

## Curriculum vitae

### WILLIAM J. MITSCH

Eminent Scholar and Director, Everglades Wetland Research Park  
Juliet C. Sproul Chair for Southwest Florida Habitat Restoration and Management  
Professor of Marine and Ecological Science  
**Florida Gulf Coast University**

Other faculty appointments (with dates of initial appointments):

- Einstein Professorship, **Chinese Academy of Sciences** (2010)
- Doctorate *honoris causa*, **University of Tartu**, Estonia (2010)
- Concurrent Professorship, **Nanjing Forestry University**, Nanjing, China (2011)
- Courtesy Professor of Soil and Water Science, **University of Florida**, Gainesville (2011)
- Professor Emeritus, School of Environment and Natural Resources, **The Ohio State University**, Columbus (2012)
- Affiliated Scientist, Environmental Science Graduate Program, **The Ohio State University**, Columbus (2012)
- Adjunct Professor, **Qufu Normal University**, Qufu, China (2014)
- Guest Professor of Biological Sciences, **University of Notre Dame**, Notre Dame, Indiana (2014)
- Courtesy Professor, School of Geosciences, **University of South Florida**, Tampa, Florida (2015)

Address: Everglades Wetland Research Park, 110 Kapnick Center, Florida Gulf Coast University,  
4940 Bayshore Drive, Naples Florida 34112 USA

Phone: office: +1 239 325 1365  
mobile: +1 614 946-6715  
FAX: office: +1 239-732-7043  
e-mail: [wmitsch@fgcu.edu](mailto:wmitsch@fgcu.edu)

## EDUCATION

Ph.D. 1975 Systems Ecology (Environmental Engineering Sciences), University of Florida  
M.E. 1972 Environmental Engineering Sciences, University of Florida  
B.S. 1969 Mechanical Engineering, University of Notre Dame

## ACADEMIC CAREER

**Oct 2012 – present, Florida Gulf Coast University, Naples, Florida**

Eminent Scholar and Director, Everglades Wetland Research Park  
Juliet C. Sproul Chair for Southwest Florida Habitat Restoration and Management  
Professor, Department of Marine and Ecological Sciences

**Jan 1986 – present, The Ohio State University, Columbus, Ohio**

Professor Emeritus, School of Environment and Natural Resources, Nov 2012-present  
Faculty Affiliate, Environmental Science Graduate Program, October 2012 - present  
Director, Olentangy River Wetland Research Park, 1992-2012

Distinguished Professor, College of Food, Agricultural and Environmental Sciences,  
2001-2012

Professor of (Environment and) Natural Resources, 1986-2012

Professor of Environmental Biology/Science, 1986-2012

Professor of Evolution, Ecology, and Organismal Biology (EEOB), 1999-2012

Professor of Civil and Environmental Engineering, 1989-2012

**1979 – 1985 University of Louisville, Louisville, Kentucky**

Professor, 1984-1985; Associate Professor, 1981-1984; Assistant Professor,  
1979-1980, Energy and Ecological Systems Program, Systems Science Institute  
Director, 1984-1985, Center for Environmental Science and Management

**1975 – 1979 Illinois Institute of Technology, Chicago, Illinois**

Assistant Professor, Pritzker Department of Environmental Engineering

**1971 - 1975 University of Florida, Gainesville, Florida**

Graduate Research Assistant, 1972-1975

Laboratory Coordinator, Center for Wetlands, 1974-1975

US EPA Graduate Assistant, 1971-1972

Department of Environmental Engineering Sciences

**OTHER RELATED POSITIONS**

2016 **Fulbright Senior Specialist**, Bialystok University of Technology, Bialystok, Poland

2007 **Fulbright Senior Specialist**, Harry Oppenheimer Okavango Research Centre, University  
of Botswana, Maun, Botswana

1986 - 1987 **Fulbright Fellow**, University of Copenhagen and Department of Environmental  
Chemistry, Royal Danish School of Pharmacy, Copenhagen, Denmark

1983 **AAAS Fellow**  
(summer) Environmental Science and Engineering Fellow  
U.S. Environmental Protection Agency, Washington, DC

1976 - 1977 **Argonne National Laboratory**, Argonne, IL  
(summers) Environmental Consultant, Energy and Environmental Systems Division

1970 - 1971 **Commonwealth Edison Company**, Chicago, IL  
Environmental Staff, Environmental Affairs Department

## **SIGNIFICANT INTERNATIONAL ACTIVITIES**

### **Ramsar Convention on Wetlands, Gland Switzerland**

- Received Merit Award at 12 COP meeting, Punta del Este, Uruguay June 3, 2015
- 2014 – present Chair, U.S. National Ramsar Committee
- 2009 – present, member, USA Ramsar Committee
- 2007 – 08 successful nomination of the Wilma H. Schiermeier Olentangy River Wetland Research Park as USA's 24<sup>th</sup> Ramsar Wetland of International Importance

### **CHINA**

- September 2016—Plenary Lecturer, 10<sup>th</sup> INTECOL Wetlands Conference 'Healthy Wetlands, Healthy Earth,' Changshu, China
- March 2016—Visiting Lecturer, Tsinghua University, Beijing, China
- July 2014—Lecture/wetland tour: Beijing Normal University, Northeast Normal University (Changchun), Qufu Normal University (Qufu), First Institute of Oceanography, National Oceanic Administration (Qingdao)
- July 2013—Lecture/wetland tour: Chinese Academy of Sciences (Beijing), Northeast Normal University (Changchun), Tsinghua University (Beijing), Sichuan University (Changdu) and wetland tours of Jiling and Qin Hai provinces
- 2011 and 2012—Lectures in several conferences in Yangtze River Basin: Jingzhou, Hubei Province, China (2012) and Chongqing Normal University, Chongqing, China (2011)
- 2010 Einstein Professorship lecture tour—Shanghai, Haikou, Beijing, Zhengzhou, Chongqing, Wuhan, Guilin, Hong Kong
- 2010—offered Thousand Talents Professorship, East China Normal University
- Short courses, workshops, research collaboration, and conferences at Chinese Academy of Sciences (CAS) and several universities: Beijing, Nanjing, Wuhan, Chongqing, and Shanghai with significant extensive visits to China in 1987, 1989, 1996, 2002, 2004, 2005, 2006, 2007, 2008, 2009
- worked with CAS scientists in the development of the field of ecological engineering
- published research in collaboration with Chinese scientists on Yangtze River/Three Gorges Dam, ecological engineering and wetland ecology:
  - with CAS in Wuhan on wetlands
  - with CAS in Beijing and Nanjing on ecological engineering
  - with East China Normal University on wetland ecology
- frequent host to visiting Chinese professors and graduate students at Olentangy River Wetland Research Park, Columbus, Ohio and Everglades Wetland Research Park, Naples, Florida

### **BOTSWANA**

2008-10 organizing committee, Flood pulse international conference, Harry Oppenheimer Okavango Research Centre, University of Botswana  
2002-08 Research Collaboration, Harry Oppenheimer Okavango Research Centre  
2007 Fulbright Senior Specialist, Harry Oppenheimer Okavango Research Centre  
2008 Research Expedition to Okavango wetland

### **MIDDLE EAST**

2007 review programs and monitoring of marshes of southern Iraq, including Nature Iraq's water budget plan and future monitoring initiatives, Venice, Italy  
2005 short course on ecological modeling for Iraqi scientists, Amman, Jordan

- 2005 co-author of UNEP wetland modeling manual for Iraqi scientists  
2004 UNEP short course on ecological engineering/restoration for Iraqi managers, Cairo, Egypt

## **POLAND**

- 2016 Fulbright Senior Specialist, Environmental Scientist (Wetlands), Bialystok University of Technology, Bialystok, Poland  
2013 Keynote and conference committee at International Symposium on Ecohydrology, Biotechnology & Engineering, Lotz Poland  
2013 collaboration on special issue of *Ecohydrology & Hydrobiology* special issue from EcoSummit 2012, including authorship of Preface  
2011-12 collaboration with Prof Maciej Zalewski and others on development of the *Columbus Declaration*, released at EcoSummit 2012 in Columbus Ohio USA on October 5, 2012. Its title was “Harmonization of societal needs with the ecosphere in the Anthropocene Era.”  
2008 Keynote presentation at “Ecohydrological Processes and Sustainable Floodplain Management” international conference, Lotz Poland.  
2000 editor-in-chief who authorized special issue of *Ecological Engineering* by special issue editor Maciej Zalewski, introducing the field of ecohydrology to the scientific and engineering world

## **COSTA RICA**

- 2009 invited seminar as part of Paz con La Naturaleza, Centro Nacional de Alta Tecnologia San Jose Costa Rica  
2003-09 EARTH University and La Selva Biological Station, collaborative research on wetlands, water quality, and carbon cycle  
2008, 2013 Keynote lectures at International Symposia on Ecohydrology, Biotechnology & Engineering, Łódź, Poland

## **SWEDEN**

- 2012-116 MISTRA (Foundation for Strategic Environmental Research) review panel on effectiveness of created/restored wetlands for removing phosphorus and nitrogen  
2004, 2005, 2006, 2009, 2010 SWP Laureate participation in World Water Week events  
2004 Stockholm Water Prize (SWP) Laureate  
1996, 1998, 2000 MISTRA (Foundation for Strategic Environmental Research), Stockholm, Sweden International scientific review panel environmental research Program on “Water Management—Toward Catchment-Based Solutions”

## **SPAIN**

- 2016 Sven Erik Jørgensen Lecturer, Limnology 2016, Tortosa, Spain  
1993, 2002, 2004 CIHEAM (Centro Internacional de Altos Estudios Agronomicos Mediterraneos), Zaragoza, Spain; Short courses for Mediterranean country participants on wetlands and ecological engineering

## **FRANCE**

- 2016 Co-Chair, EcoSummit 2016, August 2016, Montpellier, France  
2013 Keynote lectures at WETPOL international conference, Nantes, and ISEM conference Toulouse  
2013 Scientific exchange visit and invited lecture at IRSTEA, Antony (Paris)  
2009 Keynote lecturer, Ecological Engineering Conference, Paris  
1994-2002 SCOPE (Scientific Committee on Problems of the Environment),

Paris, France, Co-chair, Committee on Ecological Engineering and Ecosystem Restoration

## **DENMARK**

1980-2015 frequent collaborator, lecturer, short course instructor,  
University of Copenhagen, Copenhagen, Denmark

1986-87 Fulbright Fellowship, Wetland Research and Teaching, DHF, Department of Chemistry  
and University of Copenhagen, Copenhagen, Denmark

## **ESTONIA**

2007- present—collaboration with University of Tartu

2010 Doctorate *honoris causa*, University of Tartu, Estonia

2009 External examiner, Ph.D. dissertation, University of Tartu, Estonia

1993 – present significant collaboration with several academic units at University of Tartu on  
workshops, special issues, and academic program development in ecological engineering

1983 invited scientist to SCOPE-sponsored international wetland congress, Tallinn

## **IPPC (Intergovernmental Panel on Climate Change)**

Reviewer of wetland chapter in first technical report, 1995

## **INTECOL (The International Association of Ecology)**

- 2016 INTECOL Outstanding Wetland Scientist Award
- Wetland Conference Organizing Committee: 1996 (Perth, Australia); 2000 (Quebec, Canada);  
2004 (Utrecht, The Netherlands); 2008 (Cuibiá, Brazil); 2012 (Orlando, Florida); 2016  
(Changshu, China)
- Wetlands Conference Organizer and Chair, 1992 (Columbus, USA)
- Wetland Working Group, 1988-present

## **SIGNIFICANT USA ACTIVITIES**

### **State of Louisiana**

2009-11 Science and Engineering Review Team, Donaldsonville to the Gulf Levee Alternatives

2005-06 Post-Hurricane Katrina Review Committee, Don Bosch, Univ. of Md., Chair

1995-2005 frequent consultant and collaborator on restoration of Mississippi River Basin and  
Mississippi River Delta

### **South Florida Water Management District**

2010-13 collaborative research on stormwater treatment area (STA) wetlands

2006 Peer-review panel on Everglades Landscape Model

2005 Peer-review panel on Accelerated Recovery of Everglades

1997 South Florida isolated wetland workshop

### **U.S. Environmental Protection Agency, Washington, DC**

2013 Invited participant, Resilience and Sustainability: A Transdisciplinary Symposium,  
USEPA, NSF, and NCSE, Washington, DC

2006-12 Integrated Nitrogen Committee, Science Advisory Board

2005-13 Research grants from U.S. EPA, Cincinnati and Gulf Coast on wetland  
creation/restoration and wetland climate change issues

2001-07 Science Advisory Board (SAB), Ecological Effects Committee

1983 AAAS Fellowship for summer in U.S. Environmental Protection Agency, Washington DC

### **National Research Council, National Academy of Science, Washington, DC**

2002-04 Panel - River Basins and Coastal Systems within the U.S. Army Corps of Engineers

1999-2001 Panel - Wetland Mitigation

1993-95 Panel - Wetland Characterization

1991-97 Panel -U.S. Committee to SCOPE (Scientific Committee on the Problems of the Environment)

**U.S. Army Corps of Engineers**

2011-12; 2014-15 Battelle Independent External Peer Review Report for St. Johns Bayou and New Madrid Floodway Project, Missouri

2009-10 Independent External Peer Review Committee, Environmental Impact Statement, St. Johns Bayou and New Madrid Floodway Project, Lower Mississippi River, Missouri

2002-05 National Technical Review Committee, Louisiana Coastal Area (LCA) restoration plan, New Orleans, LA

**U.S. Congress**

1996 invited to give oral testimony on wetlands, U.S. Senate Committee on Environment and Public Works

1991 invited to give written testimony on wetlands, U.S. Senate and House Committees

**National Oceanographic and Atmospheric Administration, Washington, DC**

2006 Assessment Team, Louisiana Sea Grant College Program

1997-99 Chair, Committee on Scientific Solutions to the Gulf of Mexico Hypoxia

**PSEG, Newark, New Jersey**

1995-present Advisory committee, Estuary Enhancement Program, Delaware Bay

**ACADEMIC PROGRAM LEADERSHIP**

**Florida Gulf Coast University**

- Founder and Director, Everglades Wetland Research Park, Florida Gulf Coast University, Naples, Florida, 2012-present
- Organizer, Moonlight on the Marsh lecture series at Naples Botanical Garden, Naples FL
  - 2012-13 – 7 speakers, 500 participants
  - 2013-14 – 5 speakers, 600 participants
  - 2015 – 5 speakers, 600 participants
  - 2016—5 speakers, 720 participants
  - 2017 – 5 speakers
- Co-Chair, EcoSummit 2016, August 2016, Montpellier, France, 1500 participants from 80 countries

**The Ohio State University**

- Organizer and Chair, EcoSummit 2012, October 2012, Columbus, 1700 participants from 74 countries
- Organizer and PI, Center for Innovation Proposal on Water and Ecosystem Services, 9 colleges and 50 researcher effort (finalist in OSU Office of Research competition) 2009
- Chair, Committee on Interdisciplinary Research, Office of the Provost, The Ohio State University, 2004
- Founder and Director, Olentangy River Wetland Research Park, The Ohio State University, 1992-2012; total funding support: \$9+ million
- Co-chair, OARDC Annual Meeting, “Hypoxia in the Gulf of Mexico: Contributions and Solutions from Ohio” April 5, 2001
- Chair—search committee for three new positions in ecological engineering at Ohio State, 1998-00 and co-author of successful Academic Enrichment Proposal to OSU Office of Academic Affairs for 3 faculty lines for 3 departments in the new field of “ecological engineering”

- Coordinator and co-PI—OSU Office of Research support for 3 department, 4-PI project on “Development of a Center for Wetland Ecotechnology,” 1992-95
- Successful nominator for ecologists H.T. Odum (1995), E.P. Odum (1999), C.H. Chung (1999) and T.M. Hesburgh (2002) for honorary degrees at Ohio State University and S.E. Jørgensen (1991) as distinguished visiting scientist
- Organizer—proposal to U.S. EPA for 10-yr, \$10 million Research Center of Ecotechnology. Ohio State was among finalists (6) out of 80 applicants
- Chair—ad-hoc committee that developed campus-wide Environmental Science Graduate Program (ESGP), 1989-91 and first graduate studies chair of program, 1991-92
- Instigator—undergraduate degree in Environmental Science, School of Natural Resources, The Ohio State University, 1988-92

## PROFESSIONAL SOCIETIES

### *American Association for the Advancement of Science*

Fellow (1996-present)

Environmental Science Fellow (1983)

Invited National Meeting Speaker (1995-2000) Atlanta; Anaheim, CA; Washington DC

### *Ecological Society of America* (member since 1974)

Professional Certification Committee, 1992-95, 1998-2003 (elected position)

Symposium Organizer, 1987, 1995

Certified Senior Ecologist, 1982-present

Education Committee, 1985

Sponsorship Committee, 1984

### *INTECOL* (The International Association of Ecology)

Wetland Conference Organizing Committee, 1996 (Perth, Australia), 2000 (Quebec, Canada), 2004 (Utrecht, The Netherlands), 2008 (Cuiaba, Brazil), 2012 (Orlando, USA), 2016 (Changsha, China)

Wetlands Conference Organizer and Chair, 1992 (Columbus, USA)

Wetland Working Group, 1988-present

### *Society of Wetland Scientists*

Editorial Board, *Wetlands* 2006-2009

Executive Board, 1994-1998

Past-President, 1996-97

President, 1995-96

Vice-President, 1994-95

### *Sigma Xi*, Honorary Society for Scientific Research

Ohio State University Chapter

President, 1989-1990

President-Elect and Seminar Chair, 1988-1989

Board of Electors, 1987-1988

University of Louisville Chapter

President, 1985

President-Elect, 1984-1985

Treasurer, 1983-1984

### *International Society for Ecological Modelling* (ISEM)

President, North American Chapter, 1990-1993

Secretary General, North American Chapter, 1982-1989  
Symposium Organizer, 1981, 1983, 1985, 1987, 1990  
Newsletter Editor, 1983-1993

*American Society of Limnology and Oceanography*

*International Water Association*

*International Society of Ecological Engineering*

Founder (1993) and Board of Directors, 1993-2000

*Ohio River Basin Consortium for Research and Education*

Founder, 1983-1985

Executive Director 1985-1991

Newsletter Editor 1985-1991

Symposium Committee 1985, 1986, 1987, 1989, 1990

*Society for Ecological Restoration International*

Theodore M. Sperry Award 2005

*American Ecological Engineering Society*

Founder and First President, 2001-2003

Honorary Society

*Honorable Order of Kentucky Colonels*

Commission of Colonel, 1996-present

#### **JOURNAL EDITORIAL BOARDS**

1991-present founder and editor-in-chief, *Ecological Engineering*

2006-2009 *Wetlands*

2000-present *Ecological Indicators*

1992-2004 *Wetlands Ecology and Management*

1988-2007 *Ecological Economics*

1983-present *Ecological Modelling*

2009-present *Solutions*

2012-present *Ecosystem Services*

2013-present *Ecohydrology & Hydrobiology*

#### **AWARDS**

- 2016 Outstanding Wetland Scientist Award, 10<sup>th</sup> INTECOL (International Association of Ecology) Wetland Conference, Changshu, China
- 2016 Fulbright Senior Specialist Award, Environmental Scientist (Wetlands), Bialystok University of Technology, Bialystok, Poland
- 2015 The Ramsar Convention Award for Merit, The Ramsar Convention, Gland Switzerland. Presented at Ramsar Committee of Party (COP) 12<sup>th</sup> Congress, Punta del Este, Uruguay June 3, 2015



- 2011 Honorary Member SPHINX Senior Honorary, The Ohio State University, 105<sup>th</sup> class (One of only 3 honoraries chosen by the students annually). SPHINX is a senior honorary and the oldest honorary at The Ohio State University, dating back to 1907.
- 2011 Concurrent Professorship, Nanjing Forestry University, Nanjing, China
- 2010 Doctorate *honoris causa*, University of Tartu, Estonia
- 2010 Einstein Professorship, Chinese Academy of Sciences, Beijing, China  
*Einstein Professorships are awarded annually by the Chinese Academy of Sciences to up to 20 distinguished international scientists actively working at the frontiers of science and technology from around the world and every scientific discipline.*
- 2007 Lifetime Achievement Award, Society of Wetland Scientists
- 2007 Fulbright Senior Specialist, Harry Oppenheimer Okavango Research Centre, University of Botswana, Maun, Botswana
- 2005 Theodore M. Sperry Award (for a career in ecosystem restoration)  
Society for Ecological Restoration International
- 2004 Stockholm Water Prize, Stockholm, Sweden  
*The Stockholm Water Prize is the world's most prestigious prize for outstanding achievement in water-related activities. The annual prize, which includes a US\$ 150,000 award and a crystal sculpture specially designed and created by Orrefors, honors individuals, institutions or organizations whose work contributes broadly to the conservation and protection of water resources and to improved health of the planet's inhabitants and ecosystems. H.M. King Carl XVI Gustaf of Sweden is the Patron of the Stockholm Water Prize.*
- 2001 "Distinguished Professor," College of Food, Agricultural, and Environmental Sciences, The Ohio State University (first one so named in College)
- 2000 Service Award, INTECOL Wetland Working Group
- 2000 CH2M-Hill Foundation National Award
- 1998 Odum Lecturer - University of Georgia
- 1998 Distinguished Scholar, The Ohio State University
- 1996 AAAS (American Association for the Advancement of Science) Fellow for "outstanding and acclaimed contributions in systems ecology of wetlands, ecological engineering, and ecotechnology"
- 1996 OARDC Research Award, The Ohio State University

- 1996 National Wetlands Award--Research, U.S. Environmental Protection Agency and Environmental Law Institute, Washington, DC
- 1993 Ohio Landscape Association Award (Ohio Chapter of American Society of Landscape Architects) for design of Olentangy River Wetland Research Park
- 1992 "River Keeper Award" by Ohio River Basin Consortium for Research and Education
- 1990 *Ohio Journal of Science* paper of the year (Cavanaugh and Mitsch, 1989)
- 1988 Honorary 100, School of Natural Resources Alumni Association
- 1986-87 Fulbright Fellowship, Wetland Research and Teaching, DHF, Department of Chemistry and University of Copenhagen, Copenhagen, Denmark
- 1984 University Research Award—University of Louisville "In Recognition of Excellence in Scholarship, Research, and Creative Activity"
- 1983 Environmental Science and Engineering Fellow, AAAS and U.S. Environmental Protection Agency, Washington, DC

## **HONORS**

- 2015 Live TV interview on wetlands by CCTV America
- 2015 Interviewed on National Public Radio (NPR) *Here and Now* program on Florida Everglades
- 2014 nominated and confirmed as Chair, U.S. National Ramsar Committee
- 2014 Invited for two presentations at the Everglades Coalition meeting, Naples, FL
- 2013 quoted extensively in *Scientific American* article on wetland creation and restoration: Carey, J., 2013. Architects of the Swamp. *Scientific American*. December, 309 (6): 74-79.
- 2009-10 Clean Water America Alliance, one of 30 scientists and policy experts nationwide invited to discuss future of water in USA, Washington DC.
- 2008 Olentangy River Wetland Research Park named USA's 24<sup>th</sup> and Ohio's first Ramsar Wetland of International Importance
- 2008 SWACO (Solid Waste Authority of Central Ohio) Central Ohio Emerald Award for the Olentangy River Wetland Research Park
- 2007 Fulbright Senior Specialist, for collaboration at University of Botswana, Maun

2006-11 member, U.S. EPA Science Advisory, Washington DC, Board Interactive Nitrogen Committee (INC)

2002-07 member, U.S. EPA Science Advisory Board, Washington DC, Ecological Effects Committee

2002-04 member - National Research Council Committee to Assess the U.S. Army Corps of Engineers Methods of Analysis and Peer Review for Water Resources Project Planning (Watersheds and Coastal), NAS, Washington, DC

2000-04 Science Advisory Board, Ballona Wetlands Foundation, Playa Del Rey, California

1999-2001 member - National Research Council Wetland Mitigation Committee, NAS, Washington, DC

1995-2000 Invited presenter at 3 AAAS annual meetings in 5-yr period (Atlanta, Anaheim, Washington DC)

1997-2000 Committee chair—NOAA committee on hypoxia in Gulf of Mexico

1996, 1998, 2000 International scientific review panel environmental research program on “Water Management—Toward Catchment-Based Solutions” for MISTRA (Foundation for Strategic Environmental Research), Stockholm, Sweden

1996 invited oral testimony on wetlands before U.S. Senate Committee on Environment and Public Works

1995 invited reviewer for chapter in Intergovernmental Panel on Climate Change (IPCC) technical report

1995-present Advisory committee, Estuary Enhancement Program, Delaware Bay, PSEG, New Jersey

1994-2003 initiator and co-chair of SCOPE project on ecological engineering and ecosystem restoration, Paris, France by SCOPE General Assembly. SCOPE is member organization of ICSU

1994-96 elected President, Society of Wetland Scientists, society of 4,000 members dedicated to research and management of wetlands

1994 Great Lakes wetland research project cited before Ohio State Board of Trustees

1993-95 member - National Research Council Wetland Characterization Committee, NAS, Washington, DC

1991-97 member - Committee to SCOPE (Scientific Committee on the Problems of the Environment), National Research Council, Washington, DC

1993 organized National Research Council workshop on Ecological Engineering, National Academy of Sciences, Washington, DC (May)

- 1993 nominated for Pew Scholars Program in Conservation and the Environment
- 1992 conference chair, IV International Wetlands Conference, sponsored by International Association of Ecology (INTECOL); with attendance of over 900 participants from over 50 countries, this remains the second largest wetland conference ever held
- 1991 invited written testimony on wetlands—U.S. Senate and U.S. House of Representatives
- 1989 peer review panel - Great Lakes Environmental Research Laboratory (GLERL), National Oceanic and Atmospheric Administration, Ann Arbor, MI
- 1989 chair, peer review panel, Final Report on Ashland Oil Spill on Ohio River
- 1987-97 Cooperative Programs with Chinese Academy of Science, Beijing, Nanjing, and Wuhan
- 1987-88 peer review panel, Wetlands Research Program, U.S. Environmental Protection Agency
- 1987 founding member of OSU Chapter of Phi Beta Delta, Honor Society for International Scholars
- 1986-88 member, Board of Directors - Ohio Environmental Council, Columbus, OH
- 1986-92 Technical Advisory Committee - Des Plaines River Wetlands Demonstration Project, Wetlands Research, Inc., Chicago, IL
- 1986-87 textbook *Wetlands* reviewed in *Science* three months after publication; also reviewed favorably in *American Scientist*, *Ecology*, and *BioScience*
- 1986 Ohio River Basin Consortium work twice cited before OSU Board of Trustees
- 1986 Science Advisory Committee and Session Chair, Acid Rain Conference, Chicago, IL
- 1985 Biology peer review panel, U.S. Environmental Protection Agency, Dallas, TX
- 1985 Environmental Engineering peer review panel, NSF, Washington, DC
- 1985 one of 10 finalists (of 1100 faculty) for University of Louisville, Researcher of the Year
- 1984 chosen by University of Louisville administration as one of five professors cited for outstanding achievement before University Board of Trustees
- 1984-85 Kentucky Environmental Quality Commission, Water Regulations Advisory Subcommittee (1984-85), Hazardous Substances Subcommittee (1985)
- 1977 invited address to Minnesota state legislators on energy and the environment

1972 chosen as representative of University of Florida to international summer course “Man and Environment,” University of Leiden, The Netherlands

Listed in:

- American Men and Women of Science, 1979, 1998-99, 2002
- Outstanding Young Men in America, 1980
- Who's Who in the South and Southwest, 1984,1985
- Who's Who in the Frontiers of Science, 1985
- Who's Who in the Midwest, 1992, 1996-97
- Who's Who in Science and Engineering, 1992, 1996-97, 1998-89
- Dictionary of International Biography, 23rd ed., 1993-94
- Man of Achievement Award, 2002

## **GRADUATE STUDENT ADVISING**

### **Career:**

- 77 Graduate Students advised through completion at four universities (53 Master's and 24 Ph.D. students, all with thesis or dissertation)
- 13 Post-docs completed

### **Florida Gulf Coast University (4 years)**

- currently advising 2 M.S. students and 1 Ph.D. student (USF)
- 4 Master's degree students completed
- 4 post-docs completed

### **The Ohio State University (27 years)**

- 22 Ph.D. students and 33 Master's degree students completed
- 9 post-docs completed

### **University of Louisville (6 years)**

- 2 Ph.D. students and 6 Master's degree students completed

### **Illinois Institute of Technology (4 years)**

- 10 Master's degree students completed

### **Current positions of selected former grad students and post-docs**

(bold indicates current college or university instructor or professor, n = 18)

<b>NAME</b>	<b>DEGREE(S)</b>	<b>CURRENT POSTION</b>
<b>Brian Reeder</b>	<b>Ph.D., Env. Biol., 1990</b>	<b>Professor, Biological and Environmental Sciences, Morehead State University, Morehead, KY</b>
<b>Ben Wu</b>	<b>Post-doc, OSU, 1991-95</b>	<b>Associate Dean of Faculties, Director of the Center for Teaching Excellence, Professor, Department of Ecosystem Science and Management, Texas A&amp;M University, College Station, TX</b>
<b>Siobhan Fennessy</b>	<b>MS, SNR, 1988; Ph.D., ESGP, 1991</b>	<b>Jordan Professor of Biology and Environmental Studies, Department of Biology, Kenyon College, OH</b>
<b>Robert Nairn</b>	<b>Ph.D., ESGP, 1996</b>	<b>Sam K. Viersen Family Foundation Presidential Professor, Department of Civil Engineering and Environmental Science, Oklahoma University, Norman, OK</b>
<b>Paul Weihe</b>	<b>Ph.D., ESGP, 1996</b>	<b>Associate Professor of Biology and Environmental Science,</b>

		<b>Central College, Pella, IA</b>
Renee Wilson	M.S. SNR, 1996	Research Associate, School of Public Health, Johns Hopkins University, Baltimore, MD
<b>Neal Flanagan</b>	<b>MS, SNR, 1992; Ph.D., ESGP, 1997</b>	<b>Visiting Assistant Professor, Nicholas School of the Environment, Duke University, Durham, NC</b>
<b>Doug Spieles</b>	<b>Ph.D., ESGP, 1998</b>	<b>Professor, McPhail Center for Environmental Studies, Denison University, Granville, OH</b>
<b>Sharon A. Johnson (Schapel)</b>	<b>M.S. SNR, 1998</b>	<b>Faculty - Biology - Science &amp; Math Division, Mott Community College, Flint, Michigan</b>
<b>Changwoo Ahn</b>	<b>Ph.D., ESGP, 2001</b>	<b>Professor, Environmental Science and Policy, George Mason University, Arlington, VA</b>
<b>Romi Burks</b>	<b>Post-doc, OSU, 2000-01</b>	<b>Professor of Biology, Southwestern University, Georgetown, TX</b>
<b>Julie Cronk</b>	<b>Ph.D., ESGP, 1992</b>	<b>Assistant Professor, Columbus State Community College, Columbus, OH</b>
<b>Christopher Anderson</b>	<b>Ph.D., SENR, 2005</b>	<b>Associate Professor, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL</b>
Maria Hernandez	Ph.D., ESGP, 2006	Associate Researcher, Instituto de Ecologia, Xalapa, Veracruz, Mexico
<b>Daniel Fink</b>	<b>M.S., ESGP, 2001 Ph.D., ESGP, 2007</b>	<b>Part-Time Assistant Professor in Zoology, Ohio Wesleyan University, Delaware, OH</b>
Amanda Nahlik	M.S., ESGP, 2005 Ph.D., ESGP, 2009	Post-Doctoral Researcher, Wetland Program, USEPA, Corvallis, OR
<b>Jung-Chen Huang</b>	<b>Ph.D., SENR, 2010</b>	<b>Professor, Shanghai Jiao Tong University, China</b>
Keunyea Song	Post-doc, OSU, 2010-11	Research Associate, Kansas Biological Survey, University of Kansas, Lawrence, KS
Li Zhang	Post-doc, OSU, 2000-02	Assistant Director, Everglades Wetland Research Park, Florida Gulf Coast University, Naples, FL
Blanca Bernal	M.S., SENR 2008; Ph.D., SENR, 2012; Post-doc, FGCU 2012-13	Post-doctoral researcher, Smithsonian Environmental Research Center, Edgewater, MD
<b>Chung Tan Nguyen</b>	<b>Post-doc, FGCU, 2012-13</b>	<b>Lecturer, Department of Environmental Biotechnology, The Nong Lam University, Ho Chi Minh City, Vietnam</b>
<b>Jorge Villa</b>	<b>Ph.D., ESGP, 2014</b>	<b>Docente investigador, Facultad de Ingeniería, Corporación Universitaria Lasallista, Colombia</b>
<b>Evan Waletzko</b>	<b>Ph.D. ESGP, 2014</b>	<b>Part-time Instructor, College of Arts &amp; Sciences, The Ohio State University</b>
<b>Kay Stephanik</b>	<b>Ph.D., ESGP, 2012</b>	<b>Part-time Instructor, Colleges of Agriculture and Engineering, The Ohio State University</b>
Darryl Marois	Ph.D. SENR, 2015	Post-doctoral scholar, Pacific Coastal Ecology Branch, Western Ecology Division, US Environmental Protection Agency, Newport, OR

Other Key Current Positions of Graduate Students:

- Conor MacDonnell, M.S., FGCU, 2016— Ph.D. program, University of Florida
- Andrea Pereyra, M.S. FGCU, 2015— Florida Fish and Wildlife Commission, West Palm Beach, FL
- Daniel Marchio, M.S., FGCU, 2014— South Florida Water Management District, West Palm Beach, FL
- Sara McCarthy Nedrich, M.S. SENR, OSU, 2011 — Ph.D. program, University of Michigan
- Rebecca Swab, M.S., SENR, OSU, 2005 — Ph.D., University of California, Riverside; Director of Restoration, The Wilds, Cumberland, Ohio
- Cassandra L. Tuttle, M.S., ESGP, OSU, 2005, Ecologist, ARCADIS U.S., Inc., Princeton, NJ
- Naiming Wang, Ph.D., ESGP, 1996, Post-doc, 1996-99—Lead Hydrologic Modeler, Everglades Program, South Florida Water Management District, West Palm Beach, FL
- Randall Bruins, Ph.D., ESGP, 1997—Research Scientist, U.S. Environmental Protection Agency, Cincinnati, OH
- Karen Wise, M.S., SNR, 1995—Wetland Coordinator, Davy Resources, Inc., Kent, OH

Others graduate students who formally taught at universities and colleges:

- Courtenay Willis, M.S. OSU, 1991— Assistant/Associate Professor of Biology, Youngstown State University
- Virginie Bouchard, post-doc, OSU 1997-99— Assistant/Associate Professor, Ohio State University, 2000-2009
- Chelsea A. Korfel, M.S. OSU, 2007— Instructor, University of Arkansas at Pine Bluff, 2012-16
- Daniel Marchio, M.S., FGCU, 2014— Instructor, 2014-16, Florida Gulf Coast University

**FUNDED RESEARCH GRANTS, CONTRACTS AND OTHER EXTRAMURAL SUPPORT  
(Principal Investigator or Co-principal investigator)**

**Florida Gulf Coast University (2012 – present) \$506,103**

2016-18	<i>Freedom Park Stormwater Wetlands: Towards a Long-Term Monitoring and Management Plan, Collier County, Naples Florida</i> \$54,503 + \$25,600 in kind + \$21,000 matching
2016-18	<i>U.S. Science International Collaborations and Contributions to EcoSummit 2016 "Sustainability: Engineering Change"</i> <b>National Science Foundation</b> \$50,000
2013-16	<i>Everglades Wetland Research Park Development</i> —multiple donors \$121,000
2013-15	<i>Assessing nutrient removal efficacy of wetland plants in the Florida Everglades, Completion phase, South Florida Water Management District,</i> \$13,600
2012-16	Short courses taught at the Kapnick, 10 courses, estimated income \$55,700
2012-13	<i>Assessing nutrient removal efficacy of wetland plants in the Florida Everglades, South Florida Water Management District</i> \$99,000
2012-15	<i>Collaborative Research: Greenhouse gas balance of urban temperate wetlands,</i>

	<b>National Science Foundation</b> (subcontract) \$66,000
2012-13	<i>Geotextiles for use in drainage systems in CCP landfills</i> , <b>GSE Lining Technology and American Electric Power</b> (subcontract; with L. Zhang) \$20,800

**The Ohio State University (1986-2012) > \$11,000,000**

2011-12	<i>Stable Isotope Analysis of Effluents: Supporting the STA-1W Mesocosm Phosphorus Study</i> <b>South Florida Water Management District</b> \$50,000
2010-12	<i>Greenhouse gas balance of urban temperate wetlands</i> , <b>National Science Foundation</b> (co-PI with Gil Bohrer, OSU and Rutgers University) \$229,000
2010-12	<i>Assessing nutrient removal efficacy of wetland plants in the Florida Everglades</i> , <b>South Florida Water Management District</b> \$230,000
2009-12	<i>Geotextiles for use in drainage systems in CCP landfills</i> , <b>GSE Lining Technology and American Electric Power</b> (co-PI with Bill Wolfe) \$140,000
2008-11	<i>Using wetlands for nutrient reduction in the Mississippi Basin: Potential for minimizing greenhouse gases</i> , <b>U.S. Environmental Protection Agency</b> (with Louisiana State University) total project: \$317,505
2008-12	<i>Toward integration of industrial ecology and ecological engineering</i> <b>National Science Foundation</b> (co-PI with Bhavik Bakshi) \$300,000
2006-09	<i>Lower Olentangy River Ecosystem Restoration Project</i> <b>City of Columbus</b> , \$166,000
2006-07	<i>Fulbright Senior Specialist</i> , <b>Fulbright Foundation</b> , \$10,000
2006-09	<i>Olentangy River Wetland Research Park: Research, Teaching, and Outreach</i> <b>U.S. Environmental Protection Agency</b> , \$480,000
2005	<i>Iraq Mesopotamian Marshland Modelling and Design</i> , <b>United Nations Environmental Programme and Copenhagen University</b> \$26,000
2005	<i>Designing a Regeneration Zone for the Cuyahoga River Valley: Ecological Restoration</i> <b>Rocky Mountain Institute</b> \$12,000
2004-07	<i>Wetland Management for Water Quality Improvement in Costa Rica</i> , <b>U.S. Department of Energy</b> (co-PI of \$700,000 grant)
2003-06	<i>Importance of Hydrologic Pulsing on the Water Quality Function of Wetlands in Midwestern USA</i> , <b>USDA, Cooperative State Research and Extension Service</b> \$272,000
2003-04	<i>Developing a Comprehensive Demonstration Program for Restoration of Wetlands and Water Quality in the Mississippi River Basin and Louisiana Delta</i> , <b>U.S. Army Corps of Engineers and State of Louisiana</b> \$169,000
2002-04	<i>Effects of Hydrologic Pulses on the Effectiveness of Wetlands to Control Agricultural Runoff of Nitrogen—Biogeochemical and Economic Modelling</i> , <b>Payne Agricultural Ecosystems Research Project, OARDC</b> \$145,223
2000-02	<i>Pre-restoration studies of the Upper Big Darby Watershed, Stream Quality Monitoring and Wetland Restoration Design</i> . <b>The Nature Conservancy and U.S. Army Corps of Engineers</b> \$83,000
2000-06	<i>Restoration of a Bottomland Hardwood Forest</i> , <b>Ohio Department of Transportation</b> , \$75,000
2000-04	<i>Use of FGD Material for Ponds and Wetlands</i> , <b>Ohio Office of Development</b> \$890,000 (co-PI with Bill Wolfe)



