

# • ISSRM 2011 •



## The 17<sup>th</sup> International Symposium on Society and Resource Management

**Integrating Conservation and Sustainable Living**  
**Madison, Wisconsin USA June 4-8, 2011**



International Association for  
Society and Natural Resources



## ISSRM 2011 Schedule Overview

Unless noted otherwise, all events will take place in Memorial Union, 800 Langdon Street, Madison, WI

### June 4 (Saturday)

Student Forum Registration (Sewell Social Science Bldg.)	11:30 am – 12:30 pm
Student Forum (Sewell Social Science Bldg.)	12:30 – 5:00 pm
ISSRM Registration	5:00 – 7:00 pm

### June 5 (Sunday)

Field Trips	8:00 am – 4:30 pm
IASNR Council Meeting	11:00 am – 2:00 pm
ISSRM Registration	Noon – 8:00 pm
New Member Meeting	5:30 – 6:00 pm
Welcome Reception/Silent Auction Opens	6:00 – 8:00 pm

### June 6 (Monday)

ISSRM Registration	7:00 am – 5:00 pm
Concurrent Sessions	8:00 am – 6:00 pm
Plenary Session	9:30 – 10:15 am
All member IASNR Business Lunch	Noon – 1:30 pm
Poster Session and Reception/Silent Auction Ends	6:00 – 8:00 pm

### June 7 (Tuesday)

ISSRM Registration	7:30 am – 5:00 pm
Concurrent Sessions	8:00 am – 4:15 pm
Plenary Session	9:30 – 10:15 am
Student Quiz Bowl	4:30 – 5:30 pm
Brat and Brew Picnic and Awards	6:00 – 8:30 pm

### June 8 (Wednesday)

ISSRM Registration	7:30 am – Noon
Concurrent Sessions	8:00 am – 3:30 pm
Round Table: Integrated Conservation and Economic Development in Alberta and Wisconsin	12:45 – 2:00 pm



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## Welcome

Welcome to the land of Aldo Leopold and boyhood home of John Muir. The local organizing committee, under the leadership of the Department of Forest and Wildlife Ecology and the Applied Population Laboratory at the University of Wisconsin-Madison, is pleased to host the 2011 International Symposium on Society and Resource Management (ISSRM). Under the theme *Integrating Conservation and Sustainable Living*, we have assembled an interesting and diverse program that we are confident you will find both rewarding and enjoyable.

All sessions and social activities will be held in Memorial Union and the Red Gym next door. Located on Lake Mendota, Memorial Union is a classic Italian Renaissance building and is considered the "heart and soul" of the University of Wisconsin-Madison. Students, faculty, visitors, and guests converge in Memorial Union to eat, meet, or just relax.

We think you will also enjoy the many amenities the City of Madison has to offer. With a population of about 233,000 and situated between lakes Mendota and Monona, Madison has a thriving downtown. Within walking distance of Memorial Union, you will find many restaurants, coffee shops, bookstores, and unique retail stores and the state Capitol is just a short walk down pedestrian friendly State Street. We hope you will enjoy your visit to our city as well as the symposium.

Meetings such as ISSRM only work with the assistance of many individuals and organizations. In particular we would like to acknowledge the support of our generous sponsors and exhibitors, IASNR "elders," the numerous session organizers, and the presenters who make the programming of this event possible.



# • International Symposium on Society and Resource Management •

## About the Venue

ISSRM 2011 will be held at the Memorial Union on the University of Wisconsin campus in Madison, Wisconsin. Memorial Union is often described as the “heart and soul” of the University. Located on the shore of beautiful Lake Mendota, it was founded in 1907 and remains one of the most beautiful buildings on campus. The Union is based on the principle that the university experience should involve learning outside of the classroom, and students, faculty, staff, and guests eat, meet, learn, and relax there together on a daily basis.

Madison is Wisconsin’s capitol city and it continually ranks as one of the best places to live, work, and play in the United States. Built on an Isthmus between Lake Monona and Lake Mendota, Madison offers incredible natural beauty, stimulating cultural opportunities and a plethora of restaurants, shops, and attractions. It has a population of about 233,000. Madison is centrally located in the Upper Midwest about 80 minutes west of Milwaukee, 2 hours northwest of Chicago, and 4 hours southeast of Minneapolis/St. Paul.

