

Number of Applicants

Year	Number of Applicants
2000	44
2001	33
2002	27
2003	23
2004	62
2005	34

Where They Are Now

One of the goals of the REU program is to encourage students to pursue careers in science and possibly go to graduate school. Many of the students that we had in our program the first two years have either taken up a profession related to their REU experience or have gone on to graduate school.

Summer 2000 Students	Where They Are
Susan Dunham	Works for NOAA silver Springs, MD
Laura Poulos	Works for an Environmental Engineering Firm
Katrina Schutte	Works for the city of Los Angeles in planning.
Ariel Terranova- Webb	Graduate student at the University of Kentucky
Natalie Gottschall	Graduate student at Carleton University
Autumn Ash	Works at Carleton College in MN in Language Center
Catherine Buchanan	Works for Civil/environmental Eng. Firm in CA
Jaclyn Hurley	Assistant Director of Special Events, Anti-Defamation League
Summer 2001 Students	
Mike Edwards	Hancock County Auditor's Office GIS
Matthew Do	Works for an Environmental Engineering Firm, plans to go to grad school in the future.
Kelly Ketchum	Graduate student at Ohio State University
Sarah Fuller	Work for a county planning office.
Andrew Hoskens	Graduate student at the University of Toledo
Summer 2002 Students	
Erica Bishop	Grad student San Diego State
Amy Campbell	
Adam Dellinger	Part time work for USDA-NRCS – will go for Masters – fall 2004
Adam DeMars	Working for NW Sewer District (GIS)
Deanna Heluska	Keystone College – working in environmental institute
Kate Lanza	
Leslie Mendoza	
Justin Struble	Working at Ashland Specialty Chemical, Dublin, OH

David Tessier	Working for Rouge River Stewardship
Shawn Spears	
Summer Student 2003	
Brian Putman	
Jona Scarbro	UT graduate student
Todd Kunselman	Doing GIS work for Snyder Brothers Oil and Gas, Kittanning, PA
Christopher Gross	Applying to grad school
Ryan Argo	UT graduate student
Phil Haney	UT graduate student
Kari Gerwin	UT graduate student
Lauren Keinath	
Jennifer VanFossen	
Rebecca Kregar	

Summer Student 2004	Year
Takelia Bragg	
Natalie Brown	
Colin de Saint Victor	
Carolyn Doehring	Americorps volunteer
Jessica Henning	
Lauren Keinath	
Sarah Opfer	
Alycia Pittenger	
Astrid Rodriguez	
Michelle Roy	Works for Tele Atlas North America in Lebanon, NH
Jennifer Talkington	

Papers/talks

- Bragg, T., Surface temperature observations; making it fun for students, GLOBE training, University of Toledo, October 9, 2004.
- Bragg, T., Surface temperature observations; making it fun for students, GLOBE training, Bowling Green State University, June 22, 2005.
- Bragg, T., Surface Temperature Protocol, Observing Earth from Space Teacher Institute, GLOBE training, Stark County Education Service Center, Aug. 2, 2005.
- Bragg, T., Surface Temperature Protocol, Observing Earth from Space Teacher Institute, GLOBE training, Ohio Aerospace Institute, Aug. 9, 2005.
- Lohner, R. N., C. Balogh, W.V. Sigler, C.M. Mayer, *Dreissena* clusters on the benthic microbial community of lakes. Presentation at International Association of Great Lakes Research, Ann Arbor, MI, May 2005.