1999-2004	<i>Ohio Center for Wetland and River Restoration, Hayes Investment Fund, Ohio Board of Regents</i> \$1,180,000
1998-2001	<i>Indian Lake Wetland Demonstration Project, Indian Lake Conservancy, Logan, County, OH</i> \$28,000
1998-99	<i>SCOPE Workshop on Ecological Engineering, Paris, France. National Science Foundation</i> \$12,300
1998-99	<i>Evaluation of methods to reduce nutrient loads to surface water, ground water, and the Gulf of Mexico. U.S. Environmental Protection Agency</i> \$94,187
1997-2002	<i>Five-year monitoring of a mitigation wetland at the Olentangy River Wetland Research Park Mid-American Waste Systems/Pine Grove Landfill</i> \$54,242
1999-2000	<i>Developing wetland rapid assessment protocols using the hydrogeomorphic approach Ohio Environmental Protection Agency</i> \$20,000
1996-99	<i>Re-use of clean coal technology by-products in the construction of impervious liners. Ohio Department of Development</i> \$387,669 (co-PI with Bill Wolfe and Earl Witlatch)
1995-2000	<i>Monitoring of a constructed wastewater wetland in southwest Licking County, Ohio SW Licking County Water and Sewer District</i> \$175,000.
1995-99	(co-PI with Andrew Ward) <i>Food and Agricultural Sciences National Needs Graduate Fellowship Programs—Water Science. U.S. Department of Agriculture</i> \$108,000
1995-96	<i>Ecological Engineering and Ecosystem Restoration Training, Phase I United Nations Environmental Program, International Environmental Technology Centre, Osaka, Japan</i> \$98,000.
1994-98	<i>Enhancing the roles of Great Lakes coastal wetlands for water quality improvement and wildlife protection Great Lakes Protection Fund,</i> \$175,000.
1991-pres	<i>The Olentangy River Wetland Research Park, Mid-American Waste Systems Inc., Ohio Board of Regents, and a multitude of other private sources,</i> >\$5,000,000
1993-95	<i>Investigating a Center for Wetland Ecotechnology, Vice-President for Research, The Ohio State University,</i> \$87,000.
1990-94	<i>Wetlands for Control of Acid Mine Drainage, Ohio Department of Natural Resources,</i> \$60,000.
1989-93	<i>Research at the Des Plaines River Demonstration Project Wetland Research, Inc.,</i> \$225,000.
1991-92	<i>INTECOL International Wetlands Conference,</i> \$200,000.
1986-91	<i>The Ohio River Basin Consortium ORBCRE,</i> \$60,000.
1989-90	<i>Wetlands for the Control of Non-point Source Pollution Ohio EPA,</i> \$25,000.
1988-90	<i>Ecological Engineering in the United States and China National Science Foundation,</i> \$15,000.
1988-89	<i>Productivity and economics of coastal wetlands of Lake Erie Ohio Department of Natural Resource and Ohio Sea Grant,</i> \$8,000.
1988	<i>Paleoecology of wetland sediments Ohio Sea Grant,</i> \$2,200.
1986-90	<i>Wetlands and coal mine reclamation Ohio State University Seed Grant and OARDC State Project,</i> \$21,000.
1986-87	<i>School on Water - the Ohio River as an environmental classroom Virginia</i>

	<b>Environmental Endowment, \$25,000.</b>
1986-87	<i>Wetland Research and Teaching in Denmark Fulbright Commission, \$10,000.</i>

**University of Louisville (1979-1985)**

- 1984-85 *Linkages for EPA/FWS surface and ground and air computer models, U.S. EPA and U.S. Department of Interior, \$10,000.*
- 1984-85 *Development of a Consortium for the Ohio River Basin, Virginia Environmental Endowment, \$45,000.*
- 1981-84 *Wetland identification and management criteria for the Kentucky western coal field, U.S. Fish & Wildlife Service, Office of Surface Mining and Kentucky Water Resources Research Institute, \$58,000.*
- 1982-84 *Phosphorus budgets for wetlands, Graduate School Research Grant and National Wildlife Federation Fellowships, \$6,000.*
- 1983 *AAAS Environmental Science and Engineering Fellowship, AAAS and Environmental Protection Agency, \$6,000.*
- 1981-83 *Water quality impact of oil shale mining and processing in Kentucky, Graduate School Research Grant and Kentucky Department for Natural Resources and Environmental Protection, \$9,500.*

**Illinois Institute of Technology (1975-1979)**

- 1979 *Studies of the Mokense Wetlands on the Kankakee River. Illinois Institute of Natural Resources and Illinois Water Resources Center, \$12,000.*
- 1979-80 *Ecological management of intermittent streams Illinois Environmental Protection Agency and Illinois Institute of Natural Resources, \$21,000.*
- 1977-78 *Environmental assessment of the Village of Downers Grove, Village of Downers Grove, Illinois, \$5,000.*
- 1977 *Field studies of the Fox Chain of Lakes, Illinois Institute of Environmental Quality, \$4,000.*
- 1976-78 *Surface water quality impact of coal development, Argonne National Laboratory, \$27,000.*
- 1976-77 *Forested wetlands for water resource management in southern Illinois, Illinois Water Resources Center, \$13,000.*

**PUBLICATIONS**

Google Scholar, December 27, 2016: 15,236 citations (7,251 since 2011); h-index: 66; i10-index: 192

Books, authored/co-authored	11
Books, edited	9
Peer-reviewed publications	189
Book chapters, proceedings, editorials, blogs	91
Journal special issues, edited	27
Encyclopedia entries	4
Book reviews	21
Published abstracts	254
Technical reports	80
<b>TOTAL PUBLICATIONS</b>	<b>686</b>

## Books

20. Mitsch, W.J. and J.G. Gosselink. 2015. *Wetlands*, 5<sup>th</sup> ed. John Wiley & Sons, Inc., Hoboken, NJ. 744 pp.
19. Mitsch, W.J., J.K. Cronk, and L. Zhang (eds.). 2014. *The Olentangy River Wetland Research Park: Two Decades of Research on Ecosystem Services*. Elsevier, Amsterdam, 142 pp.
18. Mitsch, W.J., A. Stokes, and C.G. Jones (eds.) 2012. *Ecological Engineering: Its Development, Applications, and Challenges*. Elsevier, Amsterdam, 85 pp.
17. Doering, O.C., J.N. Galloway, T.L. Theis, V. Aneja, E. Boyer, K.G. Cassman, E.B. Cowling, R.R. Dickerson, W. Herz, D.L. Hey, R. Kohn, J.S. Lighy, W. Mitsch, W. Moomaw, A. Mosier, H. Paerl, B. Shaw, and P. Stacey. 2011. *Reactive Nitrogen in the United States: An Analysis of Inputs, Flows, Consequences, and Management Options*. U.S. Environmental Protection Agency, Science Advisory Board, Integrated Nitrogen Committee, EPA-SAB-11-013, Washington, DC, 139 pp.
16. Mitsch, W.J., J.G. Gosselink, C.J. Anderson, and L. Zhang. 2009. *Wetland Ecosystems*. John Wiley & Sons, Inc., Hoboken, NJ, 295 pp.
15. Mitsch, W.J. and J.G. Gosselink. 2007. *Wetlands*, 4<sup>th</sup> ed. John Wiley & Sons, Inc., Hoboken NJ, 582 pp.
14. Mitsch, W.J. (ed.). 2006. *Wetland Creation, Restoration, and Conservation: The State of the Science*. Elsevier, Amsterdam, 175 pp.
13. Mitsch, W.J. and S.E. Jørgensen. 2004. *Ecological Engineering and Ecosystem Restoration*. John Wiley & Sons, Inc., New York. 411 pp.
12. Wilcox, P.R., G.M. Ashley, D.L. Breitburg, V.R. Burkett, J.J. Cordes, R.G. Dean, J.A. Dracup, W.J. Mitsch, R.E. Randall, and A.D. Tarlock. 2004. *River Basins and Coastal Systems Planning Within the U.S. Army Corps of Engineers*. National Academy Press, Washington, DC. 167 pp.
11. with several authors. 2001. *Compensating for Wetland Losses under the Clean Water Act*. National Academy Press, Washington, DC. 158 pp. + appen.
10. Mitsch, W.J. and J.G. Gosselink. 2000. *Wetlands*, 3<sup>rd</sup> ed. John Wiley & Sons, New York. 920 pp.
9. with several authors. 1995. *Wetlands: Characteristics and Boundaries*. National Academy Press, Washington, DC.
8. Mitsch, W.J. (ed.). 1994. *Global Wetlands: Old World and New*. Amsterdam: Elsevier Scientific Publishing Co. 967+ xxiv pp.
7. Mitsch, W.J. and J.G. Gosselink. 1993. *Wetlands*, 2<sup>nd</sup> ed. John Wiley & Sons (formerly Van Nostrand Reinhold), New York. 722 pp.
6. Mitsch, W.J. and S.E. Jørgensen (eds.) 1989. *Ecological Engineering: An Introduction to Ecotechnology*. John Wiley & Sons, New York. 472 pp.
5. Mitsch, W.J., M. Straskraba and S.E. Jørgensen (eds.). 1988. *Wetland Modelling*. Elsevier Scientific Publishing Co., Amsterdam. 227 pp.
4. Mitsch, W.J. and J.G. Gosselink. 1986. *Wetlands*. Van Nostrand Reinhold, New York. 539 pp.
3. Jørgensen, S.E. and W.J. Mitsch (eds.). 1983. *Application of Ecological Modelling in Environmental Management*, Part B. Elsevier Scientific Publishing Co., Amsterdam. 439 pp.
2. Mitsch, W.J., R.K. Ragade, R.W. Bosserman and J.A. Dillon, Jr. (eds.). 1982. *Energetics and Systems*. Ann Arbor Press, Ann Arbor, MI. 132 pp.
1. Mitsch, W.J., R.W. Bosserman and J.M. Klopatek (eds.). 1981. *Energy and Ecological Modelling*. Elsevier Scientific Publishing Co., Amsterdam. 839 pp.

## Papers In Preparation/Review

- Cabezas, A., C. MacDonnell, A. Lasso, F. Bidalek, and W.J. Mitsch. in prep. Methane emission from mangroves in SW Florida.
- Day, J.W., Carles Ibanez, William J. Mitsch, and Dave Burdick. in prep. Salt Marsh Restoration. In: Salt Marshes, Duncan M. FitzGerald & Zoe Hughes, eds., Cambridge University Press, Cambridge, UK.
- Hsu, T.-T., D., W. J. Mitsch, J. F. Martin and J. Lee. in review Dec 2016. Towards sustainable protection of public health: The role of urban wetlands as a frontline safeguard of pathogen and antibiotic resistance spread. *Ecological Engineering*
- MacDonnell, C.P, L. Zhang, L. Griffiths, and W.J. Mitsch. in review. Nutrient concentrations in mangrove tidal creeks as indicators of the water quality in Southwest Florida. *Ecological Indicators*
- Mander Ü., J. Tournebize, and W. J. Mitsch. in review. Constructed wetlands and water quality improvement: The case of denitrification. Chapter 3 In Ecosystem Services and Constructed Wetlands, Editors: Max Finlayson, Rob McInnes and Sally Mackenzie, Springer.
- Marois D.E. and W. J. Mitsch. in review. A mangrove creek rehabilitation plan utilizing hydraulic modeling. *Ecological Engineering*
- Mitsch, W.J., D.E. Marois, L. Zhang, and K. Song. in prep. The Florida Everglades and 10 parts per billion of phosphorus. Why not? *Ecological Engineering*
- Morin T.H., K.C. Stefanik, G. Bohrer, A.C Rey-Sanchez, and W.J. Mitsch. in revision. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban floodplain wetland park. *Agricultural and Forest Meteorology*
- Pärn J., J.T.A. Verhoeven, K. Butterbach-Bahl, N.B. Dise, S. Ullah, A. Aasa, S. Egorov, M. Espenberg, J. Järveoja, K. Kasak, A. Kull, F. Laggoun-Défarge, E. Lapshina, M. Maddison, W.J. Mitsch, T. Pae, J.-O. Salm, F. Sgouridis, K. Sohar, K. Soosaar, K. Storey, A. Teemusk, M.M. Tenywa, G. Veber<sup>1</sup> J.A. Villa, S.S. Zaw, J. Tournebize, J. Truu, M. Truu, Ü. Mander. in revision. Drainage escalates nitrous oxide emission from global peatlands. *Nature Climate Change*
- Pereyra, A. and W.J. Mitsch. in review. Methane emissions from freshwater cypress (*Taxodium distichum*) swamp soils with natural and impacted hydroperiods in Southwest Florida. *Ecological Engineering*
- Song, K., S. Miao, and W. J. Mitsch. in prep. Dynamics of phosphorus in different vegetated subtropical wetland ecosystems: How to select vegetation types in treatment wetlands. *Aquatic Botany*
- Stefanik, K. and W.J. Mitsch. in revision. Vegetation productivity of planted and unplanted riverine wetlands  $\geq 15$  years after creation. *Wetlands*
- Stefanik, K., G. Bohrer, and W. J. Mitsch Seasonal and diurnal relationships between methane and carbon dioxide flux from *Typha* spp. dominated wetlands.
- Waletzko, E.J. and W.J. Mitsch. in prep. Determining the source of organic carbon export from created wetlands in Midwestern USA using C<sup>13</sup> stable isotopes.

## Peer-Reviewed Articles

189. Mander, Ü., J. Tournebize, K. Tonderski, J.T.A. Verhoeven, and W. J. Mitsch. 2017. Principles of planning and establishment principles for constructed wetlands and riparian buffer zones in agricultural catchments. *Ecological Engineering*
188. Land, M., W. Granéli, A. Grimvall, C. C. Hoffmann, W. J. Mitsch, K. S. Tonderski, and J. T.A. Verhoeven. 2016. How effective are created or restored freshwater wetlands for nitrogen and

- phosphorus removal? A systematic review. *Environmental Evidence* 5,9 DOI 10.1186/s13750-016-0060-0
187. Marchio, D.A., Jr., M. Savarese, B. Bovard, and W. J. Mitsch. 2016. Carbon sequestration and sedimentation in mangrove swamps influenced by hydrogeomorphic conditions and urbanization in Southwest Florida. *Forests* 7, 116; doi:10.3390/f7060116
  186. Saraswati, S., C. Dunn, W. J. Mitsch and C. Freeman. 2016. Is peat accumulation in mangrove swamps influenced by the “enzymic latch” mechanism? *Wetland Ecology and Management* DOI 10.1007/s11273-016-9493-z
  185. Mitsch, W.J. 2016. Restoring the Greater Florida Everglades, once and for all. *Ecological Engineering* 93: A1-A3.
  184. Bernal, B., C. Anderson and W.J. Mitsch. 2016. Nitrogen dynamics in two created riparian wetlands over space and time. *Journal of Hydrologic Engineering* D5016002 DOI: 10.1061/(ASCE)HE.1943-5584.0001397
  183. Li, X. and W.J. Mitsch. 2016. Methane emissions from created and restored freshwater and brackish marshes in Southwest Florida, USA. *Ecological Engineering* 91: 529-536.
  182. Mitsch, W.J. 2016. Wetlands and Climate Change. *National Wetlands Newsletter* 38 (1): 5-11.
  181. Marois, D.E. and W.J. Mitsch. 2015. Modeling phosphorus retention at low concentrations in Florida Everglades mesocosms. *Ecological Modelling* 319:42-62.
  180. Marois, D. E. W.J., Mitsch, K. Song, S. Miao, L. Zhang, and C. Nguyen. 2015. Estimating the importance of aquatic primary productivity for phosphorus retention in Florida Everglades mesocosms. *Wetlands* 35: 357-368.
  179. Mitsch, W.J., B. Bernal, and M. E. Hernandez. 2015. Ecosystem services of wetlands. *International Journal for Biodiversity Science, Ecosystems Services and Management* 11: 1-4.
  178. Rea, C.L., M. S. Bisesi, W. J. Mitsch, R. Andridge, and J. Lee. 2015. Human health-related ecosystem services of avian-dense coastal wetlands adjacent to a Western Lake Erie swimming beach. *EcoHealth* 12: 77-87.
  177. Marois, D. and W.J. Mitsch. 2015. Coastal protection from tsunamis and cyclones provided by mangrove wetlands--a review. *International Journal for Biodiversity Science, Ecosystems Services and Management* 11: 71-83.
  176. Villa, J.A. and Mitsch, W.J. 2015. Carbon sequestration in different wetland plant communities in Southwest Florida. *International Journal for Biodiversity Science, Ecosystems Services and Management* 11: 17-28.
  175. Mitsch, W.J., L. Zhang, D. Marois, and K. Song. 2015. Protecting the Florida Everglades wetlands with wetlands: Can stormwater phosphorus be reduced to oligotrophic conditions? *Ecological Engineering* 80: 8-19.
  174. Ligi, T., M. Truu, J. Truu, K. Oopkaup, H. Nõlvak, Ü. Mander, W.J. Mitsch, and J. Truu. 2015. The genetic potential of N<sub>2</sub> emission via denitrification and ANAMMOX from the soils and sediments of a created riverine treatment wetland complex. *Ecological Engineering* 80: 181-190.
  173. Mitsch, W.J., J.K. Cronk, and L. Zhang. 2014. Creating a living laboratory on a college campus for wetland research—The Olentangy River Wetland Research Park, 1991 to 2012. *Ecological Engineering* 72: 1-10.
  172. Mitsch, W.J. 2014. Unifying a city with its natural riverine environment for the benefit of both: Extending Ohio's only Ramsar Wetland to a much larger river ecosystem corridor. *Ecological Engineering* 72: 138-142.

171. Mitsch, W.J., L. Zhang, E. Waletzko, and B. Bernal. 2014. Validation of the ecosystem services of created wetlands: Two decades of plant succession, nutrient retention, and carbon sequestration in experimental riverine marshes. *Ecological Engineering* 72: 11-24.
170. Mitsch, W.J., S. M. Nedrich, S. Harter, C. Anderson, A.M. Nahlik, and B. Bernal. 2014. Sedimentation in created freshwater riverine wetlands: A comparison of methods over 15 years in created flow-through wetlands. *Ecological Engineering* 72: 25-34.
169. Roy Chowdhury, T. W.J. Mitsch, and R. Dick. 2014. Seasonal methanotrophy across a hydrological gradient in a freshwater wetland. *Ecological Engineering* 72: 116-124.
168. Villa, J.A. and W.J. Mitsch. 2014. Methane emissions from five wetland plant communities with different hydroperiods in the Big Cypress Swamp region of Florida Everglades. *Ecohydrology & Hydrobiology* 14: 253-266.
167. Villa, J., W.J. Mitsch, K. Song, and S. Miao. 2014. Contribution of different wetland plant species to the DOC exported from a mesocosm experiment in the Florida Everglades. *Ecological Engineering* 71: 118-125.
166. Zhang, Y., L. Zhang, and W.J. Mitsch. 2014. Predicting river aquatic productivity and dissolved oxygen before and after dam removal. *Ecological Engineering* 72: 125-137.
165. Morin, T.H., G. Bohrer, L. Naor-Azrieli, S. Mesi, W.J. Mitsch, K.V.R. Schafer. 2014. The seasonal and diurnal dynamics of methane flux at a created urban wetland. *Ecological Engineering* 72: 74-83.
164. Mander, Ü, G. Dotro, Y. Ebie, S. Towprayoon, C. Chiemchaisri, S. F Nogueira, B. Jamsranjav, K. Kasak, J. Truu, J. Tournebize, and W. J Mitsch. 2014. Greenhouse gas emission in constructed wetlands for wastewater treatment: a review. *Ecological Engineering* 66: 19-35.
163. Stefanik, K., and W.J. Mitsch. 2014. Metabolism and methane flux of dominant macrophyte communities in created riverine wetlands using open system flow through chambers. *Ecological Engineering* 72: 67-73.
162. Mitsch, W.J. 2014. When will ecologists learn engineering and engineers learn ecology? *Ecological Engineering* 65: 9-14.
161. Waletzko, E. and W.J. Mitsch. 2014. Methane emissions from wetlands: An in situ side-by-side comparison of two static accumulation chamber designs. *Ecological Engineering* 72: 95-102.
160. Ligi, T., K. Oopkaup, M. Truu, J.-K. Preem, H. Nõlvak, W.J. Mitsch, Ü. Mander, and J Truu. 2014. Characterization of bacterial communities in soil and sediment of a created riverine wetland complex using high-throughput 16S rRNA amplicon sequencing. *Ecological Engineering* 72: 56-66.
159. Ligi, T., M. Truu, J. Truu, H. Nõlvak, A. Kaasik, W. J Mitsch, and Ü. Mander. 2014. Effects of soil chemical characteristics and water regime on denitrification genes (*nirS*, *nirK*, and *nosZ*) abundances in a created riverine wetland complex. *Ecological Engineering* 72: 47-55.
158. Song, K., M. E. Hernandez, J.A. Batson, and W.J. Mitsch. 2014. Long-term denitrification rates in created riverine wetlands and their relationship with environmental factors. *Ecological Engineering* 72: 40-46.
157. Mander, Ü., J. Tournebize, K. Kasak, and W. J. Mitsch. 2014. Climate regulation by free water surface constructed wetlands for wastewater treatment and created riverine wetlands. *Ecological Engineering* 72: 103-115.
156. Land, M., W. Granéli, A. Grimvall, C. C. Hoffmann, W.J. Mitsch, K. Tonderski, and J.T.A. Verhoeven. 2013. How effective are created or restored freshwater wetlands for nitrogen and phosphorus removal? A systematic review protocol. *Environmental Evidence* 2:16 doi: 10.1186/2047-2382-2-16

155. Waletzko, E. and W.J. Mitsch. 2013. The carbon balance of two riverine wetlands fifteen years after their creation. *Wetlands* 33: 989–999.
154. Bernal, B. and W.J. Mitsch. 2013. Carbon sequestration in two created riverine wetlands in the Midwestern United States. *Journal of Environmental Quality* 42: 1236-1244.
153. Bernal, B. and W.J. Mitsch. 2013. Carbon sequestration in freshwater wetlands of Costa Rica and Botswana. *Biogeochemistry* 115: 77–93.
152. Mitsch, W.J., B. Bernal, A.M. Nahlik, U. Mander, L. Zhang, C.J. Anderson, S.E. Jørgensen, and H. Brix. 2013. Wetlands, carbon, and climate change. *Landscape Ecology* 28: 583-597.
151. Junk, W.J., S. An, H. C. M. Finlayson, B. Gopal, J. Kvet, S. A. Mitchell, W. J. Mitsch and R.D. Robarts. 2013. Current state of knowledge regarding the world’s wetlands and their future under global climate change: A synthesis. *Aquatic Sciences* 75:151–167.
150. Mitsch, W.J and M. Hernandez. 2013. Landscape and climate change threats to wetlands of North and Central America. *Aquatic Sciences* 75: 133-149.
149. Mitsch, W.J. 2013. Wetland Creation and Restoration. Encyclopedia of Biodiversity, 2nd ed. S. Levin, ed. Elsevier, Amsterdam, pp. 367-383.
148. Yadav, P. W. A. Foster, W. J. Mitsch, and P. S. Grewal. 2012. Factors affecting mosquito populations in created wetlands in urban landscapes. *Urban Ecosystems* 15: 499-511.
147. Batson, J., Ü. Mander, and W.J. Mitsch. 2012. Denitrification and a nitrogen budget of created riparian wetlands. *Journal of Environmental Quality* 41: 2024-2032.
146. Stokes, A., S. Barot, J.-C. Lata, G. Lacroix, C.G. Jones and W.J. Mitsch. 2012. Ecological engineering: From concepts to applications. *Ecological Engineering* 45: 1-4.
145. Mitsch, W.J. 2012. What is ecological engineering? *Ecological Engineering* 45: 5-12.
144. Hey, D.L., J.A. Kostel, W.G. Crumpton, W.J. Mitsch, and B. Scott. 2012. The roles and benefits of wetlands in managing reactive nitrogen. *J. Soil and Water Conservation* 67(2): 47A-53A.
143. Mitsch, W.J, L. Zhang, K. C. Stefanik, A. M. Nahlik, C. J. Anderson, B. Bernal, M. Hernandez, and K. Song. 2012. Creating wetlands: Primary succession, water quality changes, and self-design over 15 years. *BioScience* 62: 237-250.
142. Bernal, B. and W.J. Mitsch. 2012. Comparing carbon sequestration in temperate freshwater wetland communities. *Global Change Biology* 18: 1636-1647.
141. Stefanik, K, and W.J. Mitsch. 2012. Structural and functional vegetation development in created and restored wetland mitigation banks of different ages. *Ecological Engineering* 39: 104-112.
140. Song, K, H. Kang, L, Zhang, and W.J. Mitsch. 2012. Seasonal and spatial variations of denitrification and denitrifying community structure in created wetlands. *Ecological Engineering* 38: 130-134.
139. Brüll, A., H. van Bohemen, R. Costanza, and W.J. Mitsch. 2011. Benefits of ecological engineering practices. *Procedia Environmental Sciences* 9: 16-20.
138. Huang, J.-C., W.J. Mitsch and D.L. Johnson. 2011. Estimating biogeochemical and biotic interactions between a stream channel and a riparian wetland: A medium-scale physical model. *Ecological Engineering* 37: 1035-1049.
137. Sha, C., W. J. Mitsch, Ü. Mander, J. Lu, J. Batson, L. Zhang and W. He. 2011. Methane emissions from freshwater riverine wetlands. *Ecological Engineering* 37: 16-24.
136. Nahlik, A.M. and W.J. Mitsch. 2011. Methane emissions from tropical freshwater wetlands located in different climatic zones of Costa Rica. *Global Change Biology* 17: 1321-1334.
135. Urban, R. A., A. Baral, G. F. Grubb, B. R. Bakshi, and W. J. Mitsch. 2010. Towards the sustainability of engineered processes: Designing self-reliant networks of technological-ecological systems. *Computers and Chemical Engineering* 34: 1413-1420.

134. Mitsch, W.J. 2010. The 2010 Gulf of Mexico oil spill: What would Mother Nature do? *Ecological Engineering* 36: 1607-1610.
133. Song, K., S.H. Lee, W.J. Mitsch, and H. Kang. 2010. Different responses of denitrification rates and denitrifying bacterial communities to hydrologic pulsing in created wetlands. *Soil Biology & Biochemistry* 42: 1721-1727.
132. Huang, J.-C., W.J. Mitsch and A. Ward. 2010. Design of experimental streams for simulating headwater stream restoration *J. American Water Resources Association* 46: 957-971.
131. Nahlik, A.M. and W.J. Mitsch. 2010. Methane emissions from created riverine wetlands. *Wetlands* 30: 783-793. with erratum published in *Wetlands* 31: 449-450 (2011).
130. Mitsch, W.J. 2010. Conservation, restoration, and creation of wetlands: A global perspective. In: F.A. Comin, ed. *Ecological Restoration: A Global Challenge*. Cambridge University Press, Cambridge, UK, pp. 175-188.
129. Korfel, C.A., W.J. Mitsch, T.E. Hetherington, and J.J. Mack. 2010. Hydrology, physiochemistry, and amphibians in natural and created vernal pool wetlands. *Restoration Ecology* 18: 843-854.
128. Mitsch, W.J., A.M. Nahlik, P. Wolski, B. Bernal, L. Zhang, and L. Ramberg. 2010. Tropical wetlands: Seasonal hydrologic pulsing, carbon sequestration, and methane emissions. *Wetlands Ecology and Management* 18: 573-586.
127. Gardner, R.C. J, Zedler, A. Redmond, R. E, Turner, C. A. Johnston, V. A. Alvarez' C. A. Simenstad K.L. Prestegaard and W. J. Mitsch. 2009. Compensating for wetland losses under the Clean Water Act: Evaluating the Federal compensatory mitigation regulation. *Stetson Law Review* 38: 213-249.
126. Day, J.W., Jr., C.A.S. Hall, A. Yáñez-Arancibia, D. Pimentel, C. Ibañez Marti, and W. J. Mitsch. 2009. Ecology in times of scarcity. *BioScience* 59: 321-331.
125. Huang, J.-C., W.J. Mitsch, and L. Zhang. 2009. Ecological restoration design of a stream on a college campus in central Ohio. *Ecological Engineering* 35: 329-340.
124. Gamble, D.L. and W.J. Mitsch. 2009. Hydroperiods of constructed and natural vernal pools in central Ohio: A comparison of depth and duration of inundation. *Wetlands Ecology and Management* 17: 385-395.
123. Mitsch, W.J., L. Zhang, D.F. Fink, M.E. Hernandez, A.E. Altor, C.L. Tuttle and A.M. Nahlik. 2008. Ecological engineering of floodplains. *Ecohydrology & Hydrobiology* 8: 139-147.
122. Mitsch, W.J., J. Lu, X. Yuan, W. He, and L. Zhang. 2008. Optimizing ecosystem services in China. *Science* 322: 528.
121. Bernal, B. and W.J. Mitsch. 2008. A comparison of soil carbon pools and profiles in wetlands in Costa Rica and Ohio. *Ecological Engineering* 34: 311-323.
120. Mitsch, W.J., J. Tejada, A.M. Nahlik, B. Kohlmann, B. Bernal, and C.E. Hernández. 2008. Tropical wetlands for climate change research, water quality management and conservation education on a university campus in Costa Rica. *Ecological Engineering* 34: 276-288.
119. Kohlmann, B., W.J. Mitsch, and D.O. Hansen. 2008. Ecological management and sustainable development in the humid tropics of Costa Rica. *Ecological Engineering* 34: 254-266.
118. Anderson, C.J. and W.J. Mitsch. 2008. The influence of flood connectivity on bottomland forest productivity in central Ohio, USA. *Ohio J. Science* 108 (2): 2-8.
117. Anderson, C.J. and W.J. Mitsch. 2008. Tree basal growth response to flooding in a bottomland hardwood forest in central Ohio. *J. American Water Resources Association* 44:1512-1520.
116. Altor, A.E. and W.J. Mitsch. 2008. Pulsing hydrology, methane emissions, and carbon dioxide fluxes in created marshes: A 2-year ecosystem study. *Wetlands* 28: 423-438.



115. Altor, A.E. and W.J. Mitsch. 2008. Methane emissions and carbon dioxide fluxes in created wetland mesocosms: Effects of hydrologic regime and hydric soils. *Ecological Applications* 18: 1307-1320.
114. Dale, V.H., Biddinger, G.R., Newman, M.C., Oris, J.T., Suter, G.W., Thompson, T., Armitage, T.M., Meyer, J.L., Allen-King, R.M., Burton, G.A., Chapman, P.M., Conquest, L.L., Fernandez, I.J., Landis, W.G., Master, L.L., Mitsch, W.J., Mueller, T.C., Charles F. Rabeni, C.F., Rodewald, A.D., Sanders, J.G., and van Heerden, I.L. 2008. Enhancing the ecological risk assessment process. *Integrated Environmental Assessment and Management* 4: 306-313.
113. Nahlik, A.M. and W.J. Mitsch. 2008. The effect of river pulsing on sedimentation and nutrients in created riparian wetlands. *Journal of Environmental Quality* 37:1634-1643.
112. Tuttle, C.L., L. Zhang, and W.J. Mitsch. 2008. Aquatic metabolism as an indicator of the ecological effects of hydrologic pulsing in flow-through wetlands. *Ecological Indicators* 8: 795-806.
111. Swab, R.M., L. Zhang, and W.J. Mitsch. 2008. Effect of hydrologic restoration and *Lonicera maackii* removal on herbaceous understory vegetation in a bottomland hardwood forest. *Restoration Ecology* 16: 453-463.
110. Zhang, L. and W.J. Mitsch. 2007. Sediment chemistry and nutrient influx in a hydrologically restored bottomland hardwood forest in Midwestern USA. *River Research and Applications* 23: 1026-1037.
109. Day J.W., Jr., D. F. Boesch, E. J. Clairain, G. P. Kemp, S. B. Laska, W. J. Mitsch, K. Orth, H. Mashriqui, D. R. Reed, L. Shabman, C. A. Simenstad, B. J. Streever, R. R. Twilley, C. C. Watson, J. T. Wells, and D. F. Whigham. 2007. Restoration of the Mississippi Delta: Lessons From Hurricanes Katrina and Rita. *Science* 315: 1679-1684.
108. Fink, D.F. and W.J. Mitsch. 2007. Hydrology and biogeochemistry in a created river diversion oxbow wetland. *Ecological Engineering* 30: 93-102.
107. Hernandez, M.E. and W.J. Mitsch. 2007. Denitrification in created riverine wetlands: Influence of hydrology and season. *Ecological Engineering* 30: 78-88.
106. Hernandez, M.E. and W.J. Mitsch. 2007. Denitrification potential and organic matter as affected by vegetation community, wetland age, and plant introduction in created wetlands. *J. Environ. Qual.* 36: 333-342.
105. Costanza, R., W.J. Mitsch, and J.W. Day. 2006. A new vision for New Orleans and the Mississippi delta: applying ecological economics and ecological engineering. *Frontiers in Ecology and the Environment* 4: 465 - 472.
104. Nahlik, A. and W.J. Mitsch. 2006. Tropical treatment wetlands dominated by free-floating macrophytes for water quality improvement in Costa Rica. *Ecological Engineering* 28: 246-257.
103. Altor, A. E. and W.J. Mitsch. 2006. Methane flux from created wetlands: Relationship to intermittent versus continuous inundation and emergent macrophytes. *Ecological Engineering* 28: 224-234.
102. Hernandez, M.E. and W.J. Mitsch. 2006. Influence of hydrologic pulses, flooding frequency, and vegetation on nitrous oxide emissions from created riparian marshes. *Wetlands* 26: 862-877.
101. Anderson, C.J. and W.J. Mitsch. 2006. Sediment, carbon, and nutrient accumulation at two 10-year-old created riverine marshes. *Wetlands* 26: 779-792.
100. Costanza, R., W.J. Mitsch, and J.W. Day. 2006. Creating a sustainable and desirable New Orleans. *Ecological Engineering* 26: 317-320.
99. Mitsch, W.J. and J.W. Day, Jr. 2006. Restoration of wetlands in the Mississippi-Ohio-Missouri (MOM) River Basin: Experience and needed research. *Ecological Engineering* 26: 55-69.

98. Mitsch, W.J., L. Zhang, C.J. Anderson, A. Altor, and M. Hernandez. 2005. Creating riverine wetlands: Ecological succession, nutrient retention, and pulsing effects. *Ecological Engineering* 25: 510-527.
97. Anderson, C.J., W.J. Mitsch, and R.W. Nairn. 2005. Temporal and spatial development of surface soil conditions in two created riverine marshes. *Journal of Environmental Quality* 34: 2072-2081.
96. Anderson, C.J. and W.J. Mitsch. 2005. Effect of pulsing on macrophyte productivity and nutrient uptake: A wetland mesocosm experiment. *American Midland Naturalist* 154: 305-319.
95. Hinkle, R. and W.J. Mitsch. 2005. Salt marsh vegetation recovery at salt hay farm wetland restoration sites on Delaware Bay. *Ecological Engineering* 25: 240-251.
94. Orth, K., J.W. Day, D.F. Boesch, E.J. Clairain, W.J. Mitsch, L. Shabman, C. Simenstad, and B. Streever. 2005. Lessons learned: An assessment of the effectiveness of a National Technical Review Committee for oversight of the plan for the restoration of the Mississippi Delta. *Ecological Engineering* 25: 153-167.
93. Day, J.W., Jr., G. Abrami, J. Rybczyk and W.J. Mitsch. 2005. Venice Lagoon and the Po Delta: System functioning as a basis for sustainable management. In: Flooding and Environmental Challenges for Venice and its Lagoon, Fletcher and Spencer, eds. Cambridge University Press, Cambridge, UK, pp. 445-459.
92. Zhang, L., W.J. Mitsch, and D.F. Fink. 2005. Hydrology, water quality, and restoration potential for the Upper Big Darby Creek, Central Ohio. *Ohio J. Science* 105 (3): 46-56.
91. Mitsch, W.J. 2005. Applying science to conservation and restoration of the world's wetlands. *Water Science & Technology* 51(8): 13-26.
90. Day, J.W., Jr., J. Barras, E. Clairain, J. Johnston, D. Justic, G. P. Kemp, J.-Y. Ko, R. Lane, W.J. Mitsch, G. Steyer, P. Templet, and A. Yañez-Arancibia. 2005. Implications of global climatic change and energy cost and availability for the restoration of the Mississippi Delta. *Ecological Engineering* 24: 253-265.
89. Mitsch, W.J., J.W. Day, Jr., L. Zhang, and R. Lane. 2005. Nitrate-nitrogen retention by wetlands in the Mississippi River Basin. *Ecological Engineering* 24: 267-278.
88. Zhang, L., and W.J. Mitsch. 2005. Modelling hydrological processes in created wetlands: An integrated system approach. *Environmental Modelling & Software* 20: 935-946.
87. Mitsch, W.J., N. Wang, L. Zhang, R. Deal, X. Wu and A. Zuwerink. 2005. Using ecological indicators in a whole-ecosystem wetland experiment. in S.E. Jørgensen, F-L. Xu, and R. Costanza, eds. Handbook of Ecological Indicators for Assessment of Ecosystem Health, CRC Press, Boca Raton, FL. pp. 211-235.
86. Fink, D.F. and W.J. Mitsch. 2004. Seasonal and storm event nutrient removal by a created wetland in an agricultural watershed. *Ecological Engineering* 23: 313-325.
85. Mitsch, W.J. and J.W. Day, Jr. 2004. Thinking big with whole ecosystem studies and ecosystem restoration—A legacy of H.T. Odum. *Ecological Modelling* 178: 133-155.
84. Mitsch, W.J. and S.E. Jørgensen. 2003. Ecological engineering: A field whose time has come. *Ecological Engineering* 20: 363-377.
83. Mitsch, W.J. 2003. Ecology, ecological engineering, and the Odum brothers. *Ecological Engineering* 20: 331-338.
82. Day, J.W. Jr., A. Yañez Arancibia, W. J. Mitsch, A.L. Lara-Dominguez, J. N. Day, J.-Y. Ko, R. Lane, and J. Lindsey. 2003. Using ecotechnology to address water quality and wetland habitat loss problems in the Mississippi Basin: A hierarchical approach. *Biotechnology Advances* 22: 135-159.
81. Spieles, D.J. and W.J. Mitsch. 2003. A model of macroinvertebrate trophic structure and oxygen demand in freshwater wetlands. *Ecological Modelling* 161: 183-194.

