

Experiments in the lab and field on governance of Social-Ecological Systems: Lecture

By Dr. Marco A. Janssen, Associate Professor, School of Human Evolution and Social Change, Co-director, Center for the Study of Institutional Diversity Arizona State University, USA

Monday June 11: morning (9.00-13.00)

A general introductory lecture (80 students - part of a running course on Environmental and Resource Economics)

Topics covered: goal of experiments, public goods and common pool resources, experiments in the lab and field, role of cheap talk and costly punishment

Literature: Chapter 6 of *Working Together* by Poteete et al. (2010) Princeton University Press.

Experiments in the lab and field on governance of Social-Ecological Systems: Workshops

By

Dr. Marco A. Janssen, Associate Professor, School of Human Evolution and Social Change, Co-director, Center for the Study of Institutional Diversity Arizona State University, USA

Supported by the Working Group on Field Experiments in Agricultural and Resource Economics, Division of Resource Economics, Humboldt University.

The number of attendants will be restricted to 15 participants maximum! Participants will be selected in priority order. Please register at expgroup@hu-berlin.de stating your name, profile (position) and in a couple of sentences your background and interest in experimental economics and the workshop.

Monday June 11: afternoon (14.00-18.00)

This afternoon we will:

- run a paper and pencil experiment (one hour)
- discuss practicalities of experiments (recommended reading: Friedman, D. and S. Sunder, 1994. *Experimental Methods: A Primer for Economists*. Cambridge, England, and New York: Cambridge University Press.)
- discussion how we analyzed the data from experiment (done at ASU in Spring 2012).
- start defining topics for experiments of students

Wednesday June 13: morning (9.00-13.00)

- Discussion of initial designs of student groups

- In depth discussion of various experimental studies of literature. Suggested readings:
- Janssen, M.A., R. Holahan, A. Lee and E. Ostrom (2010) Lab Experiments for the Study of Social-Ecological Systems, *Science* 328: 613-617.
- Brosig, J., A. Ockenfels and J. Weimann (2003) The Effect of Communication Media on Cooperation, *German Economic Review* 4, 217-241
- Bochet, O., T. Page and L. Putterman (2006) Communication and punishment in voluntary contribution experiments, *Journal of Economic Behavior & Organization* 60(1): 11-26.
- Rustagi, Devesh, Engel, Stephanie, & Kosfeld, Michael. (2010). Conditional cooperation and costly monitoring explain success in forest commons management. *Science* 330: 961-965.
- Janssen, M.A., J.M. Anderies and J.C. Cardenas (2011) Head-enders as stationary bandits in asymmetric commons: Comparing irrigation experiments in the laboratory and the field, *Ecological Economics* 70(9): 1590-1598.
- Anderies, J.M., M. A. Janssen, F. Bousquet, J-C. Cardenas, D. Castillo, M-C. Lopez, R. Tobias, B. Vollan, A. Wutich (2011) The challenge of understanding decisions in experimental studies of common pool resource governance, *Ecological Economics* 70 (9): 1571-1579.

Wednesday June 13: afternoon (14.00-18.00)

- Students work in groups on experimental designs

Wednesday June 20: 14.00-18.00

- Discussion design of student groups
- Pretests of experiments of some of the groups

Wednesday June 27: 14.00-18.00

- Pretests of experiments of designs of some of the groups
- Discussion