- Czajkowski, D. J., K. P. Czajkowski, J.E Rader, A. L. Spongberg, and K. Gerwin, 2004, Investigation of potential environmental impact of biosolid sludge application on agricultural fields, East Lakes Division of the Association of American Geographers, Athens, Ohio, Oct. 15-16, 2004.
- Czajkowski, K. P. and P. Lawrence. 2003. Research Experience for Undergraduates (REU) at the University of Toledo's Lake Erie Center: Environmental Studies of the Lake Erie Watershed, Association of American Geographers, Kalamazoo, MI. Oct 17 – 20, 2003.
- Gerwin, K. and P. Lawrence. 2003, Impact of Land Use on Water Quality for the Ottawa River, Association of American Geographers, Kalamazoo, MI. Oct 17 – 20, 2003.
- Gross, C. 2004, Validation of the MODIS Snow Product with Student Observations, Association of American Geographers (AAG) annual meeting, Philadelphia, PA, March 15-20, 2004.
- K. McKenna, D. Moorhead. 2003. Response of native turtles to habitat variation in the Ottawa National Wildlife Refuge: preliminary analysis 2002-2003 seasons. International Association of Great Lakes Researchers (IAGLR) Conference, Chicago, IL.
- K. McKenna, D. Moorhead., Response of native turtles to habitat variation in the Ottawa National Wildlife Refuge: preliminary analysis 2002-2003 seasons., Midwest Ecology and Evolution Conference (MEEC), University of Notre Dame, South Bend, IN, March 5-7, 2004
- K. McKenna, D. Moorhead., Response of native turtles to habitat variation in the Ottawa National Wildlife Refuge: preliminary analysis 2002-2003 seasons., Western Great Lakes Research Conference, National Park Service, March 16-17, 2004.
- Bishop, E., *An Accuracy Comparison of an ASTER Derived DEM to existing USGS 30 meter DEM* http://www.okstate.edu/gradcoll/events/ressymp/default_ORIGINAL.html, 14th Annual Research Symposium March 5- March 7, 2003.
- DeMars, A. and K. Czajkowski, *Landsat 7 vs. EO1 Hyperion for the Classification of Corn and Soy*, East Lakes Division of the Association of American Geographers (ELDAAG) conference, Mount Pleasant, MI, Oct. 18, 2002.
- DeMars, A. Landsat 7 Mosaics and classification of Ohio, OhioView annual meeting, 1-15-03.
- Lawrence, P., S. Fuller, and K. P. Czajkowski, The Application of Remote Sensing Technology for Wetland Classification and Implications for Environmental Planning within the Maumee River Watershed, NW Ohio, East Lakes Division of the Association of American Geographers (ELDAAG) conference, Cincinnati, OH, Oct. 27, 2001.
- Weis, E. and K. P. Czajkowski, Expand or Reroute: a Study of US Route 24, East Lakes Division of the Association of American Geographers (ELDAAG) conference, Cincinnati, OH, Oct. 27, 2001.
- Edwards, M., K. P. Czajkowski, K. P. and P. Lawrence, Application of Total Solids and Turbidity Readings in the Ottawa River Water shed for Non-point Source Pollution Detection, East Lakes Division of the Association of American Geographers (ELDAAG) conference, Cincinnati, OH, Oct. 27, 2001.

- Andrew J. Hosken and Deborah A. Neher Effect Of Environmental Stress On Soil Nematode Life History Characteristics, Ohio Academy of Science, April 2002.
- Roberta M. Veluci, Kelly Ketcham, Deborah A. Neher, Microbiotic Crust Communities Fix Nitrogen In A Temperate Oak Savanna. Ohio Academy of Science, April 2001.
- Sue Dunham East Lakes Division of the Association of American Geographers (ELDAAG) conference, University of Miami, Oxford, OH, Oct. 19-21, 2000.
- Laura Poulos – East Lakes Division of the Association of American Geographers (ELDAAG) conference, University of Miami, Oxford, OH, Oct. 19-21, 2000.
- Ariel Terranova-Webb East Lakes Division of the Association of American Geographers (ELDAAG) conference, University of Miami, Oxford, OH, Oct. 19-21, 2000.
- Ariel Terranova-Webb – East Lakes Division of the Association of American Geographers (ELDAAG) conference, , Association of American Geographer’s 97th Annual Meeting in New York City, February 27-March 3, 2001.
- Kelly D. Ketcham, Microbiotic Crust Communities Fix Nitrogen In A Temperate Oak Savanna. (Deborah A. Neher), National Conference for Undergraduate Research (NCUR), UWisconsin-Whitewater, WI, April 2002.
- Andrew J. Hosken and Deborah A. Neher, Effect Of Environmental Stress On Soil Nematode Life History Characteristics, National Conference for Undergraduate Research (NCUR), UWisconsin-Whitewater, WI, April 2002.
- Adam, East Lakes, OhioView meeting 2002/2003.
- Adam Dellinger, Duck and Otter Creek GIS, Pennsylvania Geographical Society, Erie, PA, 2002.
- Czajkowski, K. P. and A. Spongberg, Research Experience for Undergraduates (REU) at the University of Toledo’s Lake Erie Center: Environmental Studies of the Lake Erie Watershed, American Geophysical Union Fall Meeting, San Francisco, CA. Dec. 10-14, 2001, p. 230.
- Phil Haney, Presentation to the Toledo Metroparks, 7/31/2003.
- Jennifer VanFossen, Presentation to the Duck and Otter Creek Partnership, 7/17/2003.

