



AAG Annual Meeting

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Paper Session:

3439 Evaluating Payments for Ecosystem Services: Evidence from a Chinese nature reserve --I

is scheduled on Thursday, 4/10/2014, from 12:40 PM - 2:20 PM in Room 39, TCC, Fourth Floor

Sponsorship(s):

Spatial Analysis and Modeling Specialty Group
Geographic Information Science and Systems Specialty Group
Human Dimensions of Global Change Specialty Group

Organizer(s):

[Li An](#) - San Diego State University
[Minjuan Wang](#)
[Jennifer Feltner](#)

Chair(s):

[Li An](#) - San Diego State University

Abstract(s):

12:40 PM Author(s): *Li An - San Diego State University
Stuart Aitken - San Diego State University
Richard Bilsborrow - University of North Carolina, Chapel Hill
Xiaodong Chen - University of North Carolina, Chapel Hill
Rebecca Lewison - San Diego State University
Douglas Stow - San Diego State University
Minjuan Wang - San Diego State University

Abstract Title: *Impacts of Payments for Ecosystem Services in Coupled Natural and Human Systems*

1:00 PM Author(s): *Xiaodong Chen - University of North Carolina at Chapel Hill

Abstract Title: *Evaluating the Impacts and Feedbacks of Payments for Ecosystem Services*

1:20 PM Author(s): *Shuang Yang - San Diego State University/University of California, Santa Barbara
Weiyong Zhang - Fanjingshan Fanjingshan National Nature Reserve
Li An - San Diego State University
Richard Bilsborrow - The University of North Carolina at Chapel Hill
David López-Carr - University of California, Santa Barbara
Yeqin Yang - Fanjingshan National Nature Reserve
Rutai He - Fanjingshan National Nature Reserve
Lei Shi - Fanjingshan National Nature Reserve

Abstract Title: *PES policies and migration: A case study of Fanjingshan National Nature Reserve, China*

1:40 PM Author(s): *Douglas A. Stow - San Diego State University
Yu Hsin Tsai - San Diego State University
Li An - San Diego State University
Sarah Wandersee - San Diego State University

Abstract Title: *Canopy Forest Cover Change in Fanjingshan National Nature Reserve*

2:00 PM Discussant: Michael F. Goodchild - University of California - Santa Barbara

Discussant(s):

Michael F. Goodchild - University of California - Santa Barbara

Session Description: Payments for ecosystem services (PES) are direct incentives paid to resource users to take actions (or to refrain from previous actions) to secure ecosystem services such as clean air and water, food, soil fertility, forest resources, and eco-tourism. Yet the PES-generated benefits for conservation and for local populations may not be sustained in the long run, especially when payments end. This challenge has beset PES researchers and practitioners, leading to a variety of studies on PES sustainability. These sessions, based on an NSF funded project entitled "CNH: Impacts of Payments for Ecosystem Services in Coupled Natural and Human Systems" (2012-2016), present overview of this project: its conceptual framework, progress of the first two years, challenges and opportunities we have met, and future direction. Presenters of these sessions aim to answer three questions: 1) What specific, measurable environmental changes have occurred due to payment programs? 2) What changes in human livelihoods, demographic behavior, and their interrelationships have occurred since payment program implementation? How have such changes in turn affected the programs? 3) How are the integrated systems of human behavior and demographics, the environment, and policy expected to evolve? We present our study based on Fanjingshan National Nature Reserve in China (for the endangered Guizhou golden monkey) to address these questions of both local and global importance. We cover the following topics: forest cover and its change measured by remote sensing and GIS, habitat occupancy of the golden monkey captured by camera trapping, existing census data, extensive household surveys, participatory mapping, and the related statistical and geospatial analyses for relevant hypothesis testing. We finally aim to use an agent-based model for systems integration and simulation. Our project aims to generate a broader understanding of human behavior, environmental change, and the dynamics of coupled human and natural systems.

New Query