80. Harter, S.K. and W.J. Mitsch. 2003. Patterns of short-term sedimentation in a freshwater created marsh. *Journal of Environmental Quality* 32: 325-334.
79. Mitsch, W.J., J.C. Lefevre, and V. Bouchard. 2002. Ecological engineering applied to river and wetland restoration. *Ecological Engineering* 18: 529-541.
78. Mitsch, W.J. 2002. Ecological engineering. *Environmental Engineering* 38: (2) 27-33.
77. Ahn, C. and W.J. Mitsch. 2002. Evaluating the use of recycled coal combustion products in constructed wetlands: An ecologic-economic modeling approach. *Ecological Modelling* 150: 117-140.
76. Ahn, C. and W.J. Mitsch. 2002. Scaling considerations of mesocosm wetlands in simulating large created freshwater marshes. *Ecological Engineering* 18: 327-342.
75. Ahn, C. and W.J. Mitsch. 2001. Chemical analysis of soil and leachate from experimental wetland mesocosms lined with coal combustion products. *Journal of Environmental Quality* 30: 1457-1463.
74. Mitsch, William J., John W. Day, Jr., J. Wendell Gilliam, Peter M. Groffman, Donald L. Hey, Gyles W. Randall, and Naiming Wang. 2001. Reducing nitrogen loading to the Gulf of Mexico from the Mississippi River Basin: Strategies to counter a persistent ecological problem. *BioScience* 51: 373-388.
73. Fennessy, M.S. and W.J. Mitsch. 2001. Effects of hydrology on spatial patterns of soil development in created riparian wetlands. *Wetlands Ecology and Management* 9: 103-120.
72. Ahn, C., W.J. Mitsch, and W.E. Wolfe. 2001. Effects of recycled FGD liner material on water quality and macrophytes of constructed wetlands: A mesocosm experiment. *Water Research* 35: 633-642.
71. Svengsouk, L.M. and W. J. Mitsch. 2001. Dynamics of mixtures of *Typha latifolia* and *Schoenoplectus tabernaemontani* in nutrient-enrichment wetland experiments. *American Midland Naturalist* 145: 309-324.
70. Mitsch, W.J., N. Wang, and V. Bouchard. 2001. Fringe wetlands of the Laurentian Great lakes: Effects of dikes, water level fluctuations, and climate change. *Verh. Internat. Verein. Limnol.* 27:3430-3437.
69. Spieles, D.J. and W.J. Mitsch. 2000. Macroinvertebrate community structure in high-and low-nutrient constructed wetlands. *Wetlands* 20: 716-729.
68. Weihe, P.E. and W.J. Mitsch. 2000. Garden wetland experiment demonstrates genetic differences in soft rush obtained from different regions (Ohio). *Ecological Restoration* 18: 258-259.
67. Mitsch, W.J. and J.G. Gosselink. 2000. The value of wetlands: The importance of landscape setting and scale. *Ecological Economics* 35: 25-33.
66. Mitsch, W.J. and N. Wang. 2000. Large-scale coastal wetland restoration on the Laurentian Great Lakes: Determining the potential for water quality improvement. *Ecological Engineering* 15: 267-282.
65. Wang, N. and W.J. Mitsch. 2000. A detailed ecosystem model of phosphorus dynamics in created riparian wetlands. *Ecological Modelling* 126: 101-130.
64. Mitsch, W.J., A.J. Horne, and R.W. Nairn. 2000. Nitrogen and phosphorus retention in wetlands — Ecological approaches to solving excess nutrient problems. *Ecological Engineering* 14: 1-7.
63. Nairn, R.W. and W.J. Mitsch. 2000. Phosphorus removal in created wetland ponds receiving river overflow. *Ecological Engineering* 14: 107-126.
62. Spieles, D.J. and W.J. Mitsch. 2000. The effects of season and hydrologic and chemical loading on nitrate retention in constructed wetlands: A comparison of low and high nutrient riverine systems. *Ecological Engineering* 14: 77-91.

61. Koreny, J.S., W.J. Mitsch, E.S. Bair, and X. Wu. 1999. Regional and local hydrology of a created riparian wetland system. *Wetlands* 19: 182-193.
60. Wang, N. and W.J. Mitsch. 1998. Estimating phosphorus retention of existing and restored wetlands in a tributary watershed of the Laurentian Great Lakes in Michigan, USA. *Wetlands Ecology and Management* 6: 69-82.
59. Mitsch, W.J., X. Wu, R.W. Nairn, P.E. Weihe, N. Wang, R. Deal, C.E. Boucher. 1998. Creating and restoring wetlands: A whole-ecosystem experiment in self-design. *BioScience* 48: 1019-1030.
58. Wang, R., Y. Yan, and W.J. Mitsch. 1998. Editorial—Ecological engineering: A promising approach towards sustainable development in developing countries. *Ecological Engineering* 11: 1-16.
57. Bruins, R.J.F., S. Cai, S. Chen, and W.J. Mitsch. 1998. Ecological engineering strategies to reduce flooding damage to wetland crops in central China. *Ecological Engineering* 11: 231-259.
56. Dudek, D.M., J. R. McClenahan, and W.J. Mitsch. 1998. Tree growth responses of *Populus deltoides* and *Juglans nigra* to streamflow and climate in a bottomland hardwood forest in Central Ohio. *Am. Midl. Nat.* 140: 233-244.
55. Kang, H., C. Freeman, D. Lee, and W.J. Mitsch. 1998. Enzyme activities in constructed wetlands: Implication for water quality amelioration. *Hydrobiologia* 368: 231-235.
54. Mitsch, W.J. 1998. Ecological engineering—the seven-year itch. *Ecological Engineering* 10: 119-138.
53. Wu, X. and W.J. Mitsch. 1998. Spatial and temporal patterns of algae in newly constructed freshwater wetlands. *Wetlands* 18: 9-20.
52. Mitsch, W. J. and K.M. Wise. 1998. Water quality, fate of metals, and predictive model validation of a constructed wetland treating acid mine drainage. *Water Research* 32: 1888-1900.
51. Metzker, K. and W.J. Mitsch. 1997. Modelling self-design of the aquatic community in a newly created freshwater wetland. *Ecological Modelling* 100: 61-86.
50. Mitsch, W.J. and U. Mander. 1997. Remediation of ecosystems damaged by environmental contamination: Application of ecological engineering and ecosystem restoration in Central and Eastern Europe. *Ecological Engineering* 8: 247-254.
49. Özesmi, U. and W.J. Mitsch. 1997. A spatial model for the marsh-breeding red-winged blackbird (*Agelaius phoeniceus* L.) in coastal Lake Erie wetlands. *Ecological Modelling* 101: 139-152.
48. Mitsch, W.J. 1996. Managing the world's wetlands—preserving and enhancing their ecological functions. *Verh. Internat. Verein. Limnol.* 26:139-147.
47. Wilson, R.F. and W. J. Mitsch. 1996. Functional assessment of five wetlands constructed to mitigate wetland loss in Ohio, USA. *Wetlands* 16: 436-451.
46. Mitsch, W.J. and R.F. Wilson. 1996. Improving the success of wetland creation and restoration with know-how, time, and self-design. *Ecological Applications* 6:77-83.
45. Niswander, S.F. and W.J. Mitsch. 1995. Functional analysis of a two-year-old created in-stream wetland: hydrology, phosphorus retention, and vegetation survival and growth *Wetlands* 15: 212-225.
44. Mitsch, W.J. 1995. Restoration of our lakes and rivers with wetlands—an important application of ecological engineering. *Water Science and Technology* 31:167-177.
43. Mitsch, W.J., J.K. Cronk, X. Wu, R.W. Nairn and D.L. Hey. 1995. Phosphorus retention in constructed freshwater riparian marshes. *Ecological Applications* 5:830-845.
42. Willis, C. and W.J. Mitsch. 1995. Effects of hydrologic and nutrients on seedling emergence and biomass of aquatic macrophytes from natural and artificial seed banks. *Ecological Engineering* 4:65-76.

41. Christensen, N., W.J. Mitsch and S.E. Jørgensen. 1994. A first generation ecosystem model of the Des Plaines River experimental wetlands. *Ecological Engineering* 3:495-521.
40. Cronk, J.K. and W.J. Mitsch. 1994. Periphyton productivity on artificial and natural surfaces in four constructed freshwater wetlands under different hydrologic regimes. *Aquatic Botany* 48:325-341.
39. Cronk, J.K. and W.J. Mitsch. 1994. Aquatic metabolism in four newly constructed freshwater wetlands with different hydrologic inputs. *Ecological Engineering* 3:449-468.
38. Fennessy, M.S., C. Brueske and W.J. Mitsch. 1994. Sediment deposition patterns in restored freshwater wetlands using sediment traps. *Ecological Engineering* 3:409-428.
37. Fennessy, M.S., J.K. Cronk and W.J. Mitsch. 1994. Macrophyte productivity and community development in created freshwater wetlands under experimental hydrologic conditions. *Ecological Engineering* 3:469-484.
36. Flanagan, N.E., W.J. Mitsch and K. Beach. 1994. Predicting metal retention in a constructed mine drainage wetland. *Ecological Engineering* 3:135-159.
35. Hagiwara, H. and W.J. Mitsch. 1994. Ecosystem modelling of an integrated aquaculture in South China. *Ecological Modelling* 72:41-73.
34. Kusler, J, W.J. Mitsch and J.S. Larson. 1994. Wetlands. *Scientific American* 270(1): 64-70.
33. Mitsch, W.J., A. van der Valk and E. Jaworski. 1994. Wetland restoration at a former Nike missile base in the Great Lakes Basin. *Restoration Ecology* 2:31-42.
32. Yan, J. and W.J. Mitsch. 1994. Comparison of ecological engineering between China and the West. *Rural Eco-Environment* 10(1):45-52 (in Chinese).
31. Mitsch, W.J., J. Yan and J. Cronk. 1993. Ecological engineering—contrasting experiences in China with the West. *Ecological Engineering* 2:177-191.
30. Mitsch, W.J. 1993. Ecological engineering—a cooperative role with the planetary life-support systems. *Environmental Science & Technology* 27:438-445.
29. Mitsch, W.J. 1992. Combining ecosystem and landscape approaches to Great Lakes wetlands. *J. Great Lakes Research* 18: 52-570.
28. Mitsch, W.J. 1992. Landscape design and the role of created, restored, and natural riparian wetlands in controlling nonpoint source pollution. *Ecological Engineering* 1:27-47.
27. Mitsch, W.J. and B.C. Reeder. 1992. Nutrient and hydrologic budgets of a Great Lakes coastal freshwater wetland during a drought year. *Wetlands Ecology and Management* 1: 211-223.
26. Mitsch, W.J. and B.C. Reeder. 1991. Modelling nutrient retention of a freshwater coastal wetland: estimating the roles of primary productivity, sedimentation, resuspension and hydrology. *Ecological Modelling* 54:151-187.
25. Mitsch, W.J., J.R. Taylor and K.B. Benson. 1991. Estimating primary productivity of forested wetland communities in different hydrologic landscapes. *Landscape Ecology* 5:75-92.
24. Baker, K., S. Fennessy and W.J. Mitsch. 1991. Designing wetlands for controlling coal mine drainage: an ecologic-economic modelling approach. *Ecological Economics* 3:1-24.
23. Cronk, J.K., W.J. Mitsch and R.M. Sykes. 1990. Effective modelling of a major inland oil spill on the Ohio River. *Ecological Modelling* 51:161-192.
22. Fennessy, S. and W.J. Mitsch. 1989. Treating coal mine drainage with an artificial wetland. *Research J. Water Pollution Control Federation* 61:1691-1701.
21. Youger, J. and W.J. Mitsch. 1989. Heavy metal concentrations in Ohio River sediments—longitudinal and temporal patterns. *Ohio Journal of Science* 89:172-175.
20. Mitsch, W.J., G.W. Mullins, T.M. Cavanaugh and R. Taylor. 1989. The 1987 "Boatload of Knowledge" – Graduate environmental research and education on the Ohio River. *Ohio Journal of Science* 89:118-127.

19. Cavanaugh, T.M. and W.J. Mitsch. 1989. Water quality trends of the Upper Ohio River from 1977 to 1987. *Ohio Journal of Science* 89:153-163.
18. Frost, S. and W.J. Mitsch. 1989. Resource development and conservation history along the Ohio River. *Ohio Journal of Science* 89:143-152.
17. Sidhu, A. and W.J. Mitsch. 1987. Water pollution from oil and gas recovery in eastern Kentucky streams. *Water Resources Bulletin* 23: 943-953.
16. Glubiak, P., R. Nowka and W.J. Mitsch. 1986. Federal and state management of inland wetlands: Are the states ready to assume control? *Environmental Management* 10:145-156.
15. Mitsch, W.J. and W.G. Rust. 1984. Tree growth responses to flooding in a bottomland forest in northeastern Illinois. *Forest Science* 30:499-510.
14. Mitsch, W.J., J.R. Taylor, K.B. Benson and P.L. Hill, Jr. 1983. Wetlands and coal surface mining in western Kentucky—a regional impact assessment. *Wetlands* 3:161-179.
13. Mitsch, W.J., J.W. Day, Jr., J.R. Taylor and L.C. Madden. 1982. Models of North American freshwater wetlands. *Int. J. Ecol. Environ. Sci.* 8:109-140.
12. Mitsch, W.J. and K.S. Kaltenborn. 1980. Effects of copper sulfate application on diel dissolved oxygen and metabolism in the Fox Chain of Lakes. *Trans. Ill. State Acad. Sci.* 73:55-64.
11. Deghi, G.S., K.C. Ewel and W.J. Mitsch. 1980. Effects of sewage effluent application on litterfall and litter decomposition in cypress swamps. *J. Applied Ecology* 17:397-408.
10. O'Brien, P. and W.J. Mitsch. 1980. Root zone simulation model for land application of sewage sludges. *Ecological Modelling* 8: 223-257.
9. Mitsch, W.J., C.L. Dorge and J.W. Wiemhoff. 1979. Ecosystem dynamics and a phosphorus budget of an alluvial cypress swamp in southern Illinois. *Ecology* 60:1116-1124.
8. Kemp, W.M. and W.J. Mitsch. 1979. Turbulence and phytoplankton diversity: A general model of the paradox of the plankton. *Ecological Modelling* 7: 201-222.
7. Ogawa, H. and W.J. Mitsch. 1979. Modeling of power plant impact on fish populations. *Environmental Management* 3:321-330.
6. Mitsch, W.J. and K.C. Ewel. 1979. Comparative biomass and growth of cypress in Florida wetlands. *American Midland Naturalist* 101:417-426.
5. Letterman, R.D. and W.J. Mitsch. 1978. Impact of mine drainage on mountain streams in Pennsylvania. *Environmental Pollution* 17:53-73.
4. Mitsch, W.J., M.A. McPartlin and R.D. Letterman. 1978. Energetic evaluation of a stream ecosystem affected by coal mine drainage. *Verh. Internat. Verein. Limnol.* 21:1388-1395.
3. Ewel, K.C. and W.J. Mitsch. 1978. The effects of fire on species composition in cypress dome ecosystems. *Florida Scientist* 41:25-31.
2. Mitsch, W.J. 1977. Water hyacinth (*Eichhornia crassipes*) nutrient uptake and metabolism in a north-central Florida marsh. *Archiv für Hydrobiologia* 81:188-210.
1. Mitsch, W.J. 1976. Ecosystem modeling of water hyacinth management in Lake Alice, Florida. *Ecological Modelling* 2:69-89.

### **Book Chapters, Proceedings, Editorials, Blog Contributions**

91. Mitsch, W.J. 2015. New reports show alarming trend of wetland losses in the world. Posted May 22, 2015. The Compleat Wetlander, Association of State Wetland Managers  
<http://www.aswm.org/wordpress/>
90. Yang, Z, Y. Cai, and W.J. Mitsch, eds. 2015. Ecological and hydrological responses to changing environmental conditions in China's river basins. *Ecological Engineering* 76: 1-6.

89. Pärn, J., A. Aasa, S. Egorov, I. Filippov, G. Gabiri, I. Gheorghe, J. Järveoja, K. Kasak, F. Laggoun-De´farge, C. K. Luswata, M. Maddison, W. J. Mitsch, H. Óskarsson, S. Pellerin, J.-O. Salm, K. Sohar, K. Soosaar, A. Teemusk, M. M. Tenywa, J. A. Villa, C. Vohla, and Ü. Mander. 2015. Chapter 7, Global boundary lines of N<sub>2</sub>O and CH<sub>4</sub> emission in peatlands. pp. 87-102 In J. Vymazal (ed.), *The Role of Natural and Constructed Wetlands in Nutrient Cycling and Retention on the Landscape*, Springer International Publishing, Switzerland.
88. Mitsch, W.J. 2014. Restoring the Black Swamp to save Lake Erie. Posted September 4, 2014, Water Environment Federation, <http://www.wef.org/blogs/blog.aspx?id=12884904840&bloid=17296>
87. Costanza, R., W. Mitsch, and J. Day. 2013. An ecosystem vision for New Orleans and the Mississippi delta: Applying ecological economics an ecological engineering. pp. 245-260. In: Yáñez-Arancibia, A., Davalos, R., J. Day, and E. Reyes. Eds. *Ecological Dimension for Sustainable Economic Development*. WIT Press. Southampton, UK
86. Day, J., W. Mitsch, and A. Yáñez-Arancibia. 2013. Using Ecotechnology and ecological engineering to address water and habitat loss quality in estuarine Systems, Gulf of México. A synthesis. pp. 507-516. In: Yáñez-Arancibia, A., Davalos, R., J. Day, and E. Reyes. Eds. *Ecological Dimension for Sustainable Economic Development*. WIT Press. Southampton, UK.
85. Zalewski, M., W.J. Mitsch, et al. 2013. Harmonization of societal needs with the ecosphere in the Anthropocene Era. *Ecohydrology & Hydrobiology* 13: 6-7.
84. Day, J.W., J. Barras, G.P. Kemp, R. Lane, W.J. Mitsch, and P.H. Templet. 2013. Integrated coastal management in the Mississippi Delta. Pages 93-107 In: *Gulf of Mexico Origin, Waters, and Biota, Volume 4, Ecosystem-Based Management*, J.W. Day and A. Vanez-Arancibia, eds. Texas A&M University Press, College Station.
83. Mitsch, W.J. 2013. EcoSummit 2012 and *Ecohydrology & Hydrobiology*. *Ecohydrology & Hydrobiology* 13: 1-2.
82. Mander, U., and W.J. Mitsch. 2011. Editorial: Biogeochemical aspects of ecosystem restoration and rehabilitation. *Ecological Engineering* 37: 1003-1007.
81. Mitsch, W.J. 2010. Restauration des Cours d'eau et de leur basin versant: Une approach par génie écologique. Pages 206-224 (Chapter IV) In: J.-C. Lefeuvre, dir., *Carrières, Biodiversité et Fonctionnement des Hydrosystèmes*. UNICEM/Pierre-Yves Brunaud, ENCEM.
80. Mitsch, W.J. 2009. In memory: Professor C.H. Chung (1908-2008). *Ecological Engineering* 35: 442-443.
79. Qin, P. and W.J. Mitsch. 2009. Wetland restoration and ecological engineering: International Conference on Wetland Restoration and Ecological Engineering. *Ecological Engineering* 35: 437-441.
78. Gardner, R.C., J. Zedler, A. Redmond, R.E. Turner, C.A. Johnston, V.R. Alvarez, C.A. Simenstad, K.L. Prestegaard, and W.J. Mitsch. 2009. Compensating for wetland losses under the Clean Water Act (Redux): Evaluating the Federal Compensatory Mitigation Regulation. *National Wetland Newsletter* 31(2), 1, 3-7.
77. Mander, U., and W.J. Mitsch. 2009. Pollution control by wetlands. *Ecological Engineering* 35: 153-158.
76. Atkinson, R., Brooks, R., A. Cole, C. Craft, M. Brinson, W.J. Mitsch, J.E. Perry, M. Rains, D.H. Rickerl, R. Shannon, J. Teal, and B. Warner. 2011. Why become a certified SWS-Professional Wetland Scientist: A perspective from the academic world. *Wetlands* 28: 1104-1105.
75. Scavia, D.V., W.J. Mitsch, and O.C. Doering. 2007. Improving water quality from the corn belt to the Gulf. Pages 175-184 In: Nassauer, J.I, M.V. Santelmann, and D. Scavia, eds, *From the Corn*

- Belt to the Gulf of Mexico: Societal and Environmental Implications of Alternative Agricultural Futures. Resources for the Future, Washington, DC.
74. Yanez-Arancibia, A., J.W. Day, R.R. Twilley, and W.J. Mitsch. 2007. Enfoque ecosistémico para restaurar humedales costeros ante los cambios globales. *Ambientico* 165: 35-38.
  73. Mitsch, W.J. 2007. Ecological and social complexity in restoring water resources: Coastal Louisiana, the Mississippi River Basin, and Mesopotamia. Pages 19-23 In: 2006 Stockholm Water Prize Laureates Seminar: Challenges and Opportunities within the Water Sector, Stockholm International Water Institute, Stockholm, Sweden.
  72. Mitsch, W.J. 2007. Restoration of the world's wetlands. Pages 30-37 In: Proceeding, International Symposium on Wetland Restoration 2006: Restoration and Wise Use of Wetlands. Organizing Committee of the Symposium on Wetland Restoration 2006, Shiga Prefectural Government, Otsu, Japan.
  71. Martin, J.W., S.L. Lansing, and W.J. Mitsch. 2006. Editorial: The growth of ecological engineering: The fifth annual conference of the American Ecological Engineering Society. *Ecological Engineering* 28: 183-186.
  70. Mitsch, W.J. 2005. Wetland creation, restoration, and conservation: A Wetland Invitational at the Olentangy River Wetland Research Park. *Ecological Engineering* 24: 243-251.
  69. Day, J., P. Templet, J.-Y. Ko, W. Mitsch, G.P. Kemp, J. Johnston, G. Steyer, J. Barras, D. Justic, E. Clairain, and R. Theriot. 2004. El Delta del Rio Mississippi: Funcionamiento del sistema, impactos ambientales y manejo sustentable (in Spanish). Pages 849-880 In: M.. Caso, I. Pisanty, and E. Ezcurra, eds., Environmental Diagnosis of the Gulf of Mexico, Institute of Ecology, Dept of Environment and Natural Resources of Mexico, Mexico City, Mexico.
  68. Mitsch, W.J. 2000. Self-design applied to coastal restoration. Pages 554-564 In: M.P. Weinstein and D.A. Kreeger, eds. Concepts and Controversies in Tidal Marsh Ecology. Kluwer, Dordrecht, The Netherlands.
  67. Söderqvist, T. W.J. Mitsch, and R.K. Turner. 2000. Editorial: Valuation of wetlands in a landscape and institutional perspective. *Ecological Economics* 35: 1-4.
  66. Jørgensen, S.E. and W.J. Mitsch. 2000. Ecological Engineering. Pages 537-546 In: S.E. Jørgensen and F. Müller, eds., Handbook of Ecosystem Theories and Management. Lewis Publishers, Boca Raton, FL.
  65. Mitsch, W.J. , X. Wu, R.W. Nairn, and N. Wang. 2000. To plant or not to plant: response from Mitsch et al. *BioScience* 50: 188-191.
  64. Jørgensen, S.E. and W.J. Mitsch. 2000. Ecological Engineering. In: S.E. Jørgensen, ed. *A Systems Approach to the Environmental Analysis of Pollution Minimization*, Lewis Publisher, Boca Raton, FL, pp. 225-240.
  63. Mitsch, W.J. 1999. Biosphere 2—The Special Issue. *Ecological Engineering* 13:1-2.
  62. Mitsch, W.J. 1999. Wetland restoration in the Mississippi River Basin—An ecological solution to the hypoxia problem in the Gulf of Mexico. *National Wetlands Newsletter* 21 (6)(November-December)
  61. Mitsch, W.J. 1998. Self-design and wetland creation: early results of a freshwater marsh experiment. In: A.J. McComb and J.A. Davis (ed.). Contributions from INTECOL's V International Wetlands Conference, Perth, Australia, Gleneagles Press, Adelaide, SA, Australia, pp. 635-655.
  60. Mitsch, W.J. 1998. Protecting the world's wetlands: threats and opportunities in the 21st century. In: A.J. McComb and J.A. Davis (ed.). *Wetlands for the Future*. Contributions from INTECOL's V International Wetlands Conference, Perth, Australia, Gleneagles Press, Adelaide, SA, Australia, pp. 19-31.



59. Mitsch, W.J. and V. Bouchard. 1998. Enhancing the role of coastal wetlands of the North American Great Lakes—Editorial. *Wetlands Ecology and Management* 6: 1-3.
58. Mitsch, W.J. 1998. Olentangy River Wetland Research Park: The Ohio State University as a “Wet-Land Grant” University. *Land and Water—The Magazine of Natural Resource Management and Restoration* 42(5): 22-26.
57. Mitsch, W.J. and M.T. Brown. 1998. Editorial—Ecological engineering at EcoSummit 96 in Copenhagen. *Ecological Engineering* 10: 115-118.
56. Mitsch, W.J. 1998. Ecological engineering—enhancing nature’s ecological services. Proceedings, With Rivers to the Sea—Interactions of Land Activities, Fresh Water and Enclosed Coastal Seas, Stockholm Water Symposium, Stockholm International Water Institute, Sweden. pp. 281-288.
55. Mitsch, W.J. 1997. Ecological engineering: Five years after birth of the journal (editorial). *Ecological Engineering* 8: 1-4.
54. Mitsch, W.J. 1997. Ecological engineering: The roots and rationale of a new ecological paradigm. In, C. Etnier and Björn Guterstam (eds.), *Ecological Engineering for Wastewater Treatment*. Boca Raton, Florida: CRC/Lewis Publishers. pp. 1-20.
53. Mitsch, W.J. 1996. The Olentangy River Wetland Research Park: Integrating wetlands and higher education. In, S. Colvin (ed.) Proceedings of Five Regional Citizen Education Workshops on Lake Management, North American Lake Management Society, pp. 81-85.
52. Mitsch, W.J. 1996. Ecological engineering: A new paradigm for engineers and ecologists. In, P.C. Schulze (ed.), *Engineering within Ecological Constraints*, Washington, DC: National Academy Press. pp. 111-128.
51. Gopal, B. and W.J. Mitsch. 1995. The role of vegetation in created and restored wetlands—an international perspective (editorial). *Ecological Engineering* 5:1-3.
50. Mitsch, W.J. 1995. The Olentangy River Wetland Research Park at The Ohio State University: coupling wetlands with higher education. *The Wetland Journal* 7(3):4-7.
49. Mitsch, W.J. 1995. Ecological engineering: from Gainesville to Beijing—A comparison of approaches in the United States and China. In, C.A.S. Hall (ed.), *Maximum Power*, Niwot, CO: University Press of Colorado. pp. 109-122.
48. Mitsch, W.J. and X. Wu. 1995. Wetlands and global change. In, R. Lal, J. Kimble, E. Levine, and B.A. Stewart (eds.), *Advances in Soil Science, Soil Management and Greenhouse Effect*. Boca Raton, Florida: Lewis Publishers. pp. 205-230.
47. Mitsch, W.J. 1995. Restoration and creation of wetlands—providing the science and engineering basis and measuring success (editorial). *Ecological Engineering* 4:61-64.
46. Mitsch, W.J., R.H. Mitsch and R.E. Turner. 1994. Wetlands of the Old and New Worlds—ecology and management. In, W.J. Mitsch (ed.), *Global Wetlands: Old World and New* Amsterdam: Elsevier. pp. 3-56.
45. Mitsch, W.J. 1994. A comparison of the nonpoint source pollution control function of natural and constructed riparian wetlands. In W.J. Mitsch (ed.), *Global Wetlands: Old World and New* Amsterdam: Elsevier. pp. 351-361.
44. Mitsch, W.J., B.C. Reeder and D.M. Robb. 1994. Modelling ecosystem and landscape scales of Lake Erie coastal wetlands. In: W.J. Mitsch (ed.), *Global Wetlands: Old World and New* Amsterdam: Elsevier. pp. 563-574.
43. Mitsch, W.J. 1994. Ecological Engineering: A Friend. published concurrently in *Ecological Engineering* 3:112-115 and *Journal of Environmental Engineering*.
42. Mitsch, W.J. 1994. Energy flow in a pulsing system: Howard T. Odum. *Ecological Engineering* 3:77-83.

41. Sanville, W. and W.J. Mitsch. 1994. Preface: Creating freshwater marshes in a riparian landscape: research at the Des Plaines River Wetlands Demonstration Project. *Ecological Engineering* 3:315-317.
40. Sharitz, R.R. and W.J. Mitsch. 1993. Southern floodplain forests. In: W.H. Martin, S.G. Boyce and A.C.E. Ehtemacht (eds.), *Biodiversity of the Southeastern United States: Lowland Terrestrial Communities*. New York: J. Wiley & Sons. pp. 311-372.
39. Mitsch, W.J. 1993. INTECOL's IV International Wetlands Conference: A report. *International Journal of Ecology and Environmental Sciences* 19:129-134.
38. Mitsch, W.J. 1992. Ecological indicators for ecological engineering in wetlands. In: D. McKenzie, et al. (eds.), *Ecological Indicators* Amsterdam: Elsevier. pp. 535-556.
37. Robb, D.M. and W.J. Mitsch. 1992. Selected chemical parameters of diked and undiked Lake Erie marshes. In: J. Kusler and R. Smardon, eds. *Wetlands of the Great Lakes*. Berne, NY: Association of Wetland Managers. pp. 130-136.
36. Mitsch, W.J. 1992. Applications of ecotechnology to the creation and rehabilitation of temperate wetlands. In, M. Wali (ed.), *Ecosystem Rehabilitation, vol. 2, Ecosystem Analysis and Synthesis* The Hague, The Netherlands: SPB Academic Publishing. pp. 309-331.
35. Mitsch, W.J. and J.K. Cronk. 1992. Creation and restoration of wetlands: some design consideration for ecological engineering. In, R. Lal and B.A. Stewart (eds.), *Advances in Soil Science, vol.7, Soil Restoration*. New York: Springer-Verlag. pp. 217-259.
34. Mitsch, W.J. 1991. Ecological engineering — roots and rationale for a new ecological paradigm. In Proceedings, C. Etnier and Björn Guterstam (eds.), *Ecological Engineering of Wastewater Treatment*, International Conference, Stensund Folk College, Trosa, Sweden, Bokskogen, Gothenburg, Sweden. pp. 19-37.
33. Mitsch, W.J. and S. Fennessy. 1991. Modelling nutrient cycling in wetlands. In, S.E. Jørgensen (ed.), *Modelling in Environmental Chemistry, Developments in Environmental Modelling 14*, Amsterdam: Elsevier. pp. 249-275.
32. Mitsch, W.J. 1991. Ecological engineering — approaches to sustainability and biodiversity in U.S. and China. In, R. Costanza (ed.), *Ecological Economics: The Science and Management of Sustainability*, New York: Columbia University Press. pp. 428-448.
31. Mitsch, W.J. and S.E. Jørgensen. 1990. Wetland modeling: modelling and management. In, B.C. Patten (ed.), *Wetlands and Shallow Continental Water Bodies, vol. 1*. The Hague, The Netherlands: SPB Academic Publishing. pp. 727-744.
30. Taylor, J.R., M.A. Cardamone and W.J. Mitsch. 1990. Bottomland hardwood forests: their functions and values. In, J.G. Gosselink, L.C. Lee and T.A. Muir (eds.), *Ecological Processes and Cumulative Impacts: Illustrated by Bottomland Hardwood Wetland Ecosystems* Chelsea, MI: Lewis Publ., Inc. pp. 13-86.
29. Mitsch, W.J. and S. Fennessy. 1989. Wetlands for the control of coal mine drainage in Ohio. In, J.C. Lefeuvre (ed.), *Conservation and Development: The Sustainable Use of Wetland Resources*, 3rd International Wetlands Conference, Rennes, France, Laboratoire d'Evolution des Systemes Naturels et Modifiés, Paris, France. pp. 307-308.
28. Mitsch, W.J. and S.E. Jørgensen. 1989. Introduction to ecological engineering. In, W.J. Mitsch and S.E. Jørgensen (eds.), *Ecological Engineering: An Introduction to Ecotechnology*. New York: John Wiley & Sons. pp. 3-12.
27. Mitsch, W.J., B. Reeder and D. Klarer. 1989. The role of wetlands for the control of nutrients with a case study of Western Lake Erie. In, W.J. Mitsch and S.E. Jørgensen (eds.) *Ecological Engineering: An Introduction to Ecotechnology*. New York: John Wiley & Sons. pp. 129-158.

26. Hey, D.L., M.A. Cardamone, J.H. Sather and W.J. Mitsch. 1989. Restoration of riverine wetlands: The Des Plaines River Wetlands Demonstration Project. In, W.J. Mitsch and S.E. Jørgensen (eds.), *Ecological Engineering: An Introduction to Ecotechnology*. New York: John Wiley & Sons. pp. 159-183.
25. Fennessy, S. and W. J. Mitsch. 1989. Design and use of wetlands for renovation of drainage from coal mines. In, W.J. Mitsch and S.E. Jørgensen (eds.), *Ecological Engineering: An Introduction to Ecotechnology*. New York: John Wiley & Sons. pp. 231-253.
24. Mitsch, W.J. 1988. Ecological engineering and ecotechnology with wetlands: Applications of systems approaches. In, A. Marani (ed.), *Advances in Environmental Modelling*, Amsterdam: Elsevier . pp. 565-580.
23. Straskraba, M., W.J. Mitsch, and S.E. Jørgensen. 1988. Wetland modelling—an introduction and overview. In, W.J. Mitsch, M. Straskraba and S.E. Jørgensen (eds.), *Wetland Modelling* Amsterdam: Elsevier. pp. 1-8.
22. Mitsch, W.J. 1988. Productivity - hydrology - nutrient models of forested wetlands. In, W.J. Mitsch, M. Straskraba and S.E. Jørgensen (eds.), *Wetland Modelling* Amsterdam: Elsevier. pp. 115-132.
21. Jørgensen, S.E., C. Hoffmann and W.J. Mitsch. 1988. Modelling nutrient retention by a reedswamp and wet meadow in Denmark. In, W.J. Mitsch, M. Straskraba, and S.E. Jørgensen (eds.), *Wetland Modelling* Amsterdam: Elsevier. pp. 133-151.
20. Mitsch, W.J., M. Straskraba and S.E. Jørgensen. 1988. Summary and state of the art of wetland modelling. In, W.J. Mitsch, M. Straskraba and S.E. Jørgensen (eds.), *Wetland Modelling*, Amsterdam: Elsevier. pp. 217-222.
19. Mitsch, W.J., M.A. Cardamone, J.R. Taylor and P.L. Hill, Jr. 1985. Wetlands and water quality management in the eastern interior coal basin. In, R.P. Brooks, D.E. Samuel and J.B. Hill (eds.), *Wetlands and Water Management on Mined Lands*, University Park, PA: Penn State University Press. pp. 121-137.
18. Dorge, C.L., W.J. Mitsch and J.R. Wiemhoff. 1984. Cypress wetlands in southern Illinois. In, K.C. Ewel and H.T. Odum (eds.), *Cypress Swamps* Gainesville, FL: University Presses of Florida. pp. 393-404.
17. Mitsch, W.J. 1984. Seasonal patterns of a cypress dome in Florida. In, K.C. Ewel and H.T. Odum (eds.), *Cypress Swamps* Gainesville, FL: University Presses of Florida. pp. 25-33.
16. Mitsch, W.J. 1983. Ecological models for management of freshwater wetlands. In, S.E. Jørgensen and W.J. Mitsch (eds.), *Application of Ecological Modelling in Environmental Management*, Part B. Amsterdam: Elsevier. pp. 283-310.
15. Mitsch, W.J., J.R. Taylor and K.B. Benson. 1983. Classification, modelling and management of wetlands—a case study in western Kentucky. In, W.K. Lauenroth, G.V. Skogerboe and M. Flug (eds.), *Analysis of Ecological Systems: State of the Art in Ecological Modelling*, Amsterdam: Elsevier. pp. 761-769.
14. Taylor, J.R., P.L. Hill, R.W. Bosserman and W.J. Mitsch. 1982. Ecosystem analysis of selected wetlands in the western Kentucky coalfield. In Proceedings, *Symposium on Wetlands in the Unglaciated Appalachian Region*. Morgantown, VA: West Virginia University Press. pp. 75-85.
- 13 Mitsch, W.J., J.W. Day, Jr., J.R. Taylor and C. Madden. 1982. Models of North American freshwater wetlands—a review. In, *Ecosystem Dynamics in Freshwater Wetlands and Shallow Water Bodies*, vol. 2. SCOPE and UNEP, Moscow, USSR. pp. 5-32.
12. Malec, B.F., P.G. Combs, L.F. Holloway, G.C. Langdon, W.J. Mitsch, R. Todd and H. Riekerk. 1981. Management of southeastern bottomland hardwood forests: Opportunities and constraints. In,

- J.R. Clark and J. Benforado (eds.), *Wetlands of Bottomland Hardwood Forests*, Amsterdam: Elsevier. pp. 335-357.
11. Mitsch, W.J. and C.G. Lind. 1981. A regional environmental approach to eastern Devonian oil shale development. In, R.A. Fazzolare and C.B. Smith (eds.), *Beyond the Energy Crisis - Opportunity and Challenge* Oxford: Pergamon Press. pp. A91-A99.
  10. Mitsch, W.J. and C.G. Lind. 1981. Potential impacts of oil shale development on water resources in Kentucky. In Proceedings, *Eastern Devonian Oil Shale Symposium*, IMMR and Kentucky Department of Energy, Lexington, KY. pp. 357-368.
  9. Mitsch, W.J., R.W. Bosserman, P.L. Hill, J.R. Taylor and F. Smith. 1981. Models of wetlands amid surface coal mining regions of western Kentucky. In *Energy and Ecological Modelling*, Amsterdam: Elsevier. pp. 103-113.
  8. Lind, C.G. and W.J. Mitsch. 1981. A net energy analysis including environmental cost of oil shale development in Kentucky. In *Energy and Ecological Modelling* Amsterdam: Elsevier. pp. 689-696.
  7. Dauffenbach, L., R.M. Atlas and W.J. Mitsch. 1981. A computer simulation model of the fate of crude petroleum spills in Arctic tundra ecosystems. In *Energy and Ecological Modelling* Amsterdam: Elsevier. pp. 145-155.
  6. Dauffenbach, L., W.J. Mitsch and R.M. Atlas. 1981. Modelling the fate of crude petroleum spills in Arctic tundra ecosystems. In, D.M. DuBois (ed.), *Progress in Ecological Engineering and Management by Mathematical Modelling*, CEBEDOC, Liege, Belgium. pp. 893-916.
  5. Kniahynycky, E. and W.J. Mitsch. 1981. A model of the diatom ecosystem for nearshore Lake Michigan. In, D.M. DuBois (ed.), *Progress in Ecological Engineering and Management by Mathematical Modelling* CEBEDOC, Liege, Belgium. pp. 657-682.
  4. Mitsch, W.J. 1979. Interactions between a riparian swamp and a river in southern Illinois. In, J. McCormick and R. Johnson (tech. coordin.), *Strategies for Protection and Management of Floodplain Wetlands and other Riparian Ecosystems*. USDA Forest Service General Technical Report WO-12, Washington, DC. pp. 63-72.
  3. Mitsch, W.J. and R.D. Letterman. 1979. Mine drainage impact on water quality and ecosystem energetics in a western Pennsylvania stream. *Surface Mining and Fish/Wildlife Needs in the Eastern United States*, Addendum to Proceedings, FWS/OBS-78/81A, U.S. Fish & Wildlife Service, Washington, DC. pp. 99-106.
  2. Mitsch, W.J. 1977. Energy conservation through interface ecosystems. In Proceedings, *International Conference on Energy Use Management*, Oxford: Pergamon Press. pp. 875-881.
  1. Odum, H.T., K.C. Ewel, W.J. Mitsch and J.W. Ordway. 1977. Recycling treated sewage through cypress wetlands. In, F.M. D'Itri (ed.), *Wastewater Renovation and Reuse*. New York: Marcel Dekker Press. pp. 35-67.