## About the Host Institution

The University of Wisconsin- Madison is a public, land-grant institution that was founded in 1848 and consistently ranks among the world’s premier research institutions. The principle that education should influence and improve people’s lives beyond the university classroom and that the work of the university should extend to the borders of the state and beyond (the Wisconsin Idea) underlies much of the research and outreach conducted on campus and in partnerships with state and federal agencies and community groups. UW-Madison offers instruction in more than 100 fields, with more than 4,200 course listings, over 2,000 faculty members, and student enrollment of about 42,000.

UW-Madison is committed to promoting sustainability through action on campus, research, teaching, and outreach. The university has reduced its greenhouse gas emissions by 24% since 2006, and it is one of only seven institutions to receive an “A” ranking in the 2011 College Sustainability Report Card, an independent ranking prepared by the Sustainable Endowments Institute. Academically, issues related to society, natural resources, and the environment are important focus areas for hundreds of students, faculty, and staff within multiple departments, centers, and institutes on campus, including the Nelson Institute for Environmental Studies, the Department of Forest and Wildlife Ecology, and the Department of Community and Environmental Sociology, to name only a few.

The UW-Madison campus spreads out along the southern shore of Lake Mendota, encompassing 935 acres of wooded hills, friendly shores and lively city streets. Memorial Union and the new Union South serve as campus centers. Within a short walk one can go from a lively metropolitan atmosphere along University Ave. to a quiet wooded setting along the lakeshore path, to the shops and restaurants that line State Street and lead to the Wisconsin Capitol building.





# • International Symposium on Society and Resource Management •

## Conference Organizers

### Organizing Chair:

Don Field, UW-Madison, Forest and Wildlife Ecology

### Conference Coordinator:

Kristina Hemstead, UW-Madison, Agroecology

### Program Chairs:

Courtney Flint, University of Illinois, Natural Resources and Environmental Sciences

Joan Brehm, Illinois State University, Sociology and Anthropology

### Conference Planning Committee:

Melissa Baker, UW-Stevens Point, College of Natural Resources

Pam Jakes, USDA Forest Service, Northern Research Station

Mary Miron, UW-Madison, Forest and Wildlife Ecology

Steve, Pomplun, UW-Madison, Nelson Institute for Environmental Studies

Becky Schewe, Michigan State University, Kellogg Biological Station

Keith Warnke, Wisconsin Department of Natural Resources

Richelle Winkler, Applied Population Laboratory, Madison, Wisconsin

### Student Forum Organizers:

Mike Dougherty, UW-Madison, Development Studies

Becky Schewe, Michigan State University, Kellogg Biological Station

### Website Development:

Paulus Mau, Mau Consulting, Vancouver, BC

Jim Beaudoin, Applied Population Laboratory, Madison, Wisconsin

### Program Design:

Ben Beardmore, UW-Madison, Center for Limnology

### Student Paper Awards:

Douglas Clayton Smith, Western Kentucky University

Kristin Floress, UW-Stevens Point, Center for Land Use Education

Mae Davenport, University of Minnesota - Twin Cities, Department of Forest Resources

