, Post doc
2006 – 2009 Pamela Geddes, Post doc
2001 – 2003 Steven Rier, Post doc

UNDERGRADUATE and GRADUATE STUDENT RESEARCH SUPERVISION

2019 - 2021 Logan St. John, graduate student (mentor)
2016 – 2021 Kurtis Himmler, graduate student (mentor)
2014 - 2017 Kelsey Berke, graduate student (mentor)
2011 - 2013 Kayla Turek, graduate student (committee member)
2011 - 2012 Erin Throop CUERP Undergraduate Fellow (co-mentor)
2011 - 2012 Franz Schuck, LUREC Farm intern (co-mentor)
2011 - 2012 George Wilson, LUREC Farm intern (co-mentor)
2011 - 2012 Brandon Brabec, LUREC Farm intern (co-mentor)
2011 Donna Friedman, LUREC Farm intern (co-mentor)
2011 Megan Davern, undergraduate research assistant (co-mentor)
2011 Buck Castillo, NSF Research Experience for Undergrads (co-mentor)
2011 - 2013 Kimberly Greene, graduate student (mentor)
2010 - 2012 Samantha Hertel, Undergraduate Mulcahy and CUERP scholar (co-mentor)
2010 - 2013 Qian Wang, Chemistry Department PhD student (committee member)
2009 - 2011 Anna Sjodin, CUERP Undergraduate Fellow, and NSF REU (mentor)
2009 - 2010 Sarah Guidone, undergraduate research assistant (co-mentor)
2009 Andrew Monks, NSF Research Experience for Undergrads (mentor)
2009 Alex Tuchman, undergraduate research assistant (co-mentor)
2009 - 2014 Katrina Binaku, Chemistry Department PhD student (committee member)
2008 - 2011 Mark Mitchell, graduate student (mentor)

2008 Eric Applebaum, undergraduate research assistant (co-mentor)
 2008 - 2011 Owen McKenna, undergraduate research assistant (mentor)
 2008 - 2010 Michal Olszewski, Carbon Scholar (co-mentor)
 2008 - 2009 David Miceli, undergraduate CUERP fellow (mentor)
 2008 Kaitlin Koch, undergraduate research assistant (co-mentor)
 2007 Michal Olszewski, undergraduate research assistant (co-mentor)
 2007 Patrick Grucelski, undergraduate research assistant (mentor)
 2007 Terry Kowalski, undergraduate research assistant (mentor)
 2007 Jeffrey Price, NSF Research Experience for Undergrads (mentor)
 2007 – 2012 Allison Daley, Dept of ENVIS Master’s Student (committee member)
 2006 Natalie Kmytuyk, undergraduate Mulcahy Scholar (co-mentor)
 2006 Cindy Stowell, undergraduate Mulcahy Scholar (co-mentor)
 2006 Raphael Porto, undergraduate Mulcahy Scholar (co-mentor)
 2006 - 2009 Lane Barham, graduate student (mentor)
 2006 - 2009 Kara Borden, UIC MS student (committee member)
 2006 Alexander Cuthbert-Smith, post-bac student researcher (mentor)
 2005 - 2006 Scott Mestrezat, Mulcahy Undergraduate Researcher (mentor)
 2005 Emily Kay, Post-bac student researcher (mentor)
 2005 - 2006 Brian Schuetz, Post-bac student researcher (mentor)
 2005 Hannah Shadis, NSF Research Experience for Undergrads (mentor)
 2005 Chester Elliott, NSF Research Experience for Undergrads (mentor)
 2004 - 2006 Kathi Jo Jankowski, Master’s student (mentor)
 2004 - 2008 Monika Freyman, Master’s student (mentor)
 2004 Sharon Shattuck, NSF Research Experience for Undergrads (mentor)
 2004 Nicholas Tefft, Program for Undergraduate Research Experience (mentor)
 2004 Chester Elliott, Undergraduate Researcher (mentor)
 2004 Brandon Dowd, Undergraduate Researcher (mentor)
 2004 Laura Pickering, Program for Undergrad Research Experience (co-mentor)
 2004 - 2005 Erica Mynarich, Undergrad Researcher (mentor)
 2003 Alison Varty, Research Technician (supervisor)
 2003 Allison Poor, Undergraduate researcher (supervisor)
 2003 Shane Lishawa, Research Technician (supervisor)
 2003 Margaret Cowan, Research Technician (supervisor)
 2003 Peter Cowan, Research Technician (supervisor)
 2003 Laurel Billings, Research Technician (supervisor)
 2003 - 2007 Anna Taber, Master’s student; left the program (committee member)
 2003 - 2005 Jennifer Smith, Master’s student (committee member)
 2003 - 2007 Jennifer Koshorek, Master’s student (committee member)
 2002 – 2004 Matthew Pierle, Research Technician (supervisor)
 2002 – 2003 Mark Bradburn, Research Technician (supervisor)
 2002 - 2003 Nicole Miller, Undergraduate Research (BIOL 299/Mulcahy Scholar mentor)
 2002 - 2003 Katherine Baxtrom, Undergraduate Research (BIOL 299)
 2002 - 2003 John Kominoski, Master’s Student (advisor)
 2001 - 2002 Christina Zorzi, Undergraduate Research (BIOL 299)
 2001 - 2002 Shanti Abichandani, (Mulcahy Scholar mentor)

