

Community Based Environmental Management: Science and Policy

Nicholas School of the Environment
ENV 298.231 ~ Fall 2011
T/TH 11:40-12:55 ~ LSRC A155

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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 this course is to provide students with theory and methods that will allow them to identify some of the potential problems and pitfalls associated with community-based environmental management (CBEM) initiatives, both domestically and internationally, 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, guest speakers, and field trips to visit CBEM projects in North Carolina. By the end of the course, students should have gained a proficient understanding of:

- The conceptual and theoretical foundations of CBEM initiatives;
- The common themes and differences manifest in an array of case studies;
- Methods to assess the effectiveness of individual CBEM initiatives;
- Ways and means of designing and implementing these programs that accounts for the complexity and variability of social and natural systems.

Course Structure

This is a 3-credit graduate course, to be held Tuesdays and Thursdays, 11:40am-12:55pm. The enrollment limit is 26.

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

Class Participation

Classes will be held Tuesdays and Thursday. Your in-class participation grade will be based not only on attendance, but also on active participation in discussions of the readings and of the material presented in lectures and by guest speakers.

The lectures in the course will be ordered according to the following themes, focusing first on the theory of CBEM and moving to the more practical side of lessons learned:

- I. Conceptualizing Community-Based Environmental Management
- II. Avoiding Potential Pitfalls
- III. Researching Community Assets and Issues

Partner Organization Reports and Presentations

We have partnered with a number of local groups and organizations that are involved, in a variety of ways, in promoting community-based environmental management. Students will be formed into groups early in the semester and each group will be assigned to engage with one of these organizations and work with them to evaluate a current community-based program or plan for a program they would like to implement in the future. Student groups will be expected to take time outside of the regular course period to attend meetings of this group, interview program staff and participants and conduct 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 shorter assignments will then be woven into a final partner organization report due at the end of the semester. Likewise, each group will be expected to make two short presentations of their findings to their classmates during the semester and a longer final presentation at the end of the semester. 5% of your total grade will be based on feedback received from the partner organization on their interaction with your group.

Course Evaluation

Your grade in this course will be based on:

- 10% Attendance and participation in classroom discussions
- 30% Three group partner organization write-ups
- 20% Two group presentations and discussions

- 15% Final group presentation
- 20% Final group case study report
- 5% Feedback from partner organization

Course Materials

Copies of most of the published papers that we will be reading through the semester will be available through library *e-reserves* that are directly accessible through our Blackboard (Bb) site. We will also be drawing from the following book:

Stoecker, Randy. 2005. *Research Methods for Community Change: A Project-Based Approach*. Sage Publications, Thousand Oaks.

Honor Code

Duke University is a community dedicated to scholarship, leadership, and service and to the principles of honesty, fairness, respect, and accountability. Citizens of this community commit to reflect upon and uphold these principles in all academic and nonacademic endeavors, and to protect and promote a culture of integrity.

To uphold the Duke Community Standard:

- I will not lie, cheat, or steal in my academic endeavors;
- I will conduct myself responsibly in all my endeavors; and
- I will act if the Standard is compromised.

Course Schedule

Topic	Tuesday	Thursday	Assignments
Week 1: Introduction to Community- Based Ecosystem Management & Course Logistics	<i>Tuesday, Aug 30 – Lecture, Syllabus Review & Introduction</i>	<i>Thursday, Sept 1 – Discussion & Community Partners Presented</i> Western, D. & R. Wright 1994. The background to community-based conservation. <i>Natural Connections</i> . Washington, D.C.: 1-12. Kellert et al. 2000.	<i>Fill-out on-line community partner preference survey by Midnight, Friday, Sept 2</i>

