

Title	Funding Year	PI	Organization	Competition
<b>Shifts in Soutwestern Lake Michigan benthic food web dynamics since the invasion of zebra mussels</b>	1993	Nancy Tuchman	Loyola University	National Strategic Initiative
<b>The Population Dynamics and Ecology of Zebra Mussels in Inland Lakes</b>	1994	David Garton	The Ohio State University	NSI-AIS Research
<b>Pilot zebra mussel case study training</b>	1994	Robert Williams	Southern Illinois University-Edwardsville	Development
<b>Core proposal for zebra mussel outreach activities</b>	1994	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative
<b>Assessment of Genetic Damage in Bullhead Catfish in Contaminated Reservoir in the Great Lakes Basin Region Using the Alkaline DNA Unwinding Method</b>	1995	Olin (Gene) Rhodes	Purdue University	Development
<b>Assessment of Bacterial and Viral Contamination in Burns Ditch and Lake Water in Northwest Indiana</b>	1995	W.T. Evert Ting	Purdue University Calumet	Omnibus
<b>Lipid Nutrition and Metabolism in Yellow Perch</b>	1995	Paul Brown	Purdue University	NSI-Aquaculture
<b>Market Research for Yellow Perch Aquaculture</b>	1995	Jean Riepe	Purdue University	Development?
<b>Potential Impacts of Invading Ruffe on Benthic and Pelagic Ecosystems of the Great Lakes</b>	1995	Gary Lamberti	University of Notre Dame	NSI-AIS Research
<b>Limiting Factors and Ecological Effects of Zebra Mussels in a Southern lake Michigan Drainage</b>	1995	Gary Lamberti	University of Notre Dame	Omnibus
<b>Yellow Perch Effluent Characterization</b>	1995	Jeffrey Wood	Illinois State University	Unknown
<b>Zebra mussel education project: The Traveling Trunk</b>	1995	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative

<b>Evaluation of Yellow Perch, <i>Perca flavescens</i>, Production Methods in Polyculture and Seasonal Rotation with Freshwater Prawns</b>	1997	James Tidwell	Kentucky State University	Development
<b>Exotic species day camp: A regional teacher training initiative extending Sea Grant education on nonindigenous species</b>	1997	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative
<b>Bioremediation of Sediments Contaminated by Polynuclear Aromatic Hydrocarbons</b>	1997	Deborah Ross	Indiana University Purdue University Fort Wayne	Omnibus
<b>Degradation and Restoration of Lake Michigan: Past and Future of Nonindigenous Species</b>	1997	David Lodge	University of Notre Dame	NSI-AIS Research
<b>Development of a Biological Indicator of Exposure to PAHs in Fishes of the Grant Calumet River System</b>	1997	Robert Gillespie	Indiana University Purdue University Fort Wayne	Omnibus
<b>Isolation of Fish Growth Factors</b>	1997	Paul Collodi	Purdue University	Development
<b>Model HACCP-like plan to restrict the spread of exotics via the baitfish/aquaculture vector</b>	1997	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>Zebra mussel workshop for inland water users: Prevention and protection through education</b>	1997	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>Model of Lake Michigan-Illinois River zebra mussel metapopulations: Evaluating possible control strategies</b>	1997	Daniel Schneider	University of Illinois	National Strategic Initiative
<b>The Lake Calumet Economic Ecosystem Initiative</b>	1997	Suzanne Malec	City of Chicago	Omnibus
<b>Descriptive study for an environmental resource directory to promote sustainable development in Northwestern Indiana</b>	1998	B.A. Waxman	<i>Unknown</i>	Development
<b>Sediment dynamics in stream and river ecosystems: Sources, effects, and mitigation conference support</b>	1998	Jerry Sweeten	Asherwood Environmental Science Center	Development
<b>Exploring the role of food availability to yellow perch recruitment success</b>	1998	John Dettmers	Illinois Natural History Survey	Development