2001 - 2007 Margot McDonald, Masters Student (committee member)
 2001 - 2006 Eric Brown, Masters Student (advisor)
 2001 - 2006 Priscila Andrade, Masters Student (committee member)
 2001 - 2005 Holly Arrigoni, Masters student (committee member)
 2001 - 2003 Julie Adams, Ph.D. Candidate, BGSU (UMBS mentor)
 2001 Barbara Swedo, Research Experience for Undergrads (UMBS mentor)
 2001 Barbara Swedo, Undergraduate Research (BIOL 299)
 2000 - Lincoln Bradford, Master's student (mentor)
 2000 - 2001 Kristen Yanko, Masters Student, left the program (committee member)
 2000 - Elizabeth Lehigh, Ph.D. Candidate, Western Mich. Univ. (committee member)
 2000 Lisa Sasso, (Mulcahy Scholar mentor/BIOL 397H)
 2000 Alison Varty, NSF Research Experience for Undergrads (UMBS mentor)
 2000 Elizabeth Bernier, NSF Research Experience for Undergrads (UMBS mentor)
 2000 - 2001 Alexander Pavlovich, Masters Student, left the program (advisor)
 1999 Paul Marek, (Mulcahy Scholar mentor)
 1999 Nicole Russo, (Mulcahy Scholar mentor)
 1999 Grace Kilbane, (Mulcahy Scholar mentor)
 1999 Shaun Gill, Directed Reading (BIOL 493)
 1999 Grace Kilbane, Individual Study (BIOL 399)
 1999 Monique Baumel, Directed Reading (BIOL 493)
 1999 Mahya Shudnow, NSF Research Experience for Undergrads (UMBS mentor)
 1999 - 2001 Max Kanter, Masters Student (committee member)
 1998 - 2001 Kirk Wahtera, Masters Student (advisor)
 1998 - 2003 Monique Baumel, Masters Student (advisor)
 1998 Brian Brewer, Individual Study (BIOL 399)
 1998 Jennifer Joly, Directed Reading (BIOL 493)
 1998 Daniel Ng, Directed Reading (BIOL 493)
 1997 Monique Baumel, Individual Study (BIOL 399)
 1997 Monique Baumel, Teaching in Biology (mentor) (BIOL 510)
 1997 - 2005 Laura Rice, UIC Ph.D. Candidate (committee member)
 1996 - 2001 Nicole Vidales, Masters Student (committee member)
 1996 Sergey Maryanchik, Independent Study (BIOL 399)
 1996 (spring) Monique Baumel, Individual Study (BIOL 399)
 1996 (fall) Monique Baumel, Individual Study (BIOL 399)
 1995 - 2006 Nia Haller, Masters Student (committee member)
 1995 Alyssa Tomoff, NSF Research Experience for Undergraduates (UMBS mentor)
 1995 Romi Snivley, Senior Honors Thesis (BIOL 397H)
 1995 Jerry Martin, Senior Honors Thesis (BIOL 397H)
 1995 Angela Marshall, Senior Honors Thesis (BIOL 397H)
 1994 -1996 Linda Benning, Masters Student (committee member)
 1994 -1996 Heather Biga, Masters Student (committee member)
 1994 Aleks Shakhnet, Undergraduate Research (BIOL 299)
 1994 Jodi Sedlock, Undergraduate Research (BIOL 299)
 1994 - 1997 Neil Udovich, Masters Student, left the program (co-advisor)
 1994 - 1997 Marc Schollett, Masters Student (co-advisor)