### Silent Auction:

Joan Brehm, Illinois State University, Sociology and Anthropology

### Poster Session:

Richelle Winkler, Applied Population Laboratory, Madison, Wisconsin

Melissa Baker, UW-Stevens Point, College of Natural Resources

**Scientific Advisory Committee**

Jim Absher	USDA Forest Service, Pacific Southwest Research Station
Tom Beckley	University of New Brunswick, Canada
Michael M. Bell	University of Wisconsin- Madison
Dale Blahna	USDA Forest Service, Pacific Northwest Research Station
Mae Davenport	University of Minnesota
Kristin Floress	University of Wisconsin- Stevens Point
Peter Fredman	Mid-Sweden University, Östersund Sweden
Alan Graefe	Pennsylvania State University
Geoffrey Habron	Michigan State University
Roger Hammer	Oregon State University
Cheryl Hudec	Sam Houston State University, Texas
Douglas Jackson-Smith	Utah State University
Robert Emmet Jones	University of Tennessee
Richard Krannich	Utah State University
Naomi Krogman	University of Alberta, Canada
Jonathan Kusel	Sierra Institute
Kirsten Leong	National Park Service, Fort Collins, Colorado
Mike Manfredo	Colorado State University
Rodrigo Medeiros	Universidade Federal Rural de Rio de Janeiro, Brazil
Andreas Muhar	BOKU University, Vienna, Austria
Brian Ohm	University of Wisconsin- Madison
Jeff Prey	Wisconsin Department of Natural Resources
Ulrike Pröbstl	BOKU University, Vienna, Austria
Adena Rissman	University of Wisconsin- Madison
Johan Fredrik Rye	Centre for Rural Research, Trondheim, Norway
Toddi Steelman	North Carolina State University
Susan Stewart	USDA Forest Service, Northern Research Station
Bill Stewart	University of Illinois at Urbana-Champaign
Gene Theodori	Sam Houston State University, Texas
Dave White	Arizona State University
Min-Ching (Tony) Yang	National Chi-Nan University, Taiwan
Laurie Yung	University of Montana

## Conference Logistics

### Registration Information

Registration can be found at the Annex located on the second floor of the Memorial Union.

Registration times are from 5:00 pm – 7:00 pm on Saturday, from 12:00 pm – 8:00 pm on Sunday, from 7:00 am – 5:00 pm on Monday, from 7:30 am – 5:00 pm on Tuesday and from 7:30 am – 12:00 pm on Wednesday.

### Uploading Presentations

Presenters should have their presentations uploaded by 11:59pm Friday, June 3<sup>rd</sup>, 2011 Eastern Standard Time. Directions are on the ISSRM Website. As a **backup**, please bring your presentation on a USB memory stick or a CD.

### Internet access

Free wireless internet access will be available at Memorial Union and across campus through the UW campus network to all registered participants. Simply use your wireless client application to associate with the nearest Access Point. The SSID broadcast will be in the format “UWNet-building name.” You will be prompted to enter a “NetID” and password, which will be provided on the back of your name tag. Additionally, there are a handful of kiosks with computers located at the Memorial Union, but it is recommended that participants do not rely solely on these for their computer usage.

### Practice Presentation Room

The Board Room on the third floor of the Memorial Union will be reserved with a computer and a screen for practicing presentations. A sign-up sheet will be available at the registration desk for individuals interested in reserving a time to run through their presentation.

### Lounge and Social Gathering Space

You will find several nooks around the Memorial Union to use as meeting spots or places to just relax and read a book. For a quieter experience try Peet’s Coffee located on the first floor of the Union or the Main Lounge on the second floor. Make sure to visit the Union Terrace and enjoy the lakeside ambiance.

### Food Provided

Your registration to ISSRM includes many meals and refreshments. The opening reception on Sunday evening at 6:00 p.m. will feature hor d’oeuvres and open beer, wine, and soft drinks. Morning coffee and pastry breaks will be provided Monday and Tuesday from 10:15-10:45 a.m. and on Wednesday from 10:45-11:15. Afternoon snack breaks will be given on Monday at 4:15-4:45 pm. and on Tuesday at 2:30-3:00 p.m. On Monday, a full lunch will be provided at noon in the Great Hall and the poster session in Tripp Commons at 6:00 p.m. will offer heavy hor d’oeuvres and open beer, wine and soft drinks. Tuesday night features a full dinner at the Brat and Brew Picnic at 6:00 p.m in the Great Hall. Finally, breakfast is provided to guests staying in campus dorms.

### All Members IASNR Business Meeting

We encourage all IASNR members to attend the Business Meeting which will be held on Monday in the Great Hall from noon to 1:15. This will be a lunch meeting with a full meal included for all conference participants. Join us for lunch and learn about key issues facing your International Association of Society and Natural Resources membership organization.