Publications

- Susan Tran, MS thesis, "Habitat Selection by Native Turtles in a Lake Erie Wetland", REU grant supported, 2005.
- Dunham, S., M. Fonstad, S. Anderson, K. Czajkowski, 2005, Using Multi-temporal Satellite Imagery to Monitor the Response of Vegetation to Drought in the Great Lakes Region, GIScience & Remote Sensing, 42, 185-201.

Projects

REU 2000		
Autumn Ash	<i>Policy issues with Manhattan Marsh nature preserve</i>	St. Mary-of-the-Woods
Sheryl Bell	<i>Comparison of microbial communities in an agricultural impacted marsh</i>	Morning Side College
Catherine Buchanan	<i>Feasibility of using Fostoria plants for phytoremediation—removal of heavy metals</i>	Humboldt State

Matt Cunningham	<i>Longevity of escherichia coli and heterotrophic bacteria in freshwater sediments</i>	Ohio Wesleyan University
Susan Dunham	<i>Crop identification using satellite imagery</i>	SUNY Geneseo
Natalie Gottschall	<i>Feasibility of using Fostoria plants for phytoremediation—removal of heavy metals</i>	Nipissing University
Jaclyn Hurley	<i>Communicating the goal: a united front against non-point source pollution</i>	Wheaton College
Laura Poulos	<i>Utilizing remote sensing and geographic information systems to locate and monitor riparian buffer zones</i>	University of Toledo
Bryan Sams	<i>Avoiding the pitfalls of voluntary environmental protection programs with agricultural zoning</i>	Ohio Wesleyan University
Katrina Schutte	<i>Assessment of the urban heat island effect in Lucas County with remote sensing technology</i>	San Diego State
Ariel Terranova-Webb	<i>The effects of spatial land-use change on the suspended sediment load of the Ottawa River and its tributaries; a study in non-point source pollution</i>	Ohio Wesleyan University

REU 2001		
Matthew Do	<i>Hyperspectral Remote Sensing</i>	Penn State
Adam DeMars	<i>Hyperspectral Remote Sensing</i>	University of Toledo
Mike Edwards	<i>Application of Total Solids and Turbidity in the Ottawa River Watershed for Non-point source pollution detection</i>	University of Toledo
Andrew Hoskens	<i>Correlation between biological crust composition and nitrogen fixation</i>	University of Toledo
Sarah Fuller	<i>Prairie Wetlands: Application of Remote Sensing</i>	West Chester University
Andrew Hudak	<i>Hydro-geologic Survey of the Lake Erie Center Property: Soil Analysis and Well Installation as Preliminary Steps for a Study of Ground Water/Lake Water Level Relationships</i>	Ohio Wesleyan University
Kelly Ketchum	<i>Correlation between biological crust composition and nitrogen fixation</i>	Bowling Green State
Stephen Meininger	<i>Effects of stress on nematode life history characteristic</i>	Ohio Northern University
Katherine Rogers	<i>Crop Identification Using Multitemporal Satellite Imagery</i>	Indiana University
Justin Struble	<i>The Potential for the Use of Landsat in Time Series Analysis: Cloud Coverage in Northwest Ohio</i>	Kenyon College

Erin Weis	<i>Expand or Reroute: A Study of US Route 24</i>	Ohio Wesleyan U.
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REU 2002		
Erica Bishop	<i>An Accuracy Comparison of an ASTER Derived DEM to existing USGS 30 meter DEM</i>	Oklahoma State University
Amy Campbell	<i>Ecological study of a northern forest ecosystem</i>	University of Idaho
Adam Dellinger	<i>Watershed Planning in Northwest Ohio: A Small-Scale GIS Application</i>	Shippensburg University
Adam DeMars	<i>Landsat 7 vs. EO1 Hyperion for the Classification of Corn and Soy</i>	University of Toledo
Deanna Haluska	<i>Phytoremediation of Fostoria Sludge Farm</i>	Keystone College
Kate Lanza	<i>Phytoremediation of Fostoria Sludge Farm</i>	University of Toledo
Leslie Mendoza	<i>Doehler-Jarvis: A Toledo Brownfield Site</i>	University of Toledo
Shawn Spears	<i>Habitat Preference of Painted Turtles (<i>Chrysemys picta</i>) in the Ottawa National Wildlife Refuge</i>	University of Toledo
Justin Struble	<i>Monitoring Turbidity in Lake Erie using Landsat 7/ETM+</i>	Kenyon College
David Tessier	<i>Habitat Preference of Painted Turtles (<i>Chrysemys picta</i>) in the Ottawa National Wildlife Refuge</i>	Ohio Wesleyan

