

# The Duke Center for Environmental Solutions

## The Environmental Institutions Seminar Series



*Presents*

**CES Grant Recipients**  
**Wednesday, February 26, 2003**  
**12:30pm –2:00pm**

**Levine Science Research Center, Room A150**  
**Research Drive, Duke University**



### **Christopher Liese**

Ph.D. Candidate, Nicholas School  
Duke University

#### **A Case Study of Development, Population and Over-exploitation in an Artisanal Reef Fishery in Indonesia**

##### **Abstract:**

New technology and an increase in fishermen have lead to an expansion of fishing effort in the artisanal reef fishery of Minahasa, Indonesia. Open access property rights regimes, population movements, the larger development context and market failure complicate the standard analysis. This case study will explain the observed changes as the result of the economic conditions of the traditional villages, exogenous stimuli and endogenous processes. Poverty, the active search for income opportunities, modernization, global integration, the creation of wealth, and human migration lead to and maintain the expansion of fishing effort. Explaining the driving forces behind these developments should help policy makers create sustainable-use and conservation programs to prevent over-exploitation of the coral reef ecosystem.

##### **Speaker Biography:**

Christopher Liese is a doctoral student at Duke University interested in applied economic research on renewable resources with clear policy relevance. He holds a masters in economics (Diplom VWL) from the University of Bonn, Germany. His dissertation research integrates methods from resource and agricultural economics with demographics to create an empirical model of a developing country's artisanal fishery. He is also involved with research concerning farmers' willingness to participate in wetland restoration programs. In both these fields, he has studied the institutional and regulatory framework (governance issues).

### **Marion Hourdequin**

Ph.D. Student, Philosophy  
Duke University

#### **Conservation Biology, Ecology, and Policy: Learning from Experience**

##### **Abstract:**

In recent years, scientific organizations such as the Society for Conservation Biology and Ecological Society of America have developed new initiatives to integrate science into environmental policy. Despite these efforts, there remains a substantial science-policy gap: important work in ecology and conservation biology frequently fails to reach managers, policymakers, and the public. This talk will address the science-policy gap and how graduate training can help to bridge this gap. The first part of the talk will focus on five themes that emerged through in-depth interviews with scientists at Duke who have worked with the media, policymakers, and/or environmental managers: 1) cross-disciplinary communication; 2) cultural differences between scientists, policy-makers, and managers; 3) the use of science by management and policy institutions; 4) values, objectivity, and professional responsibility; and 5) incentives and disincentives to scientists' participation in policy. The second part of the talk will emphasize how the experiences of senior scientists in policy and management can inform the design of graduate educational opportunities and help to narrow the science-policy gap.

##### **Speaker Biography:**

Marion Hourdequin is a Ph.D. student in philosophy at Duke University. She studied ecology and evolutionary biology at Princeton University, where she graduated summa cum laude. She has worked to integrate science into environmental management as the director of a non-profit environmental organization and as a researcher for the Aldo Leopold Wilderness Research Institute. Marion holds an M.S. in plant ecology and an M.A. in philosophy. Her dissertation will focus on ecology, evolution and ethics.

**Please RSVP by February 24 via email to : [leithc@duke.edu](mailto:leithc@duke.edu)**

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