## Conference Logistics cont'd

### Other Food Options

Madison offers a unique melting pot of food vendors. For lunch, try one of several ethnic food carts located at Library Mall, just across the street from the Memorial Union. These offer a variety of traditional dishes including vegetarian and vegan options for \$5-\$10. Memorial Union itself hosts the Rathskeller with pub fare, sandwiches, soups, and salads; Lakefront on Langdon which offers a variety of cafeteria style dining options; and the Daily Scoop serving UW-Madison's own ice creams. State Street is a pedestrian friendly street that links campus to the state capitol building. It is a 5-minute walk from Memorial Union and has a variety of food selections ranging from Asian to African to classic American. A 15-minute walk down State Street to the Capitol Square leads to more up-scale local food restaurants like *Harvest* and *L'Etoile*, pub-style choices like the *Great Dane Brew Pub*, *Brocach Irish Pub*, and *The Old Fashioned*, or German dining and drinking at the *Essenhaus*.

### Transportation and Parking

The Madison Metro Bus system offers two free buses in the summer (numbers 80 and 85) which circle around campus every 15 minutes from 6:30 am to 5:45 pm. In addition, buses serve the entire city for a fare of \$2.00 each way (must have exact change) or you can purchase a 10-ride card online for \$15.00. Several buses serve the area between campus and State Street/Capitol Square and these are easy to catch at most times of the day or night. More information can be found on their website (<http://www.cityofmadison.com/metro/>). Additionally, Madison has several taxi services, such as the Green Cab of Madison (608) 255-1234. Campus parking information can be found on the ISSRM website. In addition, the State Street and Capitol Square areas have several parking garages, and street parking is available in certain areas.

### Madison Recreation

There are many recreational opportunities right in the heart of campus. You can rent a canoe or sailboat from Hoofers Outdoor Rentals right at the Memorial Union by the hour or day. The lakeshore walking/biking path leads from Memorial Union to the Lakeshore Nature Preserve and Picnic Point, or you can take the 80 bus to the entrance of Picnic Point for hiking and quiet relaxation in the woods along the lake. The SERF and Natatorium are both campus workout facilities that offer day passes. The Arboretum just south of campus offers several hiking and biking trails and a variety of native bird and plant species. Madison is one of the most bike-friendly cities in the country and offers several biking trails in and around the city. Check out the City of Madison website under "bike Madison" for maps and details. You can rent a bike near campus from Erik's bike shop on University Avenue or from Budget Bicycle Center, Williamson Bicycle Works and Fitness, or Machinery Row Bicycles.



### Things to do in Madison

There will be brochures located by the registration desk for other ideas of what to do around Madison. Activities range from kayaking and biking on area trails to concerts and museums located around the Capitol Square.

# • International Symposium on Society and Resource Management •

## About the ISSRM

The International Symposium on Society and Resource Management (ISSRM) is the official annual meeting of the International Association for Society and Natural Resources ([www.iasnr.org](http://www.iasnr.org)), an interdisciplinary professional association whose members bring a variety of social science and natural science backgrounds to their research on environmental and natural resource issues.

Since its inception in 1986, the ISSRM has become the premier scientific meeting for academic and government researchers, students, land managers and NGO representatives who are broadly interested in the human dimensions of natural resources and the environment. Although the largest percentage of IASNR members live and work in the United States and Canada, symposia have been held in seven countries on three continents – most recently at Vienna, Austria in 2009 and, continuing our international exposure, in 2011 a second ISSRM will be held in Sabah, Malaysia.

The ISSRM is unique in that the meeting itself was the catalyst for the professional organization and its journal, rather than the other way around. The first symposium was held at Oregon State University in 1986. Its organizer and prime mover was Donald R. Field, then a professor of sociology and forest management and National Park Service scientist at the Corvallis campus. His idea was simple: to provide a venue for social scientists and federal and state land management agencies to exchange research knowledge on emerging environmental and natural resource issues.

Two important actions came about as a result of that 1986 meeting. First, it was clear that the information exchange was valuable enough to warrant more meetings, so the ISSRM became first a biannual conference and since 2004 an annual meeting. Second, conferees agreed that enough research was being conducted on the social science aspects of environment and natural resources that it warranted its own publication. Hence the well-known journal *Society and Natural Resources* appeared in 1988, published by Taylor & Francis. IASNR officially was established in 2002 in order to solidify the professional identity of this interdisciplinary research field, as well as to maintain the journal and ISSRM. These days a typical ISSRM attracts 500 or more scientists, managers and conservation professionals from 25 or more nations. Participating disciplines include sociology, psychology, anthropology, political science, economics, landscape architecture, environmental planning, outdoor recreation management, history, and the natural sciences.