#### **Editorship of Special Issues of Journals**

27. Mitsch, W.J., B. Bernal, and M.E. Hernandez (eds.). 2015. Ecosystem Services of Wetlands. *International Journal for Biodiversity Science, Ecosystem Services, & Management* 11: 1-83.
26. Mitsch, W.J., J.K. Cronk, and L. Zhang (eds.). 2014. The Olentangy River Wetland Research Park: Two Decades of Research on Ecosystem Services. *Ecological Engineering* 72: 1-142.
25. Mitsch, W.J., A. Stokes, and C.G. Jones (eds.) 2012. Ecological engineering—Its development, applications, and challenges. *Ecological Engineering* 45: 1-85.
24. Mander, Ü. and W.J. Mitsch (eds.) 2011. Biogeochemical aspects of ecosystem restoration and rehabilitation. *Ecological Engineering* 37: 1003-1094.

23. Kadlec, R.H. and W.J. Mitsch (eds.) 2009. The Houghton Lake wetland treatment project. *Ecological Engineering* 35: 1285-1366.
22. Qin, P., W.J. Mitsch, and R.H. Mitsch (eds.) 2009. Wetland restoration and ecological engineering. *Ecological Engineering* 35: 437-608.
21. Mander, Ü. and W.J. Mitsch (eds.) 2009. Pollution control by wetlands. *Ecological Engineering* 35: 153-340.
20. Kohlmann, B., and W.J. Mitsch (eds.) 2008. Ecological management and sustainable development in the humid tropics of Costa Rica. *Ecological Engineering* 34: 253-382.
19. Martin, J. and W.J. Mitsch (eds.) 2006. The growth of ecological engineering: The fifth annual conference of the American Ecological Engineering Society. *Ecological Engineering* 28: 183-323.
18. Reddy, K.R., R.H. Kadlec, M.J. Chimney, and W.J. Mitsch (eds.) 2006. The Everglades Nutrient Removal Project. *Ecological Engineering* 27: 265-380.
17. Peterson, S.B., J.M. Teal, and W.J. Mitsch (eds.) 2005. Delaware Bay Salt Marsh Restoration. Special Issue of *Ecological Engineering* 25: 199-314.
16. Mitsch, W.J. (ed.) 2005. Wetland Creation, Restoration, and Conservation: The State of the Science. Special Issue of *Ecological Engineering* 24: 243-418.
15. Gattie D.K. and W.J. Mitsch (eds.). 2003. The Philosophy and Emergence of Ecological Engineering. Special Issue of *Ecological Engineering* 20: 327-454.
14. Lefeuvre, J.C., W.J. Mitsch, and V. Bouchard (eds.). 2002. Ecological Engineering Applied to River and Wetland Restoration. Special Issue of *Ecological Engineering* 18: 529-658.
13. Söderqvist, T., W.J. Mitsch, and R.K. Turner (eds.) 2000. The Value of Wetlands: Landscape and Institutional Perspectives. Special Issue of *Ecological Economics* 35: 1-132.
12. Mitsch, W.J., A. Horne and R.W. Nairn (eds.) 2000. Nitrogen and Phosphorus Retention in Wetlands. Special Issue of *Ecological Engineering* 14: 1-206.
11. Tanner, C.D., G. Raisin, G. Ho, and W.J. Mitsch (eds.) 1999. Constructed and Natural Wetlands for Pollution Control. Special Issue of *Ecological Engineering* 12: 1-170.
10. Mitsch, W.J. and V. Bouchard (eds.) 1998. Great Lakes Coastal Wetlands: Their Potential for Restoration. Special Issue of *Wetlands Ecology and Management* 6: 1-82.
9. Wang, R., J. Yan, and W.J. Mitsch (eds.). 1998. Ecological Engineering i7. Mitsch, W.J. and U. Mander (eds.) 1997. Ecological Engineering in Central and Eastern Europe: Remediation of Ecosystems Damaged by Environmental Contamination. Special Issue of *Ecological Engineering* 8: 247-346.
6. Gopal, B. and W.J. Mitsch, (eds.) 1995. The Role of Vegetation in Created and Restored Wetlands. Special Issue of *Ecological Engineering* 5: 1-121.
5. Mitsch, W.J. ( ed.). 1995. Restoration and Creation of Wetlands—Scientific Basis and Measuring Success. Special Issue of *Ecological Engineering* 4: 61-162.
4. Wetzel, R.G., A. van der Valk, R.E. Turner, W.J. Mitsch and B. Gopal (eds.). 1994. Recent Studies on Ecology and Management of Wetlands Special Issue of *International Journal of Ecology and Environmental Sciences* 20: 1-246.
3. Sanville, W. and W.J. Mitsch (eds.). 1994. Creating Freshwater Marshes in a Riparian Landscape: Research at the Des Plaines River Wetland Demonstration Project. Special Issue of *Ecological Engineering* 3(4): 315-521.
2. Mitsch, W.J., J. Yan and J. Cronk (eds.). 1993. Ecological engineering in China. Special Issue of *Ecological Engineering* 2(3): 177-307.
1. Mitsch, W.J. and L.A. Meserve (eds.). 1989. The Ohio River—Its History and Environment. Special Issue of *Ohio Journal of Science* 89(5): 116-195.

## Encyclopedia Entries

- Mitsch, W.J. 1999. Ecological Engineering. *Encyclopedia of Environmental Science*, D.E. Alexander and R.W. Fairbridge, eds., Kluwer Academic Publ., Dordrecht, Netherlands, pp. 152-153.
- Mitsch, W.J. and K.H. Mann. 1997. Biosphere: Boundary Systems Between Water and Land. *Encyclopaedia Britannica*, 15th edition, Vol. 14, pp. 1180-1184.
- Mitsch, W.J. 1997. Wetlands. *McGraw-Hill Encyclopedia of Science and Technology*, 8th ed. McGraw-Hill, New York, pp. 516-518. updated for 9th edition.

## Book Reviews

21. Mitsch, W.J. 2008. Doyle and Drew: Large-Scale Ecosystem Restoration: Five Case Studies from the United States. *Environmental Conservation* 35(4): 364-365.
20. Mitsch, W.J. 1999. R.W. Tiner: In Search of Swampland: A Wetland Sourcebook and Field Guide. *Wetlands* 19: 297-298.
19. Mitsch, W.J. 1998. A.D. Laderman: Coastally Restricted Forests. *Tree Physiology* 18: 419.
18. Mitsch, W.J. 1997. Finlayson and van der Valk: Classification and Inventory of the World's Wetlands. *Wetlands* 17: 574-575.
17. Mitsch, W.J. 1997. Schnoor: Environmental Modeling. *J. Environ. Qual.* 26(4): 1192
16. Mitsch, W.J. 1997. Kadlec and Knight: Treatment Wetlands. *Ecological Engineering* 8:173-175.
15. Mitsch, W.J. 1996. Baker: Environmental Chemistry of Lakes and Reservoirs. *J. Environ. Qual.* 25(6).
14. Mitsch, W.J. 1995. Kessler and Jansson: Wetlands and Lakes as Nitrogen Traps. Special Issue of AMBIO 23:319-386. *Ecological Engineering* 5: 123-125.
13. Mitsch, W.J. 1995. Best and Bakker: Netherlands-Wetlands. *Ecological Economics* 14: 215-216.
12. Mitsch, W.J. 1995. Reed et al., Natural Systems for Waste Management and Treatment, 2nd ed., *Ecological Engineering* 4: 337-338.
11. Mitsch, W.J. 1995. Kent: Applied Wetlands Science and Technology. *Aquatic Toxicology*
10. Mitsch, W.J. 1995. Beyers and Odum: Ecological Microcosms. *Ecology*
9. Mitsch, W.J. 1994. Jørgensen: Integration of Ecosystem Theories: A Pattern. *Ecological Modelling* 74: 316-317.
8. Mitsch, W.J. 1993. Gore: Earth In The Balance. *Ecol. Eng.* 2:81-84 (reprinted in *Ecol. Econ.* 9: 273-277, 1994).
7. Mitsch, W.J. 1992. Adey: Dynamic Aquaria: Building Living Ecosystems. *Ecological Engineering* 1: 257-259.
6. Mitsch, W.J. 1990. Hammer: Constructed Wetlands for Wastewater Treatment. *J. Environ. Qual.* 19: 784.
5. Mitsch, W.J. 1989. Henry and Heineke: Environmental Science and Engineering. *Water Res. Bull.* 25: 450-451.
4. Mitsch, W.J. 1989. Jørgensen: Fundamentals of Ecological Modelling. *J. Environ. Qual.* 18: 249.
3. Mitsch, W.J. 1987. Likens: An Ecosystem Approach to Aquatic Ecology. *Water Res. Bull.* 23: 1057-1058.
2. Mitsch, W.J. 1987. Straskraba: Freshwater Ecosystem Modelling and Simulation. *Ecol. Mod.* 35: 310-311.
1. Mitsch, W.J. 1982. What is Ecology? *Environmental Education and Information* 2: 75-76.

## Published Abstracts

254. Mitsch, W.J. 2016. The potential role of wetlands in mitigating pollutants for the health of our landscape and globe. Plenary Lecture, 10<sup>th</sup> INTECOL Wetlands Conference 'Healthy Wetlands, Healthy Earth,' Changshu, China
253. Mitsch, W.J. 2016 Wetlands 101—Their role in human history, definitions, extent in the world, and ecosystem services” 10<sup>th</sup> INTECOL Wetland Conference, Changshu, China.
252. B. Bernal, C.J. Anderson, and W.J. Mitsch. 2016. Examining long-term nitrogen dynamics at two created riverine marshes in Ohio, USA. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France.
251. Morin, T.H., G. Bohrer, A.C. Rey-Sanchez, K.C. Stefanik, K.V.R. Schafer, and W.J. Mitsch. 2016. Modeling greenhouse gas chemistry and transport in heterogenous wetlands. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France.
250. Morin, T.H., G. Bohrer, K.C. Stefanik, A.C. Rey-Sanchez, and W.J. Mitsch. 2016. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban wetland park. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France.
249. Marois, D.M. and W.J. Mitsch. 2016. A mangrove creek restoration plan utilizing hydraulic modeling. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France.
248. Zhang, L., W.J. Mitsch, and S. Thomas. 2016. Implementing real-time long-term weather/climate/hydrology/water quality field stations in brackish and freshwater wetlands in the Southwest Florida, USA. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France.
247. Mitsch, W.J. 2016. Phosphorus and nitrogen and carbon, oh my!: The role of wetlands in mitigating pollutants in our landscape and globe. Plenary Presentation, Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France
246. Mitsch, W.J. 2016. Restoring the Greater Florida Everglades once and for all. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France
245. Mitsch, W.J., L. Zhang, and J. Villa. 2016. Wetlands, Carbon, and Climate Change Revisited. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France
244. Mitsch, W.J. 2016. Self-designing: The history and wisdom of H.T. Odum. Abstracts, 5<sup>th</sup> International EcoSummit 2016, Ecological Sustainability: Engineering Change, Montpellier, France
243. Mitsch, W.J. 2016. Ecosystem services: What engineers should learn from ecologists and ecologists from engineers Abstracts, 2016 American Society for Agricultural and Biological Engineering (ASABE) International Meeting, Orlando, Florida
242. MacDonnell, C. and W.J. Mitsch. Water quality and salinity patterns in five mangrove tidal creeks in Southwest Florida. Abstracts, Society of Wetland Scientists 37<sup>th</sup> Annual Meeting, Corpus Christi, TX
241. Griffiths, L.N. and W.J. Mitsch. 2016. Nutrient reduction in urban stormwater runoff through seasonally and storm-event pulsed created subtropical wetlands. Abstracts, Society of Wetland Scientists 37<sup>th</sup> Annual Meeting, Corpus Christi, TX
240. Mitsch, W.J. 2016. Good definitions and basic principles lead to better wetland restoration and creation. Abstracts, Society of Wetland Scientists 37<sup>th</sup> Annual Meeting, Corpus Christi, TX
239. Griffiths, L.N. and W.J. Mitsch. 2016. Nutrient reduction in urban stormwater runoff through created wetlands. Florida Chapter of the Wildlife Society Annual Meeting, Gainesville, FL

238. Morin, T.H., K.C. Stefanik, G. Bohrer, A.C. Rey-Sanchez, and W.J. Mitsch. 2015. Combining eddy-covariance and chamber measurements to determine the methane budget from a small, heterogeneous urban wetland park. Abstracts, American Geophysical Union (AGU) Annual Meeting, San Francisco, CA.
237. Nairn, R. W. and W.J. Mitsch. 2015. Effective phosphorus treatment in wetlands: Three case studies from across the U.S. Oklahoma Clean Lakes and Watersheds Association Annual Meeting
236. Marchio, D. and W.J. Mitsch. 2015. Soil carbon sequestration in mangrove ecosystems of southwest Florida. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
235. Cabezas, A., C. MacDonnell, and W.J. Mitsch. 2015. Effect of disturbance and hydrogeomorphology on methane emissions in mangrove wetlands of Southwest Florida. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
234. Li, X., and W.J. Mitsch. 2015. Methane emissions from created freshwater and restored brackish marshes in Southwest Florida. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
233. Pereyra, A. and W.J. Mitsch. 2015. Methane emissions from freshwater swamp soils with different hydroperiods. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
232. Stefanik, K., G. Bohrer, and W.J. Mitsch. 2015. Seasonal and diurnal relationships between CH<sub>4</sub> and CO<sub>2</sub> flux from *Typha* spp. dominated wetland. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
231. Marois, D. and W.J. Mitsch. 2015. Modeling phosphorus retention at low concentrations in Florida Everglades mesocosms. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
230. Mitsch, W.J. 2015. Principles, paradigms, and needed restoration of river/floodplain wetland exchanges. Abstracts, Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, Rhode Island.
229. Villa, J. and W.J. Mitsch. 2014. Carbon sequestration vs. methane emissions in four different wetland plant communities of southwest Florida. Abstracts, Joint Aquatic Sciences Meeting (JASM), Portland, Oregon.
228. Marois, D., K., W.J. Mitsch, and K. Song. 2014. Modeling the effects of macrophyte communities on phosphorus retention at low concentrations. Abstracts, Joint Aquatic Sciences Meeting (JASM), Portland, Oregon.
227. Zhang, L. D. Marchio, D. Marois, and W.J. Mitsch. 2013. Hydroperiod, salinity and water quality of a disturbed mangrove wetland in SW Florida. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
226. Bernal, B. and W.J. Mitsch. 2013. Factors affecting carbon sequestration in freshwater wetlands located in temperate and tropical climates. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
225. Mitsch, W.J., B. Bernal, and A. Nahlik. 2013. Effects of disturbances on carbon sequestration and methane emissions in the world's wetlands. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
224. Marois, D., K. Song, and W.J. Mitsch. 2013. Estimating the importance of aquatic primary productivity for phosphorus retention in Florida Everglades mesocosms. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
223. Thompson, H.A., W. J. Mitsch, B. Bernal, R. Tripathee, and K.V.R. Schafer. 2013. Comparison of methane emissions from freshwater and coastal wetlands in Ohio, Florida and New Jersey using



- non-steady state chambers. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
222. Villa, J. and W.J. Mitsch. 2013. Diurnal and seasonal variations in methane emissions from different wetland plant communities in southwest Florida. Abstracts, Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, Minnesota.
221. Young, C., J. Martin, W. Mitsch, A. Hoet, F. DeGraves. 2012. Pathogen removal by constructed riparian wetlands during variable hydrologic conditions in central Ohio. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
220. Jiang, B.B., W.J. Mitsch, C. Washburn, L. Zhang. 2012. An application of an analytical storm water quality model to an integrated subtropic wetland system. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
219. Marois, D.E. and W.J. Mitsch. 2012. Hydrologic modelling of tidal creeks for mangrove forest restoration. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
218. Zhang, L.Z. and W.J. Mitsch. 2012. Scaling wetland processes to mesocosm experiments: reviewing 18 years of experience. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
217. Zhang, Y., L. Zhang, and W.J. Mitsch. 2012. Predicting dissolved oxygen during flood pulses and base flow in an urban river after dam removal in central Ohio, USA. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
216. Song, K., W.J. Mitsch, M.E. Hernandez, and J.A. Batson. 2012. Long-term denitrification rates in created riverine wetlands: effects of environmental factors and microbial communities. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
215. Truu, J., M. Truu, T. Sildvee, K. Oopkaup, U. Mander, W.J. Mitsch. 2012. Spatial distribution of denitrifying and total microbial community in created riverine wetland. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
214. Hey, D.L., J. Kostel, W. Crumpton, W. Mitsch. 2012. The roles and benefits of wetlands in managing reactive nitrogen. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
213. Bernal, B., W.J. Mitsch. 2012. Comparing carbon sequestration in natural and created wetlands. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
212. Bohrer, G. L. Naor Azrieli, S. Mesi, K.V.R. Schafer, P. Mouser, K. Stefanik, W.J. Mitsch. 2012. Eddy flux measurements of methane at the Oletangy River Wetland Research Park wetland- Determining the seasonal and diurnal dynamics of methane emissions. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
211. Roy Chowdhury, T. W. Mitsch, R.P. Dick. 2012. Seasonal and landscape gradient controls on methane oxidation and methanotrophs in a freshwater wetland. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
210. Nahlik, A.M., M.E. Kentula, W.J. Mitsch, M.E. Hernández, and K. Song. 2012. Using soil isotopes as an indicator of denitrification in wetlands. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
209. Stefanik, K.C. and W.J. Mitsch. 2012. Metabolism of dominant macrophyte species in created riverine wetlands using open system flow through chambers. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH

208. Villa, J.A. and W.J. Mitsch, 2012. Diffuse methane emissions from four different wetland plant communities in the Big Cypress Swamp. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
207. Mitsch, W.J. and S.M. Nedrich. 2012. Estimating sedimentation in riverine wetlands over 15 years. Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
206. Mitsch, W.J. 2012. Past and future of ecological engineering and ecosystem services, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
205. Mitsch, W.J. 2012. Ecological engineering in times of energy scarcity, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
204. Mitsch, W.J. 2012. When will ecologists learn engineering and engineers learn ecology? Nature waits, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
203. Mitsch, W.J., B. Bernal, A.M. Nahlik, U. Mander, L. Zhang, C. Anderson, S.E. Jørgensen, and H. Brix. 2012. Balancing carbon sequestration and methane emissions in the world's wetlands, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
202. Mitsch, W.J. 2012. A cooperative role with the planetary life support system: Ecological engineering and restoration of wetlands for their ecosystem services, Plenary keynote presentation, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
201. Mitsch, W.J., J.W. Day, J. Teal, and R.R. Lewis. 2012. Sea level rise and climate change: The importance of large-scale restoration projects in maintaining wetlands, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
200. Mitsch, W.J. and K. Song. 2012. Protecting the Everglades wetlands with wetlands: Temporal patterns and mesocosm experiments related to stormwater treatment, Abstracts, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet's Ecosystem Services, Columbus, OH
199. Mitsch, W.J. 2012. Wetland creation, restoration, and conservation: The state of the science Abstracts, 107<sup>th</sup> Congress of the Italian Botanical Congress, Benevento, Italy
198. Mitsch, W.J. 2012. River and wetland restoration: Applying ecological engineering principles Abstracts, Society of Wetland Scientists European meeting/conference, University of Århus, Århus, Denmark
197. Stefanik, K.C. and W.J. Mitsch. 2012. Vegetation succession of created wetlands in Ohio, INTECOL Wetland Conference, Orlando, Florida
196. Marois, D. and W. J. Mitsch. 2012. Modeling the effects of macrophyte communities on phosphorus retention at low concentrations, INTECOL Wetland Conference, Orlando, Florida
195. Bernal, B., and W. J. Mitsch. 2012. Carbon Sequestration in Tropical Wetlands of Costa Rica, INTECOL Wetland Conference, Orlando, Florida
194. Villa, J.A., and W. J. Mitsch. 2012. Determining the role of different wetland plant communities on the export of dissolved organic carbon in the Florida Everglades with stable isotopes, INTECOL Wetland Conference, Orlando, Florida
193. Mitsch, W.J. 2012. Carbon export and budget of created wetlands: Importance of hydrology, INTECOL Wetland Conference, Orlando, Florida

192. Mitsch, W.J. 2012. Identification and enhancement of the ecosystem services from created and restored wetlands: Olentangy River Wetlands to the Florida Everglades to the Planet. INTECOL Wetland Conference, Orlando, Florida
191. Mitsch, W.J. 2012. Ecological engineering of the best kind: Creation and restoration of wetlands, rivers, and estuaries. Society of Ecological Restoration (SER) regional conference "Restoration on the Edge." Brooklyn College, City University of New York, Brooklyn, New York.
190. Mitsch, W.J. 2011. Creating and restoring research and teaching wetlands in higher education: Accomplishments in Ohio and potential in Florida. Southwestern Florida Water Resources Conference, Naples, Florida
189. Bernal, B. and W. J. Mitsch. 2011. Carbon sequestration in created riverine wetlands. ASA-CSSA-SSSA Annual Meeting. San Antonio, TX.
188. Bernal, B. and W. J. Mitsch. 2011. Carbon accumulation in forested and riverine wetlands. Ecological Society of America Annual Meeting. Austin, TX.
187. Mitsch, W.J. 2011. Wetlands - A significant global sink of carbon? Abstracts, International Association for Landscape Ecology (IAEL) 8<sup>th</sup> IAEL World Congress, Beijing, China
186. Mitsch, W.J., K. Stefanik, L. Zhang, and B. Bernal. 2011. Seventeen years of primary succession of created riverine wetlands, Abstracts, Society of Wetland Scientists 32nd Annual Meeting, Prague, Czech Republic
185. Mitsch, W.J. 2011. Opportunities for research at Ramsar wetland sites and for Ramsar wetlands at research sites. Abstracts, Society of Wetland Scientists 32nd Annual Meeting, Prague, Czech Republic
184. Mitsch, W.J. 2011. Creating and restoring wetlands as carbon sinks" Abstracts, American Ecological Engineering Society, Asheville, North Carolina
183. Stefanik, K., and W.J. Mitsch. 2010. Emergent macrophyte dynamics of two created wetlands in central Ohio. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
182. Zhang, L, K. Keljo, and W.J. Mitsch. 2010. Impact of hydrology on aquatic macrophytes: A mesocosm study. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
181. Song, K., W.J. Mitsch. 2010. Denitrification and denitrifying bacterial community structure during a hydrologic pulse in created riverine wetlands. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
180. Naegele, A., L. Zhang, and W.J. Mitsch. 2010 Prediction of stage, bathymetry, and succession of riparian vegetation of the lower Olentangy River after removal of the Fifth Avenue Dam. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
179. Huang, C., W.J. Mitsch and D.L. Johnson. 2010. Estimating interactions between a stream channel and a diversion wetland. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
178. Waletzko, E. and W.J. Mitsch. 2010 Carbon export from freshwater created flow-through wetlands. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
177. McCarthy, S. and W.J. Mitsch. 2010. Sedimentation and erosion in planted and naturally colonizing created wetlands. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania

176. Batson, J. S. Sha, and W.J. Mitsch. 2010. Denitrification in created riparian wetlands in the Mississippi-Ohio-Missouri River basin. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
175. Mitsch, W.J. 2010 Creating wetlands: A 15-year experiment in self-design. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
174. Bernal, B. and W.J. Mitsch. 2010. Carbon accumulation in natural and created wetlands. Abstracts, 95th annual meeting of the Ecological Society of America (ESA), Pittsburgh, Pennsylvania
173. Mitsch, W.J., B. Bernal, L. Zhang, U. Mander, A.M. Nahlik, S. Sha, and C. Anderson. 2010. The role of wetlands in carbon cycling and climate change. Abstract, Flood Pulsed Wetlands. International Symposium, University of Botswana, Maun, Botswana  
<http://www.orc.ub.bw/floodpulse/>
172. Mitsch, W.J., J. Lu, X. Yuan, W. He, and L. Zhang. 2010 Three Gorges Dam pool in southwestern China: An opportunity for enhancing ecosystem services of new floodplains” Abstracts, Flood Pulsed Wetlands. International Symposium, University of Botswana, Maun, Botswana
171. Mitsch, W.J. 2009. Ecological engineering: Its development in an energy-rich society and its future in an energy-limited one" Abstracts, Ecological Engineering: From Concepts to Applications, GAIÉ, Paris, France, pp. 17-18.
170. Mitsch, W.J. 2009 Enhancing ecosystem services of riverine and deltaic wetlands in the world. Abstracts, 13th ILEC World Lake Conference, Wuhan, China.
169. Bernal, B. and W.J. Mitsch. 2009. Carbon accumulation in created temperate wetlands: temporal and spatial soil development. Soil Science Society of America 2009 International Meeting, Pittsburgh, PA.
168. Zhang, L., K. Stefanik and W. J. Mitsch. 2009. Impact of hydrological process on ecosystem services in mitigation wetlands: Case studies in Ohio, USA. Working Papers of the Finnish Forest Research Institute 128, BIOGEMON 2009, 6<sup>th</sup> International Symposium on Ecosystem Behavior, Helsinki, Finland, p. 522.
167. Mitsch, W.J. 2009. Creating and restoring wetlands: Enhancing ecosystem services. Working Papers of the Finnish Forest Research Institute 128, BIOGEMON 2009, 6<sup>th</sup> International Symposium on Ecosystem Behavior, Helsinki, Finland, p. 502
166. Stefanik, K. and W.J. Mitsch. 2009. Vegetation development and productivity in created wetlands in Ohio. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
165. Batson, J., S. Sha, U. Mander and W.J. Mitsch. 2009. Greenhouse gas emissions from created temperate riparian wetlands during winter. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
164. Waletzko, E. and W.J. Mitsch. 2009. Carbon export from freshwater flow through wetlands. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
163. Huang, C. and W.J. Mitsch. 2009. Interactions between a stream channel and a riparian wetland at The Olentangy River Wetland Research Park, Ohio USA. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
162. Keljo, K. and W.J. Mitsch. 2009. Effects of wetland macrophytes community diversity and hydrologic regimes on macroinvertebrates. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
161. Mitsch, W.J., A. Nahlik and B. Bernal. 2009. Tropical Wetlands: Climate change and carbon. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.

160. Nahlik, A.M. and W.J. Mitsch. 2009. Effects of season, hydrology, and productivity on seasonal methane emissions in two created wetlands in Ohio. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
159. Bernal, B. and W.J. Mitsch. 2009. Carbon pool and sequestration rate in a tropical wetland in Costa Rica. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
158. Mitsch, W.J. 2009. Securing a Ramsar designation at a wetland research park in Ohio: Optimizing habitat creation, wetland teaching and research, and ecotourism in an urban setting. Abstracts, Society of Wetland Scientists 30<sup>th</sup> Annual Meeting, Madison, Wisconsin.
157. Bernal, B. and W.J. Mitsch. 2008. Comparing carbon sequestration rates in tropical and temperate wetlands using radiometric dating. Soil Science Society of America/Geological Society of America Annual Meeting, Houston TX.
156. Mitsch, W.J. and J.W. Day, Jr. 2008. Reconnecting rivers and floodplains: The effectiveness of river diversions on water quality and other ecosystem services. Abstracts, 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil.
155. Mitsch, W.J. and J.W. Day, Jr. 2008. Restoring the Mississippi River Basin and Delta. Abstracts, 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil.
154. Bernal, B. and W.J. Mitsch. 2008. Comparing carbon sequestration rates in tropical and temperate wetlands using radiometric dating. Abstracts, 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil.
153. Young, C., J. Martin, W. Mitsch, A. Hoet, and F. DeGraves. 2008. Pathogen removal by constructed riparian wetlands during variable hydrologic conditions in Central Ohio. Abstracts, American Ecological Engineering Society (AEES) Annual Meeting, Blacksburg, VA.
152. Korfel, C., W.J. Mitsch, T. Hetherington, and J. Mack. 2008. Hydrology, physiochemistry, and amphibians in natural and created vernal pool wetlands, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
151. Mitsch, W.J., L. Zhang, D. Fink, A. Nahlik, C. Tuttle, A. Altor, and M. Hernandez. 2008. Hydrologic pulsing and riparian freshwater wetlands, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
150. Nahlik, A.M. and W.J. Mitsch. 2008. The effects of hydrology and climate on methane emissions from freshwater flow-through wetlands, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
149. Bernal, B. and W.J. Mitsch. 2008. Estimating carbon sequestration in a Great Lakes coastal wetland using radiometric dating, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
148. Cooley, C., and W.J. Mitsch. 2008. Sampling flood event water quality on a river: Implications for floodplain restoration after dam removal, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
147. Huang, C., W.J. Mitsch, and L. Zhang. 2008. Ecological restoration design of a small stream and riparian wetlands on a college campus in central Ohio USA, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
146. Keljo, K. and W.J. Mitsch. 2008. Impact of wetland macrophyte community diversity on macroinvertebrate community composition, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
145. Noon, M. and W.J. Mitsch. 2008. Vegetation analysis of a riparian bottomland hardwood forest upstream of a dammed reservoir prior to dam removal, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.

144. Song, K., H. Kang, and W.J. Mitsch. 2008. Spatial pattern effects on denitrification in created wetlands, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
143. Zhang, L. and W.J. Mitsch. 2008. Effects of floating aquatic plants and water source on water quality in three small ponds in central Ohio, Abstracts, Society of Wetland Scientists 29<sup>th</sup> Annual Meeting, Washington, DC.
142. Young, C., Martin, J. F., and Mitsch, W. J. 2007. Pathogen removal by constructed wetlands under steady flow and pulsing hydrologic conditions in central Ohio. American Ecological Engineering Society Annual Meeting. Manhattan, Kansas.
141. Mitsch, W.J., A. M. Nahlik, P. Wolski, K. B. Mfundisi, L. Zhang, W. R. L. Masamba, B. Bernal, and P. Huntsman-Mapila. 2007. Tropical wetlands: Seasons, hydrologic pulsing and biogeochemistry. Abstracts, Society of Wetland Scientists 28<sup>th</sup> Annual Meeting, Sacramento, CA.
140. Nahlik, A.M. and W.J. Mitsch. 2007. Methane emissions from tropical wetlands in Costa Rica. Abstracts, Society of Wetland Scientists 28<sup>th</sup> Annual Meeting, Sacramento, CA.
139. Zhang, L. and W.J. Mitsch. 2007. Designing a regeneration zone for the Cuyahoga River Valley: Ecological restoration, EcoSummit, Beijing, China
138. Mitsch, W.J. 2007. Ecological Engineering—Its Promise, Principles, and Progress. EcoSummit, Beijing, China.
137. Mitsch, W.J. and L. Zhang. 2006. Restoring Wetlands in the Mississippi-Ohio-Missouri Basin: A Solution to the Gulf of Mexico Hypoxia, Proceedings, 3rd National Conference on Coastal and Estuarine Habitat Restoration, New Orleans, LA.
136. Mitsch, W.J. 2006. Why a Natural Systems Approach to Estuarine Restoration Works, Proceedings, 3rd National Conference on Coastal and Estuarine Habitat Restoration, New Orleans, LA.
135. Mitsch, W.J., L. Zhang, M.E. Hernandez, A.E. Altor, A.M. Nahlik, C.L. Tuttle, D.F. Fink, and C. J. Anderson. 2006. Importance of hydrologic pulsing on the water quality function of wetlands in Midwestern USA. Proceedings, American Water Resources Association Annual Meeting, Baltimore, MD.
134. Altor, A.E. and W.J. Mitsch. 2006. Methane fluxes from wetland mesocosms: Relationship to hydrology, soil development and emergent vegetation. Proceedings, American Water Resources Association Annual Meeting, Baltimore, MD.
133. Fink, D.F. and W.J. Mitsch. 2006. Effects of natural river pulses on a created riparian oxbow wetland. Proceedings, American Water Resources Association Annual Meeting, Baltimore, MD.
132. Anderson, C.J. and W.J. Mitsch. 2006. Bottomland hardwood forest productivity as a result of hydrologic restoration and flood connectivity. Abstracts, 91<sup>st</sup> Annual Meeting Ecological Society of America, Memphis, TN.
131. Mitsch, W.J., L. Zhang, C. J. Anderson, A. Altor, and M. Hernandez. 2005. Creating riverine wetlands: Indicators of ecological succession, nutrient retention, and pulsing effects. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada
130. Zhang, L. and W.J. Mitsch. 2005. Validating a full-scale wetland experiment with mesocosms. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada
129. Altor, A. and W.J. Mitsch. 2005. Methane flux from created riparian wetlands: Effects of hydrologic pulses and emergent macrophytes. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada
128. Nahlik, A., and W.J. Mitsch. 2005. Effects of river pulsing on sedimentation patterns in created wetlands. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada

127. Hernandez, M. E. and W.J. Mitsch. 2005. Short-term effect of hydrologic pulses on nitrogen biogeochemistry in created riparian wetlands in the Midwestern USA. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada
126. Fink, D.F. and W.J. Mitsch. 2005. Spatial patterns of water quality and plant succession in a created riparian oxbow in Central Ohio, USA. Abstracts, 90<sup>th</sup> Annual Meeting Ecological Society of America /IX INTECOL Congress, Montreal, Canada
125. Anderson, C.J. and W.J. Mitsch. 2005. Sediment, carbon, and nutrient accumulation at two 10-year-old created riverine marshes. Abstracts, Society of Wetland Scientists 26<sup>th</sup> Annual Meeting, Charleston, SC
124. Swab, R. and W.J. Mitsch. 2005. Effectiveness of *Lonicera maackii* removal from a bottomland hardwood forest in Central Ohio. Abstracts, Society of Wetland Scientists 26<sup>th</sup> Annual Meeting, Charleston, SC
123. Mitsch, W.J. 2005. Applying Science to Conservation and Restoration of the World's Wetlands. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
122. Day, J.W. Jr. and W.J. Mitsch. 2005. Restoration of the Mississippi-Ohio-Missouri (MOM) River Basin: Experience and needed research. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
121. Mitsch, W.J., J.W. Day, Jr., L. Zhang, and R. Lane. 2005. Nitrate-nitrogen retention in wetlands in the Mississippi River Basin. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
120. Altor, A. and W.J. Mitsch. 2005. Methane flux from created riparian wetlands: Effects of hydrologic pulses and emergent macrophytes. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
119. Anderson, C.J. and W.J. Mitsch. 2005. Effect of pulsing on macrophyte productivity and nutrient uptake: A wetland mesocosm experiment. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
118. Tuttle, C.L., L. Zhang, and W.J. Mitsch. 2005. Modeling aquatic metabolism in created wetlands: ecological significance and response to hydrologic pulsing. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
117. Hernandez, M. E. and W.J. Mitsch. 2005. Gaseous nitrogen-fluxes in created wetlands receiving controlled seasonal hydrologic pulses in the Midwestern USA. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
116. Fink, D.F. and W.J. Mitsch. 2005. Biogeochemistry and plant succession in a created riparian oxbow in Central Ohio, USA. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
115. Zhang, L., W. J. Mitsch, V. Bouchard and K. Hossler. 2005. Sediment chemistry in a hydrologically restored bottomland hardwood forest in Midwestern US. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
114. Swab, R. and W.J. Mitsch. 2005. Effectiveness of *Lonicera maackii* removal from a bottomland hardwood forest in Central Ohio. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
113. Gamble, D.L. and W. J. Mitsch. 2005. A 13-year old tree-planted mitigation wetland in an urbanized area: Assessing tree growth and hydrologic patterns. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH

112. Nahlik, A., W.J. Mitsch, S. Lansing, and J. Martin. 2005. Wetland creation for water quality improvement in Costa Rica. Abstracts, American Ecological Engineering Society (AEES) 5<sup>th</sup> Annual Meeting, May 18-19, 2004, Columbus, OH
111. Mitsch, W.J. 2005. Wetland creation and education in an urban environment. Society for Range Management, 58<sup>th</sup> Annual Meeting and Trade Show, Ft. Worth, Texas
110. Mitsch, W.J. and L. Zhang. 2004. Riverine created wetlands: Ecological succession, nutrient retention and effects of pulsing. Abstracts, INTECOL Wetlands Conference, Utrecht, The Netherlands
109. Altor, A.E. and W.J. Mitsch. 2004. Influence of hydrologic pulsing and vegetation type on carbon dioxide and methane flux in created riparian wetlands. Abstracts, INTECOL Wetlands Conference, Utrecht, The Netherlands
108. Anderson, C.J. and W.J. Mitsch. 2004. Physiochemical development of soils in two experimental wetlands in central Ohio—a temporal and spatial analysis. Abstracts, INTECOL Wetlands Conference, Utrecht, The Netherlands
107. Hernandez, M.E. and W.J. Mitsch. 2004. Spatial and seasonal N<sub>2</sub>O fluxes in created wetlands receiving hydrologic pulses in Midwestern USA. Abstracts, INTECOL Wetlands Conference, Utrecht, The Netherlands.
106. Mitsch, W.J., J.W. Day, Jr., L. Zhang, and R. Lane. 2004. Nitrate-nitrogen retention by wetlands in the Mississippi River Basin. ASLO Annual Summer Meeting, Savannah, Georgia.
105. Mitsch, W.J. 2003. You can't restore the estuary if you don't fix the watershed: A case study of the Mississippi River Basin. Abstracts, Estuarine Research Federation 2003 Conference, Seattle, WA
104. Anderson, C.J. and W.J. Mitsch. 2003. Soil development of two wetland creation areas at the Olentangy River Wetland Research Park in Columbus, Ohio. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
103. Fink, D.F. and W.J. Mitsch, 2003. The efficacy of a newly created wetland at reducing nutrient runoff in an agricultural watershed. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
102. Higgins, C.R., L. Zhang, C. Ahn, and W.J. Mitsch. 2003. Examining constructed wetlands lined with coal combustion products. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
101. Mitsch, W.J. 2003. Whole ecosystem experiments in wetland ecology—self design, ecosystem engineering, and the legacy of H.T. Odum. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
100. Mitsch, W.J. and L. Zhang. 2003. Real-time instrumentation of created experimental wetlands: feasibility and indispensability. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
99. Zhang, L. and W.J. Mitsch. 2003. Patterns and processes of ecosystem function from created freshwater experimental wetlands to mesocosms: A scaling study. Abstracts, Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA.
98. Zhang, L., W.J. Mitsch, and D.F. Fink. 2002. Biogeochemical parameters and nutrient dynamics of the Upper Big Dary Creek watershed in central Ohio: A pre-restoration approach. Abstracts, Society of Wetland Scientists 23rd Annual Meeting, Lake Placid, NY
97. Mitsch, W.J. and L. Zhang. 2002. Floodplain enhancement as an approach for restoring rivers: Examples at the Olentangy River Wetland Research Park. Abstracts, 2<sup>nd</sup> Annual meeting, American Ecological Engineering Society, Burlington, VT.