<b>Genomic Typing of E. coli Isolates from Human, Animal and Environmental Sources by Random Amplified Polymorphic DNA (RAPD) Analysis</b>	1998	W.T. Evert Ting	Purdue University Calumet	Development
<b>Low Frequency Electromagnetism as an Effective Method for the Control of Zebra Mussel Infestation</b>	1998	Matthew Ryan	Purdue University Calumet	Development
<b>Outdoor Recreation and the NSRE: An Examination of Nature Based Learning Activities with a Focus on Water</b>	1998	Joseph O'Leary	Purdue University	Development
<b>Contamination of Wetland Sediments Indiana Dunes National Lakeshore: Implications for Wetland Restoration Strategies</b>	1998	Catherine Souch	Indiana University Purdue University Indianapolis	Omnibus
<b>Dispersal of Exotic Species in the Great Lakes: Crayfish as Model System for Benthic Species</b>	1997	David Lodge	University of Notre Dame	Omnibus
<b>A Genotoxicological Approach to Biomonitoring Biomarkers for Carcinogens in Bullhead Catfish</b>	1997	Olin (Gene) Rhodes	Purdue University	Omnibus
<b>Natural photochemically-mediated destruction of contaminants in rivers and lakes of the Calumet Area</b>	1998	Gary Peyton	Illinois State Water Survey	Omnibus
<b>Primordial Germ Cell Cultures for Transgenic Fish Production</b>	1998	Paul Collodi	Purdue University	Omnibus
<b>Recruitment Failure of Yellow Perch in Lake Michigan: Evaluation of the Starvation and Predation Hypotheses</b>	1998	John Janssen	Univeristy of Wisconsin	Omnibus
<b>Round Goby and Mottled Sculpin Spawning Interactions</b>	1998	Martin Berg	Loyola University Chicago	Omnibus
<b>Interstate coordination of regional planning</b>	1999	John Swanson	Northeastern Illinois Planning Commission	Development
<b>Predicting Zebra Mussel Transport in Rivers and Estuaries</b>	2000	Chris Rehmann	University of Illinois	Omnibus

<b>Exotic aquatics on the move: Building a web of awareness for geography educators and students</b>	1999	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative
<b>A national invasive aquatic plant outreach initiative</b>	1999	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>Biological control of purple loostribe by 4-H field volunteers</b>	1999	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>Sustaining wild harvest and aquaculture of bait fish in ANS infested waters and reducing risk of ANS spread</b>	1999	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>The role of larval growth, mortality and transport in metapopulation dynamics and control of the zebra mussel in freshwater and estuarine systems</b>	1999	Daniel Schneider	University of Illinois	National Strategic Initiative
<b>Molecular recognition based sensing of critical and emerging LaMP pollutants: A versatile new nano-engineered materials approach</b>	1999	Joseph Hupp	Northwestern University	Omnibus
<b>Determination of the Effects of Culture Temperature on Growth, Survival and Biochemical Composition of Largemouth Bass</b>	2000	James Tidwell	Kentucky State University	Development
<b>Programming and interpretation planning for the Indian Ridge Marsh Environmental Center</b>	2000	Suzanne Malec	City of Chicago	Development
<b>Outreach and education about the Great Lakes using a research vessel in a college course</b>	2000	Kelly Tzoumis	DePaul	Development
<b>The Development of Molecular and Biochemical Tools to Assess Changes in Yellow Perch Growth Hormone</b>	2000	Frederick Goetz	University of Notre Dame	Omnibus
<b>Development of water markets for Northeastern Illinois</b>	2000	Martin Jaffe	U of I at Chicago	Omnibus
<b>DNA Fingerprinting as a Means for Tracing the Souce of E. coli Contamination</b>	2000	Charles Tseng	Purdue University	Omnibus
<b>Influence of Upwelling Events on Larval Juvenile Yellow Perch</b>	2000	John Janssen	University of Wisconsin	Omnibus

