



## AAG Annual Meeting

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### Paper Session:

#### 5260 Payments for Ecosystem Services: Paths toward Sustainability (II)

is scheduled on Saturday, 4/25/2015, from 10:00 AM - 11:40 AM in Field, Hyatt, West Tower, Silver Level

#### 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

#### Chair(s):

[Xiaodong Chen](#) - University of North Carolina at Chapel Hill

#### Abstract(s):

**10:00 AM Author(s):** \*Stephen ES Crook, Msc. - San Diego State University  
Li An, PhD. - San Diego State University  
Richard ES Bilsborrow, PhD - University of North Carolina, Chapel Hill  
Shuang Yang, MS - San Diego State University  
Weiyong Zhang - Fanjingshan National Nature Reserve

Abstract Title: *Land use change and environmental decision making in Fanjingshan National Nature Reserve following payment for ecosystem service program implementation*

**10:20 AM Author(s):** \*Shuang Yang - San Diego State University  
Richard Bilsborrow - University of North Carolina  
Li An - San Diego State University

Abstract Title: *How PES programs influence local people's decisions to migrate*

**10:40 AM Author(s):** \*Qi Zhang - UNC-Chapel Hill  
Conghe Song - University of North Carolina at Chapel Hill  
Richard Edward Bilsborrow - University of North Carolina at Chapel Hill  
Xiaodong Chen - University of North Carolina at Chapel Hill

Abstract Title: *Determinants of cropland abandonment in Tianma Nature Reserve in Anhui, China*

**11:00 AM Author(s):** \*Theresa Selfa - SUNY ESF  
Mariana Nava - SUNY ESF  
David Torres - UNAM  
Erin Pischke - Michigan Tech  
Sophie Avila - UNAM  
Kelly Jones - Colorado State University  
Kathy Halvorsen - Michigan Tech

Abstract Title: *A Comparison of the National and Matching Payments for Hydrological Services Programs in Veracruz, Mexico: Social and Organizational Challenges*

**11:20 AM Author(s):** \*Keshav Bhattarai, Dr. - University of Central Missouri

Abstract Title: *Sustainable Management of Contested Areas Using Ecosystem Services Approach*

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**Session Description:** Payments for ecosystem services (PES) programs have given rise to many successes in restoring natural systems and the corresponding ecosystem services. However, the factors behind people's decisions about enrolling in various PES programs vary from place to place. This problem has beset PES researchers and practitioners worldwide, leading to a variety of studies on PES mechanisms. Probably the largest PES program in the world to stimulate reforestation is the program in China called the Grain-to-Green Program, which aims to reduce soil erosion and increase vegetation cover through afforestation and reforestation (the "Green" part) in steep farmland areas (>15° in northwestern China, and 25° in southwestern China). Farmers are compensated through cash, rice, or corn (the "Grain" part) after stopping cultivating sloping farmland. Using the Fanjingshan National Nature Reserve for the endangered Guizhou golden monkey (China) as our study site, we surveyed 607 households in the summer of 2014. Through discrete choice multivariate statistical models, we examine the effects of various policy components (i.e., PES payment level, program duration, and planting strategy), along with their neighbors' choices, on local people's enrollment decisions. We take into account other socioeconomic (e.g., income, off-farm job), demographic (e.g., age, migration status), and environmental (e.g., distances to various services) variables. This study not only provides pivotal references for PES related policy making, but also leads to in-depth understanding about human behaviors in complex coupled natural and human (CNH) systems, which should improve modeling of complex CNH system dynamics.

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