96. Mitsch, W.J. 2001. Diversity or horsepower? A whole-ecosystem, long-term wetland experiment illustrates ecosystem function. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
95. Nairn, R.W. and W. J. Mitsch. 2001. Early soil development in created riparian wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
94. Liptak, M.A. and W. J. Mitsch. 2001. Water column productivity, calcite precipitation, and phosphorus dynamics in two created wetlands at the Olentangy River Wetland Research Park, Columbus, Ohio. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
93. Bouchard, V. E. Hofherr, and W. J. Mitsch. 2001. Plant establishment along gradients in the planted and unplanted experimental wetlands at the Olentangy River Wetland Research Park. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
92. Wu, X.B., J. A. Kantz, Jr., R. Deal, and W, J. Mitsch. 2001. Spatial pattern of algal development in newly created riparian wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
91. Spieles, D.J. and W.J. Mitsch. 2001. Macroinvertebrate community structure in high and low nutrient constructed wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
90. Johnson, D.L., K. E. Kleber, A, M. Gifford and W. J. Mitsch. 2001. Fish and tadpole use of planted and naturally colonized wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
89. Higgins, C.R. and W.J. Mitsch. 2001. The effects of muskrat activity on created wetlands with different spatial diversity. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
88. Johnson, S.A., W. J. Mitsch, and J. E. Christensen, 2001. Effects of hydroperiod on initial wetland plant community composition, diversity, density and biomass production: A mesocosm study. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
87. Svengsouk L.J. and W. J. Mitsch. 2001. Dynamics of mixtures of *Typha latifolia* and *Schoenoplectus tabernaemontani* in nutrient-enrichment wetland experiments. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
86. Zhang, L. and W. J. Mitsch. 2001. Modelling of hydrological budgets of experimental flow-through wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
85. Ahn, C. and W.J. Mitsch. 2001. An ecologic-economic modeling approach for evaluating the use of a recycled coal combustion product in constructed wetlands. Abstracts, Society of Wetland Scientists 22nd Annual Meeting, Chicago, IL
84. Mitsch, W.J. 2000. "Wastewater and nonpoint source treatment with wetlands: Ecosystem services in the watershed" Society of Wetland Scientists 21st Annual Meeting, Program with Abstracts, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 382.
83. Mitsch, W.J. 2000. Carbon sequestration, climate change, and wetland restoration. Society of Wetland Scientists 21st Annual Meeting, Program with Abstracts, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 372.
82. Bouchard, V., W.J. Mitsch, and M. Cochran. 2000. Potential success for the hydrologic restoration of a bottomland forest. Society of Wetland Scientists 21st Annual Meeting, Program with Abstracts, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 359.
81. Mitsch, W.J. and V. Bouchard. 2000. The effects of wetland structure on water quality and water quality on wetland structure: Experiments with freshwater marshes. INTECOL 6th International

- Wetland Symposium, Program with Abstracts, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 317.
80. Ahn, C. and W.J. Mitsch. 2000. Scaling considerations of mesocosm wetlands in simulating full-scale wetlands. Society of Wetland Scientists 21st Annual Meeting, Program with Abstracts, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 290.
  79. Mitsch, W.J. 2000. Wetland and watershed restoration: What the new millennium will bring. INTECOL 6th International Wetland Symposium, Millennium Wetland Event, Quebec City, Quebec, Canada, p. 210.
  78. Mitsch, W.J. 1999. Use of FGD byproduct as liners for wetlands. Published Abstracts, Pittsburgh Coal Conference, Pittsburgh, PA (CD)
  77. Mitsch, W.J. 1999. Solving Inland and Coastal Nutrient Enrichment with Restored and Created Wetlands in the Midwest. 4th Annual Wetland Biogeochemistry Symposium, Ft. Lauderdale, FL
  76. Mitsch, W.J., and V. Bouchard. 1999. Long-term effects of planting on ecosystem functioning of created wetlands. Abstracts, Society of Wetland Scientists 20th Annual Meeting, Norfolk, VA
  75. Mitsch, W.J., N. Wang, and V. Bouchard. 1998. Fringe wetlands of the Laurentian Great lakes: Effects of dikes, water level fluctuations, and climate change. Book of Abstracts, SIL XXVII Congress, Dublin, Ireland, p. 44.
  74. Mitsch, W.J. 1998. Self-design in created wetlands: Relations with biogeochemical processes. Abstracts, VII International Congress on Ecology (INTECOL 98), Florence, Italy
  73. Mitsch, W.J. 1998. Nutrient removal in a cold-climate constructed wetland: design considerations. Abstracts, VII International Congress on Ecology (INTECOL 98), Florence, Italy
  72. Mitsch, W.J. 1998. Restoration of heavily damaged ecosystems: Testing the limits of ecological engineering. Abstracts, VII International Congress on Ecology (INTECOL 98), Florence, Italy
  71. Mitsch, W.J. 1998. Evaluation of methods to reduce nutrient loads to surface water, ground water & the Gulf of Mexico Abstracts, ASLO/ESA Conference on The Land-Water Interface: Science for a Sustainable Biosphere, St. Louis, MO.
  70. Mitsch, W.J. 1996. Ecological engineering: Development and comparison of Western and Chinese Approaches. Abstracts, International Conference on Ecological Engineering, Beijing, China.
  69. Mitsch, W.J. 1996 Wetlands of the world: preserving and enhancing their values. Plenary Talk, Conference Program and Book of Abstracts, INTECOL's V International Wetlands Conference, Perth, WA, Australia, p. 37.
  68. Mitsch, W.J. 1996. Self design as a guiding principle in wetland creation and restoration. Conference Program and Book of Abstracts, INTECOL's V International Wetlands Conference, Perth, WA, Australia, p. 44.
  67. Mitsch, W.J. 1996. Ecological engineering: the seven-year itch. Abstracts, Ecological Summit 96, Copenhagen, Denmark.
  66. Bruins, R., W.J. Mitsch, and S. Cai. 1996. Sustainability as the "acid test" of ecological engineering: evaluating management strategies in a wetland agricultural region in Hubei, China. Abstracts, Fourth Biennial Meeting of the International Society for Ecological Economics, Boston, MA
  65. Flanagan, N.E. and W.J. Mitsch. 1996. An ecosystem level comparison of constructed and naturally occurring wetlands in northeastern Illinois. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
  64. Wang, N. and W.J. Mitsch. 1996. Estimating phosphorus retention of existing and restored wetlands in the Quanicasse River watershed, Saginaw Bay, Michigan. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO

63. Koreny, J.S. and W.J. Mitsch. 1996. Hydrology of a constructed riparian wetland system: characterization and predictive modeling. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
62. Nairn, R.W. and W.J. Mitsch. 1996. Pollutant removal capabilities of constructed wetlands in an agricultural watershed. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
61. Weihe, P.E. and W.J. Mitsch. 1996. Effect of water depth on establishment and growth of vegetation in a created wetland. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
60. Weihe, P.E. and W.J. Mitsch. 1996. Effects of algae removal on growth of two macrophyte species: a mesocosm study. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
59. Nairn, R.W. and W.J. Mitsch. 1996. Effects of hydric and upland soils on first year vegetation growth and soil genesis: results of a mesocosm investigation. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
58. Özesmi, Uygur and W.J. Mitsch. 1996. First year results of a spatial model of marsh breeding bird species in coastal Lake Erie marshes. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
57. Mitsch, W.J. and K. Metzker. 1996. Tertiary treatment of wastewater with a constructed wetland. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
56. Mitsch, W.J. 1996. The Olentangy River Wetland Research Park: Integrating wetlands and higher education. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
55. Wu, X. and W.J. Mitsch. 1996. Spatial patterns and seasonal dynamics of algal mats in newly constructed wetlands. Abstracts, Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
54. Mitsch, W.J. 1995. Ecological engineering—a new paradigm for ecology. *Bull. Ecol Soc. Amer.* 76:187.
53. Mitsch, W.J. 1995. Managing the world's wetlands—preserving and enhancing their ecological functions. 26th SIL Congress, Sao Paulo, Brazil.
52. Mitsch, W.J., X. Wu, P.E. Weihe, and R.W. Nairn. 1995. Early ecological development and water quality function of experimental constructed riparian wetlands on a university campus” Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 28-29.
51. Wang, N. and W.J. Mitsch. 1995. Phosphorus retention in an ecosystem model of the Des Plaines River experimental wetlands. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 30.
50. Dudek, D.M., J.R. McClenahan, and W.J. Mitsch. 1995. Tree growth responses to flooding and stream flow discharge in a bottomland forest in Central Ohio. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 89.
49. Nairn, R.W., J.N. Percy, B.T. Abner, M. Durant, S. Minard, and W.J. Mitsch. 1995. Benthic invertebrate populations in newly constructed wetlands: a preliminary study at the Olentangy River Wetland Research Park. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 93.
48. Wang, N., R.W. Nairn, S.L. Maurer, and W.J. Mitsch. 1995. Preliminary sampling and analysis of soils at the newly constructed Olentangy River wetlands. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 96.

47. Weihe, P. and W.J. Mitsch. 1995. Effects of spatial arrangement on *Scirpus validus* growth in a created wetland. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 97.
46. Wu, X., W.J. Mitsch, and R. Deal. 1995. Dynamics of algal mats, phytoplankton, and periphyton in two newly constructed wetlands. Abstracts of 16th Annual Meeting, Society of Wetland Scientists, Boston, MA, p. 97-98.
45. Mitsch, W.J. and X. Wu. 1994. Constructing experimental wetlands on a major university campus—research and education potential. *Bull. Ecol. Soc. Amer.* 75.
44. Niswander, S.F. and W.J. Mitsch. 1994. Functional analysis of a created in-stream mitigation wetland: Hydrology, phosphorus retention, and tree growth. SWS Annual Meeting, Portland, OR.
43. Cronk, J.K. and W.J. Mitsch. 1993. Phosphorus retention and distribution in constructed wetlands. 1993 International Winter Meeting, American Society of Agricultural Engineers, Chicago, IL.
42. Mitsch, W.J., et al. 1993. Phosphorus retention in two constructed marshes with different hydrologic throughflows. ASLO/SWS Annual Meetings, Edmonton, Alberta, Canada.
41. Mitsch, W.J. and X. Wu. 1993. Wetlands and global carbon budgets—A two-edged sword in ecosystem function and management. International Symposium: Soil Processes and Management Systems—Greenhouse Gas Emissions and Carbon Sequestration, Columbus, OH.
40. Mitsch, W.J. 1992. Modelling of wetland processes—an ecosystem approach. Am. Soc. Agron. Soil Sci. Amer. Annual Meeting, Minneapolis, MN.
39. Mitsch, W.J. 1992. Ecological engineering—An overdue application of ecology, 8th ISEM Conference, State of the Art of Ecological Modelling, Kiel, Germany
38. Mitsch, W.J. 1992. Natural and constructed riparian wetlands—A comparison of their nonpoint source pollution control function. INTECOL Wetlands Conference, Columbus, OH. p. 41.
37. Mitsch, W.J. 1992. Combining ecosystem and landscape approaches to the Laurentian Great Lakes wetlands. INTECOL Wetlands Conference, Columbus, OH. p. 35.
36. Cronk, J.K. and W.J. Mitsch. 1992. Diurnal oxygen and aquatic metabolism in experimental wetlands with different hydrologic regimes. INTECOL Wetlands Conference, Columbus, OH. p. 60.
35. Wu, X. and W.J. Mitsch. 1992. An ecosystem model for the Olentangy River Experimental Wetlands Project: Pre-construction hydrology and sedimentation submodels. INTECOL Wetlands Conference, Columbus, OH. p. 81.
34. Flanagan, N., K. Beach and W.J. Mitsch. 1992. Dynamic modelling of mine drainage amelioration in constructed wetlands. INTECOL Wetlands Conference, Columbus, OH. p. 86.
33. Willis, C.N. and W.J. Mitsch. 1992. Effects of hydrology and nutrients on emergence and early growth of aquatic macrophytes from natural and artificial seed banks. INTECOL Wetlands Conference, Columbus, OH. p. 77.
32. Cronk, J.K. and W.J. Mitsch. 1992. Periphyton productivity on artificial and natural substrates in newly constructed freshwater wetlands. Society of Wetland Scientists Annual Meeting, New Orleans, LA.
31. Mitsch, W.J., M.S. Fennessy, J.K. Cronk and D.L. Hey. 1991. Ecosystem function in constructed wetlands in different hydrologic flow conditions—early results of the Des Plaines River experiment. *Bull. Ecol. Soc. Amer.* 72(2):197.
30. Mitsch, W.J. and B.C. Reeder. 1991. Modelling nutrient dynamics of a Lake Erie coastal wetland. Society of Wetland Scientists Annual Meeting, Ann Arbor, MI.

29. Mitsch, W.J., M.S. Fennessy and J.K. Cronk. 1991. Ecosystem function in constructed wetlands of different hydrologic flows—some first year results of the Des Plaines River Experimental wetlands. Society of Wetland Scientists Annual Meeting, Ann Arbor, MI.
28. Reeder, B.C. and W.J. Mitsch. 1991. Historical biogeochemistry of Old Woman Creek Wetland, Lake Erie, USA. Intl. Association Great Lakes Research, Buffalo, NY.
27. Mitsch, W.J., R. Kadlec, D.L. Hey, K.R. Barrett, and M.S. Fennessy. 1991. Chemical mass balances of constructed riverine wetlands—the role of hydrologic and seasonal conditions. Wetland Biogeochemistry Conference, Baton Rouge, LA.
26. Mitsch, W.J. 1990. Ecological indicators for ecological engineering in wetlands. EPA Ecological Indicators Conference, Ft. Lauderdale, FL.
25. Mitsch, W.J. 1990. Integrating graduate teaching and research in ecological modelling for environmental management with STELLA. V International Congress of Ecology (INTECOL 90) Yokohama, Japan.
24. Mitsch, W.J. and B.C. Reeder. 1990. Modelling nutrient retention in a coastal Lake Erie wetland. 5th Annual Landscape Ecology Symposium, Oxford, OH.
23. Mitsch, W.J., B.C. Reeder, and D.M. Robb. 1989. Systems approach to coastal freshwater wetlands on Lake Erie, U.S.A. 3rd International Wetlands Conference, Rennes, France, Laboratoire d'Evolution des Systemes Naturels et Modifiés, Paris, France. p. 341.
22. Fennessy, S. and W.J. Mitsch. 1988. Ecological engineering with wetlands for the control of mine drainage. Mine Drainage and Reclamation Conference, Pittsburgh, PA.
21. Mitsch, W.J., B.C. Reeder and D.M. Robb. 1988. A systems approach to coastal wetlands of Lake Erie. Society for Wetland Scientists, Washington, DC.
20. Mitsch, W.J. 1987. Systems approaches to wetland ecology. *Bull. Ecol. Soc. Amer.* 68:369.
19. Reeder, B.C. and W.J. Mitsch. 1987. Modelling of a Lake Erie coastal wetland. ISEM North America Annual Meeting, Columbus, OH.
18. Cavanaugh, T., W.J. Mitsch and G.W. Mullins. Eds. 1987. The Boatload of Knowledge: The Ohio River as an outdoor classroom. *Ohio J. of Sci.* 87:24.
17. Mitsch, W.J. 1986. Wetlands and coal mining—an ecological perspective. Savannah River Ecology Laboratory Ninth Symposium—Freshwater Wetlands and Wildlife, Charleston, SC.
16. Mitsch, W.J. 1986. The Ohio River Basin Consortium. *Ohio J. of Sci.* 86.
15. Mitsch, W.J. 1985. Wetlands and coal mining—an ecological perspective. Abstracts, Ohio River Basin Consortium First Annual Meeting, Cincinnati, OH.
14. Cardamone, M. and W.J. Mitsch. 1985. Linkages of atmospheric, aquatic, and terrestrial environments. Abstracts, Ohio River Basin Consortium First Annual Meeting, Cincinnati, OH.
13. Sidhu, A. and W.J. Mitsch. 1985. Effects of oil brine on water quality of small eastern Kentucky watersheds. Abstracts, Ohio River Basin Consortium First Annual Meeting, Cincinnati, OH.
12. Mitsch, W.J., J.R. Taylor and K.B. Benson. 1985. The influence of hydroperiod on wetland productivity. Abstracts, Am. Soc. of Limnology and Oceanography 48th Annual Meeting 48:71.
11. Mitsch, W.J. and J.R. Taylor. 1985. Models of wetland management. ISEM North America Annual Meeting, Gainesville, FL.
10. Merkler, M.D. and W.J. Mitsch. 1985. Regional and conceptual models of the effects of coal mining on water quality of the Ohio River Basin. ISEM North America Annual Meeting, Gainesville, FL.
9. Mitsch, W.J. 1984. Aquatic ecosystem modelling in public policy. ISEM North America Annual Meeting, Ft. Collins, CO.
8. Glubiak, P.G., R.H. Nowka and W.J. Mitsch. 1983. A survey of state protection and regulation in inland wetlands. Society of Wetland Scientists, St. Paul, MN. 4:15-16.

7. Mitsch, W.J. 1983. Cypress swamps of southeastern United States. *ASB Bull.* 30(2):72.
6. Taylor, J.R., P.L. Hill, K.B. Benson and W.J. Mitsch. 1982. Structure and function of forested wetlands in the western Kentucky coalfield. *Bull. Ecol. Soc. Amer.* 63(3):207.
5. Urbikas, D.A. and W.J. Mitsch. 1980. Ecological comparison of intermittent streams in northeastern Illinois. Am. Soc. of Limnology and Oceanography 43rd. Annual Meeting, Knoxville, TN.
4. Mitsch, W.J., C.L. Dorge and J.R. Wiemhoff. 1979. An alluvial cypress swamp as a phosphorus sink. Am. Soc. of Limnology and Oceanography, Winter Meeting, Corpus Christi, TX.
3. Mitsch, W.J., C.L. Dorge, J.R. Wiemhoff and M. Hickey. 1977. Some interactions of a river and floodplain in southern Illinois. *Bull. Ecol. Soc. Amer.* 58(2):21.
2. Mitsch, W.J. 1975. Some physical and chemical considerations of cypress domes under natural and management conditions in north-central Florida. *Bull. Ecol. Soc. Amer.* 56(2):34.
1. Mitsch, W.J. 1974. Ecosystem modelling of lake eutrophication with special reference to aquatic weed management. 5th Pittsburgh Conference on Modelling and Simulation. 5:147.

### **Technical Reports**

#### **FLORIDA GULF COAST UNIVERSITY**

80. Mitsch, W.J., L. Zhang, N. Chung, D. Marois, K. Song, and J. Villa. 2013. FINAL REPORT: Assessing Nutrient Removal Efficacy and Uptake of Several Native Wetland Plant Communities. Submitted to: South Florida Water Management District, West Palm Beach, FL

#### **THE OHIO STATE UNIVERSITY**

79. Mitsch, W.J, and J.F. Martin, eds. 2012. Lower Olentangy River Ecosystem Restoration: Pre-Fifth Avenue dam removal conditions and prediction of dam removal effects. Olentangy River Wetland Research Park, The Ohio State University, Columbus 69 pp.
78. Mitsch, W.J, and J. Villa. 2012. Stable isotope analysis of effluents: Supporting the STA-1W mesocosm phosphorus study. Submitted to South Florida Water Management District, West Palm Beach, FL
77. Mitsch, W.J., W.E. Wolfe, T.S. Butalia, L. Zhang, and L. McCready. 2012. Large-scale field basin test to evaluate the use of GSE coal ash drainage geocomposite in coal combustion product (CCP) landfill drainage systems. Final report submitted to GSE, Houston, Texas
76. Day, J.W., W.J. Mitsch, R.D. DeLaune, R.R. Lane, R.G. Hunter, and L. Zhang. 2012. EPA Final Report: Using wetlands for nutrient reduction in the Mississippi Basin: Potential for minimizing greenhouse gases. Report submitted to U.S. EPA
75. Mitsch, W.J. 2011. 2010 Annual Report for the Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus 28 pp.
74. Mitsch, W.J. 2010. Wilma H. Schiermeier Olentangy River Wetland Research Park: Teaching, research, and outreach initiative. EPA Agreement: EM-83329801-0. Final report to U.S. Environmental Protection Agency, Cincinnati, OH, 15 pp.
73. Mitsch, W.J. 2010. 2009 Annual Report for the Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus 24 pp.
72. Mitsch, W.J. 2009. 2008 Annual Report for the Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus 24 pp.
71. Mitsch, W.J. 2008. 2007 Annual Report for the Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus.
70. Mitsch, W.J., L. Zhang, and A.M. Nahlik and many contributing authors. 2008. Hydrologic pulsing,

- carbon sequestration, and water quality in wetlands. First Annual Report. Report to U.S. Environmental Protection Agency, NRMRI, Cincinnati, Ohio. 28 pp.
69. Mitsch, W.J. 2007. 2006 Annual Report for the Wilma H. Schiermeier Olentangy River Wetland Research Park, The Ohio State University, Columbus 24 pp.
  68. Mitsch, W.J., L. Zhang, and C. Huang. 2007. On-Campus Stream and Wetland Restoration Plan for The Ohio State University at Marion. Report to Planning and Real Estate Office, Ohio State University, Olentangy River Wetland Research Park, The Ohio State University, Columbus, 41 pp.
  67. Mitsch, W.J., L. Band and C. F. Cerco. 2007. Panel Review: Everglades Landscape Model (ELM) Review—2006. Submitted to South Florida Water Management District, West Palm Beach, FL
  66. Boesch, D.F., L. Shabman, L.G. Antle, J.W. Day, Jr., R.G. Dean, G.E. Galloway, C.G. Groat, S.B. Laska, R.A. Luetlich, Jr., W.J. Mitsch, N.N. Rabalais, D.R. Reed, C.A. Simenstad, B.J. Streever, R. Bruce Taylor, R.R. Twilley, C.C. Watson, J.T. Wells, and D.F. Whigham. 2006. A New Framework for Planning the Future of Coastal Louisiana after the Hurricanes of 2005. University of Maryland Center for Environmental Science, Cambridge, MD, 48 pp.
  65. Davis, M.A., P. Keddy, W. J. Mitsch, and C.W. Osenberg. 2006. Research Plan for Options for Accelerating Recovery of Previously Impacted Areas in the Everglades Protection Area (Bc87 (3)) PANEL REVIEW. Submitted to South Florida Water Management District, West Palm Beach, FL
  64. Mitsch, W.J., L. Zhang, C. Tuttle, and K. Jones. 2006. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2005, Olentangy River Wetland Research Park, The Ohio State University, 305 pp.
  63. Mitsch, W.J., L. Zhang, and A.E. Altor, eds. 2005. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2004, Olentangy River Wetland Research Park, The Ohio State University, 200 pp.
  62. Mitsch, W.J., L. Zhang, and A.M. Nahlik. 2005. Designing a Regeneration Zone for the Cuyahoga River Valley: Project Component Ecological Restoration. Olentangy River Wetland Research Park, The Ohio State University, Columbus, 72 pp.
  61. Jørgensen, S.E., W.J. Mitsch, L. Zhang, D. Gamble, and C.L. Tuttle. 2005. Handbook on Phytotechnology for Water Quality Improvement and Wetland Management through Modelling Applications. United Nations Environmental Programme, International Environmental Technology Centre, Shiga Prefecture, Japan, 239 pp.
  60. Santiago-Fandino, V., W.J. Mitsch, I. Wagner-Lotskowska, J. Zhang, A. Al Zawahry, D. E.D. El-Quisy, A. Abul-Azm, A. Refaat, I. Gafaar, and M. Bayoumi. 2005. Environmental Management of the Iraqi Marshlands: Phytotechnology for Wetland Management. United Nations Environmental Programme, International Environmental Technology Centre, Shiga Prefecture, Japan, 321 pp.
  59. Day, J.W., W.J. Mitsch, R. R. Lane, and L. Zhang. 2005. Restoration of wetlands and water quality in the Mississippi-Ohio-Missouri (MOM) River Basin and Louisiana Delta. Final Report to Louisiana Department of Natural Resources, Baton Rouge, LA, Olentangy River Wetland Research Park, The Ohio State University and School of Coast and Environment, Louisiana State University, 18 pp. + appen.
  58. Wolfe, W.E., T.S. Butalia, H. Walker, and W.J. Mitsch. 2004. Re-Use of Clean Coal Technology By-Products in the Construction of Low Permeability Liners. Final Report for Project CDO/D-98-19 to the Ohio Coal Development Office of Ohio Air Quality Development Authority, Columbus, OH
  57. Mitsch, W.J., L. Zhang, and C. Tuttle, eds. 2004. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2003, Olentangy River Wetland Research Park, The Ohio State University, 233 pp.

56. Mitsch, W.J., R. Deal, E. Burns, J. Amon, and S. Fennessy. 2004. Ohio Center for Wetland Research and Education at the Olentangy River Wetland Research Park. Final report to Ohio Board of Regents, Olentangy River Wetland Research Park, Ohio State University, Columbus.
55. Mitsch, W.J., L. Zhang, and C. Anderson, eds. 2003. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2002, Olentangy River Wetland Research Park, The Ohio State University, 170 pp.
54. Mitsch, W.J. and L. Zhang, eds. 2002. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2001, Olentangy River Wetland Research Park, The Ohio State University, 141 pp.
53. Mitsch, W.J., L. Zhang, and D. Fink. 2002. Pre-restoration studies of water quality in the Upper Big Darby watershed—First-year report. Report to U.S. Army Corps of Engineers, Huntington District, Olentangy River Wetland Research Park, School of Natural Resources, The Ohio State University, Columbus.
52. Mitsch, W.J. and L. Zhang, eds. 2001. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 2000, School of Natural Resources, The Ohio State University, 216 pp.
51. Mitsch, W.J. and D.F. Fink. 2001. Wetlands for Controlling Nonpoint Source Pollution from Agriculture: Indian Lake Wetland Demonstration Project, Logan County, OH, Draft Final Report 1998-2001. Submitted to Indian Lake Watershed Project, Bellfontaine, OH.
50. Mitsch, W.J. and L. Zhang, eds. 2000. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1999, School of Natural Resources, The Ohio State University, 212 pp.
49. Mitsch, W.J. and E. Lohan. 1999. A cold-climate tertiary treatment wetland: Summary of four years of water quality data at the Southwest Licking County (OH) wetland. Final report, submitted to Southwest Licking Community Water and Sewer District, Etna, OH. School of Natural Resources, The Ohio State University, 11 pp.
48. Mitsch, W.J. and V. Bouchard, eds. 1999. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1998, School of Natural Resources, The Ohio State University, 233 pp.
47. Mitsch, W.J., J.W. Day, Jr., J.W. Gilliam, P.M. Groffman, D.L. Hey, G.W. Randall, and N. Wang. 1999. Reducing nutrient loads, especially nitrate-nitrogen, to surface water, groundwater, and the Gulf of Mexico. Topic 5 Report for the Integrated Assessment on Hypoxia in the Gulf of Mexico. NOAA Coastal Ocean Program Decision Analysis Series No. 19. NOAA Coastal Ocean Program, Silver Spring, MD, 111 pp.
46. Mitsch, W.J. and V. Bouchard, eds. 1998. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1997, School of Natural Resources, The Ohio State University, 335 pp.
45. Mitsch, W.J., N. Wang, V. Bouchard, X. Wu, S. Johnson, and U. Özesmi. 1998. Enhancing the roles of Great Lakes coastal wetlands. Final Report to Great Lakes Protection Fund, Chicago, IL, 93 pp.
44. Mitsch, W.J., L. Carmichael, D. Spieles, L. Svengsouk, and N. Wang. 1997. Tertiary Treatment of Wastewater in Southwest Licking County, Ohio, with a Constructed Wetland. Annual Report to Southwest Licking Community Water and Sewer District, 33 pp.
43. Mitsch, W.J., ed. 1997. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1996, School of Natural Resources, The Ohio State University, 316 pp.
42. Mitsch, W.J. and N. Flanagan. 1997. Comparison of structure and function of reference freshwater marshes with constructed deepwater marshes at the Des Plaines River Wetland Demonstration Project in northeastern Illinois. Report the Wetlands Research, Inc., Chicago, Illinois.
41. Mitsch, W.J., L. Carmichael, D. Spieles, L. Svengsouk, and K. Metzker. 1996. Tertiary Treatment of Wastewater in Southwest Licking County, Ohio, with a Constructed Wetland. Semi-annual Report to Southwest Licking Community Water and Sewer District, 28 pp.



40. Mitsch, W.J. and K. Metzker. 1996. Tertiary treatment of wastewater in Southwest Licking County, Ohio, with a constructed wetland. Annual Report to Southwest Licking Community Water and Sewer District, 28 pp.
39. Mitsch, W.J., ed. 1996. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1995, School of Natural Resources, The Ohio State University, 291 pp.
38. Mitsch, W.J. and SAC Committee. 1996. Terminal Report—Ecological Engineering and Ecosystem Restoration Training, Phase 1. Report submitted to International Environmental Technology Centre, Osaka, Japan, 24 pp. + appen.
37. Mitsch, W.J. and X. Wu, eds. 1995. Olentangy River Wetland Research Park at The Ohio State University, Annual Report 1994, School of Natural Resources, The Ohio State University, 171 pp.
36. Mitsch, W.J. and J.K. Cronk. 1995. Influence of hydrologic loading on phosphorus retention and ecosystem productivity in created wetlands. Technical Report WRP-RE-6 U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS, 84 pp.
35. Mitsch, W.J. and K.M. Wise. 1994. Treatment of acid mine drainage at Lick Run demonstration wetland—Postconstruction analysis. Final Report to Ohio Dept. of Natural Resources, Columbus, OH. 24 pp.
34. Mitsch, W.J., X. Wu, et al. 1994. Olentangy River Wetland Research Park at The Ohio State University, 1993 Annual Report. School of Natural Resources, Columbus, OH. 96 pp.
33. Mitsch, W.J., X. Wu and N. Wang. 1993. Modelling of the Des Plaines experimental wetlands—an integrative approach to data management and ecosystem prediction. Final Report to Wetlands Research Inc., Chicago, IL, for U.S. Environmental Protection Agency, Chicago, IL. 93 pp.
32. Mitsch, W.J., J.K. Cronk, et al. 1993. Phosphorus retention and ecosystem productivity of constructed wetlands at the Des Plaines River Wetland Demonstration Project, 1991-92. Final Report to Wetlands Research Inc., Chicago, IL, for U.S. Army Corps of Engineers, Vicksburg, MS. 82 pp.
31. Mitsch, W.J. and X. Wu, eds. 1993. Olentangy River Wetland Research Park at The Ohio State University, 1992 Annual Report. School of Natural Resources, Columbus, OH. 76 pp.
30. Mitsch, W.J., N. Flanagan and K.M. Wise. 1993. Treatment of acid mine drainage at Lick Run Demonstration Wetland — Preconstruction analysis and simulation modelling. Final Report to Ohio Department of Natural Resources, Columbus, OH. 24 pp. + appen.
29. Mitsch, W.J. 1992. Wetlands, Ecological engineering, and self-design. Great Lakes Wetlands Newsletter, Vol. 3, No. 1 (Winter 1992).
28. Mitsch, W.J. 1992. Ecosystem studies of the Des Plaines River Experimental Wetlands, 1990-91. Final Report to Wetlands Research, Inc., Chicago, IL.
27. Mitsch, W.J., M.S. Fennessy and J.K. Cronk. 1990. Ecosystem studies of the Des Plaines River Experimental Wetlands, 1989-90. Final Report to Wetlands Research, Inc., Chicago, IL. 48 pp. + appen.
26. Mitsch, W.J. 1990. Wetlands for the control of nonpoint source pollution: Preliminary feasibility study for Swan Creek Watershed of northwestern Ohio. Final Report to Ohio Environmental Protection Agency, Columbus, OH. 91 pp. + appen.
25. Reeder, B. and W.J. Mitsch. 1990. What is a Great Lakes coastal wetland worth? A bibliography. Ohio Sea Grant College Program, Technical Series Report OHSU-TS-007, Columbus, OH. 18 pp.
24. Mitsch, W.J. and D.L. Johnson. 1990. Ecological engineering — theory and development in the U.S. and China. Final Report to National Science Foundation, Washington, DC. 37 pp.
23. Mitsch, W.J. (ed.). 1989. Wetlands of the Lake Erie coast of Ohio: A hierarchy of systems. Ohio State University Sea Grant Program, Final Report BS-007, Columbus, OH. 186 pp.

22. Mitsch, W.J. and G.W. Mullins. 1988. The Boatload of Knowledge. Final Report to Virginia Environmental Endowment, Richmond, VA.

#### **UNIVERSITY OF LOUISVILLE**

21. Cardamone, M.A. and W.J. Mitsch. 1985. Linkages of atmospheric, aquatic, and terrestrial environments: A review of multimedia models. U.S. Fish & Wildlife Service, NCET Open File Report 85-12, Slidel, LA. 67 pp.
20. Mitsch, W.J. and M. Merkler. 1985. A prospectus: The Ohio River Basin Consortium for Research and Education. 22 pp.
19. Cardamone, M.A., J.R. Taylor and W.J. Mitsch. 1984. Wetlands and coal surface mining: a management handbook with particular reference to the Illinois Basin of the Eastern Interior Coal Region. Kentucky Water Resources Research Institute Report No. 154, Lexington, KY. 99 pp.
18. Mitsch, W.J., J.R. Taylor, K.B. Benson and P.L. Hill, Jr. 1983. Atlas of wetlands in the principal coal surface mine region of western Kentucky. U.S. Fish & Wildlife Service Report FWS/OBS 82/72, Washington, DC. 134 pp.
17. Mitsch, W.J. 1983. Aquatic ecosystem modelling — its evolution, effectiveness and opportunities in policy issues. AAAS Fellow Report to U.S. Environmental Protection Agency. 50 pp.
16. Mitsch, W.J., R.J. Stevenson, J.R. Taylor and M.A. Cardamone. 1983. Water contamination in the Ohio River Basin in Kentucky. Virginia Environmental Endowment, Richmond, VA. 97 pp.
15. Jahn, L.R. and W.J. Mitsch. 1982. Floodplain and wetland maintenance and management. Report to the Tennessee Governor's office, Safe Growth Action Team. 55 pp.
14. Mitsch, W.J., R.W. Bosserman, P.L. Hill, Jr. and J.R. Taylor .1982. Classification and management of wetlands in the western Kentucky coal field. Kentucky Water Resources Research Institute Report No. 131, Lexington, KY. 78 pp.
13. Mitsch, W.J. and C.G. Lind. 1982. Water related impacts of oil shale development. Kentucky Dept. of Natural Resources and Environmental Protection Final Report, Frankfort, KY. 53 pp.

#### **ILLINOIS INSTITUTE OF TECHNOLOGY**

12. Mitsch, W.J. and D. Urbikas. 1980. Ecological comparison of intermittent streams in different land use patterns in northeastern Illinois. Illinois Institute of Natural Resources Doc. 80/17, Chicago, IL. 154 pp.
11. Mitsch, W.J., W. Rust, A. Behnke and L. Lai. 1979. Environmental observations of a riparian ecosystem during flood season. Illinois Water Resources Center Research Report No. 142, Urbana, IL. 64 pp.
10. Mitsch, W.J., M.D. Hutchison and G.A. Paulson. 1979. Momenet wetlands of the Kankakee River in Illinois — an assessment of their value. Illinois Institute of Natural Resources Doc. 79/17, Chicago, IL. 55 pp.
9. Mitsch, W.J., C.L. Dorge and K. Kurtz. 1978. Environmental assessment of the Village of Downers Grove. Final Report to the Village of Downers Grove, IL. 76 pp.
8. Mitsch, W.J., C.L. Dorge and J.R. Wiemhoff. 1977. Forested wetlands for water resource management in southern Illinois. Illinois Water Resources Center Research Report No. 132, Urbana, IL. 275 pp.
7. Mitsch, W.J. and K.S. Kaltenborn. 1977. Ecosystem assessment of management strategies for the Fox Chain of Lakes. Illinois Institute for Environmental Quality Final Report, Chicago, IL. 53 pp.

6. Mitsch, W.J. et al. 1977. An integrated assessment of increased coal use in the midwest — impacts and constraints. Regional Studies Program, Argonne National Laboratory Report ANL/AA-11, Argonne, IL. 101 pp.
5. Mitsch, W.J. et al. 1977. Water pollution impacts of the national energy plan. Energy and Environmental Systems Division, Argonne National Laboratory, Argonne, IL. 85 pp.
4. Mitsch, W.J. 1977. How to use and waste energy — some energy principles. In, Energy in Minnesota, Minnesota Legislature, Science and Technology Project, St. Paul, MN. pp. 76 - 83.

### **UNIVERSITY OF FLORIDA**

3. Odum, H.T., W.J. Mitsch et al. 1976. Net energy analysis of alternatives for the United States. In: Hearings before the Subcommittee on Energy and Power, Committee on Interstate and Foreign Commerce, U.S. House of Representatives, March 25-26, 1976, Washington, DC. pp. 253 - 302E.
2. Mitsch, W.J. 1975. Systems analysis of nutrient disposal in cypress wetlands and lake ecosystems in Florida. Ph.D. dissertation, University of Florida, Gainesville, FL. 421 pp.
1. Mitsch, W.J. 1973. Remote sensing of water quality — a state of the art report. Florida Water Resources Center Report No. 21, Gainesville, FL. 14 pp.