<b>Zebra Mussels, Round Gobies, and Eurasian Ruffe: Predicting Ecological Impacts of the Exotic Triad to Improve Control Project</b>	2000	Gary Lamberti	University of Notre Dame	Omnibus
<b>Consequences of Round Goby Invasion for Littoral Zone Communities: Effects of Sculpins and Benthic Invertebrates</b>	2000	Martin Berg	Loyola	Omnibus
<b>A national ANS-HACCP training initiative to prevent the spread of aquatic nuisance species in baitfish and fish for stocking</b>	2001	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>A decision tree for water suppliers addressing zebra mussel problems</b>	2001	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>Metapopulation Dynamics and Control of the Zebra Mussel in Freshwater and Embayments</b>	2001	Dianna Padilla	State University of New York	NSI
<b>Programming and interpretation planning for the Indian Ridge Marsh Environmental Center</b>	2001	Suzanne Malec	City of Chicago	Omnibus
<b>IISG radio ads</b>	2002	Robin Goettel	Illinois Indiana Sea Grant	Development
<b>Water supply framework for the Great Chicago Region -- phase II</b>	2002	Kerry Leigh	Northeastern Illinois Planning Commission	Development
<b>Implementing interstate coordination of regional planning project</b>	2002	John Swanson	NIRPC	Development
<b>Climate change: A real issue with real concerns for the Midwest</b>	2002	Donald Wuebbles	University of Illinois	Development
<b>ESCAPE from Exotics: Break out of your classroom routine by exploring the interesting world of exotic aquatic species</b>	2002	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative
<b>Modeling the inactivation of Vibrio parahaemolyticus in oysters by high pressure processing</b>	2002	Peter Slade	Illinois Institute of Technology, Moffett Campus	National Strategic Initiative
<b>An evaluation of barriers for preventing the spread of bighead and silver carp to the Great Lakes</b>	2002	Mark Pegg	Illinois Natural History Survey	National Strategic Initiative
<b>Effects of invasive invertebrate predators on the food web of the Great Lakes</b>	2002	Carla Caceres	University of Illinois	National Strategic Initiative

<b>Bighead carp in the Upper Mississippi River: Competition with native filter-feeding fishes and potential threats to the Great Lakes</b>	2002	John Chick	Illinois Natural History Survey	Omnibus
<b>Chemical speciation and availability of metals in wetlands</b>	2002	Jean-Francois Gaillard	Northwestern University	Omnibus
<b>Mercury methylation and demethylation in a contaminated urban watershed</b>	2002	Robert Hudson	University of Illinois	Omnibus
<b>Targeted Inactivation of the Fish Aromatase Gene</b>	2002	Paul Collodi	Purdue University	Omnibus
<b>Biological diversity of Lake Michigan tributary fished in Northeastern Illinois</b>	2003	Mike Retzer	University of Illinois	Development
<b>Water supply framework for the Greater Chicago Region</b>	2003	Kerry Leigh	Northeastern Illinois Planning Commission	Development
<b>The proper roles of science in protecting aquatic ecosystems in the Southern Lake Michigan Region</b>	2003	Eric Freyfogle	University of Illinois	Development
<b>Printing Costs for Illinois Steward</b>	2003	Dick Warner	University of Illinois	Development
<b>Implementation of a national outreach strategy for the pet/aquarium industry</b>	2003	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative
<b>A study of yellow perch, <i>perca flavescens</i>, and growth based on varying dietary regimes</b>	2004	James Gentile	Aquatic Research Interactive, Inc.	Development
<b>Citizen water quality monitoring program and database</b>	2004	Jean Flemma	Prairie Rivers Network	Development
<b>Nab the Aquatic Invader! -- A nationwide online educational program to direct attention to AIS issues and inspire action</b>	2004	Robin Goettel	Illinois Indiana Sea Grant	National Strategic Initiative
<b>Evaluating Asian carp colonization potential and impact in the Great Lakes</b>	2004	Walter Hill	Illinois Natural History Survey	National Strategic Initiative
<b>Aquatic Nuisance Species-Evaluating the Ecological and Economic Value of the 100<sup>th</sup> Meridian Initiative</b>	2004	David Lodge	University of Notre Dame	NSI

