

The Nicholas School of the Environment and Earth Sciences
Duke Environmental Leadership Program

DEL Community-Based Environmental Management

Spring 2013
ENV 955
Thursdays, 8-9:15pm EST

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Course Overview

Since the concept first came to be widely represented in the conservation community in the early 1990s, Community-Based Environmental Management (CBEM) has been incorporated in conservation and natural resource management initiatives around the world, from integrated conservation and development (ICDP) projects in the buffer zones of protected areas in Nepal to urban forestry initiatives in New York City.

The goal of the course is to provide students with information and analysis that will allow them to identify some of the potential problems and pitfalls involved in CBEM along with the tools necessary to create and managed their own projects. To accomplish this, we will combine readings and discussion of academic literature with presentations of specific CBEM case studies by bi-weekly guest speakers. The students will also select a CBEM project close enough to them geographically for easy visits and will use this project as the focus of a series of six short analyses that will, at the end of the course, be combined and reworked as a final case study report.

The course will be divided into six, interrelated themes that will serve to focus discussion of the academic literature, guest-presented case studies and bi-weekly analysis of the students' selected projects:

- I. Why Community-Based Management
- II. Understanding Community Dynamics
- III. Incorporating Multiple Values and Knowledges
- IV. Devolving Power for Co-Management
- V. Participatory Action Research
- VI. Sense of Place and Cultural Constructs of Nature

By the end of the course the students should have a good sense of the conceptual foundations of

CBEM, some of the ways that is manifest, how to assess the effectiveness of individual CBEM initiatives, and how to design and implement these programs in ways that account for the complexity and variability of social and natural systems.

Core Elements

There are three core elements of this course in which you will be expected to actively participate:

WebConference Meetings

During the distance portion of the course, we will convene weekly Adobe Connect webconference sessions ***Thursdays, 8-9:15pm EST***. These webconference sessions will be a combination of lectures by the instructor, discussion of the readings and guest speakers.

Discussion Boards

We will be using the Sakai Forum board to present case study descriptions of community-based environmental management that somehow exemplify or contradict the theories and practices we will be learning about through the class. You should contribute three main case study postings during the course. These can be inspired by something you hear about in the news, research on CBEM projects and programs or observations you have made of your case study CBEM organization. These posts should be about 300-500 words and should contain:

- A description of CBEM project/org, newspaper article, example from case study org, etc.
- A description of how it exemplifies/contradicts some CBEM theory or practice from readings or lectures (must include citations of references)
- Links to related articles, examples, cases, etc.

You are also expected to respond to the posts of other students to pose questions, provide links to related resources of interest, and or offer your own insights into the topic.

Case Study Reports

Students will be asked to locate and make contact with a CBEM project, preferably close enough to home so that periodic visits are possible, and to research and write case study assessments related to the topics we discuss over the course of the class. Students are expected to engage with the organization and its community-based work by attending community activities and meetings, interviewing program staff and participants and conducting background research on similar organizations. Group partner organization reports applying both the theoretical and practical lessons learned through course lectures and readings to observations of the case study organization will be required throughout the semester. These short assignments will then be woven into a final case study written report and presentation due at the end of the semester.

Course Materials

Copies of the articles and book chapters that we will be reading through the semester will be available through library *e-reserves* that are directly accessible through our Sakai site.

Course Evaluation

Your grade in this course will be based on:

10% Attendance and active participation in weekly WebConferences (*Weekly*)

15% Participation in Sakai Forum discussions (*Published bi-weekly*)

35% Case study write-ups (*Due Jan 20; Feb 3; Feb 24; Mar 24*)

15% Final case study presentation (*Due April 11*)

25% Final case study report (*Due April 28*)

Honor Code

By accepting admission to the Nicholas School, you have agreed to abide by our Honor Code, violations of which are subject to disciplinary actions. The Honor Code requires that I define the manner within which assignments are to be completed. For any assignment, please speak to me if you believe this is ambiguous or incomplete.

Course Schedule

MODULE 1 ~ WHY COMMUNITY-BASED ENVIRONMENTAL MANAGEMENT?

Week #1 ~ January 10

Why Community-Based Environmental Management?

Kellert et al. 2000. Community natural resource management: Promise, rhetoric, and reality. *Society and Natural Resources* V 13, p. 705-715.

Lane & McDonald. 2005. Community-based environmental planning: Operational dilemmas, planning principles and possible remedies. *Journal of Environmental Planning and Management* 48(5), p. 709-731.

Berkes, Fickret. (2004). Rethinking community-based conservation. *Conservation Biology*, 18 (3), p. 621-630.

Review and discussion of CBEM projects students have selected for case study analysis.

Week #2 ~ January 17

Defining Communities

Agrawal, Arun and Clark Gibson.1999. Enchantment and disenchantment: The role of community

in natural resource conservation. *World Development* 17 (4): 629-649.

Natcher, David C. and Clifford G Hickey. 2002. Putting the community back into community-based resource management: A criteria and indicators approach to sustainability. *Human Organization*, V 61(4), p. 350-363

Creed, Gerald. 2006. Reconsidering community. In: *The Seductions of Community: Emancipations, Oppressions, Quandries* (Sante Fe: SAR Press), Ed. Gerald Creed. Chapters 1, p. 3-22.