		<p>Community natural resource management: Promise, rhetoric, and reality. <i>Society and Natural Resources</i> V 13, p. 705-715.</p> <p>Lane & McDonald. 2005. Community-based environmental planning: Operational dilemmas, planning principles and possible remedies. <i>Journal of Environmental Planning and Management</i> 48(5), p. 709-731.</p>	
Week 2: Understanding Governance	<p><u>Tuesday, Sept 6 – Lecture, Discussion & Community Partners Assignments</u></p> <p>Hardin, G. 1968. The tragedy of the commons. <i>Science</i> 162, pp. 1243–1248.</p> <p>Ostrom, Elinor, Joanna Burger, Christopher B. Field, Richard B. Norgaard, David Policansky. 1999. Revisiting the commons: Local lessons, global challenges. <i>Science</i> 284, pp 278-282.</p> <p>Ostrom, Elinor. 1999. Self-governance and forest resources. <i>CIFOR Occasional Paper No. 20</i>, p. 1-19.</p>	<p><u>Thursday, Sept 8 – Movie (Milking the Rhino), Discussion and Community Partner Check-In</u></p> <p><i>Chapter 2 – The goose approach to research - Stoecker, Randy. 2005. Research Methods for Community Change: A Project-Based Approach. Sage Publications, Thousand Oaks. p 27-57</i></p>	
Week 3: Putting Humans Back into Nature	<p><u>Tuesday, Sept 13 – Lecture, Discussion</u></p> <p><i>(Be sure to read these articles in the following order)</i></p> <p>Redford, K. H. 1991. “The ecologically noble savage.”</p>	<p><u>Thursday, Sept 15 –Guest Lecture</u></p> <p>Colleen Murphy-Dunning, Director, Urban Resources Initiative of Yale University (Urban tree planting, community garden projects,</p>	<p>Sunday, Sept. 18 – Partner Organization Report #1 due at midnight</p>

	<p>Cultural Survival Quarterly 9: 24-29.</p> <p>Schwartzman, Stephan, Adriana Moreira and Daniel Nepstad. 2001. Rethining tropical forest conservation: Perils in parks. Conservation Biology, V 14(5), p 1351-1357.</p> <p>Terborgh, John. 2001. The fate of tropical forests: A matter of stewardship. Conservation Biology, V 14(5), p. 1358-1361.</p> <p>Redford, K. and S. Sanderson. 2001. Extracting humans from nature. Conservation Biology 14(5): 1362-1364</p> <p>Schwartzman, Stephan, Daniel Nepstad and Adriana Moreira. 2001. Arguing tropical forest conservation: People vs. parks. Conservation Biology 14(5): 1370-1374</p>	<p>and green job training)</p> <p>Review the main URI website. http://www.yale.edu/uri/index.htm</p> <p>URI. 2010. Urban Issues. Vol. 21 No 2. http://www.yale.edu/uri/publications/publications.html</p> <p>Epstein, Helen. 2003. Ghetto miasma; Enough to make you sick? NY Times, Health Section, Oct. 12.</p> <p>Pickett, Steward T. A., William R. Burch Jr., Shawn E. Dalton, Timothy W. Foresman, J. Morgan Grove and Rowan Rowntree. 1997. A conceptual framework for the study of human ecosystems in urban areas. Urban Ecosystems, V. 1 No. 4, p. 185-199.</p>	
<p>Week 4: TEK and Adaptive Co-Management</p>	<p><i>Tuesday, Sept 20 – Lecture and Discussion</i></p> <p>Berkes, Fickret, J. Colding, and C. Folke. (2000) Rediscovery of traditional ecological knowledge as adaptive management. Ecological Applications 10 (5), pp. 1251-1262.</p> <p>Derek R. Armitage (2003). Traditional agroecological knowledge, adaptive management and the socio-politics of conservation in</p>	<p><i>Thursday, Sept 22 – Guest Lecture</i></p> <p>Curtis Bernard, Conservation International, Guayana.</p> <p>Readings TBA</p>	

	<p>Central Sulawesi, Indonesia. <i>Environmental Conservation</i>, 30, pp 79-90</p> <p>Berkes, Fickret. (2004). Rethinking community-based conservation. <i>Conservation Biology</i>, 18 (3), p. 621-630.</p>		
<p>Topic 2: Avoiding Potential Pitfalls</p>			
<p>Week 5: Defining Community</p>	<p><i>Tuesday, Sept 27 – Lecture and Discussion</i></p> <p>Agrawal, Arun and Clark Gibson. 1999. Enchantment and Disenchantment: The Role of Community in Natural Resource Conservation. <i>World Development</i> 17 (4): 629-649.</p> <p>Schroeder, Richard. 1993. Shady Practice: Gender and the Political Ecology of Resource Stabilization in Gambian Garden/Orchards. <i>Economic Geography</i> 69 (4), p. 349-65.</p>	<p><i>Thursday, Sept 29 – 1st Partner Organization Reporting Group Presentations</i></p> <p><i>Chapter 7 - Evaluation - Stoecker, Randy. 2005. Research Methods for Community Change: A Project-Based Approach. Sage Publications, Thousand Oaks. p 181-207</i></p>	<p><i>Sunday, Oct. 2 – Partner Organization Report # 2 due at midnight</i></p>
<p>Week 6: Recognizing Social and Other Types of Capital</p>	<p><i>Tuesday, Oct 4 – Lecture and Discussion</i></p> <p>Ostrom, Elinor. 2001. Social capital: A fad or fundamental concept? In <i>Social Capital: A Multi-Faceted Perspective</i>. Eds. Ismail Serageldin and Partha Dasgupta. World Bank, Washington, D.C., p 172-214.</p> <p>Pretty, Jules and David Smith. 2004. Social capital in biodiversity conservation and</p>	<p><i>Thursday, Oct 6 – Guest Lecture</i></p> <p><i>Ernesto Méndez, Assistant Professor, Environmental Program, University of Vermont</i> http://www.uvm.edu/~agroecol/</p> <p>Bacon, Chris, Mendez, Ernesto, & Brown, Martha. (2005). Participatory action research and support for</p>	