<b>Quantifying the impact of land cover change and of climate change on floods in Northeastern Illinois</b>	2004	Sally McConkey	Illinois State Water Survey	Omnibus
<b>The Calumet Area ecological management strategy: Measuring the non-market economic benefit</b>	2004	Daniel McGrath	University of Illinois at Chicago	Omnibus
<b>Water supply planning modeling tool for local governments</b>	2004	Kerry Leigh	Northeastern Illinois Planning Commission	Omnibus
<b>Urban stream naturalization -- a system context for practice implementation</b>	2004	Edwin Herricks	University of Illinois	Omnibus
<b>EPA Smart Growth extension partnership</b>	2004	Dick Warner	University of Illinois	Omnibus
<b>Reconstructing Low Lake Levels of Lake Michigan</b>	2004	Tim Fisher	University of Toledo	Omnibus
<b>Feasibility study for Marquette Plan Extension and Regional Greenways and Water Trails Plan for NW Indiana</b>	2005	John Swanson	Northeastern Illinois Planning Commission	Development
<b>Great Lakes Center for Ocean Science Education Excellence</b>	2005	Robin Goettel	Illinois Indiana Sea Grant	NSGO
<b>Economic Impact of Ballast Mediated Invasive Species in the Great Lakes</b>	2003	David Lodge	University of Notre Dame	National Strategic Initiative
<b>Multi-site economic benefits of sediment remediation at Great Lakes Areas of Concern</b>	2006	John Braden	University of Illinois	Omnibus
<b>Biogeochemical controls on methylmercury concentrations and sediment-porewater partitioning in surficial wetlands sediments along the southern shore of Lake Michigan</b>	2006	Robert Hudson	University of Illinois	Omnibus
<b>Development of a comparative toxicity database for U.S. EPA Priority Drinking Water Disinfection By-Products</b>	2006	Michael Plewa	University of Illinois	Omnibus
<b>Evaluating the risk of transfer by watercraft of aquatic nuisance species in the Chicago Sanitary and Ship Canal</b>	2006	Daniel Schneider	University of Illinois	Omnibus

<b>Exploring the diversity and biopharmaceutical potential of uncultivable bacteria from Lake Michigan sediments</b>	2006	Jimmy Orjala	University of Illinois at Chicago	Omnibus
<b>Alterations of Lake Michigan benthic communities by the invasive hydroid, <i>Cordylophora caspia</i>: Effects on fish prey</b>	2006	Nadine Folino-Rorem	Wheaton College	Omnibus
<b>Incorporating Contaminant Levels into Models of Fishing Location Choice: An Application to Fisheries in the Great Lakes (include in chart??)</b>	2006?	Cameron Speir	University of Illinois	NMFS-Sea Grant Fellowship Marine Resource Econ.
<b>Ecosystem Based Management of Interacting Resources: Atlantic Herring, Humpback Whales, and Sandlance in the Gulf of Mexico (if we include Cameron, we should include this one. I would include them.)</b>	2007	Min-Yang Lee	University of Illinois	NMFS-Sea Grant Fellowship Marine Resource Econ.
<b>Proposal development to provide multi-year funding for studying effects of global climate change and variability on water quality in the Great Lakes region</b>	2008	Momcilo Markus	University of Illinois	Development
<b>Riverine nutrient export from tile-drained Illinois watersheds that contribute to Gulf of Mexico hypoxia</b>	2008	Markus David	University of Illinois	Development
<b>Reducing the risks of schools, science curricula and biological supply houses as potential pathways for spreading aquatic invasive</b>	2008	Goettel/Charelbois	University of Illinois	National Strategic Initiative
<b>Ecosystem-Scale Evaluations of the effectiveness of sound-bubble barriers to prevent spread of bighead and silver carp</b>	2008	Greg Sass	Illinois Natural History Survey	National Strategic Initiative
<b>Integrated modeling for the ecosystem restoration of marshes in the Lake Calumet Area</b>	2008	Lian, Cai, Roadcap	University of Illinois	Omnibus
<b>Development of virtual coastal cities for Indiana</b>	2008	Jie Shan	Purdue University	Omnibus