## About the IASNR

IASNR is an interdisciplinary professional association open to individuals who bring a variety of social science and natural science backgrounds to bear on research pertaining to the environment and natural resource issues. Our official journal, *Society and Natural Resources*, publishes research articles and policy analyses pertaining to a broad range of topics addressing the relationships between social and biophysical systems. Our official meetings, the International Symposia on Society and Resource management, are held annually.

A.E. Luloff  
Executive Director  
Dept of Agricultural Economics  
and Rural Sociology  
Pennsylvania State University

Jerry Vaske  
Secretary  
Dept of Human Dimensions of  
Natural Resources  
Colorado State University

Jim Finley  
Treasurer  
School of Forest Resources  
Pennsylvania State University

## Past Symposium Hosts

- 2011 University of Wisconsin-Madison, Madison, WI, USA  
*Integrating Conservation with Sustainable Living*
- 2010 Sam Houston State University, Corpus Christi, TX, USA  
*Tyranny of "OR": Conservation or Development? Preservation or Utilization?*
- 2009 University of Natural Resources and Applied Life Sciences, Vienna Austria  
*Meet Old and New Worlds in Science Management and Resources*
- 2008 The University of Vermont, Burlington, VT, USA  
*People and Place: Linking Culture and Nature*
- 2007 Utah State University, Park City, UT, USA  
*Landscape Continuity and Change: Social Science Perspectives and Interdisciplinary Conversations*
- 2006 Simon Fraser University & University of British Columbia, Vancouver, BC, Canada  
*Social Sciences in Resource Management: Global Challenges & Local Responses*
- 2005 Mid Sweden University, Östersund, Sweden  
*From Knowledge to Management: Balancing Resource Extraction Protection and Experiences*
- 2004 Colorado State University, Keystone, CO, USA  
*ISSRM: Past and Future*
- 2002 Colorado State University & University of Sassari, Sardinia, Italy  
*Global Challenges of Parks and Protected Area Management*
- 2000 Western Washington University, Bellingham, WA, USA
- 1999 University of Queensland, Brisbane, Australia
- 1998 University of Missouri-Columbia, Columbia, MO, USA
- 1996 Pennsylvania State University, State College, PA, USA
- 1994 Colorado State University, Ft. Collins, CO, USA
- 1992 University of Wisconsin-Madison, Madison, WI, USA
- 1990 Texas A&M University, College Station, TX, USA
- 1988 University of Illinois at Urbana-Champaign, IL, USA
- 1986 Oregon State University, Corvallis, OR, USA

## Upcoming Symposium Hosts

- 2011 Universiti Malaysia Sabah in Kota Kinabalu, Sabah, Malaysia  
To encourage broader participation from across the globe, IASNR is hosting two ISSRMs in 2011. The Malaysian symposium will be held at Le Meridien Hotel June 13-17, 2011 following the theme *Natural Resource Development and Conservation: Negotiating Boundaries, Knowledge and Power*.
- 2012 University of Alberta, Edmonton, AB, Canada
- 2013 Colorado State University, Ft. Collins, CO, USA

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## Invitation to ISSRM 2012

We would also like to invite you to ISSRM 2012 in Edmonton, Alberta, Canada for June 17-21, 2012. The conference organizers are planning an exciting combination of plenary sessions, focused sessions, field trips, social events, and a graduate student pre-conference. The theme for the 2012 ISSRM is “Linking the North and the South: Responding to Environmental Change.”



The meeting next year takes place in the capital of Alberta, which has a park system with more “green space” than any other North American city. The conference will be held at a time of year where the temperatures are mild but everything is green, and you will be able to enjoy the river valley with its extensive running, walking and biking trail system.