	management. Conservation Biology 18(3), p 631-638.	community development and conservation: examples from shade coffee landscapes in Nicaragua and El Salvador. UC Santa Cruz: Center for Agroecology and Sustainable Food Systems. Retrieved from: http://www.escholarship.org/uc/item/1qv2r5d8 Watch video on ACOES by Michael Skillikorn [http://www.uvm.edu/~emendez/?Page=Coffeefund.html]	
Week 7: Incorporating Multiple Knowledges	FALL BREAK – NO CLASS	<i>Thursday, Oct 13 – Lecture and Discussion</i> Atran, S., D. L. Medin and N. O. Ross. 2005. The cultural mind: Environmental decision-making and cultural modeling within and across populations. Psychological Review. 112, p. 744-776. Paolisso, M. 2002. Blue crabs and controversy on the Chesapeake Bay: A cultural model for understanding watermen's reasoning about blue crab management. Human Organization. 61: 226-239.	
Week 8: Incorporating Multiple Knowledges (Continued...)	<i>Tuesday, Oct 18 – Guest Lecture</i> Beth Rose Middleton – Assistant Professor of Native American Studies, University of California, Davis (US Forest Service/Maidu indigenous group joint forest	<i>Thursday, Oct 20 – 2nd Partner Organization Reporting Group Presentations</i>	<i>Sunday, Oct 23 – Partner Organization Report # 3 due at midnight</i>

	<p>management program)</p> <p>Browse this website: http://www.sierrainstitute.us/index.php/projects/lake-almanor-watershed/abwac</p> <p>Braxton-Little, Jane. 2002. Maidu stewardship project: Restoring the understory. Forest News, Summer. P. 36-41.</p> <p>Cunningham, Farrell. June 2005. "Take Care of the Land and the Land Will Take Care of You: Traditional Ecology in Native California." News from Native California 18(5)</p> <p>Middleton, Beth Rose. 2010. "Let this all return to us:" Working to reclaim land through the pacific forest and watershed lands stewardship council. News of Native California.</p>		
Topic 3: Researching Community Assets and Issues			
<p>Week 9: Participatory Action Research</p>	<p><i>Tuesday, Oct 25 – Lecture and Discussion</i></p> <p>Wilmsen, Carl. 2008. Negotiating Community, Participation, Knowledge and Power in Participatory Research. In <i>Partnerships for Empowerment: Participatory Research for Community-based Natural Resource Management</i>. Eds. C. Wilmsen, L. Fisher, G. Wells, J. Ross, W. Elmendorf. p. 1-22</p> <p>Wulfhorst, J. D., Brian W.</p>	<p><i>Thursday, Oct 27 – Guest Lecture ~ Carla Norwood and Gabe Cumming (Participatory Research in North Carolina’s Warren County and Down East Region)</i></p> <p>Cumming, Gabriel, Guffey, Stacy J. and Norwood, Carla. 2008. Opportunities and Challenges in Community Capacity-building: Lessons from Participatory Research</p>	