### **PROFESSIONAL PRESENTATIONS (\* = invited)**

#### **2017**

- \*February 10, 2017 “Restoring the Greater Florida Everglades— what has gone right and what had gone wrong” Corkscrew Swamp International Wetland Lecture and Moonlight on the Marsh Distinguished Lecture, Corkscrew Swamp Sanctuary, Naples, FL

#### **2016**

- \*December 6, 2016 “Wetlands: Nature’s Kidneys of our Planet” Herzberg Lecture, Carleton University, Ottawa, Ontario, Canada
- \*November 28, 2016 “Phosphorus and nitrogen and carbon, OH MY! The role of wetlands in mitigating pollutants in our landscape and globe” Institute of Ecology, Xalapa, Veracruz, Mexico
- \*November 23, 2016 “The importance of wetlands in the face of global warming” El Colegio de Veracruz, Xalapa, Veracruz, Mexico
- \*October 28, 2016 “Ecological Engineering: A legacy of the department of environmental engineering sciences at U of F” Department of Environmental Science and Engineering 50<sup>th</sup> Anniversary Celebration Banquet. University of Florida, Gainesville, FL
- \*September 29, 2016 “Tidal creek restoration: The potential of mangrove creeks in Cape Coral to provide ecosystem services” Cape Coral Wetlands Workshop, Cape Coral, FL
- \*September 21, 2016 “The potential role of wetlands in mitigating pollutants for the health of our landscape and globe” Plenary Lecture, 10<sup>th</sup> INTECOL Wetlands Conference 'Healthy Wetlands, Healthy Earth,' Changshu, China
- \*September 20, 2016 “Wetlands 101 — Their role in human history, definitions, extent in the world, and ecosystem services” Summit Forum, 10<sup>th</sup> INTECOL Wetlands Conference 'Healthy Wetlands, Healthy Earth,' Changshu, China
- \*September 1, 2016 “Phosphorus and nitrogen and carbon, oh my! The role of wetlands in mitigating pollutants in our landscape and globe” Plenary Lecture, EcoSummit 2016, Montpellier, France

- August 31, 2016 “A mangrove creek restoration plan utilizing hydraulic modeling” EcoSummit 2016, Montpellier, France
- August 31, 2016 “Restoring the Greater Florida Everglades, once and for all” EcoSummit 2016, Montpellier, France
- August 30, 2016 “Wetlands, carbon, and climate change revisited” EcoSummit 2016, Montpellier, France
- August 29, 2016 “Self-designing: The history and wisdom of H.T. Odum” EcoSummit 2016, Montpellier, France
- \*July 18, 2016 “Ecosystem services: What engineers should learn from ecologists and ecologists from engineers” 2016 American Society for Agricultural and Biological Engineering (ASABE) International Meeting, Orlando, Florida
- \*July 8, 2016 “The role of wetlands in mitigating pollutants in our landscape and planet” Sven Erik Jørgensen Lecture, Limnology 2016, Tortosa, Spain
- \*June 24, 2016 “Phosphorus and Nitrogen and Carbon, OH MY! The watershed and global roles of wetlands in mitigating pollutants” Invited presentation. III Brazilian Wetland Congress (CONBRAU), Cuiba, Brazil
- \*June 1, 2016 “Good definitions and basic principles lead to better wetland restoration and creation” Symposium presentation, Society of Wetland Scientists 37<sup>th</sup> Annual Meeting, Corpus Christi, TX
- \*May 26, 2016 “Phosphorus and Nitrogen and Carbon, OH MY! The watershed and global roles of wetlands in mitigating pollutants” Division of Natural Sciences, Kristianstad University, Kristianstad, Sweden
- \*May 18, 2016 “Ecological engineering: Definitions, history, concepts, principles, and practice” Guest Lecture as Fulbright Visiting Scholar, Bialystok University of Technology, Bialystok, Poland
- \*May 10, 2016 “Phosphorus and Nitrogen and Carbon, OH MY! The watershed and global roles of wetlands in mitigating pollutants” Lotz University, Lotz, Poland
- \*May 5, 2016 “Phosphorus and nitrogen and carbon, OH MY! The role of wetlands in mitigating pollutants in our landscape and globe” Ohio State University Mansfield, Mansfield, OH
- \*April 12, 2016 “Phosphorus and Nitrogen and Carbon, OH MY! The watershed and global roles of wetlands in mitigating pollutants” Friends of Fakahatchee, Everglades City, FL
- \*March 28, 2016 “The role of wetlands in mitigating pollutants in our landscape and globe” National Academies of Sciences, Engineering, and Medicines Workshop on Wetlands of Iran, co-sponsored by the Department of State and University of Arizona, NAS Beckman Center, Irvine, California.
- \*March 24, 2016 “Phosphorus, nitrogen, and carbon, oh my! The role of wetlands in mitigating pollutants in our landscape and globe” High-level forum presentation, Tsinghua University, Beijing, China
- \*March 23, 2016 “Wetlands and hydrology” International Workshop on Eco-Hydrology, China Institute of Water Resources and Hydropower Research, Beijing, China
- \*March 22, 2016 “Phosphorus, nitrogen, and carbon, oh my! The role of wetlands in mitigating pollutants in our landscape and globe” Beihan University, Beijing, China
- \*March 19, 2016 “Phosphorus, nitrogen, and carbon, oh my! The role of wetlands in mitigating pollutants in our landscape and globe” China-US Joint Workshop on Environmental Remediation and Watershed Restoration, Northeast Normal University, Changchun, China
- \*February 18, 2016 “Phosphorus and nitrogen and carbon, oh my! The watershed and global roles of wetlands in mitigating pollutants” Center for Environment and Life Science Building Dedication, College of Science and Mathematics, Montclair State University, Montclair, NJ

\*February 4, 2016 “The science and politics of wetlands in the U.S. and the world” Delaware Wetland Monitoring and Assessment Program Annual Meeting, Wilmington, Delaware.

\*February 3, 2016 "Climate Change—What Can Wetlands Do For Us?" Greater Naples Leadership (GNL) Class XX, Naples, FL

## **2015**

\*December 8, 2015 “Blue carbon and other carbon fluxes in mangroves” 2<sup>nd</sup> Annual Florida Mangrove Workshop, Rookery Bay NERR, Naples, Florida

\*November 3, 2015 “Wetlands, carbon, and climate change” Conferencia magistral X Simposio Internacional “Humedales 2015”, Ciénaga de Zapata, Matanzas, Cuba

\*October 22, 2015 “Blue carbon and other carbon fluxes in mangroves and other coastal wetlands in SW Florida” Workshop on Blue Carbon, Sponsored by Gulf of Mexico Coastal Training Program, Fairhope, AL, Everglades Wetland Research Park, Kapnick Center, Naples, FL

\*October 6, 2015 “Phosphorus, nitrogen, and carbon, oh my! The role of wetlands in mitigating pollutants in our landscape and globe” Seminar on Sustainable Management of Natural and Engineered Landscapes, Institute for Advanced Study, Technische Universität München, Garching, Germany

\*September 10, 2015 “Using wetlands to prevent phosphorus and nitrogen pollution in downstream wetlands, lakes, rivers, and coastal waters: The MOM River Basin/Gulf of Mexico/Laurentian Great Lakes/Florida Everglades Challenge” Charlotte Harbor NEP Conservation Lands Workshop, Punta Gorda, FL

\*June 1, 2015 “Principles, paradigms, and needed restoration of river/floodplain wetland exchanges” Society of Wetland Scientists 36<sup>th</sup> Annual Meeting, Providence, RI

\*April 24, 2015 “Dealing with downstream effects of excessive nutrient runoff from agriculture: How ecologically engineered wetlands can help?” Seminarios Avancados, CIMA, University of Algarve, Faro, Portugal.

\*April 16, 2015 “Dealing with downstream effects of excessive agricultural fertilizer use at a watershed scale: How ecologically engineered wetlands can help?” HydroEco 2015, 5<sup>th</sup> International Conference on Hydrology and Ecology, Vienna, Austria.

\*March 26, 2015 “Ramsar wetlands of international importance: A look at the possibilities” Association of State Wetland Managers Coordination Meeting, The New World of Wetlands: Dealing with Shifting Landscapes, Laws and Climate, Shepherdstown, WV

\*March 24, 2015 “Climate change and wetlands: What’s coming” Association of State Wetland Managers Coordination Meeting, The New World of Wetlands: Dealing with Shifting Landscapes, Laws and Climate, Shepherdstown, WV

\*March 5, 2015 “Using wetlands to prevent phosphorus and nitrogen pollution in downstream wetlands, lakes, rivers, and coastal waters—The MOM River Basin/Gulf of Mexico/Laurentian Great Lakes/Florida Everglades Challenge” Everglades National Park, Homestead, FL

\*February 13, 2015 “Phosphorus, nitrogen, and carbon, oh my! The watershed and global roles of wetlands in mitigating pollutants” Isaak Walton League National Leaders Meeting, Ft. Myers, FL

\*February 2, 2015 “Phosphorus, nitrogen, and carbon, oh my! The catchment and global roles of wetlands in mitigating these pollutants,” University of Waterloo Faculty of Science Distinguished Lecture. Waterloo, Ontario, Canada

## **2014**

- \*December 6, 2014 “Carbon and wetlands: Global perspective and fluxes in cypress and mangrove swamps of SW Florida” keynote lecture, Scientific conference dedicated to the 95th Anniversary of the Estonian-Language Education of the University of Tartu, Tartu, Estonia
- \*November 15, 2014 “Restoring the Great Black Swamp” Ohio Wetlands Association Annual Summit, Columbus, Ohio
- \*November 6, 2014 "Carbon fluxes and ecosystem services of cypress swamps of SW Florida" Big Cypress Symposium, Ochopee, Florida
- \*October 10, 2014 Solving nutrient pollution from Ohio to Florida” Environmental Change Initiative, Innovation Park, University of Notre Dame, Notre Dame, Indiana
- \*September 19, 2014 “Creating and restoring wetlands: From Olentangy to Everglades” Biology Lecture Series, University of North Florida, Jacksonville, Florida
- \* July 30, 2014 “Wetland Science and Policy in the USA” Board of Water and Soil Resources (BWSR) Staff Internal Training, State of Minnesota, St. Cloud, Minnesota
- \* July 26, 2014 “Wetlands and carbon” First Institute of Oceanography, State Oceanic Administration, Qingdao, China
- \* July 24, 2014 “Creating and restoring wetlands: From Olentangy to Everglades” Qufu Normal University, Qufu, China
- \* July 22, 2014 “Ecological engineering of wetlands: Are we able to do so at a large scale? Northeast Normal University, Changchun, China
- \* July 18, 2014 “Creating and restoring wetlands: From Olentangy to Everglades” Beijing Normal University, Beijing, China
- \* July 15, 2014 “Integrating science and policy for using wetlands for controlling eutrophication of downstream aquatic ecosystems: Three case studies in the USA” Workshop on Managing Nitrogen and Phosphorus Loads to Water Bodies: Characterisation and Solutions, Institute for Environment and Sustainability, European Commission Joint Research Center (JRC), Ispra, Italy
- \* June 12, 2014 “Creating and restoring wetlands: From Olentangy to Everglades” Florida Department of Environmental Protection Submerged Lands and Environmental Resources Conference, Orlando, Florida
- \* May 21, 2014 "Ecohydrology and ecological engineering in practice: Comparing some of the world's major wetland restorations" Ecohydrology workshop, UNESCO, Paris, France
- \* April 9, 2014 “Wetlands and water quality: Large-scale, long-term watershed projects in the Midwest and Florida Everglades” Water, Wetlands and Watershed seminar, sponsored by Odum Center for Wetlands, University of Florida, Gainesville.
- \* March 22, 2014 “Nature’s kidneys: Wetlands for improving water quality” World Water Day Lecture, Cleveland Museum of Natural History, Cleveland, Ohio
- \* January 11, 2014 “Enhancing ecosystem services in south Florida: Restoring our Everglades, watersheds, and coastal ecosystems” Keynote invited lecture, Sierra Club breakfast, Everglades Coalition Annual Conference, Naples, Florida
- \* January 10, 2014 “The value of water in south Florida: Restoring the Everglades and coastal ecosystems” Panel presentation, Everglades Coalition Annual Conference, Naples, Florida

## **2013**

- \* December 7, 2013 “Wetlands, water quality, and carbon: Creating and restoring wetlands for ecosystem services” Keynote address, Ohio Wetland Summit 2013, Columbus, Ohio

- \* November 15, 2013 “Wetlands and water quality: Two large-scale, long-term watershed projects in Midwestern and Florida Everglades USA” Environmental Science Graduate Program, The Ohio State University, Columbus, Ohio
- \* November 12, 2013 “Supreme Court decisions on wetlands: Can science help?” Keynote presentation, First Annual ELI-Stetson Wetlands Workshop, Stetson University College of Law, Gulfport, Florida
- \* October 28, 2013 “Carbon, wetlands, and climate change: A global perspective” Keynote presentation, International Society for Ecological Modelling 19<sup>th</sup> conference, Toulouse, France
- \* October 25, 2013 “Wetlands, carbon, and climate change” Guest lecture, French National Research Institute for Agronomy, Montpellier, France
- \* October 18, 2013 “Wetlands and water quality” Guest lecture, Institut national de recherché en sciences et technologies pour l’environnement et l’agriculture, Paris France
- \* October 14, 2013 “Protecting the Florida Everglades wetlands with wetlands—Can stormwater phosphorus be reduced to oligotrophic conditions?” Keynote presentation, WETPOL 2013 Conference, Nantes, France
- \* October 10, 2013 “Ecological engineering and restoration of wetlands, rivers, and coastlines for their ecosystem services” Keynote Presentation, World Water Summit Budapest, Hungary.
- \* September 26, 2013 “Wetlands, carbon, and global climate change” Invited keynote. Charlotte Harbor (CHNEP) Conservation Lands Workshop, Punta Gorda, FL
- \* September 17, 2013 “Ecological engineering: Opportunities and challenges for transdisciplinary integration” International Symposium on Ecohydrology, Biotechnology & Engineering, Lotz, Poland
- \* July 19, 2013 “Methane and carbon in the world’s wetlands” Department of Environmental Science, Sichuan University, Chengdu, China
- \* July 17, 2013 “Wetlands, carbon, and global climate change” Center for Earth System Science, Tsinghua University, Beijing, China
- \* July 12, 2013 “Protecting the Gulf of Mexico and the Florida Everglades with wetlands—A tale of two watersheds and two nutrients” Northeast Normal University, Changchun, China
- \* July 10, 2013 “Ecological engineering of the best kind: Restoring wetlands and rivers in the Midwest and south Florida USA” Ecological Restoration Salon, Ecological Society of China, Chinese Academy of Sciences, Beijing, China
- \* June 18, 2013 “Protecting the Gulf of Mexico and the Florida Everglades with wetlands—A tale of two watersheds and two nutrients” Keynote Address, Florida Lake Management Society Annual Meeting, Daytona Beach, FL
- \* June 5, 2013 “Effects of disturbances on carbon sequestration and methane emissions in the world's wetlands” Society of Wetland Scientists 34<sup>th</sup> Annual Meeting, Duluth, MN
- \* May 24, 2013 “Restoring the Gulf of Mexico, the Greater Florida Everglades, and the Planet through good science and ecological engineering” Department of Biology, Lund University, Lund, Sweden
- \* May 1, 2013 “Restoring the Gulf of Mexico, the Greater Florida Everglades, and the Planet through good science and ecological engineering” The Conservancy of Southwest Florida, Naples FL
- \* April 24, 2013 “Phosphorus removal and retention pathways of native Everglades wetland plant communities: Mesocosm experiments related to stormwater treatment” South Florida Water Management District, West Palm Beach, FL
- \* March 4, 2013 “Restoring the Florida Everglades” Naples Garden Club, Naples, FL
- \* January 24, 2013 “Ecological engineering of the best kind: Restoring rivers, wetlands, and the Florida Everglades” Moonlight on the Marsh Distinguished Lecture, Everglades Wetland Research Park, Florida Gulf Coast University, Naples, FL

- \*January 14, 2013 “Natural resilience: Benefiting from ecosystem services” Resilience and Sustainability: A Transdisciplinary Symposium, U.S. Environmental Protection Agency, National Science Foundation, and National Council for Science and Environment, Washington, DC

## **2012**

- \*November 30, 2012 “A cooperative role with the planetary life support system: Ecological engineering and restoration of wetlands for their ecosystem services” Department of Civil and Environmental Engineering, Clarkson University, Potsdam, NY
- \*October 5, 2012 “Past and future of ecological engineering and ecosystem services” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 4, 2012 “Ecological engineering in times of energy scarcity” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 4, 2012 “When will ecologists learn engineering and engineers learn ecology? Nature waits” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 4, 2012 “Balancing carbon sequestration and methane emissions in the world’s wetlands” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 2, 2012 “A cooperative role with the planetary life support system: Ecological engineering and restoration of wetlands for their ecosystem services” Plenary keynote presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 2, 2012 “Sea level rise and climate change: The importance of large-scale restoration projects in maintaining wetlands” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*October 1, 2012 “Protecting the Everglades wetlands with wetlands: Temporal patterns and mesocosm experiments related to stormwater treatment” Symposium presentation, 4<sup>th</sup> International EcoSummit, Ecological Sustainability, Restoring the Planet’s Ecosystem Services, Columbus, OH
- \*September 19, 2012 “Wetland creation, restoration, and conservation: The state of the science” 107<sup>th</sup> Congress of the Italian Botanical Congress, Benevento, Italy
- \*August 10, 2012 “Wetland management in the United States” First Brazilian Wetland Symposium, Cuiaba, Brazil
- \*July 8, 2012 “Wetland creation, restoration and conservation: Enhancing ecosystem services” 2012 International Top Scientists Wuhan Forum on Sustainable Agricultural Use of Wetlands, Jingzhou, Hubei Province, China
- \*June 18, 2012 “River and wetland restoration: Applying ecological engineering principles” Society of Wetland Scientists European meeting/conference, University of Århus, Århus, Denmark
- June 4, 2012 “Carbon Export and Budget of Created Wetlands: Importance of Hydrology” INTECOL Wetland Conference, Orlando, Florida
- June 4, 2012 “Identification and Enhancement of the Ecosystem Services from Created and Restored Wetlands: Olentangy River Wetlands to the Florida Everglades to the Planet” INTECOL Wetland Conference, Orlando, Florida
- \*March 23, 2012 "Ecological engineering of the best kind: Creation and restoration of wetlands, rivers, and estuaries" Society of Ecological Restoration (SER) regional conference "Restoration on the Edge." Brooklyn College, City University of New York, Brooklyn, New York.



- \*March 21, 2012 "Creation and restoration of wetlands for watershed improvement" Wetland Governance Workshop, University of Waterloo, Waterloo, Ontario.
- \*January 23, 2012 "Ecological engineering and wetland creation, restoration and self-design" Institute of Ecology, Xalapa, Veracruz, Mexico
- \*January 19, 2012 "Ecological engineering" Science and Society, Mexican Academy of Sciences Annual Meeting, Mexico City, Mexico

## **2011**

- \*November 18, 2011 "Creating and restoring research and teaching wetlands in higher education: Accomplishments in Ohio and potential in Florida" Southwestern Florida Water Resources Conference, Naples, Florida
- \*November 8, 2011 "Climate change and Great Lakes wetlands" Webinar Presentation, Ohio Sea Grant, Columbus, Ohio
- \*October 22, 2011 "Making healthy rivers with floodplain wetlands: From the Mississippi-Ohio-Missouri River Basin in Ohio to the Everglades 'River of Grass' in Florida" International Symposium on Conservation and Eco-friendly Utilization of Wetlands in the Three Gorges Reservoir, Chongqing Normal University, Chongqing, China
- \*October 20, 2011 "Making healthy rivers with floodplain wetlands: From the Mississippi-Ohio-Missouri River Basin in Ohio to the Everglades 'River of Grass' in Florida" 2nd Conference on Healthy Rivers and Sustainable Water Resource Management, Chongqing, China
- \*September 29, 2011 "Identification and enhancement of ecosystem services from created and restored wetlands: Olentangy River Wetlands to the Florida Everglades to the Planet" School of Environment and Natural Resources 2011 Seminar Series, The Ohio State University, Columbus
- \*September 12, 2011 "Creating Wetlands: 17 years of primary succession, water quality changes, and self-design" Soil and Water Science Distinguished Seminar, University of Florida, Gainesville
- \*August 25, 2011 "Coping with catastrophic changes – building long term resilience" Stockholm Water Prize Seminar Panel in the Presence and Honour of H.M. the King of Sweden, World Water Week, Stockholm, Sweden
- \*August 19, 2011 "Wetlands - A significant global sink of carbon?" International Association for Landscape Ecology (IAEL) 8<sup>th</sup> IAEL World Congress, Beijing, China
- \*July 4, 2011 "Seventeen years of primary succession of created riverine wetlands" Society of Wetland Scientists 32nd Annual Meeting, Prague, Czech Republic
- \*July 4, 2011 "Opportunities for research at Ramsar wetland sites and for Ramsar wetlands at research sites" Society of Wetland Scientists 32nd Annual Meeting, Prague, Czech Republic
- \*June 8, 2011 "Regulating services of nature: Identification and enhancement of ecosystem services from created and restored wetlands. Keynote lecture, Ecosystem Services in Soil and Water Research; Focus on Soils and Water Symposium, Swedish University of Agricultural Sciences, Uppsala, Sweden.
- \*May 23, 2011 "Creating and restoring wetlands as carbon sinks" American Ecological Engineering Society, Plenary Presentation, Asheville, North Carolina
- \*May 6, 2011 "Creating Wetlands--A 15 year study in self-design" Invited presentation, Nanjing Forestry University, Nanjing, China
- \*May 5, 2011 "Wetland eco-engineering: Experience and lessons around the world" Invited presentation, Nanjing Forestry University, Nanjing, China
- \*March 15, 2011 "Wetland eco-engineering: Experience and lessons around the world" Invited presentation, City Hall, Hefei, China

## 2010

- \*November 17, 2010 "Creating wetlands: A 15-year experiment in self-design" Environmental Center, NJ Meadowlands Commission, Lyndhurst, New Jersey
- \*November 16, 2010 "Wetlands as the lost carbon sink?" First Annual Daniel C. Wilhoft Lecture in Ecology and Evolution, Rutgers University, Newark, New Jersey
- November 10, 2010 "Restoring the Florida Everglades" Olentangy River Wetland Research Park Wednesday Afternoon Seminar, The Ohio State University, Columbus
- \*October 15, 2010 "Creating wetlands: A 15-year experiment in self-design" Environmental Science Graduate Program Seminar Series, The Ohio State University, Columbus
- \*September 13, 2010 "Environmental Science & Technology--where can University of Maryland go" Environmental Science and Technology Department, College Park, Maryland
- \*September 9, 2010 "Water Future Challenges – How Can Science Contribute? The Global Perspective" Stockholm Water Prize Seminar in the Presence and Honour of H.M. the King of Sweden
- \*September 8, 2010 "A new future for public water supply management?" Stockholm Water Prize Laureates Seminar – 20 years of water management experiences and what will come thereafter? KTH, Stockholm, Sweden
- \*September 7, 2010 "Pollution control, carbon sequestration, and other ecosystem services of wetlands" EkoKlim symposium by Stockholm Water Prize Laureates, Royal Swedish Academy of Sciences, Stockholm, Sweden
- \*August 26, 2010 "Ecosystem services of wetlands in an energy-limited future" Inter-American Network of Academies of Science (IANAS) Conference, Ottawa, Canada
- August 6, 2010 "Creating wetlands: A 15-year experiment in self-design" Ecological Society of America Annual Meeting, Pittsburgh, PA
- \*July 16, 2010 "Wetlands as the lost carbon sink?" Guangxi Institute of Botany, Chinese Academy of Sciences, Guilin, China
- \*July 12, 2010 "Saving the planet in an energy-limited future" Wuhan University and Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China
- \*July 6, 2010 "Wetlands as the lost carbon sink?" Shanghai Chongming Eco-Island International Forum, Shanghai, China
- \*July 5, 2010 "Saving the planet in an energy-limited future" Einstein Professorship Lecture, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China
- \*July 3, 2010 "Ohio State University's Ramsar Wetland of International Importance: Creating wetlands for teaching, research, urban ecotourism and saving the planet" International Workshop on Low-Carbon and Eco-Health of Residential Area Development, Haikou, China
- \*June 18, 2010 "Ohio State University's Ramsar Wetland of International Importance: Creating wetlands for teaching, research, urban ecotourism and saving the planet" Cixi Wetland International Workshop, Cixi, Hangzhou Bay, China
- \*May 7, 2010 "Creating wetlands: A 15-year experiment in self design" Food, Agricultural, and Biological Engineering Department, The Ohio State University
- \*April 8, 2010 "Ecological engineering: Restoring balance in the landscape" Greening the Community, 28<sup>th</sup> national meeting, Beyond Pesticides, Case Western Reserve University, Cleveland, Ohio
- \*April 7, 2010 "Wetlands as the lost carbon sink?" Department of Geography Colloquium Series Seminar, The Ohio State University, Columbus
- \*March 2, 2010 "Restoring the Mississippi River Basin: Wetlands, rivers, floodplains, and delta" Southern Illinois University Ecology Center Lecture, Carbondale, Illinois

- \*February 24, 2010 “The role of water resources in sustainability: Ecosystem services in riverine settings” Ohio River Basin Water Resources Conference, Columbus, Ohio
- February 4, 2010 “Three Gorges Dam pool in southwestern China: An opportunity for enhancing ecosystem services of new floodplains” Flood pulsed wetlands. Special session presentation, International Symposium, University of Botswana, Maun, Botswana
- \*February 4, 2010 “The role of wetlands in carbon cycling and climate change.” Plenary presentation, Flood pulsed wetlands. International Symposium, University of Botswana, Maun, Botswana

## 2009

- \* December 2, 2009 "Ecological engineering: Its development in an energy-rich society and its future in an energy-limited one" Ecological Engineering: from Concepts to Applications, Paris, France
- \*November 30, 2009 “Global Importance of Wetlands” Tautu University, Estonia
- \*November 6, 2009 "Restoring the Mississippi River Basin: Wetlands, rivers, floodplains, and delta" Nanjing Institute of Geography & Limnology, Nanjing, China
- \*November 4, 2009 “Enhancing ecosystem services of riverine and deltaic wetlands in the world” 13th World Lake Conference, Wuhan, China
- \*August 18, 2009 “Towards an Ecosystem Approach to IWRM (Integrated Water Resource Management) in Transboundary Basins: Status and Prospects—Summary Comments” World Water Week, Stockholm, Sweden
- \* June 30, 2009 “Creating and restoring wetlands: Enhancing ecosystem services” BIOGEOMON 6<sup>th</sup> International Symposium, University of Helsinki, Helsinki, Finland
- \* June 24, 2009 “Securing a Ramsar designation at a wetland research park in Ohio: Optimizing habitat creation, wetland teaching and research, and ecotourism in an urban setting” 30<sup>th</sup> annual meeting, Society of Wetland Scientists, Madison, WI
- \* June 22, 2009 “Tropical wetlands: climate change and carbon” 30<sup>th</sup> annual meeting, Society of Wetland Scientists, Madison, WI
- \*May 23, 2009 “Ecological engineering of floodplains in cities” 2009 International Ecocity Forum, Huaibei, Anhui Province, China
- \*May 13, 2009 “Denitrification in wetlands: An ecological perspective” NSF Denitrification RCN Workshop, Coastal Institute, Narragansett Bay Campus, University of Rhode Island, Narragansett, RI
- \*April 24, 2009 “Comparing methane emissions with the carbon accumulation in wetlands” 2009 International Symposium on Aquatic Ecosystem Restoration: The construction and management of wetlands with low greenhouse gas emissions, Yonsei University, Seoul, Korea
- \*April 7, 2009 “Creating and restoring wetlands in the Mississippi River Basin” University of Delaware College of Marine Science and Environmental Studies, Lewes, Delaware
- \*March 19, 2009 “Restoring the Mississippi River Basin: Wetlands, rivers, floodplains, and delta” Water Institute Presentation, University of Florida, Gainesville, Florida
- \*March 12, 2009 “Restoring the Mississippi River Basin: Wetlands, rivers, floodplains, and delta” Keynote Address, Emiquon Field Station Annual Meeting, The Nature Conservancy and University of Illinois, Lewistown, Illinois
- \* March 4, 2009 “Protecting New Orleans from Hurricanes and Restoring the Ecosystem Functions of Wetlands’ Science Cafe, sponsored by OSU Chapter of Sigma Xi and OSU Library, South Campus Gateway, Columbus, Ohio
- \*February 10, 2009 “Climate change and tropical wetlands” Special seminar, Paz con La Naturaleza, Centro Nacional de Alta Tecnologia, San Jose Costa Rica

- \* February 6, 2009 “Tropical wetlands: Climate change and carbon” Seminars El Cambio Climático y Los Humedales Tropicales, EARTH University, Costa Rica
- \* January 22, 2009 “Ecological Engineering: Saving the Planet with Sustainable Engineering” Chemical and Biomolecular Engineering Department, The Ohio State University

## **2008**

- \* October 29, 2008 “Creation and Restoration of a Ramsar Urban Wetland Research Park” Senior Forum on City Landscaping and Sustainable Development, Beijing, China
- \* October 27, 2008 “Creating and restoring wetlands in the Mississippi River Basin—nutrient retention and climate change implications. Capital Normal University lecture, Beijing, China
- \* October 17, 2008 “Wetlands and river restoration: The big picture and the Olentangy picture. Olentangy River Forum, Delaware, Ohio
- \* July 24, 2008 “Reconnecting rivers and floodplains: The effectiveness of river diversions on water quality and other ecosystem services” 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil.
- \* July 22, 2008 “Restoring the Mississippi River Basin and Delta” 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil.
- \* June 30, 2008 “Creating and restoring wetlands in the Mississippi River Basin/Climate Change in Wetlands” Forum on Key Technologies of Ecological Restoration for Wetlands, East China Normal University, Shanghai, China
- \* May 28, 2008 “Wetland definitions” In Panel Discussion on Revisiting the 1995 National Academy Wetlands Characterization, 29<sup>th</sup> annual meeting, Society of Wetland Scientists, Washington, DC
- \* May 27, 2008 “Climate change and wetlands” In SER Panel Discussion on Climate Change and the Future of Wetland Restoration, 29<sup>th</sup> annual meeting, Society of Wetland Scientists, Washington, DC
- May 27, 2008 “Hydrologic pulsing and riparian freshwater wetlands” 29<sup>th</sup> annual meeting, Society of Wetland Scientists, Washington, DC
- \* May 19, 2008 “Ecological engineering and floodplain management” Invited presentation, International Conference on Ecohydrological Processes and Sustainable Floodplain Management, Łódź, Poland.
- \* April 17, 2008 “Wetlands of the world: Functions, values, and university education” Keynote presentation, The Value of Wetlands Workshop, Agricultural University of Iceland
- \* April 3, 2008 “Creating and restoring wetlands: Form vs. function” Plenary presentation, ASCE Wetlands Regulatory Workshop, Rice University, Houston, Texas

## **2007**

- \* October 12, 2007 “Olentangy River Wetland Research Park—A Field Lecture” Environmental Science Graduate Program, The Ohio State University, Columbus.
- \* September 17, 2007 “Restoration of coastal and riverine wetlands” Plenary presentation, 2<sup>nd</sup> International Conference on Wetland Pollutant Dynamics and Control (WETPOL), University of Tartu, Tartu, Estonia
- \* June 12, 2007 Tropical wetlands: Seasons, hydrologic pulsing and biogeochemistry, Society of Wetland Scientists 28<sup>th</sup> Annual Meeting, Sacramento, CA
- \* June 5, 2007 Wetland Research at Ohio State University’s Olentangy River Wetland Research Park” Ewha Women University, Seoul, Korea
- \* June 4, 2007 “Ecological engineering—Its promise, past, present, and future” Korea University, Seoul, Korea

- \*May 30, 2007 “Wetland research at Ohio State University’s campus and around the world” Nanjing Normal University, Nanjing, China
- \*May 29, 2007 “Ecological Engineering of wetlands: C.H. Chung’s legacy and the future of wetland restoration and engineering. Plenary Presentation, Nanjing University, Nanjing, China
- \*May 25, 2007 “Ecological engineering—Its promise, principles, and progress” China Agricultural University, Beijing, China
- \*May 24, 2007 “Ecological engineering—Its promise, principles, and progress” EcoSummit Plenary Presentation, Beijing, China
- May 3, 2007 “Ecology and management of a double-pulsing wetland: The Okavango in Botswana” School of Environment and Natural Resources, The Ohio State University, Columbus
- \*February 6, 2007 “Wetland creation and self-design” Department of Biology, University of Botswana, Gaborone, Botswana
- \*January 21, 2007 “Wetland creation, water quality, and self-design” Harry Oppenheimer Okavango Research Centre, Maun, Botswana

## **2006**

- \*December 12, 2006 “Restoring wetlands in the Mississippi-Ohio-Missouri Basin: A solution to the Gulf of Mexico hypoxia” 3rd National Conference on Coastal and Estuarine Habitat Restoration, New Orleans, LA
- \*December 11, 2006 “Why a natural systems approach to estuarine restoration works” 3rd National Conference on Coastal and Estuarine Habitat Restoration, New Orleans, LA
- November 9, 2006 “Importance of hydrologic pulsing on the water quality function of wetlands in Midwestern USA” American Water Resources Association Annual Meeting, Baltimore, MD
- \* October 12, 2006 “Restoration of watersheds using wetlands” Southeast Ohio Water Environment Association Annual Meeting, Columbus, OH
- \* September 19, 2006 “Wetland ecology and restoration: Applications of self-design” American Water Resources Association Wetland Restoration Dialogue, Ft. Lauderdale, FL
- \* September 6, 2006 “Putting Back the Floodplains and Wetlands of the Mississippi-Ohio-Missouri (MOM) Watershed and its Delta: The Nation’s Greatest Restoration Project” Ohio Chapter Soil and Water Conservation Annual Meeting, Columbus, OH
- \* August 24, 2006 “Ecological and social complexity in restoring water resources; Coastal Louisiana, the Mississippi River Basin, and Mesopotamia” Stockholm Water Prize Laureates’ Seminar, 2006 World Water Week Conference, Stockholm, Sweden
- \* July 22, 2006 “Effects of macrophyte introduction and hydrologic pulsing on created experimental wetlands in Ohio USA” State Key Lab of Estuarine and Coastal Research, East China Normal University, Shanghai, China
- \* July 21, 2006 “Restoring wetlands in the world: What needs to be done” State Key Lab of Estuarine and Coastal Research, East China Normal University, Shanghai, China
- \* July 17, 2006 “Restoring and conserving wetlands and watersheds in the world: What needs to be done” Biology Department, Nanjing University, Nanjing, China
- \* May 4, 2006 “Wetland creation and restoration in an urban environment” Urban Landscape Ecology Program lecture, OARDC, Ohio State University, Wooster, OH
- \* April 28, 2006 “Wetlands and Complex Water Resource Problems: Creating a sustainable coastal Louisiana, Mississippi River Basin, and Mesopotamia” Cleveland Council on World Affairs Workshop for U.S. State Department International Visitors, Cleveland State University, Cleveland, OH

- \* March 21, 2006 “Wetland research in Costa Rica: Collaboration with EARTH University” EARTH University, Costa Rica
- \* March 2, 2006 “Ecological and social complexity in restoring coastal Louisiana, the Mississippi River Basin, and Mesopotamia” Sustainable Systems Symposium, College of Engineering, The Ohio State University
- \* February 23, 2006 “Restoring wetlands in coastal Louisiana (post-Katrina), the Mississippi River Basin, and Mesopotamia: What needs to be done.” School of Public and Environmental Affairs, Indiana University, Bloomington, IN
- \* February 10, 2006 “Creating campus riverine wetlands: Bringing wetlands to the students rather than students to the wetlands” Biology Department, University of Wisconsin-Milwaukee, WI
- \* February 9, 2006 “Restoring wetlands in coastal Louisiana (post-Katrina), the Mississippi River Basin, and Mesopotamia: What needs to be done” Recent Advances in Limnology and Oceanography Seminar Series, Great Lakes Water Institute, University of Wisconsin-Milwaukee, WI
- \* February 6, 2006 “Importance of hydrologic pulsing on water quality function of wetlands” CSREES National Water Conference, San Antonio, TX
- \* January 28, 2006 “Restoration of the world’s wetlands.” Plenary lecture, International Symposium on Wetland Restoration 2006, Otsu, Shiga, Japan

## **2005**

- \* October 27, 2005 “Using science to conserve and restore the world’s wetlands” 2005-06 Ashland University Environmental Lecture Series, Ashland University, Ashland, OH
- \* October 14, 2005 “Restoration of the Mississippi River Basin” Woods Hole Oceanographic Institute, Woods Hole, Massachusetts
- \* October 6, 2005 “Restoring and creating wetlands in coastal Louisiana (post-Katrina), the Mississippi River Basin, and Mesopotamia” CIRIT Lecture, Ohio State University, Columbus
- \* October 5, 2005 “The use of restored and created wetlands in the Mississippi-Ohio-Missouri Basin for water quality improvement and environmental enhancement. Mississippi River Basin Nutrients Science Workshop, St. Louis, MO
- \* September 15, 2005 “Conservation, restoration and creation of wetlands: A global perspective” Plenary lecture, The World Conference on Ecological Restoration, Society for Ecological Restoration International, Zaragoza, Spain
- \* August 11, 2005 “Creating riverine wetlands: Indicators of ecological succession, nutrient retention, and pulsing effects” 90<sup>th</sup> Annual Meeting, The Ecological Society of America and IX International Congress of Ecology, Montreal, Quebec, Canada
- May 18, 2005 “Nitrate-nitrogen retention by wetlands in the Mississippi River Basin” American Ecological Engineering Society (AEES) 5<sup>th</sup> annual conference, Ohio State University, Columbus
- \* May 18, 2005 “Applying science to conservation and restoration of the world's wetlands” Plenary lecture, American Ecological Engineering Society (AEES) 5<sup>th</sup> annual conference, Ohio State University, Columbus
- \* May 6, 2005 “Wetland laws and protection and restoration of the world’s wetlands” Ohio Coastal Training Program, Ohio Department of Natural Resources, Sandusky, OH
- \* April 24, 2005 “Modelling and management of wetlands and shallow lakes” Plenary lecture, International symposium on the eutrophication process and control in large shallow lakes, Nanjing, China.