<b>How do species invasions affect water quality services performed by Great Lakes coastal wetlands?</b>	2008	Nancy Tuchman	Loyola University	Omnibus
<b>Real-time fluorometric assay for sewage presence: A cost-effective method to determine potential water quality to swimmers and ecosystem health</b>	2008	Kizhanipuram Vinodgopal	Indiana University Northwest	Omnibus
<b>Modeling the 10-year changes of juvenile fish assemblages in Lake Michigan nearshore waters</b>	2009	Yang Cao	University of Illinois	Development
<b>An Illinois green infrastructure and ecosystem services valuation tool</b>	2009	Brian Deal	University of Illinois	Development
<b>Toxic byproducts generated in disinfected drinking water contaminated with pharmaceuticals</b>	2009	Michael Plewa	University of Illinois	Development
<b>The effects of land use patterns on physiology of freshwater fish</b>	2009	Zachary Blevins	University of Illinois	Development
<b>Utilization of genomic signatures from <i>Hyalella azteca</i> as a way to quickly evaluate toxicity and need of sediment remediation in the Great Lakes Basin</b>	2009	Maria Selpulveda	Purdue University	Development
<b>A web-based tool to measure environmental quality standards for phosphorous in water at Lake Erie</b>	2009	Antony Asushla	Purdue University	Development
<b>Evaluation of phosphorus loading following a manure spill and an in-stream sediment amendment to reduce phosphorous desorption</b>	2009	Shalmar Armstrong	Purdue University	Development
<b>Replacement of fish meal in hybrid striped bass diets with proteinaceous fermentation biomass</b>	2009	Brian Gause	Southern Illinois University-Edwardsville	Development
<b>Increasing the availability of veterinarians for Indiana and Illinois aquaculture</b>	2009	Jesse Trushenski	Southern Illinois University-Edwardsville	Development

<b>Simulating the implications of recreational disturbance on Karner Blue butterflies at the Indiana Dunes National Lakeshore.</b>	2009	Patrick Zollner	Purdue University	Development
<b>Reducing the risks of schools, science curricula and biological supply houses as potential pathways for spreading aquatic invasive species</b>	2009	Patrice Charlebois	Illinois Natural History Survey	National Strategic Initiative –Aquatic Invasive Species
<b>Genetic identification of Asian carp hybrids -- a new threat to invaded waters</b>	2009	John Epifanio	Illinois Natural History Survey	Research
<b>Trace organics in Lake Michigan: Concentration and detection frequency of pharmaceuticals in the near-shore water column</b>	2010	Melody Bernot	Ball State University	Development
<b>Food webs in the 21st century: Exploration of new enabling technologies to understand and predict changes in aquatic food webs and impacts of ecosystem</b>	2010	Paul Brown	Purdue University	Development
<b>Genomic resources in lake sturgeon</b>	2010	Andrew DeWoody	Purdue University	Development
<b>Nutrient fluxes in tile drains and ditches draining Midwestern agricultural fields fertilized with manure</b>	2010	Chad Jafvert	Purdue University	Development
<b>Pilot field observations of Lake Michigan atmospheric boundary layers</b>	2010	David Kristovich	University of Illinois	Development
<b>Ecological genetics of Phragmites australis invasion in southern Lake Michigan coastal habitats</b>	2010	Daniel Larkin	Chicago Botanic Garden	Development
<b>Evaluating environmental DNA detection alongside standard fish sampling in Great Lakes coastal wetland monitoring</b>	2010	David Lodge	Notre Dame	Development
<b>Energy efficient and sustainable aquaculture water treatment using microbial fuel cells and membrane-supported biofilms</b>	2010	Robert Nerenberg	Notre Dame	Development
<b>Real-time online access to fish consumption advice</b>	2010	Charles Santerre	Purdue University	Development