	<p>Eisenhauer, Stephanie L. Gripne, and Johanna M. Ward. 2008. Core Criteria and Assessment of Participatory Research. In <i>Partnerships for Empowerment: Participatory Research for Community-based Natural Resource Management</i>. Eds. C. Wilmsen, L. Fisher, G. Wells, J. Ross, W. Elmendorf. p. 1-22 p. 23-46.</p> <p><i>Chapter 6 - Implementing: When research is the project - Stoecker, Randy. 2005. Research Methods for Community Change: A Project-Based Approach. Sage Publications, Thousand Oaks. p 147-181.</i></p>	<p>in Macon County, North Carolina. In <i>Partnerships for Empowerment: Participatory Research for Community-based Natural Resource Management</i>. Eds. C. Wilmsen, L. Fisher, G. Wells, J. Ross, W. Elmendorf. p. 1-22 p. 106-127</p> <p>Rowell, Erica. 2011. Edible rex: Two postdocs work to seed a rural community with local foods. Dukeenvironment Magazine. Accessed Aug. 23, 2011 [http://www.nicholas.duke.edu/dukenvironment/sp11/cummings]</p>	
<p>Week 10: Developing and Monitoring Indicators</p>	<p><i>Tuesday, Nov 1 – Lecture and Indicators Exercise</i></p> <p>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. <i>Journal of Environmental Management</i> V 78, p. 114-127.</p> <p>Natcher, David C. and Clifford G Hickey. 2002. Putting the community back into community-based resource management: A criteria and</p>	<p><i>Thursday, Nov 3 – Guest Lecture</i></p> <p><i>Eli Moore, Program Co-Director, Community Strategies for Sustainability and Justice Program, Pacific Institute</i></p> <p>Moore, Eli and Swati Prakash. 2009. Introduction and Summary of Findings: Measuring What Matters: Neighborhood Research for Economic and Environmental Health and Justice in Richmond, North Richmond, and San Pablo. Pacific Institute.</p> <p>Review program website: http://www.pacinst.org/topic/community_strategies/index</p>	

	<p>indicators approach to sustainability. Human Organization, V 61(4), p. 350-363</p> <p>Exercise – Develop participatory regime for monitoring indicators of environmental health in Louisiana’s Cancer Alley.</p>	<p>x.php</p> <p>Listen to some of the oral histories listed at: http://www.pacinst.org/reports/measuring_what_matters/oral_histories/index.htm</p>	
<p>Week 11: Community Mapping</p>	<p><i>Tuesday, Nov 8 – Lecture, Discussion and Mapping Exercise</i></p> <p>Raymond, Christopher M., et al. 2009. Mapping community values for natural capital and ecosystem services. <i>Ecological Economics</i> (68), p 1301-1315.</p> <p>Peluso, Nancy. 2005. Whose woods are these? Counter-mapping forest territories in Kalimantan, Indonesia. In <i>The Anthropology of Development and Globalization: From Classical Political Economy to Contemporary Neoliberalism</i>. Eds. M. Edelman and A. Haugerud. Wiley-Blackwell, p 273-281</p> <p>Techniques - See the website for the Green Map Project [http://www.greenmap.org/greenhouse/home]</p> <p>And the Planning Tool Exchange [http://www.planningtoolexchange.org/tool/asset-mapping]</p> <p>Exercise – Map the human,</p>	<p><i>Thursday, Nov 10 – Guest Lecture</i></p> <p><i>Mikki Sager & Kathleen Marks, Resourceful Communities Program, Conservation Fund</i></p> <p><i>Chapter 4 - Diagnosing - Stoecker, Randy. 2005. Research Methods for Community Change: A Project-Based Approach. Sage Publications, Thousand Oaks. p 87-114</i></p>	

	social, physical and natural capital of the Nicholas School		
Week 12: Taking Political Action	<p><i>Tuesday, Nov 15 – Lecture and Discussion</i></p> <p>Cole, L. and Foster, S. 2000. <i>From the Ground Up: Environmental Racism and the Rise of the Environmental Justice Movement</i>. New York, New York University Press. Read preface & Chpts 1 and 3.</p> <p><i>Chapter 5 - Prescribing: research options - Stoecker, Randy. 2005. Research Methods for Community Change: A Project-Based Approach. Sage Publications, Thousand Oaks. p 115-146</i></p>	<p><i>Thursday, Nov 17 – Guest Lecture</i></p> <p><i>Tracy Perkins, Doctoral Candidate, Sociology, University of California, Santa Cruz (Environmental Justice movements in California’s Central Valley)</i></p> <p>Review the following website, especially the project description and photo gallery. http://twentyfive.ucdavis.edu/</p> <p>Perkins, Tracy and Julie Sze. “Images from the Other California.” <i>Boom: A Journal of California</i>. Volume 1, Issue 1, March 2011</p>	
Course and Partner Organization Project Wrap-Up			
	<i>Tuesday, Nov 22 – Work in groups on final report and presentation</i>	<i>Thursday, Nov 24 – Work in groups on final report and presentation</i>	
	<i>Thursday, Dec 1, 6-9pm, 158 LSRC Final Group Presentations & Partner Organization Potluck</i>		<i>Final group reports due midnight, Sunday, Dec 11</i>