Assignment #1 ~ Due Sunday, January 20

Profile of Case Study Community-Based Organization

MODULE 2 ~ UNDERSTANDING COMMUNITY DYNAMICS

Week #3 ~ January 24

Governance & Social Capital

Ostrom, Elinor. 1999. Self-governance and forest resources. *CIFOR Occasional Paper No. 20*, p. 1-19.

Pretty, Jules and David Smith. 2004. Social capital in biodiversity conservation and management. *Conservation Biology* 18(3), p 631-638.

Leach, Melissa, Robin Mearns and Ian Scoones (1999) *Environmental entitlements: Dynamics and institutions in community-based natural resource management*. *World Development* 27 (2), p. 225-247

Basurto, Xavier, Ana Cinti, Luis Bourillón, Mario Rojo, Jorge Torre & A. Hudson Weaver. 2011 The emergence of access controls in small-scale fishing commons: A comparative analysis of individual licenses and common property-rights in two Mexican communities. *Human Ecology*. p. 1-13

Week #4 ~ January 31

Guest Speaker ~ TBA

Assignment #2 ~ Due Sunday, February 3

Analysis of Institutions and Social Capital in Case Study Organization

MODULE 3 ~ INCORPORATING MULTIPLE VALUES AND KNOWLEDGES

Week #5 ~ February 7

Local and Traditional Ecological Knowledge

Pretty, Jules et al. 2009. The intersections of biological and cultural diversity: Towards integration. *Conservation and Society* 7(2), p 100-112.

Berkes, Fickret, J. Colding, and C. Folke. (2000) Rediscovery of traditional ecological knowledge as adaptive management. *Ecological Applications* 10 (5), pp. 1251-1262.

Yli-Pelkonen & Kohl. 2005. The role of ecological knowledge in sustainable urban planning: Perspectives from Finland. *Sustainability: Science, Practice & Policy* 1(1), pp. 3-14.

Huntington, Henry P. 2011. The local perspective. *Nature* (478), pp. 182-183.

Review the Alaskans Sharing Indigenous Knowledge (AKSIK) website [<http://aksik.org/about-contact>]

Week #6 ~ February 14

Guest Speaker ~ TBA

MODULE 4 ~ DEVOLVING POWER FOR CO-MANAGEMENT

Week #7 ~ February 21

People in Parks Debate

(Be sure to read these articles in the following order)

Redford, K. H. 1991. "The ecologically noble savage." *Cultural Survival Quarterly* 9: 24-29.

Schwartzman, Stephan, Adriana Moreira and Daniel Nepstad. 2001. Rethinking tropical forest conservation: Perils in parks. *Conservation Biology*, V 14(5), p 1351-1357.

Terborgh, John. 2001. The fate of tropical forests: A matter of stewardship. *Conservation Biology*, V 14(5), p. 1358-1361.

Redford, K. and S. Sanderson. 2001. Extracting humans from nature. *Conservation Biology* 14(5): 1362-1364

Schwartzman, Stephan, Daniel Nepstad and Adriana Moreira. 2001. Arguing tropical forest conservation: People vs. parks. *Conservation Biology* 14(5): 1370-1374

Porter-Bolland et al. 2011. Community-managed forests and forest protected areas: An assessment of their conservation effectiveness across the tropics. *Forest Ecology and Management*.

Assignment #3 ~ Due Sunday, February 24

Strategies and Approaches from Comparative Case Studies

Week #8 ~ February 28
Guest Speaker ~ TBA

MODULE 5 ~ PARTICIPATORY ACTION RESEARCH

Week #9 ~ March 7
Participatory Action Research

Wilmsen, Carl. 2008. Negotiating Community, Participation, Knowledge and Power in Participatory Research. In *Partnerships for Empowerment: Participatory Research for Community-based Natural Resource Management*. Eds. C. Wilmsen, L. Fisher, G. Wells, J. Ross, W. Elmendorf. p. 1-22

Fraser, Evan D.G., Andrew J. Dougill, Warren E. Mabee, Mark Reed, and Patrick McAlpine. 2006. Bottom up and top down: Analysis of participatory processes for sustainability indicator identification as a pathway to community empowerment and sustainable environmental management. *Journal of Environmental Management* V 78, p. 114-127.

Beaulieu, Lionel J. 2002. Mapping the Assets of Your Community: A Key Component for Building Local Capacity. Southern Rural Development Center. p 1-14

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**SPRING BREAK**  
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Week #10 ~ March 21
Guest Speaker ~ TBA

Assignment #4 ~ Due March 24
Participatory Action Research Protocol

MODULE 6 ~ SENSE OF PLACE AND CULTURAL CONSTRUCTS OF NATURE

Week #11 ~ March 28
Sense of Place & Cultural Constructs of Nature

Graves-Lanfer, Ashley and Madeleine Taylor. 2004. Immigrant Engagement in Public Open Space: Strategies for the New Boston. Barr Foundation. P. 1-23.

Shoreman, Eleanor E. & Nora Haenn. 2009. Regulation, conservation, and collaboration: Ecological anthropology in the Mississippi Delta. *Human Ecology* (37), p 95-107.

Davenport, Mae A. & Dorothy H. Anderson. 2005. Getting from sense of place to place-based management: An interpretive investigation of place meanings and perceptions of landscape change. *Society & Natural Resources: An International Journal* 18(7). pp 625-641

Week #12 ~ April 4
Guest Speaker ~ TBA

Week #13 ~ April 11
FINAL PRESENTATIONS

Sunday, April 28
FINAL REPORTS DUE