<b>Using ecological theory of alternate stable states to improve sewage treatment plant operations</b>	2010	Daniel Schneider	University of Illinois	Development
<b>Pharmaceuticals removal from onsite wastewater (septic) systems</b>	2010	Hassian Azam	University of Illinois	Development
<b>Influence of riparian forest and agricultural land use on stream community structure and ecosystem function</b>	2010	Eden Effert	University of Illinois	Development
<b>Coastal community's preferences for local climate change mitigation measures (using choice experiment and virtual world technology)</b>	2010	Zahra Golshani	University of Illinois	Development
<b>Contaminant transport by introduced Pacific salmon to Great Lakes tributaries</b>	2010	David Janetski	Notre Dame	Development
<b>Is wind energy development community development? Cooperative governance as social enterprise</b>	2010	Keith Taylor	University of Illinois	Development
<b>Modeling the effects of land use/land cover change on surface water quality within the Chicago MSA</b>	2010	Cyril Wilson	Indiana State University	Development
<b>Genetic identification of Asian carp hybrids -- a new threat to invaded waters</b>	2010	John Epifanio	Illinois Natural History Survey	Research Coordination
<b>Constructing the nearshore Lake Michigan food web using multiple trophic indicators</b>	2010	Serguisz Czesny	Illinois Natural History Survey	Omnibus
<b>Developing functional indicators of coastal wetland health</b>	2011	Matthew Cooper	University of Notre Dame	Development
<b>Impacts of nanomaterials on aquatic microbial communities</b>	2011	John Kelly	Loyola University	Development
<b>The effect of wet weather driven dissolved oxygen sags on fishes in urban systems</b>	2011	Greg Gaulke	University of Illinois	Development
<b>Restoration of native pine species in Great Lakes coastal environments</b>	2011	Robert Fahey	The Morton Arboretum	Development
<b>Assessing consumer preferences and demand for fish: A market analysis of the Midwest aquaculture industry</b>	2011	David L. Ortega	Purdue University	Development

<b>Quantifying estrogen compound and nutrient reduction in a coupled wetland and groundwater flow-through system</b>	2011	Eric Peterson	Illinois State Universtiy	Development
<b>Impacts of invasive Asian carps on native food webs</b>	2011	David H. Wahl	University of Illinois UC	Development
<b>Trace organics in Lake Michigan: Concentration and detection frequency of pharmaceuticals in the near-shore water column</b>	2011	Melody Bernot	Ball State University	Development
<b>Modeling methods to evaluate low impact development</b>	2011	Laurent Ahiablame	Purdue University	Development
<b>Estimating the ecological impacts of pharmaceuticals in Lake Michigan</b>	2012	Maria Selpulveda	Purdue University	Development
<b>Low impact development in Chicago for integrated watershed management across scales</b>	2012	Charles Werth	University of Illinois	Development
<b>A three stage outreach transferability program of a decision making tool to prevent, manage, and control Asian carp populations in Lake Michigan tributaries based on the evaluation of the transport of eggs of local Asian carp populations</b>	2012	Marcello Garcia	University of Illinois	Development
<b>Development of Lake Michigan actinomycete bacteria as a source of antibiotic drug leads</b>	2012	Brian Murphy	University of Illinois	Development
<b>On the feasibility of establishing a saline aquaculture industry in Illinois</b>	2012	Nandakishore Rajagopalan	Illinois Sustainable Technology Center	Development
<b>PhragNet: a cooperative learning network for adaptive management of phragmites-invaded habitats</b>	2012	Daniel Larkin	Chicago Botanic Garden	Development
<b>Alteration of nutrient cycling and food web structure by profundal quagga mussels in Lake Michigan</b>	2013	Cary Troy	Purdue University	Omnibus