REU 2003		
Brian Putman	<i>The Antenna-waving Wasp <i>Tachypex pechumani</i></i>	Defiance College
Lauren Keinath	<i>A Brief Survey of the Surface Microbiological Communities at King Road Landfill and its Adjacent Floodplain</i>	Michigan State University
Jona Scarbo	<i>Maumee Bay E-coli Study</i>	Marrietta College
Chris Gross	<i>Validating the MODIS snow product using student and National Weather Service ground observations</i>	West Chester University
Todd Kunsekman	<i>Monitoring Turbidity in Lake Erie Utilizing Satellite Imagery</i>	Clarion University
Phil Haney	<i>A Site Assessment of the Westwinds Property Classifying Wetlands in Lucas County</i>	Ohio State University
Jennifer Van Fossen	<i>GIS Model for Duck and Otter Creeks Watershed</i>	Bowling Green State
Kari Gerwin	<i>Land use change in the Ottawa River Watershed</i>	University of Toledo

Rebecca Kregar	<i>Distribution and Growth Among Adult and Juvenile Chrysemys picta inhabiting the Ottawa Wildlife Refuge</i>	Virginia Tech
D. Ryan Argo	<i>Habitat Preferences of the Painted (Chrysemys picta) and Map Turtles (Graptemys geographica) Captured in the Ottawa Wildlife Refuge</i>	Eckard College

REU 2004		
Colin de Saint Victor	<i>Locating sources of microbial pollution around Lake Erie's beaches</i>	University of Toledo
Jessica Henning	<i>Investigating the relative importance of N, P, and C in affecting stress-protein production in freshwater algae</i>	University of Toledo
Lauren Keinath	<i>Development of a rapid bacterial source tracking methodology focusing on community fingerprinting of water and sediment E. coli</i>	Michigan State University
Astrid Rodriguez	<i>Heavy Metals in Otter Creek</i>	Bowdoin College
Alycia G. Pittenger	<i>Soil Temperature Correlations</i>	University of Toledo
Michelle Roy	<i>Lucas County Land Cover Mapping from Satellite</i>	Salem State College
Natalie Brown	<i>Meteorological Instrumentation Used to Study the Energy Budget</i>	Central State University
Carolyn Coehring	<i>Benthic Invertebrates of Western Lake Erie</i>	Acquinas College
Jennifer Talkington	<i>Turtle Trapping: Trap Happy? Does size matter?</i>	DePaul University
Sarah Opfer	<i>The Effects of Farm Management on Herpetofaunal and Small Mammal Communities</i>	Bowling Green State University
Takelia Peterson	<i>Use of the Surface Temperature Protocol for GLOBE Teachers</i>	University of Toledo

REU 2005		
Takelia Peterson	<i>Surface Temperature Protocol for GLOBE Student Observations</i>	University of Toledo
Dianna Brandon	<i>Population Genetic Patterns in North American versus European Zebra Mussel Populations</i>	University of Toledo
Natalie Brown	<i>Introduction of Eddy Covariance Tower and Evapotranspiration</i>	Central State University

Steven Choc	<i>Towards Arsenic Phytoremediation: Screening of Native Plants Using a Hydroponic System</i>	Elizabethtown College
Audrey Decker	<i>The Fate of E. coli in Local Waters</i>	Northern State University
John Gordon	<i>The Effects of Environmental Variables on Capture Rates of Two Aquatic Turtle Species</i>	University of Delaware
Caroline Barrett	<i>Effects of Dreissena and Native Bioturbators on Primary Productivity</i>	Syacuse University
Kevin Prus	<i>Growth Rates and Size Distribution of Chrysemys picta and Graptemy geographica</i>	The College of Wooster
Kristy Sabo	<i>Cause of the Dead Zone in Western Lake Erie</i>	Bowling Green State University
Damien Terry	<i>An opportunity to study bacterial source tracking in the Laboratory for Microbial Ecology at the University of Toledo</i>	North Carolina State University