Founded a century ago, the University of Alberta is one of the top 100 teaching and research universities in the world serving more than 36,000 students with 11,000 faculty and staff. Visitors at University of Alberta may have access to athletics on and off campus. The city is celebrated for its theatre and arts communities, and restaurants and nightlife are just a short walk from campus. The downtown core is minutes away by Light Rail Transit (LRT) and the Banff and Jasper National Parks are only a few hours drive away. Mark your calendar now and plan to join us in Alberta in 2012.



## Greening of ISSRM 2011

Bringing together over 500 participants from around the world for a conference such as ISSRM inevitably makes an impact on the earth. Our travel, our food and drink, and our supplies each make an impact. Your ISSRM planning committee has made several efforts to reduce these impacts.

1. Instead of providing conference tote bags and other gear, we've tried to keep conference materials to a minimum using recycled paper for printing programs and handouts and using a small folder to organize materials. We do not offer a CD of conference materials, because these are all available via the website.
2. We include a biodegradable mug so that participants can re-use this mug for drinking beverages throughout the conference and reduce paper cup use. We encourage you to carry this mug with you and to use it at meals and breaks. Markers will be available to "name" your mug at registration and your drinking cup at receptions.
3. We've made efforts with food and beverage choices to include local choices, vegetarian foods, and foods that require less paper material and utensils to eat.
4. All paper/plastic products for food service are 100% biodegradable. Compost bins will be prominently placed in and around food service areas. Please place your paper/plastic utensils in these compost bins.
5. For beverage service, we have chosen to use keg beer and biodegradable cups, rather than multiple cans or bottles. If you have more than one beverage, please re-use your cup.
6. Water jugs will be located in all meeting rooms. Please bring your own mug to drink. Bottled water will only be provided in limited quantities (or not at all), and we discourage its use.
7. Recycling bins will be prominently placed throughout conference and food service areas. Please use them.

We all play a role in living sustainably with the natural world. We encourage you to make as many "green" choices as you can throughout this conference and in your individual lives. Please consider contributing to a program (like Green Mountain Energy) to offset the carbon emissions of your travel to Madison.



## Field Trips

All field trips take place Sunday, June 5th. Please note: prior registration is required.

### **Powder, People, and Place: Conservation and Sustainability on the Sauk Prairie**

**Organizers:** Richelle Winkler, Mary Miron, and Alison Duff

This field trip explores past, present, and future issues related to the development of the world's largest ammunitions plant on the Sauk Prairie. The Sauk Prairie is situated between the expansive Wisconsin River and the beautiful Baraboo bluffs about 30 miles northwest of Madison. This trip involves a discussion with author Michael Goc over pastries and coffee at the historic Free Thinker's Park Hall in Sauk City, a tour of Badger Army Ammunition Plant, a panel of speakers over catered lunch at Devils Lake State Park, and time to swim in the lake or hike the rocky shorelines of Wisconsin's most popular state park. Discussion will focus on the interplay of ecological and social issues ranging from prairie restoration, to government takings; from environmental justice and water quality to sustainable agriculture; and from tribal rights to community involvement in land management decisions all aimed at shaping and promoting the reuse of this area for future sustainability. The book *Powder, People, and Place* by Micheal Goc is recommended as introductory reading.

### **Sustainable Living**

**Organizers:** Becky Schewe and Sarah Lloyd

Please join us for an all-day field trip exploring sustainability in everyday living. We will explore how principles of sustainability can be integrated into daily activities and communities, from the food we eat to the homes we live in. We plan to visit an organic dairy farm with an on-farm creamery to discuss the environmental impacts of food and the sustainable agriculture movement. A stop at the Aldo Leopold Foundation to visit the Leopold 'shack' and the LEED certified Leopold Center will highlight the ethics of sustainability and how we can conserve energy and build positive relationships with our communities and environment. After a lunch of delicious local foods, we will return to Madison and visit an architectural firm that is promoting green buildings and renovations that support healthy urban communities.

### **Wisconsin River**

**Organizer:** Adena Rissman

Join us for an all-day field trip exploring the social, ecological, and political dynamics along the lower Wisconsin River. This popular canoeing river meanders through the bluffs, sandbars, oak forests, prairies, and farms of the unglaciated Driftless Area. We will explore the dynamics of landscape conservation in a mosaic of public and private land, and the development of a unique state scenic protection regulatory authority on the river. We will discuss the politics of conservation, recreation, forest management, and rural development. We plan for a half-day canoe trip, with time to stop along the river for lunch, meet with local community leaders, and experience the diverse social and ecological communities along the river.



