



AAG Annual Meeting

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Paper Session:

3139 Paths toward Sustainable Payments for Ecosystem Services--I

is scheduled on Thursday, 4/10/2014, from 8:00 AM - 9:40 AM 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
[Xiaodong Chen](#) - University of North Carolina at Chapel Hill

Chair(s):

[Douglas A. Stow](#) - San Diego State University

Abstract(s):

8:00 AM Author(s): *Weihua Xu - Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
Zhiyun Ouyang - Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Abstract Title: *Effects of nature reserves in protecting natural forest and ecosystems services in tropical Hainan, China*

8:20 AM Author(s): *Drew E. Bennett - Oregon State University

Abstract Title: *Conditions for the Emergence of Payments for Ecosystem Services: A Comparative Analysis of Water Utility Programs in the United States*

8:40 AM Author(s): *Glenn Hyman - CIAT

Abstract Title: *A Whole Landscape Approach to Reducing Emissions in the Central Peruvian Amazon*

9:00 AM Author(s): *Felipe Murtinho, PhD - Seattle University
Tanya M Hayes, PhD - Seattle University

Abstract Title: *Collective Decision-Making to Participate in Payment for Ecosystem Services Programs: Evidence from the Ecuadorian Andes*

9:20 AM Author(s): *Heejun Chang - Portland State University

Abstract Title: *Ecosystem services and scale: A spatial approach*

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. Governments, the private sector, and many non-governmental organizations worldwide invest billions of dollars each year in PES programs. Despite reported successes in restoring and conserving ecosystems and their corresponding services, lack of sustainability has become a serious concern for many PES programs

worldwide; one of the problems is that PES participants may return to their previous behavioral patterns when payments end.

This session will explore possible pathways toward PES sustainability, addressing the complex reciprocal relationships between PES programs and corresponding socioeconomic, demographic, and environmental systems. We particularly encourage review and research articles to address theoretical, methodological, and empirical issues related to (but not limited to) the following topics:

1. Potential mechanisms for successful (or unsuccessful) PES programs
2. Ecological effects of PES programs (e.g., wildlife habitat or behavioral change, biodiversity change)
3. Socioeconomic, demographic, and political consequences of PES programs
4. Methodological issues: collection of qualitative and quantitative data related to PES, data analysis and modeling, application of GIS techniques and spatial statistics, integration of multidisciplinary and multi-scale data, and addressing complexity in PES related coupled natural and human systems (CNH). Analyses using similar integrated frameworks including coupled human and natural systems (CHANS), social-ecological systems, or social-environmental systems are also welcome.

This session (sessions) is co-sponsored by the AAG Spatial Analysis and Modeling group, the Geographical Information Science and Systems group, and the Human Dimensions of Global Change group. To be considered for the sessions:

1. Please register and submit your abstract online following the AAG Guidelines (<http://www.aag.org/cs/annualmeeting>); and
2. Please send your paper title, PIN, and abstract no later than Tuesday, December 3 to Stephen Crook (scrook@gmail.com) and cc to Dr. Li An (lan@mail.sdsu.edu).

New Query