- \*March 30, 2005 “Wetland restoration and creation: Using mother nature, father time, and whole-ecosystem studies” Workshop on accelerated recovery of nutrient impacted regions of the Everglades, South Florida Water Management District, West Palm Beach, FL
- \*March 14, 2005 “Wetlands and water quality at EARTH University in the Rio Parismina basin, Costa Rica” Joint OSU/EARTH University Workshop, EARTH University, Costa Rica
- \*February 9, 2005 “Wetland creation and education in an urban environment” Joint Symposium by Society for Rangeland Management (SRM)/Society of Wetland Scientists/Society of Ecological Restoration at 2005 SRM Annual Meeting, Ft. Worth, TX
- \*January 26, 2005 “Comment créer de nouveaux écosystèmes fonctionnels: le cas des zones humides” (presented in English), International Conference on Biodiversity: Science and Governance, Paris, France
- \*January 17, 2005 “Applying science to conservation and restoration of the world's wetlands” Rotary Club of Columbus, Columbus, OH
- \*January 13, 2005 “Applying science to conservation and restoration of the world's wetlands” School of Natural Resources, The Ohio State University, Columbus

## **2004**

- \*November 12, 2004 “Applying science to conservation and restoration of the world's wetlands” Invited guest lecture, University of Notre Dame, Notre Dame, IN
- \*November 11, 2004 “Applying science to conservation and restoration of the world's wetlands” Invited guest lecture, Michigan State University, East Lansing, MI
- \*November 1, 2004 “Wetland research and teaching at Buckeye Swamp at Ohio State University” University Women’s Club Luncheon, Ohio State University, Columbus.
- \*October 6, 2004 “Importance of wetlands” Water Management Association of Ohio 33<sup>rd</sup> Annual Fall Conference, Columbus, OH
- \*October 4, 2004 Plenary Lecture “Enhancing the role of nature for protecting our water resources” Water Environment Federation Annual Meeting WEFTEC, New Orleans, LA
- \*September 13, 2004 KEYNOTE “The genesis of ecological engineering: Opportunities and concerns” American Society of Agricultural Engineers Annual Meeting, St. Paul, MN
- \*September 3, 2004 “Ecological engineering: Creating and constructing nature with Sven Erik Jørgensen” Mini-Symposium on the retirement of Sven Erik Jørgensen, The Danish University of Pharmaceutical Sciences, Copenhagen, Denmark
- \*August 19, 2004. Stockholm Water Prize Banquet Address to King Carl XIV Gustaf and Queen Sylvia of Sweden, Stockholm Water Prize Ceremony, City Hall, Stockholm, Sweden
- \*August 17, 2004 “Advice for Junior Water Prize Finalists”, World Water Week Conference, Stockholm, Sweden
- \*August 16, 2004 “Applying science to conservation and restoration of the world's wetlands” 2004 Stockholm Water Prize Lecture, 14<sup>th</sup> Stockholm Water Symposium, Stockholm, Sweden
- \*August 4, 2004 “Restoration and self-design of wetlands in coastal landscapes” Shanghai, China
- \*July 29, 2004 “Riverine created wetlands: Ecological succession, nutrient retention and effects of pulsing” 7<sup>th</sup> INTECOL International Wetlands Conference, Utrecht, The Netherlands
- \*July 27, 2004 “Restoration of the Mississippi-Ohio-Missouri (MOM) as a solution to the Gulf of Mexico hypoxia” 7<sup>th</sup> INTECOL International Wetlands Conference, Utrecht, The Netherlands
- \*June 25, 2004 “Wetland utilization in the world: Protecting sustainable use” EARTH University, Costa Rica

- \*June 17, 2004 “Nitrate-nitrogen retention by wetlands in the Mississippi River Basin” American Society of Limnology and Oceanography Summer Meeting, Savannah, Georgia
- \*June 8, 2004 “History and principles of ecological engineering” International Conference on Prospects of Ecological Engineering in Research, Education, and Practice, Magdeburg, Germany (presented by video link to Germany)
- \*April 22, 2004 “Creating and restoring wetlands: Lessons learned” School of Coast and Environment, Louisiana State University, Baton Rouge
- \*March 17, 2004 “Restoration of America’s breadbasket to solve the Gulf of Mexico hypoxia: General principles and the potential of wetlands” Workshop on Ecological Restoration of the Mississippi-Ohio-Missouri (MOM) Basin: Identifying Research Needs, Louisiana State University, Baton Rouge
- \*March 4, 2004 “The Olentangy River Wetland Research Park at Ohio State University: Bringing research wetlands to the students” Invited seminar, Columbus Horticultural Society, Columbus, OH
- \*February 13, 2004 KEYNOTE “Ecological engineering and ecosystem restoration: History, definitions, and principles” 2004 International Conference on Ecological Engineering & Technology, Taipei, Taiwan
- \*February 4, 2004 “Nitrate-nitrogen retention by wetlands in the Mississippi River Basin” North-South Mississippi River Basin Workshop, Sand County Foundation, New Orleans, LA

## **2003**

- \* November 7, 2003 “You can’t restore the estuary if you don’t fix the watershed” US EPA State and Tribal Wetlands Grants Meeting and Technical Training, Hyatt on Capitol Square, Columbus OH
- \*October 22, 2003 “You can’t restore the estuary if you don’t fix the watershed: Downstream and local benefits of wetland restoration in the Midwest” Workshop on Ecological Restoration of the Mississippi-Ohio-Missouri (MOM) Basin: Identifying Research Needs, The Ohio State University, Columbus
- \*October 17, 2003 “Creating and restoring wetlands” 10<sup>th</sup> Annual National Tree Farm Convention, Easton, OH
- \*October 9, 2003 KEYNOTE “Urban wetlands and large-scale wetland restoration: Lessons learned” Meadowlands Symposium, Rutgers University and New Jersey Meadowlands Commission, Lyndhurst, NJ
- \*September 18, 2003 “You can’t restore the estuary if you don’t fix the watershed: A case study of the Mississippi River Basin” Invited presentation, Estuarine Research Federation 2003 Conference, Seattle, WA
- \*September 12, 2003 KEYNOTE “Restoring the Mississippi River Basin with Wet Lands: Local and Gulf of Mexico Benefits.” Workshop on Constructed Wetlands: Buffers for Human Activities. Purdue University, West Lafayette, IN
- \*August 13, 2003 “Restoring the Mississippi River Basin with Wet Lands: Local and Gulf of Mexico Benefits.” Invited seminar, US Environmental Protection Agency, Cincinnati, OH
- June 13, 2003 “Whole ecosystem experiments in wetland ecology— self design, ecosystem engineering, and the legacy of H.T. Odum.” Society of Wetland Scientists, 24<sup>th</sup> Annual Meeting, New Orleans, LA
- \*May 28, 2003 “Ecological engineering President’s Address” American Ecological Engineering Society, 3<sup>rd</sup> annual meeting, University of Maryland, College Park, MD



- May 15, 2003 “Restoring the Mississippi River Basin with 10 million hectares of wet lands” 2003 Wetlands Invitational, Olentangy River Wetland Research Park, Ohio State University, Columbus
- \*May 7, 2003 “Restoring the Mississippi River Basin with Wet Lands: Local and Gulf of Mexico Benefits” Denison University Water Resource Symposium, OH
  - \*April 3, 2003 “The Olentangy River Wetland Research Park: Bringing research wetlands to the students. University of Wisconsin, Madison, WI.
  - \*March 29, 2003 “Creating and restoring wetlands: What we have learned in a decade at the Olentangy River Wetland Research Park” Tau Beta Symposium, Shawnee State University, Portsmouth, OH.

## **2002**

- \* December 6, 2002 “Wetland monitoring and global change” panel presentation, University of Botswana/USAID EDDI Wetlands Conference Environmental Monitoring of Tropical Wetlands, Maun, Botswana
- \*December 5, 2002 KEYNOTE “Wetland utilisation in the world: Protecting sustainable use” Keynote address, University of Botswana/USAID EDDI Wetlands Conference Environmental Monitoring of Tropical Wetlands, Maun, Botswana
- \*October 17, 2002 KEYNOTE “Wetlands, wetland values and our national wetland policy” Canaan Valley Institute Annual Meeting, Canaan Valley, WV
- \*October 16, 2002 KEYNOTE “Using wetland restoration to achieve improvements downstream: Wetland restoration in the Mississippi River Basin and the Gulf Hypoxia” Keynote address, Hypoxia Task Force Meeting on Monitoring and Research, St. Louis, MO
- \*October 7, 2002 “Utilizing wetland restoration to achieve improvements down river: Wetland restoration in the Mississippi River Basin and the Gulf of Mexico” plenary presentation, National Wetland Restoration Conference, Association of Wetland Management, Indianapolis, IN
- \* September 12, 2002 “Development of macrophyte communities and subsequent ecosystem function in two created wetlands: a whole-ecosystem experiment” Plenary presentation, International Wetland Symposium, Nanjing, China
- \*August 20, 2002 “Experimenting with coal combustion products as wetland treatment liners” Ohio DNRN Conference, Ohio Department of Natural Resources, Athens, OH
- \*June 13, 2002 “Linking catchment processes in the Mississippi River to ecological conditions in the Gulf of Mexico” Seminar—Integration of Scales in Landscape Ecology. University of Utrecht, The Netherlands
- \*April 29, 2002 President’s address: “Ecological engineering development in North America: The progress of AEES” American Ecological Engineering Society Annual Meeting, Burlington, VT
- \* April 25, 2002 “The importance of wetlands, wetland restoration, and good wetland policy. Luncheon seminar, Battelle Research Institute, Columbus, OH
- \*April 17, 2002 KEYNOTE “National wetland mitigation policy and science: Where is it going?” New York State Wetland Forum 2002 Annual Conference, Syracuse, NY
- \* February 18, 2002 “Reducing nitrogen loading to Gulf of Mexico: Large-scale strategies to counter a persistent ecological problem. Ag Retirees of Ohio State University, Columbus, OH
- \* February 8, 2002 “Solving the problem of hypoxia” Federal Hypoxia Task Force Meeting, St. Louis, MO

## **2001**

- \* December 10, 2001 “Reducing nitrogen loading to the Gulf of Mexico: Large-scale strategies to counter a persistent ecological problem. Invited presentation, PEW Oceans Commission Hearing, Des Moines, IA
- \* November 27, 2001 “Ecological engineering and our higher education system” Ecological Engineering International Conference, Lincoln College, Christchurch, New Zealand
- \* November 26, 2001 "Ecological engineering - a field whose time has come." Plenary talk, Ecological Engineering International Conference, Lincoln College, Christchurch, New Zealand
- \* November 23, 2001 “Creating and sustaining urban wetlands” Christchurch City Council--Special seminar, Christchurch, New Zealand
- \* November 19, 2001 "A whole-ecosystem, long-term wetland experiment: The effects of macrophyte planting and community diversity on ecosystem function" Ecocentre, Faculty of Environmental Sciences, Griffith University, Nathan, Queensland, Australia.
- \* November 16, 2001 Wetland creation and restoration: Investigating loss and restoring large-scale landscape. Wetland Care Australia, The Second National Wetlands Conference, South Stradbroke Island, Brisbane, Australia.
- \* October 30, 2001. “Reducing nitrogen loading to coastal waters” Climate Change and Environmental Research Institute Seminar, Columbus, OH
- \* October 8, 2001 “Wetlands for reducing nitrogen loading to the Gulf of Mexico”. Summit on Reducing Nutrient Inflow to Coastal Waters, University of Maryland, Wye, MD
  - \* October 1, 2001. “Reducing nitrogen loading to the Gulf of Mexico from the Mississippi River Basin: Strategies to counter a persistent ecological problem. USACOE Mississippi/Ohio Basin Meeting, Rand Lake, IL
- \* September 6, 2001 “Wetland creation and restoration: Mitigating wetland loss and restoring large-scale landscapes” University of Akron, Akron, OH
- \* August 23, 2001 “The Gulf of Mexico Hypoxia” C-SPAN, Rivers Unlimited, Washington, DC.
- \* July 19, 2001 “The Dead Zone: Direct effects of land use on watershed health.” Ducks Unlimited Meeting, Washington, DC.
- \* July 11, 2001. “Pre-restoration studies of the Upper Big Darby Watershed.” Darby Watershed Conference, Suburban Columbus, OH
- \* July 1, 2001 “Wetland creation and restoration on an ecosystem and landscape scale: Examples from the USA.” Plenary Address, International Association of Landscape Ecology, University of Stockholm, Stockholm, Sweden
- May 31, 2001 “Diversity or horsepower? A whole-ecosystem, long-term wetland experiment illustrates surprising effects of community diversity on ecosystem function” Society of Wetland Scientists Annual Meeting, Chicago, IL
- \* May 18, 2001 “Self-design: The ecological solution to wetland creation and restoration success” 2nd Annual Ballona Wetland Symposium, Ballona Wetland Foundation, Loyola Marymount University, Los Angeles, CA
- \* May 1, 2001 “Ecological engineering: a marriage of ecology and engineering” First Annual American Ecological Engineering Society Meeting, Athens, GA
- \* April 5, 2001 “Solutions in the Mississippi River Basin to the Gulf of Mexico hypoxia—Agronomic and ecological. 2001 OARDC Annual Conference, Hypoxia in the Gulf of Mexico: Contributions and Solutions from Ohio, Columbus, OH
- \* March 7, 2001 “A whole-ecosystem, long-term wetland experiment: The effects of macrophyte planting and community diversity on ecosystem function” Statistics Department Seminar, The Ohio State University, Columbus, OH

- \*February 16, 2001 “Saving the Planet in our own Backyard: The Olentangy River Wetland Research Park” Environmental Science Graduate Program Seminar, The Ohio State University
- \* February 2, 2001 “Saving the Planet in our own Backyard: Building for the Future at the Olentangy River Wetland Research Park” World Wetland Day Event, Ohio State University Development Luncheon, Columbus, OH
- \* January 27, 2001 “Saving the Planet in our own Backyard: Building for the Future at the Olentangy River Wetland Research Park” Winter College, Naples, FL
- \* January 25, 2001 “Ecological Engineering: Enhancing Nature’s Services” American Society of Civil Engineering, Cleveland Chapter meeting, Cleveland, OH

## **2000**

- \* November 13, 2000 “Wetland and watershed restoration: What the new millennium will bring” plenary talk, 7th International Conference on Wetland Systems for Water Pollution Control, Lake Buena Vista, FL
- \* November 10, 2000 “Restoring Watersheds and Wetlands: Ecological Engineering in the 21st Century” The Stockholm Seminars: Frontiers in Sustainability Science and Policy, Swedish Academy of Sciences, Stockholm, Sweden
- \* October 12, 2000 “Strategies for reducing nutrient inputs to the Gulf of Mexico from the Mississippi River Basin” Symposium on Nutrient Over-enrichment of Coastal Waters, National Academy of Sciences, Washington, DC
- \* September 29, 2000 “Wetland and watershed restoration: What the new millennium will bring” Graduate Seminar Series, Department of Civil and Environmental Engineering, University of Vermont, Burlington
- \* August 11, 2000 “Wastewater and nonpoint source treatment with wetlands: Ecosystem services in the watershed” SWS Invited Symposium, Millennium Wetland Event, Quebec City, Quebec, Canada
- \* August 11, 2000 “Carbon sequestration, climate change, and wetland restoration” SWS Invited Symposium, Millennium Wetland Event, Quebec City, Quebec, Canada
- \* August 10, 2000 “The effects of wetland structure on water quality and water quality on wetland structure: Experiments with freshwater marshes” INTECOL Invited Symposium, Millennium Wetland Event, Quebec City, Quebec, Canada
- \* August 8, 2000 “Wetland and watershed restoration: What the new millennium will bring” INTECOL Invited Symposium, Millennium Wetland Event, Quebec City, Quebec, Canada
- \* May 17, 2000 “Ecology, eco-technology and eco-enthusiasm at an urban wetland field station” 1st Annual Ballona Wetlands Symposium, Los Angeles, CA
- \* April 18, 2000 “Creation and restoration of wetlands: Ecosystem experiments with riparian wetlands and solving coastal hypoxia.” Department of Biological Sciences, University of Notre Dame, Notre Dame, IN
- \* March 31, 2000 “What is at stake with ecological restoration?” Symposium on Recréation de Zones Humides: L’Apport Écologique des Carrières, Paris, France
- \* February 19, 2000 “Creation and restoration of wetlands” AAAS Annual Meeting, Washington, DC

## **1999**

- \* December 9, 1999 “Wetland and watershed restoration: Examples from the USA” Mighty River Power, Ltd., Hamilton, New Zealand
- \*December 6, 1999 “Wetland and watershed restoration: Examples from the USA” National Institute of Water and Atmospheric Research Ltd., Christchurch, New Zealand

- \* November 29, 1999 “Wetland and watershed restoration— what the new millennium will bring. Plenary keynote lecture, New Zealand Limnological Society and Australian Society of Limnology Joint Annual Conference, Taupo, New Zealand
- November 29, 1999. “A whole-ecosystem experiment in wetland self-design. New Zealand Limnological Society and Australian Society of Limnology Joint Annual Conference, Taupo, New Zealand
- \* November 16, 1999. “Solving inland and coastal pollution with wetlands. Plenary keynote lecture, Wetland Restoration and Remediation Meeting, Salt Lake City, UT
- November 10, 1999 “The Gulf of Mexico Hypoxia: Solving a persistent large-scale ecological problem by restoring the Mississippi River Basin” Environmental Science Graduate Program Seminar, The Ohio State University, Columbus, OH
- \* November 3, 1999 “Ecological Engineering: Enhancing Nature’s Services” Plenary keynote lecture, Wetlands for Wastewater Treatment Conference, Baltimore, MD
- October 28, 1999 “Creating and restoring wetlands: What we have learned at Ohio State University’s ‘Buckeye Swamp’” School of Natural Resources Seminar, The Ohio State University, Columbus, OH
- October 13, 1999 “Use of FGD byproduct as liners for wetlands” Pittsburgh Coal Conference, Pittsburgh, PA
- \*September 13, 1999 “The Gulf of Mexico Hypoxia: Solving a persistent large-scale ecological problem by restoring the Mississippi River Basin” Water Resources Center Lecture, University of Illinois, Champaign, IL
- \* September 13, 1999 “Creating and restoring wetlands: What we have learned at Ohio State University’s ‘Buckeye Swamp’” University of Illinois, Champaign, IL
- \* July 12, 1999 “Solving Inland and Coastal Nutrient Enrichment with Restored and Created Wetlands in the Midwest” 4th Annual Wetland Biogeochemistry Symposium, Ft. Lauderdale, FL
- \* July 1, 1999 “Reducing nutrient loads, especially nitrate-nitrogen to surface water, groundwater, and the Gulf of Mexico ” CENRS 4th Meeting of the Mississippi River/Gulf of Mexico Watershed Nutrient Task Force, Memphis, TN
- \* June 10, 1999 “Long-term effects of planting on ecosystem functioning of created wetlands” Society of Wetland Scientists Annual Meeting, Norfolk, VA
- \* June 8, 1999 “Constructed wetlands in cold temperate climates” International Ecological Engineering Meeting, As, Norway
- \* April 26, 1999 “Wetlands: The land-lake interface” Lake Erie at the Millennium—Changes, Trends, and Trajectories, Binational Conference, Windsor, ON
- \* April 23, 1999 “Restoring the natural hydrology of wetlands in the Great Lakes” 2nd Annual Conference on Great Lakes Law, Science, and Policy, Toledo, OH
- \* April 22, 1999 “Mitigating the effects of greenhouse gas emissions: Principles and paradoxes” 20th Anniversary Conference: Finding Solutions to Global Climate Change, Vermont Law School, Royalton, VT
- \* April 15, 1999 “Long-term research at the Olentangy River Wetland Research Park” School of Natural Resources, The Ohio State University, Columbus, OH
- \* April 15, 1999 “Mitigating power plant impacts with wetland creation and restoration” EPRI Power Generation Impacts on Aquatic Resources Conference, Atlanta, GA
- \* April 12, 1999 “Ecological engineering: Enhancing nature's services” Department of Environmental Engineering Sciences, University of Florida, Gainesville, FL

- \* February 25, 1999 “Hypoxia in the Gulf of Mexico: A landscape analysis” Kenyon College, Biology Spring Seminar Series, Gambier, OH
- \* February 4, 1999 “Wetlands and carbon” National Workshop: Wetlands and Climate Change: Scientific Knowledge and Management Options. Laurel, MD
- \* January 23, 1999 “Reducing nutrients to the Mississippi River and the Gulf of Mexico” AAAS Annual Meeting, Anaheim, CA

## **1998**

- \* November 17, 1998 “Self-design in wetland creation and restoration: Providing habitat and improving water quality in the Mississippi River Basin” Distinguished Visitor Special Research Seminar, University of Oklahoma, Norman, OK
- \* November 7, 1998 “From Lake Alice to Buckeye Swamp—Wetlands as classrooms and laboratories” Center for Wetlands, University of Florida, 25th Anniversary Conference, Gainesville, FL
- \* September 24, 1998 “Methods to reduce nutrient loads to surface the Gulf of Mexico” Third Meeting of the Mississippi River/Gulf of Mexico Watershed Nutrient Task Force, Bloomington, MN
- \* August 10, 1998 “Fringe wetlands of the Laurentian Great lakes: Effects of dikes, water level fluctuations, and climate change” SIL Conference, Dublin, Ireland
- \* July 29, 1998 “Restoration of rivers from upland to the sea: The role of riparian wetlands and buffer zones” SCOPE workshop on Ecological Engineering Applied to River and Wetland Restoration, Museum National d’Histoire Naturelle, Paris, France
- \* July 25, 1998 “Self-design in created wetlands: Relations with biogeochemical processes” VII International Congress on Ecology (INTECOL 98), Florence, Italy
- \* July 24, 1998 “Nutrient removal in a cold-climate constructed wetland: design considerations” VII International Congress on Ecology (INTECOL 98), Florence, Italy
- \* July 22, 1998 “Restoration of heavily damaged ecosystems: Testing the limits of ecological engineering” VII International Congress on Ecology (INTECOL 98), Florence, Italy
- \* June 9, 1998 “Evaluation of methods to reduce nutrient loads to surface water, ground water & the Gulf of Mexico” ASLO/ESA Conference on The Land-Water Interface: Science for a Sustainable Biosphere, St. Louis, MO.
- \* May 7, 1998 “Designing with the energy flow: The ecological approach to engineering” 1998 Odum Lecture, University of Georgia, Athens, GA
- \* April 23, 1998 “Mother Nature and Father Time: Chief contractors in wetland design” Water Resources Center Spring Lecture, Kent State University, Kent, OH
- \* April 20, 1998 “Mother Nature and Father Time: Chief contractors in wetland design” Distinguished Lecture Series, Duke Wetland Center, Duke University, Durham, NC
- \* April 14, 1998 “Ecological engineering: Enhancing nature's services” Department of Biological Services, Stanford University, Stanford, CA
- \* April 8, 1998 “Ecological engineering: Self-design applied to coastal wetland restoration” plenary address International Conference--Concepts and Controversies in Tidal Marsh Ecology, Vineland, NJ
- \* April 4, 1998 “Ecological engineering and ecosystem restoration: Science for the 21st century” plenary speaker, West Virginia Academy of Science 73rd Annual Meeting, Wheeling Jesuit University, Wheeling, WV
- \* January 28, 1998 “Mother Nature and Father Time: Chief contractors in wetland design” School of Forestry and Environmental Studies, Yale University, New Haven, CT

- \*January 14, 1998 “Potential and benefits of large-scale coastal wetland restoration on the Great Lakes” NOAA Workshop of Goal Setting and Success Criteria for Habitat Restoration, Charleston, SC

## **1997**

- \*December 3, 1997 “Ecological engineering: A profession whose time has come” Limno-Tech Environmental Engineers, Ann Arbor, MI
- \*November 20, 1997 “Creating, restoring, and banking wetlands: Advantages and limitations” Water Management Association of Ohio, 26th Annual Meeting, Worthington, OH
- \*November 16, 1997 “The value of wetlands: The importance of landscape setting and scale” Workshop of the Global Wetlands Economics Network (GWEN), Beijer Institute, The Royal Swedish Academy of Sciences, Stockholm, Sweden
- \*November 4, 1997 “The Olentangy River Wetland Research Park at The Ohio State University—A research park and an urban park” National Urban and Community League Annual Meeting, Columbus, OH
- \*October 6, 1997 “Ecological engineering: Enhancing nature's ecological services” University of California, Berkeley, CA
- \*September 26, 1997 “The Olentangy River Wetland Research Park at The Ohio State University—A research park and an urban park” Society of Wetland Scientists North Central Chapter Meeting, Chicago, IL
- \*August 12, 1997 “Ecological engineering: Enhancing nature’s ecological services” Stockholm Water Symposium, Stockholm, Sweden
- \*May 6, 1997 “Can we restore and create wetlands—Recent findings from Midwestern USA” National Wetland Center, National Wetland Research Center, U.S. Geological Survey, Lafayette, LA
- April 25, 1997 “Biosphere 2: A restored research opportunity for ecologists?” Brown Bag Seminar Series, School of Natural Resources, The Ohio State University
- \*April 23, 1997 “The World’s wetlands: Preserving and enhancing their functions” Grace Kimball Memorial Lecture, Wilkes University, Wilkes-Barre, PA
- \*April 17, 1997 “Creating a wetland research facility at The Ohio State University” Environmental Studies Program Seminar, University of Nebraska, Lincoln, NE
- \*April 17, 1997 “Ecological engineering: A profession whose time has come” Department of Biological Systems Engineering, University of Nebraska, Lincoln, NE
- \*April 11, 1997 “Wetland mitigation banking: Scientific and institutional issues” Panel Workshop on Wetland Mitigation Banking: Striking a Balance Between Development and Conservation, 1997 Environmental Management Symposium and Exhibition, School of Public and Environmental Affairs, Indiana University, Bloomington, IN
- \*April 10, 1997 “Progress at Buckeye Swamp: The Olentangy River Wetland Research Park” Seminar, School of Public and Environmental Affairs, Indiana University, Bloomington, IN
- \*March 8, 1997 “Wetland mitigation banking: Scientific and institutional issues” Panel Workshop, Kent College of Law Environmental Symposium, Illinois Institute of Technology, Chicago, IL

## **1996**

- November 22, 1996 “Model of phosphorus retention of Saginaw Bay, Lake Huron” Workshop on Enhancing the Roles of Great Lakes Coastal Wetlands, Columbus, OH
- \*November 19, 1996 “Self design and wetland creation. Early results of a freshwater marsh experiment” University of Delaware Graduate College of Marine Studies, Lewes, DE

- \*October 31, 1996 “Improving water quality with wetlands” Central Ohio Section, American Society of Civil Engineers, Reynoldsburg, OH
- \*October 28, 1996 “Self design and wetland creation. Early results of a freshwater marsh experiment” Water Survey, University of Illinois, Champaign-Urbana, IL
- \*October 7, 1996 “Ecological engineering: Development and comparison of Western and Chinese Approaches” Plenary Address, International Conference on Ecological Engineering, Beijing, China
- \*September 24, 1996 “Wetlands of the world: preserving and enhancing their values” Plenary Address, INTECOL V International Wetlands Conference, Perth, WA, Australia
- \*September 23, 1996 “Self design and wetland creation. Early results of a freshwater marsh experiment” Symposium presentation, INTECOL V International Wetlands Conference, Perth, WA, Australia
- \*September 20, 1996 “Self design and wetland creation. Early results of a freshwater marsh experiment” Murray-Darling Freshwater Research Centre, Albury, NSW, Australia
- \*August 20, 1996 “Ecological engineering: the seven-year itch” Plenary address, Ecological Summit 96, Copenhagen, Denmark
- \*June 20, 1996 “Creation and restoration of freshwater wetlands: Experiments in self-design” Louisiana State University, Center for Coastal, Energy, and Environmental Research, Baton Rouge, LA
- June 10, 1996 “Tertiary treatment of wastewater with a constructed wetland” Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
- June 11, 1996 “The Olentangy River Wetland Research Park: Integrating wetlands and higher education” Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
- June 11, 1996 “Spatial patterns and seasonal dynamics of algal mats in newly constructed wetlands” Society of Wetland Scientists 17th Annual Meeting, Kansas City, MO
- \*April 30, 1996 “Estimating phosphorus retention of existing and restored wetlands in the Quanicassee River watershed, Saginaw Bay, Michigan” Great Lakes Basin Coastal Waters and Wetlands Protection Workshop, East Lansing, MI
- \*March 29, 1996 “Estimating phosphorus retention of existing and restored wetlands in the Quanicassee River watershed, Saginaw Bay, Michigan” Great Lakes Basin Coastal Waters and Wetlands Protection Workshop, Columbus, OH
- \*March 7, 1996 “Relationship between science and public policy on wetlands: Findings of the National Academy of Science study” Virginia Association of Wetland Professionals Annual Meeting, Newport News, VA
- \*February 6, 1996 “Creation and restoration of wetlands” Museum of Biological Diversity Seminar Series, The Ohio State University, Columbus.

## **1995**

- \*November 28, 1995 “Great Lakes coastal marshes - Their restoration and management” plenary address, Temperate Wetland Restoration Workshop, Barrie, Ontario, Canada
- \*November 17, 1995 “Ecological engineering and wetland ecosystem restoration and creation” Texas A&M University, Department of Rangeland Ecology and Management, Department of Wildlife and Fisheries Sciences, and Department of Agricultural Engineering, College Station, TX
- \*November 15, 1995 “Creation and restoration of wetlands: a challenge to ecologists” Estuarine Research Federation Meetings, Corpus Christi, TX
- \*November 6, 1995 “Ecological Engineering—Its Principles and Practice” SCOPE Workshop on Ecological Engineering, Tallinn, Estonia

- \*October 12, 1995 “Integrating Wetlands with Higher Education—The Olentangy River Wetland Research Park at Ohio State” Biology Department Seminar, University of Notre Dame, Notre Dame, IN
- \*October 3, 1995 “Ecological economics—placing a value on ecosystems” Ohio River Basin Consortium for Research and Education, 11th Annual Scientific Symposium, Ft. Mitchell, KY
- \*August 3, 1995 “Ecological engineering—a new paradigm for ecology” 80th annual meeting, Ecological Society of America, Snowbird, UT
- \*July 27, 1995 “Managing the world’s wetlands—preserving and enhancing their ecological functions” Plenary Lecture, SIL Congress, Sao Paulo, Brazil
- May 29, 1995 “Early ecological development and water quality function of experimental constructed riparian wetlands on a university campus” 16th Annual Meeting, Society of Wetland Scientists, Boston, MA
- \*May 29, 1995 “National Academy of Sciences Wetland Delineation Report—A Summary” 16th Annual Meeting, Society of Wetland Scientists, Boston, MA
- \*May 22, 1995 “Olentangy River Wetland Research Park: Investigating the Role of Wetlands in the Landscape” Ohio Lake Management Society Meeting: Ohio Lakes and Wetlands, Columbus, OH
- \*May 19, 1995 “Wetland Characterization—The National Academy of Sciences Wetland Report” Wetlands Symposium, Environmental Law Institute, Washington, DC
- \*May 17, 1995 “Ecological Engineering—A Needed Integration of Ecology and Engineering” City and Regional Planning Colloquium on Sustainable Growth, The Ohio State University, Columbus
- \*May 10, 1995 “An Overview of Wetlands” U.S. Army Corps of Engineers, Ohio River Division, Regulatory Project Manager’s Conference, Columbus, OH
- \*May 2, 1995 “Restoration and Creation of Wetlands” University of Toledo Honors Student Seminar Series, Toledo, OH
- \*April 13, 1995 “Wetlands—An International Perspective” Wetland Workshop, Ohio Wetland Foundation, Cleveland, OH
- \*April 12, 1995 “Ecological Engineering—A New Paradigm in Ecology” U.S. Environmental Protection Agency, Cincinnati, OH
- \*March 31, 1995 “Ecological Engineering and Wetlands” University of Stockholm, Stockholm, Sweden
- \*March 29, 1995 “Ecological Engineering—A Needed Integration of Ecology and Engineering” Ecotechniks Conference, Östersund, Sweden
- \*February 19, 1995 “Ecological Engineering—A Needed Integration of Ecology and Engineering” AAAS Annual Meeting, Atlanta, GA

## **1994**

- \*October 3, 1994 “Creating riparian wetlands as an approach to river restoration” Aquatic Ecology Laboratory Seminar Series, The Ohio State University, Columbus, OH
- \*September 28, 1994 “Restoration of out lakes and rivers with wetlands—an important application of ecological engineering” Living with Water International Conference, Amsterdam, The Netherlands
- \*September 12-14, 1994 “Restoration and creation of wetlands,” “Wetlands and global climate change,” “Ecological engineering—a new paradigm in engineering” University of Alaska, Fairbanks, AK
- \*June 21, 1994 “Restoration and creation of riparian and Great Lakes wetlands” Restoration of Aquatic Ecosystem Workshop, Association of State Wetland Managers, St. Paul, MN



- \*June 8, 1994 “Tidal coastal wetlands and Great Lakes wetlands—a comparison of function”  
International Association of Great Lakes Research and Estuarine Research Federation Joint Mtg.,  
Windsor, Ontario
- \*May 20, 1994 “Ecological engineering and wastewater wetlands” ASCE Seminar—Constructed  
Wetlands for Wastewater Treatment, Kirtland (Cleveland), OH
- \*April 19, 1994 “Ecological engineering—an introduction” National Academy of Engineering  
Workshop “Engineering within Ecological Constraints”, Washington, DC
- \*April 15, 1994 “Ecological engineering” Salem-Teikyo University Global Environmental Seminar  
Series, Salem, WV
- \*March 30, 1994 “Ecological engineering and wetland creation” Biosphere 2, Oracle, AZ
- \*February 28, 1994 “Ecological engineering and water quality role of constructed riparian wetlands”  
Massachusetts Institute of Technology, Parsons Laboratory, Dept. of Environmental and Civil  
Engineering, Cambridge, MA
- \*February 23, 1994 “Ecological engineering: a role for the U.S. Army Corps of Engineers” Army Corps  
of Engineers Seminar, Cincinnati, Ohio
- \*February 4, 1994 “Ecological engineering: a proposal to SCOPE” SCOPE Executive Committee Mtg.,  
Paris, France
- \*January 15, 1994 “Enhancing the environmental functions and values of wetlands—Ohio State’s  
Olentangy River Wetland Project” BioOhio Seminar Series, Youngstown State University,  
Youngstown, OH

### **1993**

- \*October 6, 1993 “Ecological engineering in wetlands” Dept. of Plant Biology and Evolutionary  
Biology, University of Utrecht, Utrecht, The Netherlands
- \*July 16, 1993 “Ecosystem and regional scale approaches to coastal wetland management on the  
Laurentian Great Lakes, USA” Tour du Valat (Camargue), Arles, France
- \*July 9, 1993 “Ecological engineering—practice and principles” Schattweid Center for Applied  
Ecology, Wolhusen, Switzerland
- \*July 5, 1993 “Ecological engineering—practice and principles” Weihenstephan Technical Institute,  
Freising (Munich), Germany
- May 31, 1993 “Phosphorus retention in two constructed marshes with different hydrologic  
throughflows” SWS/ASLO Annual Mtgs., Edmonton, Alberta, Canada
- \* May 26, 1993 “Wetlands—functions, values, restoration, and creation” Kentucky Governor’s  
Conference “From Rio to the Capitols: State Strategies for Sustainable Development,” Louisville,  
KY
- \*May 17, 1993 “Ecological engineering—an introduction” National Research Council Workshop on  
Ecological Engineering, National Academy of Sciences, Washington, DC.
- \* May 11, 1993 “Wetlands—Water quality and the Olentangy River experience” Ohio Environmental  
Health Association Annual Mtg., Columbus, OH.
- \*April 27, 1993 “Ecological engineering: a cooperative role with the planetary life–support system”  
Student Environmental Speaker Committee, Oberlein College, Oberlein, OH
- \*April 9, 1993 “Wetlands and global carbon budgets—a two–edged sword in ecosystem function and  
management” International Symposium—Greenhouse Gas Emissions and Carbon Sequestration,  
Columbus, OH
- \*April 2, 1993 “Wetlands for the control of nonpoint source pollution” Arizona State University,  
Tempe, AZ

- \*March 4, 1993 “Restoration and creation of wetlands” Wetlands Conference, University of Toledo, Toledo, OH
- \*March 1, 1993 keynote presentation “Wetland functions and values” Wetlands Conference, Chesapeake Bay Consortium, Williamsburg, VA

## **1992**

- \*November 8, 1992 panel presentation “Public policy, politics, and natural systems: are Federal wetland regulations the best means of protection, restoration, and preservation?” American Society of Landscape Architects, Washington DC
- \*November 4, 1992 “Modelling of wetland processes—and ecosystem approach” American Society of Agronomy Annual Mtg., Minneapolis, MN
- \*October 26, 1992 “Genesis of a wetland—preliminary results of the Des Plaines River Wetland Demonstration Project” University of Minnesota-Duluth, MN
- \*October 26, 1992 “Wetlands—what’s all the fuss” University of Minnesota-Duluth, MN
- \*September 29, 1992 “Ecological engineering—an overdue application of ecology” 8th ISEM Conference, State of the Art of Ecological Modelling, Kiel, Germany
- \*September 15, 1992 “Natural and constructed riparian wetlands—a comparison of their nonpoint source pollution control function” INTECOL IV Wetlands Conference, Columbus, OH
- \*September 14, 1992 “Combining ecosystem and landscape approaches to the Laurentian Great Lakes wetlands” INTECOL IV Wetlands Conference, Columbus, OH
- \*June 14, 1992 “Ecological engineering—an approach to sustainability” ECOWorld ‘92 Conference, Washington, DC
- \*May 22, 1992 “Wetlands, water quality, and ecotechnology” University of Toledo, Toledo, OH
- \*April 14, 1992 keynote address “Ecological engineering—a synthesis” 6th Environmental Health Symposium, Ecological Engineering and Its Application to Wastewater Management, University of Wisconsin-Eau Claire, Eau Claire, WI
- \*March 23, 1992 “Wetlands—innovative approaches for evaluation, preservation, and development” Ohio Parks and Recreation Association/American Society of Landscape Architects Conference, Dayton, OH
- \*February 26, 1992 “Ecological engineering—a long overdue application of ecology” University of Maryland, College Park, MD
- \*February 14, 1992 plenary presentation “Enhancing the environmental values of wetlands” Minnesota Water 92, University of Minnesota Water Resources Research Center, Minneapolis, MN

## **1991**

- \*December 16, 1991 “Wetlands designation/protection issues” National Academy of Sciences, Board on Environmental Studies and Toxicology, Washington, DC
- \*November 8, 1991 keynote talk “Wetlands—what’s all the fuss?” Naples Conservancy, sponsored by The Conservancy, Inc. of Collier County, Florida and by The Ohio State University Office of Continuing Education. Naples, FL
- \*September 20, 1991 “Environmental issues and ecocatastrophe” Broward County Section of American Planning Association and Gold Coast Section of American Society of Public Administrators, Ft. Lauderdale, FL
- \*September 19, 1991 “Wetlands, ecotechnology and sustainability” Fern Forest Nature Center, Pompano Beach, FL

- \*September 19, 1991 “Wetlands—nature’s kidneys” and “How to build a wetland” sponsored jointly by the Broward County Office of Natural Resource Protection, the Broward County Division of Parks and Recreation, the OSU Office of Continuing Education, the OSU Florida Regional Office, and the Broward County OSU Alumni Chapter. Tree Tops Park, Davie, FL
- \*September 10, 1991 “Open vs. closed wetlands” Association of Wetland Managers Mtg., Chicago, IL
- August 7, 1991 “Ecosystem function in constructed wetlands in different hydrologic flow conditions—early results of the Des Plaines River Experiment” 42nd Annual American Institute of Biological Sciences (AIBS) Mtg., San Antonio, TX
- \*June 26, 1991 “Wetlands and ecotechnology” Hancock Biological Station, Murray State University, Murray, KY
- \*June 10, 1991 “Landscape design and the role of created, restored, and natural riparian wetlands in controlling nonpoint source pollution” USEPA, Arlington, VA
- May 29, 1991 “Ecosystem modelling of a coastal Lake Erie wetland” 12th Annual Mtg., Society of Wetland Scientists, Ann Arbor, MI
- May 28-30, 1991 “Ecosystem function in constructed wetlands of different hydrologic flows—some first year results of the Des Plaines River Experimental Wetlands” 12th Annual Mtg., Society of Wetland Scientists, Ann Arbor, MI
- \*May 10, 1991 “The Ohio River: Unifier or divider” Public History and Folklore Conference “Images of the Ohio” Louisville, KY
- \*April 25, 1991 keynote address “The Ohio River ecosystem—consorting, educating, and spilling oil” 23rd Annual Mtg. of the Mississippi River Research Consortium, LaCrosse, WI
- \*April 17, 1991 “Ecological engineering, wetlands, and the control of nonpoint source pollution” USEPA Region VII Workshop, Kansas City, KS
- \*March 24, 1991 “Ecological engineering—roots and rationale for a new ecological paradigm” keynote address, International Conference on Ecological Engineering of Wastewater, Trosa, Sweden.
- February 26, 1991 “Ecological engineering of wetlands for the control of nonpoint source pollution” American Water Resources Association Symposium on Water Quality, Cleveland, OH
- February 11, 1991 “Chemical mass balances of constructed riverine wetlands—the role of hydrologic and seasonal conditions” Wetland Biogeochemistry Symposium, Baton Rouge, LA

## **1990**

- December 4, 1990 “Ecological modelling of short-term oil spills on the Ohio River—an effective approach” 6th Annual Ohio River Basin Consortium Symposium, Morgantown, WV
- \*November 1, 1990 keynote address “Wetlands, ecotechnology, and sustainability” Water Management Association of Ohio, Columbus, OH
- \*October 24, 1990 “Ecological indicators for ecological engineering in wetlands” USEPA, Cincinnati, OH
- \*October 17, 1990 keynote Presentation “Ecological indicators for ecological engineering in wetlands” USEPA Ecological Indicators Conference, Ft. Lauderdale, FL
- \*September 14, 1990 “The value of wetlands” Fall Lecture Series on Wetlands, Environmental Concern, Inc. and The Wildlife Trust of North America, Gransonville, MD
- \*August 27, 1990 “Integrating graduate teaching and research in ecological modelling for environmental management with STELLA” - Vth International Congress of Ecology (INTECOL ‘90), Yokohama, Japan
- \*June 18, 1990 “History of the Ohio River and the human influence on its environment” Ecosystems of the Ohio River Basin, Spalding University, Louisville, KY

- \*May 23, 1990 “Ecological engineering—an environmental methodology for sustainability and biodiversity” International Conference on Ecological Economics of Sustainability, Washington, DC
- \*May 18, 1990 “Watershed water quality and the protection/ management of Great Lakes wetlands” plenary address, Wetlands of the Great Lakes, State Association of Wetland Managers, Niagara Falls, NY
- \*May 16, 1990 President’s address “Environmental science and ecocatastrophe” Annual Initiation Banquet, Ohio State Chapter of Sigma Xi, Columbus, OH
- \*April 24, 1990 “Ecology and modelling of wetlands of the Great Lakes” Marine Science Seminar, Center for Wetland Resources, Louisiana State University, Baton Rouge, LA
- \*April 19, 1990 “Wetlands” Earth Day Celebration, College of Agriculture, Ohio State University, Columbus, OH
- March 21, 1990 “Modelling nutrient retention in a coastal Lake Erie wetland” 5th Annual Landscape Ecology Symposium, Oxford, OH
- \*January 25, 1990 “Ecological engineering and modelling with wetlands” Dept. of Civil Engineering, Northwestern University, Evanston, IL

## **1989**

- \*December 15, 1989 “Wetlands of Ohio’s coastal Lake Erie: A hierarchy of time and space scales” Great Lakes Environmental Research Laboratory, National Oceanic and Atmospheric Administration (NOAA), Ann Arbor, MI
- \*October 20, 1989 “Systems approach to Old Woman Creek Estuary” Priorities for Great Lakes Coastal Wetlands Research: A Planning Conference, sponsored by ODNR and NOAA), Huron, OH
- \*October 4, 1989 “Water quality trends of the Ohio River—modelling short term oil spills and long term trends” Environmental Health Seminar Series, Kettering Institute, University of Cincinnati, Cincinnati, OH
- \*September 1, 1989 “Ecological engineering: From Gainesville to Beijing—a comparison of U.S. and China approaches” Advances in Understanding Ecological Systems, University of North Carolina, Chapel Hill, NC
- \*May 31, 1989 “Ecological engineering and ecological modelling for environmental pollution management in the USA” Environmental Protection Society and Environmental Protection Bureau, Maanshan City, China
- \*May 27, 1989 “Ohio River ecosystem and oil spill modelling” Institute of Geography and Limnology, Academia Sinica, Nanjing, China
- \*May 26, 1989 “Ecological engineering and its application to wetlands” Institute of Geography and Limnology, Academia Sinica, Nanjing, China

- 1988**
- \*Honorary 100 Alumni Program, School of Natural Resources, The Ohio State University
  - \*Water Resources Research Center and Ohio Biological Survey, The Ohio State University
  - 4th Annual Ohio River Basin Consortium Symposium, Lexington, KY (Nov.)
  - Third International Conference on Wetlands, Rennes, France (Sept.)
  - Society of Wetland Scientists (2 papers), Washington, DC (June)
  - \*Ohio Environmental Council, Columbus, OH (May)
  - \*Ohio Lake Management Society, Columbus, OH (May)
  - Mine Reclamation Society, Pittsburgh, PA (April)

- 1987** \*International Conference on Rehabilitation of Disturbed Ecosystems, Varanasi, India (Dec.)