1993 - 1994 Romi Snivley, Undergraduate Research (BIOL 299)
 1993 - 1994 Jerry Martin, Undergraduate Research (BIOL 299)
 1993 Jodi Sedlock, Internship in Biology (BIOL 398)
 1992 - 2001 Laurel Nida, U of Michigan Masters Student (committee member)
 1992 - 1997 Patrick Donovan, Masters Student (co-advisor)
 1992 - 1995 Christopher Call, Masters Student (advisor)
 1992 - 1995 Lincoln Bradford, Masters Student, took LOA after 1995 (advisor)
 1991 - 1994 Patricia Krema, Masters Student (advisor)
 1991 Patricia Krema, Directed Reading (BIOL 493)
 1991 - 1992 George Vass, Undergraduate Research (BIOL 299)
 1991 Kristi Zenchak, Individual Study (BIOL 399)
 1990 - 1994 Jeff Panella, Masters Student (co-advisor)
 1990 Michael Bert, Undergraduate Research (BIOL 299)
 1990 John Grace, Undergraduate Research (BIOL 299)
 1990 George Hejna, Undergraduate Research (BIOL 299)
 1989 - 1992 Kristi Zenchak, Masters Student (advisor)
 1989 Ibrahim Zabaneh, Senior Honors Thesis (BIOL 397H)
 1989 Randall Pane, Undergraduate Research (BIOL 299)
 1989 Riad Youssef, Undergraduate Research (BIOL 299)
 1989 - 1992 Jean Replicon, SSOM Ph.D. Student (committee member)
 1988 - 1995 Ronald Johnson, Masters Student (advisor)
 1988 Ronald Johnson, Individual Study (BIOL 399)
 1988 Terry Swade, Senior Honors Thesis (BIOL 397H)

HIGH SCHOOL STUDENT RESEARCH SUPERVISION

1994 Katheryn Hayes, Lincoln Park High School
 1993 Katheryn Hayes, Lincoln Park High School
 1991 M. Daniels, Lincoln Park High School
 1990 Lize VanderVoort, Lincoln Park High School

LOYOLA UNIVERSITY BIOLOGY DEPARTMENTAL COMMITTEE SERVICE

2004 - 2008 Promotion and Tenure Committee
 2003 Aquatic Ecologist Search Committee (Chair)
 2000 - 2004 Undergraduate Curriculum Committee
 1999 - 2002 Development of Biology track of Environmental Studies Program (Chair)
 1998 - 2000 Departmental Senior Assessment Committee (Chair in 1998-99)
 1998 - 2001 Departmental Promotion and Tenure Committee (Chair in 1998-99)
 1995 - 1997 Teaching Excellence Committee (Chair)
 1995 - 1997 Promotion and Tenure Committee
 1994 Aquatic Invertebrate Ecologist Search Committee
 1994 Library Journal (20% Cutting) Committee
 1990 - 1995 Graduate Program Committee
 1992 Graduate Program Subcommittee Chair for Graduate TCE's