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## Special Events

### New Member Meeting

Sunday, June 5, 5:30-6:00 pm, Tripp Commons, Memorial Union. Meet IASNR key staff and learn the benefits of being a member. Bring your questions and suggestions regarding IASNR, the *Society and Natural Resources* journal, and future ISSRMs.

### Welcome Reception

Sunday, June 5, 6:00 – 8:00 pm, Tripp Commons, Memorial Union. Join us for the official opening event of the 2011 ISSRM. Complimentary appetizers and beverages will be served.

### Silent Auction

Opens Sunday 6:00 pm and closes Monday at 7:00 pm. Tripp Commons, Memorial Union. Funds raised will be donated to the 2012 ISSRM host to use for Student Registration Scholarships. Items may be paid for by cash or check only.

### IASNR Business Lunch

Monday, June 6, Noon - 1:15 pm, Great Hall, Memorial Union. IASNR members will conduct a business meeting. Find out what the society leadership has been doing, review the society budget, and weigh in on important policy decisions. All conference participants are welcome to attend the lunch, which is included in the registration fee.

### Poster Session and Reception

Monday, June 6, 6:00 - 8:00 pm, Tripp Commons, Memorial Union. Appetizers, beer, wine and sodas will be provided. **Silent Auction Closes** at 7:00 pm and the winning bidders will be announced.

### Student Quiz Bowl

Tuesday, June 7, 4:30 - 5:30 pm, Class of 1924 Reception, Memorial Union. This will be the 4<sup>th</sup> annual Student Quiz Bowl. The Quiz Bowl offers a spirited competition among teams of four students who respond to questions relating to social science issues applied to the environment and natural resources.

### Brat and Brew Picnic and Award Presentations

Celebrate IASNR member achievements at a brief awards ceremony. Then enjoy a picnic at the Union with brats (meat or veggie) along with other delicious side dishes. Limited complimentary beer is included and a cash bar will be available.

### Integrated Conservation and Economic Development in Alberta and Wisconsin

This special session will occur on Wednesday, June 8, from 12:45-2:00 p.m. at the Play Circle in the Memorial Union. Presentations will be given by Mel Knight (the Minister for Sustainable Resource Development for Alberta, Canada) and George Meyer (Executive Director of the Wisconsin Wildlife Federation and former State of Wisconsin DNR Secretary) followed by open discussion from the audience. You are welcome to bring your lunch.

## Plenary Speakers

### X1: Eating for Good: Pleasing Yourself While Saving the Planet

Monday, June 6, 9:30 am

Union Theater



Agriculture is the most destructive anthropogenic activity on the planet—but it doesn't have to be that way. Every person can vote, often three times a day, for a food system that will enhance our communities and our earth. Every time we eat, we are voting either for an industrial, factory-model agricultural system with deleterious effects on health (human, economic, and environmental) as well as on biophysical resources (forests, soil, air, water, biodiversity – to name a few) – or we can vote for an ecological, community-based agriculture that builds community health and wealth through biodiversity and resilience. Unlike most virtuous choice, which demand hardship or a bitter pill, this one enables us to “do good by eating well.”

**Terra Brockman** is a speaker and author, most recently of *The Seasons on Henry's Farm*, which takes the reader through the many “micro-seasons” on her brother Henry's sustainable, extremely diverse vegetable farm in central Illinois. A member of a remarkable farming family, Terra is a

nuanced observer of, fierce advocate for, and gifted writer and speaker about sustainable agriculture. She comes at her subject from unexpected angles, combining her experience growing up as one of the 4th generation of an Illinois farm family with her expertise in biology, ecology, literature, philosophy and history. Terra is also the founder of The Land Connection, an educational nonprofit working to ensure that more Illinois farmland will grow local foods for our tables.