- \*National Seminar Series, Wetlands: Perspectives of the 80s, St. Michael, MD (Nov.)
- Ecological Society of America Annual Meeting, Columbus OH (Aug.)
- \*ISEM 6th International Conference, State of the Art of Ecological Modelling, Venice, Italy
- \*Lake Biwa Research Institute, Otsu, Japan (Sept.)
- \*Academia Sinica, Institute of Geography, Nanjing, China (Oct.)
- \*Academia Sinica, Eco-environmental Research Center, Beijing, China (Oct.)
- \*Zoology Dept., The Ohio State University
- \*Agronomy Dept., The Ohio State University
- 1986** 2nd Annual Ohio River Basin Consortium Symposium, Wheeling WV (Nov.)
- International Symposium on Ecology and Management of Wetlands, Charleston, SC (June)
- \*The Ohio Academy of Sciences, Toledo, OH (Apr.)
- Wetlands and Wildlife Symposium, Charleston, SC (Mar.)
- \*Ohio River Valley Groundwater Workshop, Louisville, KY (Feb.)
- \*Zoological Museum, University of Copenhagen
- \*School of Natural Resources, The Ohio State University
- 1985** 1st Annual Ohio River Basin Consortium Symposium, Cincinnati, OH (Nov.)
- Wetlands and Water Management on Mined Lands Conference, Penn State University, University Park, PA (Oct.)
- ISEM/AIBS Annual Mtg., University of Florida, Gainesville, FL (Aug.)
- American Society for Limnology and Oceanography, Ecological Society of America Annual Mtg., University of Minnesota, St. Paul, MN (June)
- \*Great Swamp Wetlands Conference, Madison, NJ (June)
- \*The Ohio River Basin Commission, Indianapolis, IN (Mar.)
- \*Water Resources Laboratory, University of Louisville
- \*School of Natural Resources, The Ohio State University
- \*Sigma Xi, University of Louisville
- \*Coastal Ecology Institute, Louisiana State University
- \*Geology Dept., University of Louisville
- 1984** \*EPA Bottomlands Hardwood Workshop, St. Francisville, LA (Nov.)
- \*Ohio River Biology Symposium, Huntington, WV (Nov.)
- \*Governor's Conference on the Environment, Frankfort, KY (Sept.)
- Ohio River Basin Consortium Planning Mtg., Louisville, KY (Sept.)
- ISEM/AIBS Annual Mtg., Colorado State University, Ft. Collins, CO (Aug.)
- INTECOL Wetlands Workshop, Trebon, Czechoslovakia (June)
- \*Division of Natural Areas, Eastern Kentucky University
- \*Dept. of Biological Sciences, Marshall University
- \*Geology Dept., University of Louisville
- 1983** \*Workshop on Wetlands and Shallow Water Bodies, UNEP and SCOPE, Tallinn, Estonia, USSR
- US Environmental Protection Agency, Washington, DC (Aug.)
- Society of Wetland Scientists Annual Mtg., St. Paul, MN (June)
- Ohio River Workshop, Virginia Environmental Endowment, Louisville, KY (May)
- \*Association of Southeastern Biologists Annual Meeting, Lafayette, LA (May)
- \*Chemical and Environmental Engineering, University of Louisville
- \*Energy and Ecology Seminar Series, University of Louisville
- \*Biology Dept., Murray State University
- \*Biology Dept., University of Louisville

- 1982** ESA/AIBS Annual Mtg., Penn State University, University Park, PA (Aug.)  
ISEM State of the Art of Ecological Modelling Symposium, Colorado State University, Ft. Collins, CO (June)  
\*SUNY College of Forestry and Environmental Sciences, Syracuse, NY  
\*Spring Colloquium, Indiana University Southeast, New Albany, IN
- 1981** Third International Conference on Energy Use Management, West Berlin, Germany (Oct.)  
Eastern Oil Shale Symposium, Lexington, KY (Sept.)  
\*Workshop on Dynamics of Freshwater Wetlands and Shallow Water Bodies, Minsk and Tskhaltubo, USSR (July)  
ISEM Symposium—Energy and Ecological Modelling, Louisville, KY (Apr.)  
\*Biology Dept., University of Louisville  
\*Energy and Ecology Seminar Series, University of Louisville
- 1980** Second ISEM Conference on State of the Art of Ecological Modelling, Liège, Belgium (Apr.)  
\*Center for Educational Affairs, Argonne National Laboratory
- 1979** Governor's Conference on the Environment, Owensboro, KY (Sept.)  
\*Illinois Natural Areas Conference, Oglesby, IL (Mar.)  
American Society for Limnology & Oceanography Winter Mtg., Corpus Christi, TX (Jan.)  
\*Biology Dept., University of Louisville  
\*Associated Colleges of the Chicago Area, Argonne, IL
- 1978** National Symposium on Strategies for Protection and Management of Floodplain Wetlands and Other Riparian Ecosystems, Callaway Gardens, GA (Dec.)  
Symposium on Surface Mining and Fish/Wildlife Needs, Morgantown, WV (Dec.)
- 1977** International Conference on Energy Use Management, Tucson, AZ (Oct.)  
AIBS Annual Mtg., East Lansing, MI (Aug.)  
\*Symposium on Rate Constants in Surface Water Modelling, Concord, CA (Feb.)  
\*Energy in Minnesota Workshop, Northfield, MN (Aug.)  
\*OIKOS Forum, Morton Arboretum, Lisle, IL (Mar.)  
\*Biology Dept., West Virginia University  
\*Biology Dept., University of Notre Dame  
\*Civil Engineering Dept., Northwestern University
- 1976** National Conference on Environmental Engineering, Seattle, WA (July)  
\*Edison Electric Institute Biologists Workshop, Duluth, MN (Apr.)  
Southeastern Forested Wetlands Workshop, Gainesville, FL (Jan.)  
\*Technology and Human Values Forum, Illinois Institute of Technology  
\*Energy and Environmental Systems Division, Argonne National Lab  
\*Chemistry Dept., Illinois Institute of Technology
- 1975** AIBS Annual Mtg., Corvallis, OR (Aug.)
- 1974** Hyacinth Control Society, Winter Park, FL (July)  
Fifth Annual Modelling and Simulation Conference, Pittsburgh, PA (Apr.)

## TEACHING

### Formal Courses Taught

(graduate courses unless otherwise noted; most courses developed by Prof. Mitsch)

Florida Gulf Coast University

*Wetland Ecology* (mostly undergraduate)  
*Graduate Seminar in Wetland Science*  
*Systems Ecology*  
*Creation and Restoration of Wetlands*  
*Wetlands and Water Quality*  
*River Restoration*  
*Wetlands, River & Coastal Science* (mostly undergraduate)

The Ohio State University

*Wetland Ecology and Management*  
*Wetland and River Restoration*  
*Advanced Wetland Ecology and Management*  
*Ecosystem Modelling*  
*Water Quality Management*  
*Environmental Pollution*  
*Environmental Science and Engineering Seminar*  
*Ecological Engineering Science*

University of Louisville

*Environmental Biology* (undergraduate)  
*Systems Ecology*  
*Energy, Ecology, and Economics*  
*Environmental Protection and Management*  
*Management of Aquatic Systems*

Illinois Institute of Technology

*Ecological Engineering and Systems Ecology*  
*Management of Aquatic Systems*  
*Eutrophication*  
*Man and Environment* (undergraduate)  
*Introduction to Water Resources* (undergraduate)

**Guest Lectures in Formal University Courses Elsewhere**

November 15, 2016 “Wetland Restoration” Wetland Ecology and Restoration, The Ohio State University, Columbus, Ohio. Instructor: Mark Dilley

May 16-17, 2016 Spatial Economy, 3<sup>rd</sup> year: Revitalization of Rural Areas, Bialystok University of Technology, Bialystok, Poland, Instructors: Piotr Banaszuk and Agnieszka Wysocka-Czubas

September 24, 2015 “Wetlands and Wetland Biogeochemistry” Biogeochemistry and Ecosystems, University of Notre Dame, Indiana. Instructor: Jennifer Tank

May 26, 2015 “Wetlands 101” PUBH/EHS 7360 Water Contamination: Sources and Health Impact, The Ohio State University, Columbus. Instructor: Jiyoung Lee

April 20-24, 2015 Erasmus Mundus Course Lectures (Wetlands), University of Algarve, Faro, Portugal. Instructor: Luis Chicharo

March 9, 2015 “Ecological Engineering” ENV 4612/EVR 4930 Sustainability, Florida Gulf Coast University, Ft. Myers. Instructor: Simeon Komisar  
 May 15, 2014 PUBH/EHS 7360 Water Contamination: Sources and Health Impact, The Ohio State University, Columbus. Instructor: Jiyoun Lee  
 November 13, 2013 “Wetlands 101” Microbiology 3300, The Ohio State University, Columbus. Instructor: Olli Tuovenin  
 May 13, 2013 “Wetlands 101” PUBH/EHS 7360 Water Contamination: Sources and Health Impact, The Ohio State University, Columbus. Instructor: Jiyoun Lee  
 March 27, 2013 “Ecological Engineering” ENV 4612/EVR 4930 Sustainability, Florida Gulf Coast University, Ft. Myers. Instructor: Simeon Komisar  
 February 8, 2012 “Olentangy River Wetlands” ENR 618 Ecological Engineering Sciences, The Ohio State University. Instructor: Jay Martin  
 January 28 and February 14, 2012 “Wetlands and Water Quality” ENR 355 Water Quality Management, The Ohio State University. Instructor: Karrie-Ann Kubatko  
 January 26, 2010 “Wetlands and Water Quality” ENR 355 Water Quality Management, The Ohio State University. Instructor: Karrie-Ann Kubatko

### **Short Courses Taught**

(62 courses over 30 years in FL, OH, MN, Portugal, Botswana, Jordan, Egypt, Spain, Tanzania, Denmark, Brazil, Netherlands, China) (\*indicates organized course)

Nov 24-25 2016 Ecological Engineering, El Colegio Veracruz, Xalapa, Mexico

Apr 2016 \*Creation and Restoration of Wetlands, Naples, FL

Nov 2015 \*River Restoration, Naples, FL

Apr 2015 Wetland Ecohydrology, University of Algrave, Faro, Portugal

Mar 2015 \*Treatment Wetlands, Naples, FL

Oct 2014 \*Creation and Restoration of Wetlands, Naples, FL

Feb 2014 \*Wetland Ecology and Management, Naples, FL

Jan 2014 \*Ecological Modelling, Naples FL

Dec 2013 \*Treatment Wetlands, Naples, FL

Nov 2013 \*Creation and Restoration of Wetlands, Naples, FL

Jan 2013 Systems Ecology, Naples, FL

Nov 2012 \*Creation and Restoration of Wetlands, Naples, FL

July 2011 \*Creation and Restoration of Wetlands, Columbus, OH

August 2010 \*Wetland Delineation, Ohio State University, Columbus, OH

July 2009 \*Creation and Restoration of Wetlands, Columbus, OH

August 2008 \*Wetland Delineation, Ohio State University, Columbus, OH



July 2008	*Creation and Restoration of Wetlands, Columbus, OH
March 2008	*Introduction to Wetland Ecology and Management, HOORC, Biokavango Program, University of Botswana, Maun, Botswana
August 2007	*Wetland Delineation, Ohio State University, Columbus, OH
July 2007	*Creation and Restoration of Wetlands, Columbus, OH
March 2007	*Wetland Ecology and Management, HOORC, University of Botswana, Maun, Botswana
August 2006	*Wetland Delineation, Ohio State University, Columbus, OH
June 2006	*Creation and Restoration of Wetlands, Columbus, OH
August 2005	*Wetland Delineation, Ohio State University, Columbus, OH
June 2005	*Creation and Restoration of Wetlands, Columbus, OH
May 2005	Modelling Wetland Management (course taught to Iraqi scientists and managers), United Nations Environmental Programme, Amman Jordan
Dec 2004	Phytotechnologies and Wetland Management (course taught to Iraqi scientists and managers), United Nations Environmental Programme, Cairo, Egypt
Sept 2004	Ecological Engineering, American Society for Agricultural Engineering, St. Paul, MN
August 2004	*Wetland Delineation, Ohio State University, Columbus, OH
August 2004	*River Restoration, Ohio State University, Columbus, OH
June 2004	Ecological Engineering Applied to Environmental Restoration in Mediterranean Areas, Centro Internacional de Altos Estudios Agronomicos Mediterraneo (CIHEAM) Advanced Course, Zaragoza, Spain
April 2004	*Creation and Restoration of Wetlands, Naples, FL
October 2003	*Ecological Engineering and Ecosystem Restoration, Columbus, OH
Sept 2003	*Ecological Modelling, Ohio State University, Columbus, OH
August 2003	*Wetland Delineation, Ohio State University, Columbus, OH
July 2003	*Creation and Restoration of Wetlands, Columbus, OH
April 2003	*Creation and Restoration of Wetlands, Naples, FL
August 2002	*River Restoration and Ecological Engineering, Ohio State University, Columbus, OH
May 2002	Wetland Management, Restoration, and Applications, Centro Internacional de Altos Estudios Agronomicos Mediterraneo (CIHEAM) Advanced Course, Zaragoza, Spain
August 2001	*Creation and Restoration of Wetlands, Ohio State University, Columbus
July 2001	*Wetland Delineation, Ohio State University
August 2000	*Creation and Restoration of Wetlands, Ohio State University, Columbus
June 2000*	Wetland Delineation, Ohio State University
August 1999	*Creation and Restoration of Wetlands, Ohio State University, Columbus
March 1999	Wetlands and Wetland Processes, University of Dar es Salaam, Dar es Sallam, Tanzania

August 1997	*Creation and Restoration of Wetlands, Ohio State University, Columbus
July 1997	*Wetland Delineation Certification Training, Ohio State University, Columbus
March 1997	*Wastewater Wetlands, Ohio State University, Columbus
August 1996	Environment, Health and Ethics Course, Royal Danish School of Pharmacy, Dept. of Environmental Chemistry, Copenhagen, Denmark
August 1996	*Wetland Delineation Certification Training, Ohio State University, Columbus
July 1996	*Creation and Restoration of Wetlands, Ohio State University, Columbus
June 1996	*Ecological Modelling/ Wetland Management, New Albany H.S., New Albany, OH
July 1995*	Ecological Engineering, University of Sao Paulo, Sao Carlos, SP, Brazil
May 1994	Creation and Restoration of Wetlands, US Soil Conservation Service, Napoleon, OH
October 1993	Ecological Engineering Workshop, Department of Ecology and Evolution, University of Utrecht, Utrecht, The Netherlands
Sept 1993	Wetlands, Centro Internacional de Altos Estudios Agronomicos Mediterraneo (CIHEAM) Advanced Course, Zaragoza, Spain
August 1993	*Ecological Engineering Workshop, Royal Danish School of Pharmacy, Dept. of Environmental Chemistry, Copenhagen, Denmark
August 1992	*Ecosystem Modelling, South Florida Water Management District, West Palm Beach, FL
July 1991	*Ecosystem Modelling, The Ohio State University, Stone Lab, Put-in-Bay, OH
January 1989	Ecological Modelling, University of Sao Paulo, Sao Carlos, SP, Brazil
October 1987	Ecological Modelling, Chinese Academy of Science, Nanjing, China
July 1986	Wetland Ecology, University of Copenhagen, Denmark

**External Examiner or Committee Member of Thesis or Dissertation—Other Universities**

Samantha Roberts. 2016-pres. School of Marine and Atmospheric Sciences, SUNY Stonybrook, Stonybrook, New York (Ph.D.)

David Hsu. 2014-15. School of Public Health, The Ohio State University (Ph.D.)

Chenyan Sha. 2010. East China Normal University, Shanghai, China (Ph.D.)

Kai Kimmel. 2009. Ecosystem services of Estonian wetlands. Department of Geography, Institute of Ecology and Earth Sciences, Tartu University, Tartu, Estonia (Ph.D.)

Keunyea Song. 2009. Denitrification process and denitrifying bacterial community structure in created wetlands at different scales. Ewa Woman's University, Seoul, Korea. (Ph.D.)

- Juan Chen. 2004. Sediment remediation as a technique for restoring eutrophic wetlands and controlling nuisance chironomidae. Murdoch University, Perth, Australia (Ph.D.)
- Jannette Pitcher. 2000. Modelling biological response to environmental variables in wetlands. Murdoch University, Perth, Australia (Ph.D.)
- Sanjai Srivastava. 2000. Studies on the primary productivity, nutrients, and heavy metals in a wetland ecosystem under the influence of effluents of carpet industries. Banaras Hindu University, Varanasi, India (Ph.D.)
- Gregory Wallace Rasin. 2000. The use of wetlands for the control of diffuse source pollution in rural catchments. LaTrobe University, Bundoora, Victoria, Australia (MS)
- James Marshall Eames. 1998. Landscape features as predictors of the functional performance of wetlands. University of Illinois at Chicago (Ph.D.)
- Nis Peter Christensen. 1991. Ecosystem models of the Des Plaines River experimental wetlands. The Technical University of Denmark, Copenhagen (Masters Thesis)

**Meeting Chair or Session Chair (bold indicates chair of major international conference)**

- 2016 Conference Co-Chair: EcoSummit 2016, Montpellier, France (August)**
- 2012 Organizer and Conference Chair: EcoSummit 2012, Columbus, Ohio (Oct), 1700 participants from 73 countries**
- 2010 *Session:* Ecohydrology and Floodplains, Flood pulsed wetlands. International Symposium, University of Botswana, Maun, Botswana (Feb)
- 2008 *Session:* 8<sup>th</sup> INTECOL Wetland Conference, Cuiaba, Brazil (July)
- 2005 *Session:* International Symposium on Eutrophication in Large Shallow Lakes, Nanjing, China (Apr)
- 2002 *Session:* Environmental Monitoring of Tropical Wetlands, Maun, Botswana (Dec)
- 2001 *Workshop:* Society of Wetland Scientists Annual Meeting, Chicago, IL (May)
- 1999 *Session:* New Zealand Limnological Society Annual Meeting, Taupo, NZ  
*Session:* Wetland Restoration and Remediation Conference, Salt Lake City, UT  
*Session:* Society of Wetland Scientist Annual Meeting, Norfolk, VA (June)
- 1998 Workshop, SCOPE Workshop in Ecological Engineering Applied to River and Wetland Restoration, Paris, France (July)**
- 1996 *Meeting:* President, Academic Committee, International Ecological Engineering Conference, Beijing, China (October)  
*Meeting:* International Committee Member, INTECOL Wetlands V Conference, Perth, Australia  
*Meeting:* International Organizing Committee and Scientific Steering Committee, Ecological Summit 96, Copenhagen, Denmark (August)  
*Sessions:* Ecological Summit 96, Copenhagen, Denmark (August)  
*Session:* Society of Wetland Scientists Annual Meeting, Kansas City, MO (June)
- 1995 Chair Organizing Committee: SCOPE Workshop on Ecological Engineering and Ecosystem Restoration, Workshop 1: Remediation of Ecosystems Damaged by Environmental Contamination, Tallinn, Estonia (November)**  
*Symposium:* Co-Chair, Ecological Engineering, Ecological Society of America Annual Meeting, Snowbird, UT (August)
- 1994 *Session:* Great Lakes wetlands, International Association of Great Lakes Research and Estuarine Research Federation, Windsor, Ontario (June)

- 1993 *Workshop: Ecological Engineering and Ecosystem Restoration*, National Research Council, National Academy of Sciences, Washington DC (May)
- 1992 *Organizing Committee and Session: 8th ISEM International Conference on Ecological Modelling*, Kiel, Germany (Sept.-Oct.)
- 1992 Organizer and Conference Chair: INTECOL IV International Wetlands Conference, Columbus, OH (Sept.) 900 participants**
- 1990 *Session: Co-chair, Ohio River Basin Consortium Annual Mtg.* (Dec.)  
*Session: Co-chair, Wetlands session, Ecological Indicators Meeting* (Oct.)  
*Session: ISEE Conference "Ecological Economics of Sustainability"* (May)  
*Session: ISEM/International Association of Landscape Ecology Conference* (Mar.)
- 1988-89 *Speaker Series: Chair, OSU Chapter of Sigma Xi, Seminar Series*
- 1987 *Local Chair: ISEM/AIBS Annual Mtg.*, Columbus, OH (Aug.)  
*Session: Wetland Science and Ecology, ESA/AIBS Annual Mtg.*, Columbus, OH (Aug.)  
*Session: Predicting Lake Acidification Trends in North America: Modelling, ISEM/AIBS Annual Mtg.*, Columbus, OH (Aug.)  
*Session: Ecological Models and Hydrology, ISEM International Conference, Venice, Italy* (June)
- 1986 *Session: Effects of Acid Rain on Aquatic and Terrestrial Systems, Acid Rain Symposium*, Chicago, IL (Mar.)
- 1985 *Meeting: First Annual Symposium of Ohio River Basin Consortium* (Nov.)  
*Session: Coal Mining and Wetlands, First Annual Symposium of Ohio River Basin Consortium Symposium* (Nov.)  
*Session: Models of Wetlands, ISEM/AIBS Annual Mtg.*, Gainesville, FL (Aug.)
- 1984 *Session: Aquatic/Wetland Ecosystems, ISEM/AIBS Annual Mtg.*, Ft. Collins, CO (Aug.)
- 1983 *Meeting: ISEM, North America Annual Mtg.*, University of North Dakota (Aug.)
- 1981 *Session: Aquatic Ecosystem Modelling, ISEM Symposium, Energy and Ecological Modelling*, Louisville, KY (Apr.)  
***Meeting: Organizer and Conference Chair: Energy and Ecological Modelling, International Society of Ecological Modelling (ISEM) Symposium, Louisville, KY (Apr.) 400 participants***

### **Journal Manuscript Reviewer**

*American Journal of Botany, American Midland Naturalist, AMBIO, Annales Botanici Fennici, Bulletin of the Torrey Botanical Club, Critical Reviews in Environmental Science & Technology, Ecological Economics, Ecological Engineering, Ecological Indicators, Ecological Modelling, Ecological Monographs, Ecology, Environmental Management, Environmental Science & Technology, Forest Science, Geoderma, Hydrobiologia, Journal of Conservation Biology, Journal of Great Lakes Research, Journal of Soil and Water Conservation, Journal of Thermal Ecology, Landscape Ecology, Limnology and Oceanography, Ohio Journal of Science, Reclamation and Revegetation Research, Soil Science Society of America Journal, Urban Ecosystems, Water, Air, and Soil Pollution, Water Environment Research, Water Resources Bulletin, Water Resources Research, Water Resources Planning and Management, Wetlands, Wetlands Ecology and Management*

### **Extramural University Departmental Review**

2008	Texas A&M, Department of Ecosystem Management
2006	Louisiana Sea Grant Program, New Orleans and Baton Rouge, LA
2002	University of Maryland, Bioresource Engineering Department
2001	Boston University, Center for Energy and Environmental Studies

### Personnel Action Extramural Reviews

2016	
2016	University of Oklahoma, Norman (research award)
2015	Tsinghua University, Beijing, China
2015	Texas A&M, College Station (promotion)
2015	UCLA (promotion)
2015	Yonsei University, Seoul, Korea (promotion)
2014	University of Maryland (promotion)
2013	Rutgers University, Newark (promotion and tenure)
2013	U.S. Environmental Protection Agency, Narragansett, RI (promotion)
2012	Colorado State University (promotion)
2012	University of Florida, Gainesville (promotion and tenure)
2012	University of Florida, Ft. Lauderdale (promotion and tenure)
2009	University of Maryland (promotion)
2009	Louisiana State University (promotion)
2008	College of William & Mary (promotion)
2007	West Virginia University (promotion)
2007	University of Florida (promotion)
2007	Indiana University (promotion)
2006	University of Maryland (promotion)
2006	University of Maryland (promotion and tenure)
2006	Texas A&M University (promotion and tenure)
2006	The Ohio State University (promotion and tenure)
2005	University of Georgia (promotion and tenure)
2005	The Ohio State University (promotion and tenure)
2004	University of Vermont (promotion and tenure)
2004	McMaster University (promotion)

2004	Wright State University (promotion)
2004	University of Kentucky (promotion and tenure)
2004	Ohio State University (promotion and tenure)
2003	Oregon State University (promotion)
2003	University of Florida (promotion)
2002	University of Vermont (reappointment)
2002	Bates College (promotion and tenure)
2002	Penn State University (review)
2002	Indiana University (promotion and tenure)
2002	Louisiana State University (promotion)
2001	University of California, Berkeley (promotion and tenure)
2001	McMaster University (promotion)
2001	Louisiana State University (promotion)
2001	Southern Illinois University (promotion)
2001	University of Mississippi (promotion)
2001	University of Florida (promotion and tenure)
2001	Rutgers University (promotion)
2001	University of Maryland (promotion)
2001	University of Oklahoma (promotion and tenure)
2001	Louisiana State University (promotion and tenure)
2000	Texas A&M (promotion and tenure)
2000	Penn State University (promotion and tenure)
1999	UCLA (promotion)
1999	University of Mississippi (promotion and tenure)
1999	Michigan Tech (promotion)
1999	William & Mary Virginia Institute of Marine Science (promotion)
1998	Florida International University (promotion and tenure)
1998	University of Alberta (promotion)
1998	University of Toledo (promotion and tenure)
1997	Penn State University (promotion)
1997	Boston University (promotion and tenure)
1997	College of William and Mary (tenure-track decision)
1997	Indiana University (promotion)
1996	Rutgers University (promotion)
1996	East Carolina University (distinguished professorship)
1995	Penn State University (promotion)

1995	Cornell University (promotion and tenure - two separate cases)
1994	University of Southwest Louisiana (promotion and tenure)
1992	University of Maryland (promotion and tenure)
1989	University of Cincinnati (promotion and tenure)
1988	SUNY-Syracuse (promotion and tenure)
1986	University of Florida (promotion)
1986	Duke University (full professor)
1986	University of Nebraska (promotion and tenure)
1985	Texas A&M (full professor)
1985	Penn State University (promotion and tenure)
1985	University of Cincinnati (promotion and tenure)
1984	Louisiana State University (promotion and tenure)
1984	University of Pennsylvania (promotion and tenure)
1983	University of Massachusetts (promotion and tenure)
1981-82	Savannah River Ecology Laboratory (promotions)

### **Proposal Reviews**

- Water Resources Research Institute, North Carolina
- Swedish Natural Science Research Council
- Center for Transportation and the Environment, NC
- National Sciences and Engineering Research Council of Canada
- Third International Congress of Limnology and Oceanography - manuscript review
- National Science Foundation - Hydrologic Sciences
- National Science Foundation - Ecosystem Studies
- U.S. EPA/National Science Foundations Interagency Grant Competition
- Connecticut Sea Grant Program
- Michigan Sea Grant Program
- Woods Hole Oceanographic Institute Sea Grant Program
- John Wiley & Sons, Inc.-book proposal
- Chapman & Hall, Publishers - book proposal
- Elsevier Science Publishers - book proposal
- Great Lakes Protection Fund
- Louisiana Board of Regents, Louisiana Education Quality Support Fund
- Water Resources Research Institute, West Virginia University
- U.S. Department of Agriculture - various programs

- National Science Foundation
  - Division of Earth Sciences
  - Hydrologic Sciences
  - Geography Program
  - Academic Research Infrastructure Program
  - Division of Earth Sciences
  - Equipment & Facilities for Research at Marine Laboratories
  - Biological Research Resources
  - Ecosystem Studies Program
  - Division of International Programs
  - Biotic Systems Program
  - Environmental Engineering Program
  - Division of Policy Research and Analysis
- Virginia Environmental Endowment
- Savannah River Ecology Laboratory
- Water Resources Center, University of Illinois
- South Carolina Sea Grant Consortium
- U.S. Environmental Protection Agency
  - Competitive Grants Program
  - EPA/NSF Interagency Announcement
- Biology Review Panel
- Maryland Sea Grant Program
- Louisiana Sea Grant Program
- Council for International Exchange of Scholars
- Kentucky Water Resources Research Institute



## OTHER ACTIVITY--CONSULTING

	<b>Organization</b>	<b>Activity</b>
2009-10	State of Louisiana	Donaldsonville to the Gulf Project Review
2009-15	Battelle	review of U.S. Army Corps of Engineers Environmental Impact Statement for Lower Mississippi River floodplain project
2007	Nature Iraq	review programs and monitoring of marshes of southern Iraq, including Nature Iraq's water budget plan and future monitoring initiatives
2006	South Florida Water Management District, FL	Everglades ELM model review
2006	Battelle	Review of US Army Corps of Engineer's Louisiana Coastal Protection and Restoration Project to Congress
2005	Kripalu Yoga and Health Institute, Lennox, MA	Water resource utilization and conservation
2005	South Florida Water Management District, FL	Everglades accelerated restoration
2004	United Nations Environmental Programme	Short course on wetland restoration for Iraqi participants, Cairo, Egypt
2003	South Florida Water Management District, FL	Review of nutrient removal project
2002	Limno-Tech, Inc., Ann Arbor, MI	Lake Ontario wetland project review
2001	ICI Phosphorus, Ontario, Canada	wastewater and wetland creation
2001	Dawes Arboretum, Newark, OH	wetland creation/restoration
2000	International Joint Commission, Washington DC	review of draft report on the impact of wetlands in mitigating flooding in the Red River Basin, USA and Canada
1998-99	R.D. Zande & Associates, Inc., Columbus, OH	wastewater wetland design

1998	Thrasher Engineering, Charleston, WV	constructed wetland-Canaan Valley
1998	Wetland Initiative, Chicago, IL	Wetlands homeowner's handbook
1997-98	Kirkpatrick & Lockhart LLP, Harrisburg, PA	Wetlands and solid waste facility
1997	Spring Creek Golf Course, Memphis, TN	Golf course wetlands
1997	South Florida Water Management District, West Palm Beach, FL	S. Florida isolated wetland workshop
1996-98	Wetland Initiative and Michigan DNR	wetland creation for water quality improvement in Saginaw Bay, MI
1996	Philip Environmental, Groveport, OH	wetland creation project, Houston, TX
1996	BBC&M Engineers, Dublin, OH	mineland restoration project, So. OH
1995-prs.	Public Service Electric and Gas, NJ	coastal marsh restoration, Delaware Bay, NJ and Delaware
1995	Mid-American Waste Systems, Inc., Canal Winchester, OH	wetland mitigation plan, central OH
1992-95	Midwest Environmental Management, Toledo, OH	review of wetland mitigation project "Buckeye Basin"
1991-95	Bishoff & Associates, Inc., Columbus, OH	design of wastewater wetland
1991-92	University of Maryland, Solomons, MD	economics of constructed wetlands
1991	New Albany Co., New Albany, OH	feasibility study of mitigation wetland
1991	Association of Wetland Managers, Inc.  (with USEPA and Michigan DNR)	review panel for wetland golf course  controversy in upper Michigan
1991	US Environmental Protection Agency Corvallis, OR	review national wetland research plan
1991	SCS Engineers Reston, VA	review mitigation plan and design monitoring plan for constructed Wetland
1991	South Florida Water Management Dist. West Palm Beach, FL	peer review of research program in modeling

1991	Camp, Dresser & McKee Louisville, KY and Maitland, FL	design wetland planting for wastewater wetland
1990	US Environmental Protection Agency Duluth, Minnesota	wetland rehabilitation, Gross Ile, near Detroit, MI
1989-90	Carpenter Environ. Association, Inc. Northvale, NJ	wetland delineation, Staten Island, NY
1986-91	Wetland Research Inc. Chicago, IL	design research for experimental Des Plaines River Demonstration project
1989	Cogswell, Eggleston and Samuels, P.C. Columbus, OH	evaluation of wetland delineation for Toledo, Ohio airport expansion
1988-89	O.M. Scott & Sons, Marysville, OH and Arter & Hadden, Columbus, OH	evaluation of chemical spill in stream
1988-89	Martin Marietta Energy Systems, Inc. Piketon, OH	feasibility to convert sludge lagoon to wetland
1988	Bil Mar Foods, Inc., Garrettsville, OH Warner, Norcross & Judd, Grand Rapids, MI	feasibility study of artificial wetland for wastewater control (poultry wastewater)
1988	US Environmental Protection Agency  Corvallis, OR and Roy F. Weston, Inc. Washington, DC	development of research and monitoring  plan for wetlands and water quality
1988	Versar, Inc., Columbia, MD and US Environmental Protection Agency, Washington, DC	evaluation of "Wetlands Research and Monitoring Plan 1990-2000"
1987	US Environmental Protection Agency, Corvallis, OR	peer review of EPA's Wetland Research Program
1986	Carpenter Environ. Association, Inc. Northvale, NJ	wetland assessment in Staten Island, NY
1984-85	Environmental Services and Permitting Gainesville, FL	environmental impact of highway on wetlands
1983-85	Camp, Dresser & McKee, Jacksonville, FL and US EPA, Washington, DC	report on function and management of bottomland hardwood wetlands

1983-84	Mountain Association for Community Economic Development, Inc., Berea, KY	report on water supply and quality in Kentucky
1981-84	Claude Terry & Associates, Atlanta, GA and US EPA, Atlanta, GA	technical review of EPA Region IV wetlands EIS
1982	Governor's Office, State of Tennessee	wetland management report for Tennessee
1980	Murphy Engineering, Inc. Chicago, IL	environmental impact of highway construction on wetlands in Indiana
1979	Illinois Institute of Natural Resources	popular report on the value of floodplain wetlands
1978-79	Metropolitan Sanitary District of Greater Chicago	evaluation and expert witness on ecological simulation model
1978	U.S. Homes, Inc. Chicago, IL	study of eutrophication potential of private lake in new home development
1978	City of Chicago and H.W. Lochner Inc., Chicago, IL	environmental impact of wetland alteration
1977	North Shore Sanitary District	environmental impact of proposed sludge
	Gurnee, IL	material disposal on floodplain
1977	Village of Inverness, IL	management alternatives for wetlands near village
1976	Village of Woodridge, IL	eutrophication study of private lake