1990 Developmental Biologist Search Committee
 1989 Director of Departmental Seminar Series
 1988 - 1990 Undergraduate Curriculum Committee
 1988 - 1990 ad hoc Ph.D. Curriculum Committee

LOYOLA UNIVERSITY-LEVEL COMMITTEE SERVICE

2023 - 2024 Search Committee, Dean of the School of Communications
 2021 – 2022 University Strategic Plan Implementation Committee
 2020 Chair, Search Committee for VP-Research Loyola University Chicago, Chicago, IL
 2019 - 2021 Graduate Studies Coordinating Board
 2019 - 2021 University Senate Academics Committee
 2018 - 2019 Chair, Dean Search, School of Communication
 2017 Chair, Board of Undergraduate Studies
 2016 Library Dean Search Committee member
 2015 – 2020 University Strategic Planning Committee, Plan 2020 Implementation
 2014 - 2015 University Strategic Planning Task Force
 2014 – 2021 University Senate
 2014 – 2016 University Senate Diversity & Inclusion Committee
 2014 – 2016 University Senate Student Development & Success Committee
 2011 – 2013 Institute of Public Health Task Force
 2011 – 2012 Chair, Committee on scheduling space at LUREC
 2010 - 2012 Information Technologies Executive Steering Committee
 2010 - 2013 Library Digital Repository Committee
 2010 - 2011 University Core Curriculum Committee
 2010 - 2021 Board of Undergraduate Studies
 2010 - 2013 Graduate Studies Coordinating Board
 2010 - 2012 Academic Affairs University Policy Committee
 2010 - 2015 LUREC Advisory Board
 2010 - 2013 Council on Student Success
 2010 – 2025 Council of Deans
 2009 - 2011 Strategic Planning University Policy Committee member
 2009 - 2010 Provost Search Committee
 2008 - 2009 University Strategic Planning Steering Committee
 2008 - 2009 Strategic Planning Task Force on Research and Faculty Development (Chair)
 2008 - 2009 Carnegie Community Engagement Classification Committee
 2008 - 2010 CURL Advisory Board
 2008 Gannon Center Interim Director Search Committee Chair
 2007 - 2013 Academic Affairs Committee of the Loyola University Board of Trustees
 2007 - 2008 University Academic Technology Committee
 2007 - 2008 LUC/Cook County Jail Initiative Co-Chair
 2006 - 2008 Centers of Excellence Directors' Council Chair
 2006 Gannon Center Director Search Committee Chair
 2005 - 2006 Center for Child, Family and Community Steering Committee
 2004 - 2005 Center for Urban Environmental Research and Policy Steering Committee Chair

2004 - 2005 Institute of Research Methodology Steering Committee Chair
2004 - 2008 Council of Deans
2004 - 2008 Provost's Cabinet/Senior Staff
2004 North Central University Accreditation Review Committee
2003 - 2004 Loyola University Faculty Research Mentor
2003 - 2004 Strategic Planning Task Force on Research in the University
2003 - 2004 University Core Curriculum Revision Committee
1999 Pre-Health Professions Advisory Board
1998 - 2001 Sujack Teaching Award Selection Committee
1998 - 2010 Advisory Board of the Environmental Studies Program
1997 - 2001 Advisory Committee on Teaching Excellence in the College and Teacher/Course Evaluation Subcommittee Chair
1996 - 1999 University Honors Programming Advisory Committee
1993 - 1994 Faculty Summer Research Award Review Committee
1993 - 1994 Sujack Teaching Award Selection Committee
1991 - 1993 Representative-At-Large of the Academic Council
1991 - 1993 Academic Council Elections Subcommittee
1991 - 1993 Committee for the Development of Teaching Excellence in CAS; and Subcommittee Chair
1991 - 1992 Latin American Studies Program Advisory Board
1990 - 1992 Loyola University Students for the Environment, Faculty Co-Advisor
1989 - 1991 Faculty Status Committee of the Faculty Council