

GCCS Policy Syllabus

12 June 2002

This syllabus provides a overview of the timing and content for the 11 “policy lectures” of GCCS. Additional readings will be distributed as the term progresses.

1. Program Themes
Questions to think about.
2. Thursday 20 June
Introduction to Policy Research

Pielke, Jr., R. A. 2002. Policy, politics and perspective. *Nature* 416:368.

Sarewitz, D. 2000. Science and Environmental Policy: An Excess of Objectivity, pp. 79-98 in: *Earth Matters: The Earth Sciences, Philosophy, and the Claims of Community* (Prentice Hall, 2000), edited by Robert Frodeman.

3. Monday 24 June
Problems

Rocheftort, D. A. and R. W. Cobb 1994. Problem definition: an emerging perspective, pp. 1-31 in *The Politics of Problem Definition: Shaping the Policy Agenda* (University Press of Kansas: Lawrence, KS).

Hilgartner, Stephen and C. Bosk, 1988. The rise and fall of social problems: a public arenas model, *American Journal of Sociology*, 94:(1):53-78.

Pielke, Jr., R. A. 1997. Asking the right questions: Meteorological research and societal needs, *Bulletin of the American Meteorological Society*, 78: 255-264.

4. Tuesday 25 June
Guest Lecture: Lori Hunter, Sociology Professor, University of Colorado
Environmental Sociology

Dunlap, Riley E., William Michelson, and Glenn Stalker. 2002. "Environmental Sociology: An Introduction." Chapter 1 (pp. 1-32) in *Handbook of Environmental Sociology*. Greenwood Press: Westport, CT.

5. Monday 8 July
Guest Lecture, Chris Green, Professor of Economics, McGill University
Economics
6. Tuesday 9 July
Guest Lecture, Chris Green, Professor of Economics, McGill University
Economics

Readings to be distributed

7. Thursday 11 July
Guest Lecturer: Will Toor

Readings to be distributed

8. Monday 15 July
Budget

Schick, A. 1995. Chapters 2, 3, 7, 8, pp. 12-48 and 110-164 in *The Federal Budget: Politics, Policy, Process* (Washington, DC: Brookings).

9. Thursday 16 July
Guest Lecture: Michele Betsill, Professor of Political Science, Colorado State University
Non-Governmental Organizations Climate Impacts

Pielke, Jr., R. A. and C. W. Landsea 1998. Normalized hurricane damages in the United States: 1925-1995, *Weather and Forecasting*, **13**:351-361.

Downton, M. and R. Pielke, Jr. 2001. Discretion Without Accountability: Climate, Flood Damage and Presidential Politics, *Natural Hazards Review* **2**:157-166.

Kunkel, K., R. A. Pielke, Jr., S. Changnon, 1999. Temporal Fluctuations in Weather and Climate Extremes that Cause Economic and Human Health Impacts: A Review, *Bulletin of the American Meteorological Society* **80**: 1077-1098.

Pielke, Jr., R. A., R. Klein, and D. Sarewitz, 2000: Turning the Big Knob: An Evaluation of the Use of Energy Policy to Modulate Future Climate Impacts. *Energy and Environment*, 11, 255-276.

10. Monday 22 July and Thursday 25 July
Uncertainty and Prediction

Oreskes, N., K. Shrader-Frechette, and K. Belitz, 1994. Verification, validation, and confirmation of numerical models in the earth sciences. *Science*, 263: 641-646.

Bankes, S. 1993. Exploratory modeling for policy analysis, *Operations Research*, 41:435-449.

Pielke, Jr., R. A. 1999. Who Decides? Forecasts and responsibilities in the 1997 Red River floods, *Applied Behavioral Science Review* 7: 83-101.

Pielke, Jr., R. A., D. Sarewitz, and R. Byerly, 2000. Decision making and the future of nature: Understanding, using, and producing predictions, Chapter 18 in D. Sarewitz, D., R. A. Pielke, Jr., and R. Byerly (eds.), Prediction: Decision Making and the Future of Nature (Washington, DC: Island Press).

Pielke, Jr., R. A., 2002 (in press). The role of models in prediction for decision, book chapter prepared for Cary Conference IX: Understanding Ecosystems: The Role of Quantitative Models in Observations, Synthesis, and Prediction.

11. Thursday 1 August
Student-Driven Discussion

No assigned readings