

News from GLOBES

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global linkages of biology, the environment, and society
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*GLOBES seeks to
provide future scholars,
scientists and leaders
with the biological,
social, economic, legal
and ethical training they
will need to combat
interrelated problems in
environmental and
human health.*

GLOBES Announces Fellowship Awards for Cohort 4

The GLOBES Admissions Committee headed by David Lodge, interim director for the GLOBES Program, recently announced recipients of GLOBES/IGERT PhD fellowships for the coming academic year. Eight students accepted award offers from a very strong group of 13 nominees from the departments of Biological Sciences, Economics and Econometrics, History, HPS, Mathematics, Physics, and Theology. The group of eight forms the fourth, and most multidisciplinary, cohort of graduate students. They are:

Daniel Castillo (GLOBES/Diversity Scholar)
University of Florida (BA) Washington Theological Union (MA)
GLOBES Home department: Theology
Advisor: Matt Ashley (DGS)

Matt Cooper (GLOBES/Presidential Scholar)
Grand Valley State University (BS & MS)
GLOBES Home department: Biological Sciences
Advisor: Gary Lamberti

George Kennedy (GLOBES/Diversity Scholar)
University of California, Davis (BS)
GLOBES Home department: Biological Sciences
Advisor: Lab rotation during first year

Jennifer Lozano (GLOBES Scholar)
University of Pittsburgh (BS)
GLOBES Home department: Biological Sciences
Advisor: Jason McLachlan

Nolan Noble (GLOBES Scholar)
University of California, Merced (BA) University of Warwick (MS)
GLOBES Home department: Economics & Econometrics
Advisor: Kali Rath (DGS)

Lindsey Sargent (GLOBES/Presidential Scholar)
Wellesley College (BS) University of Georgia (MS)
GLOBES Home department: Biological Sciences
Advisor: David Lodge

Cameron Turner (GLOBES/Presidential Scholar)
Brigham Young University (BS) Indiana Univ – Bloomington (MS)
GLOBES Home department: Biological Sciences
Advisor: David Lodge

Courtney Wiersema (GLOBES/Presidential Scholar)
Bradley University (BS)
GLOBES Home department: History
Advisor: Chris Hamlin (DGS)

Lodge gives thanks and credit to the GLOBES Admissions Committee, faculty members and Directors of Graduate Studies from the various departments involved in this year's admissions process for their assistance in bringing about a very successful recruiting class.

Real World Practicums (RWP) are team projects developed by students to put into action the interdisciplinary skills and knowledge acquired throughout the GLOBES training program

RWP Projects Approved

The GLOBES Steering Committee recently approved Real World Practicum (RWP) projects submitted by GLOBES fellows Brandy St. Laurent (Cohort 2) and Jessica Mikels-Carrasco (Cohort 1). Both projects are slated to take place during the upcoming months. Brandy's project has an international component that takes her to Tanzania to study and acquire new research methodology while Jessica directs her attention locally by organizing a community effort that utilizes neighborhood gardens as a means of providing positive interactions between children and the natural world.

Brandy St. Laurent, Cohort 2, Advisor: Frank Collins, Biological Sciences
Tanzania: Acquiring Best Methodology for Capturing Anophelines (May 2009)

Brandy plans to join a team of collaborators in Tanzania to learn and acquire established capture techniques for use in her dissertation work studying the behavior of malaria vectors in Indonesia. The Latin Squares technique has been developed as part of the Malaria Transmission Consortium (MTC) grant funded by the Bill and Melinda Gates Foundation to compare the effectiveness of different trapping techniques in the same environment. The MTC site in Tanzania has been in place for more than twenty years and provides a valuable research model to learn the Latin Squares technique along with several other methods utilized in the trapping and capture of mosquitoes.

Jessica Mikels-Carrasco, Cohort 1, Home Department: Sociology
The Urban Ecology of Marginalized Children (Summer 2009)

In association with members of the Near Northwest Neighborhood and Grace Community Center in South Bend, Jessica plans to use a youth gardening program to determine its impact on children raised in a racially and economically diverse neighborhood. The program involves construction of a children's "eco-lab" where simple experiments, healthy cooking, and natural art projects can take place in addition to outdoor participation in a community garden. Project analysis will focus on ways that access to healthy foods and involvement in the care and



Brandy St. Laurent, GLOBES fellow, Cohort 2, conducting a larval survey in Indonesia.

maintenance of a garden can serve as positive interactions between neighborhood residents and the natural world. Documentation of the project will include recorded interviews with participating children, photographs of the garden, and the creation of a multi-media presentation that follows the progress of the community garden. “This project provides a significant, interdisciplinary approach tied to the real life needs of people in our area,” said Jessica.

Past RWP Projects

Ashley Baldrige, Cohort 2: Wuhan, China May 2008 With GLOBES Associate Matt Barnes, Ashley undertook a three week study of the impact of nonindigenous crayfish introduction and harvest on native ecosystems in China.

Becky Miller, Cohort 1: Uganda June 2008 Becky joined Father Robert Dowd and Tim Lyden of the Ford Family Program on a research fact-finding trip to Uganda to assess collaborative opportunities regarding the prevention and treatment of malaria.

Peter Levi, Cohort 1: Ghana November 2007 Peter joined a team of researchers from Michigan State University and the University of Tennessee to study the impact of aquatic and ecological conditions associated with the Buruli ulcer threat in Ghana.

Andy Deines, Cohort 1: Zambia June 2007 In partnership with the WorldFish Center, Andy traveled to Zambia to assess the interaction of invasive Nile Tilapia and the impact of aquaculture on the Kafue Watershed.

Local RWP Project collaborates with South Bend Dept. of Public Works

GLOBES fellows Patrick Shirey (Biological Sciences), Adam Bee (Economics) and Craig Kinnear (History) have formed a steering committee to undertake a local real world practicum involving efforts by the City of South Bend Department of Public Works to restore Bowman Creek. Two planning meetings have taken place with Public Works Director Gary Gilot to determine a plan of action for GLOBES fellows involvement with the restoration effort.

Bowman Creek is a severely degraded tributary to the St. Joe River (its mouth is kitty corner from the Farmers Market). In some sections, it runs through underground pipe. In many above-ground sections, it serves as a dumping ground for neighborhood trash. Other issues include impaired water quality, loss of aquatic species diversity, extreme swings in water quantity, and impaired aesthetics.

This Week:

The GLOBES Training Module, Economics of the Environment with Prof. Richard Jensen, is scheduled to take place May 12- 14 at the Center for Continuing Education. The module focuses on three fundamental elements of environmental economics: analysis of how markets work, when and why they fail, and corrective policies when they fail; valuation of environmental goods and services that do not trade in markets; and risk analysis for environmental policy.

“This project provides a significant, interdisciplinary approach tied to the real life needs of people in our area.”

- Jessica Mikels-Carrasco
Globes Fellow, Cohort 1



Ashley Baldrige purchasing crayfish traps in Chinese market.

Check out the news article covering the Baldrige/Barnes RWP in China in [Behind the Scenes on NSF Live Science.com](#), [Louisiana Crayfish: Good, Bad, and Delicious](#)
