Paper Session:

2611 Payments for Ecosystem Services: Paths toward Sustainability--Session II

is scheduled on Wednesday, 4/10/2013, from 4:40 PM - 6:20 PM in San Gabriel B, Westin, Lobby Level

Sponsorship(s):
Spatial Analysis and Modeling Specialty Group
Human Dimensions of Global Change Specialty Group
Geographic Information Science and Systems Specialty Group

Organizer(s):
Li An - San Diego State University
Douglas Stow - San Diego State University

Chair(s):
Li An - San Diego State University

Abstract(s):

4:40 PM Author(s): *Pamela McElwee, Ph.D. - Rutgers

Abstract Title: *Payments for Ecosystem Services in Vietnam: Balancing Equity and Efficiency in Market Approaches to Forest Conservation*

5:00 PM Author(s): *Drew Bennett - Oregon State University
Hannah Gosnell - Oregon State University

Abstract Title: *Placing Payments for Ecosystem Services within a Social-Ecological Systems Framework*

5:20 PM Author(s): *Mark Mcginnis - Dudek

Abstract Title: *Monitoring Southern California Habitat Reserves using High Spatial Resolution Satellite Imagery and LIDAR*

5:40 PM Author(s): *Brian E Robinson, PhD - Univ of Minnesota
Hua Zheng, PhD - Chinese Academy of Sciences
Yicheng Liang, PhD - Xian Jiaotong University

Abstract Title: *Is It Worth It? The Benefits, Costs and Livelihood Implications of Paying for Land Use Change*

6:00 PM Author(s): *Douglas Stow - San Diego State University
Caitlin Chason Lippitt - San Diego State University
Lloyd Coulter - San Diego State University

Abstract Title: *Monitoring Ecosystem Conditions Based on Changes in Vegetation Growth Form Fractions Estimated Using SPOT Satellite Data and Spectral Mixture Analysis*

Session Description: Many important ecosystem services have been degraded as a result of human activities. Even services derived from so-called protected areas are not immune to these threats. Indeed, much debate surrounds the topic of the most effective approaches to conservation. One approach has been to provide compensation to the

parties protecting them in the form of payments for ecosystem services (PES). To counteract forces of degradation, governments, the private sector, and non-governmental organizations worldwide invest billions of dollars each year in PES programs that provide incentives to resource users to take actions that sustain ecosystem services (or to refrain from taking actions that threaten ecosystem services). Despite reported successes in restoring and preserving ecosystems and their corresponding services such as clean air and water, food, soil fertility, forest resources, and eco-tourism, long-term PES program sustainability remains uncertain. PES lack of sustainability can arise from many reasons, one being 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. Land use or land cover change associated with PES programs
2. Ecological effects of PES programs (e.g., wildlife habitat or behavioral change)
3. Potential mechanisms for success/failure observed in current PES programs
4. Socioeconomic, demographic, and political consequences of PES programs
5. 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, etc.
6. Complexity in coupled natural and human systems (CNH) arising from PES programs (e.g., feedback, nonlinearity, time lags). 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 multiple AAG Specialty Groups: Geographic Information Science and Systems, Spatial Analysis and Modeling, Human Dimensions of Global Change, and China Geography.

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