Terra was raised in central Illinois, and after spending time at the Universities of Oregon and California, she finished undergraduate and graduate degrees in Biology and English Literature at Illinois State University. She then worked as a teacher, writer, and editor in Japan for five years. This is where her professional writing career began – writing for *The Daily Yomiuri*, various magazines, and a book, *The Job Hunter's Guide to Japan* (Kodansha International, 1990). She then moved to New York City where she worked for publishers Holt, Rinehart & Winston and Oxford University Press, while also writing book reviews for *The Nation*, *Mangajin*, and *Book Magazine*. During her years in New York, Terra traveled extensively, from Nepal to Eritrea to Morocco to the Baltics.

During her travels, she found that much of the “third world” ate better than some in the first world because their foods were fresh, local, and unprocessed. As she made her way back to central Illinois, she realized that the best food in the world could be grown in the rich soils of Illinois. She has been writing and speaking on food and agriculture topics ever since.

Her website is [www.terrabrockman.com](http://www.terrabrockman.com).

**Plenary Speakers cont'd**

**Y1: Environment, Society, and the 21st Century University**

Tuesday, June 7, 9:30 am

Union Theater



This talk will address the increasingly critical impacts that human actions -consumption of carbon-based fuels, continued population growth, etc.- are having on the environment and will then discuss the important role that the 21st century university must play in helping offset the negative consequences that follow from this interface.

**Stan Albrecht** is the President of Utah State University, appointed February 2005, where he also served four years as Executive Vice President and Provost. Albrecht has acquired a broad range of administrative, research, teaching, and outreach experiences through his career. This includes administrative assignments as a department chair, academic dean (twice), associate director of a major research institute, and academic vice president. At Utah State University, he was Dean of the College of Humanities, Arts, and Social Sciences prior to his appointment as Provost. He has served in a number of professional assignments, including a Congressional Office of Technology Assessment Panel on Alternatives for Basing the MX missile and as a member of the Department of Interior's Minerals Management Service Science Advisory Committee.

He has authored or co-authored five books and published over 100 articles in refereed journals and book chapters. His research has been supported by the U.S. Department of Agriculture, the U.S. Environmental Protection Agency, the National Institute of Environmental Health Sciences, and a number of other programs and agencies. He has received outstanding research awards at both the University of Florida and Brigham Young University and several teaching awards.

Albrecht currently serves on the American Council on Education's Commission for Women in Higher Education (OWHE), Association of Public Land-Grant Universities (APLU-formerly NASULGC) as Chair-elect of the Commission on International Programs, Cache Valley Regional Council, Economic Development Corporation of Utah Board of Trustees, Member of the NCAA Division I Board of Directors, Northwest Commission on Colleges and Universities (NWCCU) as a Commissioner, Salt Lake Chamber Board of Governors, Wells Fargo Northern Utah Community Board, as Chair of the Western Athletic Conference Board of Directors, and the Utah Campus Compact.

## Roundtable

### Z1: Integrated Conservation and Economic Development in Alberta and Wisconsin

Wednesday, June 8, 12:45 pm

Play Circle Theater



**Mel Knight** was elected to his third term as a Member of the Legislative Assembly for Grande Prairie-Smoky on March 3, 2008. Mr. Knight currently serves as Minister of Sustainable Resource Development and as a member of the Agenda and Priorities Committee. Previously, he served as Minister of Energy. Mr. Knight is also an active participant in the Energy Council and co-chairs the Energy Task Force with the Pacific Northwest Economic Region (PNWER).

Mr. Knight has represented Alberta on the Council of State Governments - West (CSG-West), Alaska-Alberta Bilateral Task Force, co-chair of the Alberta Energy Research Institute (AERI) and Board of Directors for the Canadian Energy Research Institute (CERI). An active member of his community, Mr. Knight was a member of a local recreation board, the past president of a senior hockey team, a hockey coach for over 10 years, and a member of the local gun club and petroleum association.



**George Meyer** was raised on a dairy farm in New Holstein, Wisconsin. After graduating from college (St. Norbert College) and law school (UW-Madison), he started working for the Department of Natural Resources.

Mr. Meyer represented the agency as an attorney for ten years and then was promoted to be Division Administrator for the Division of Enforcement for the Department. During the twelve years he was in this position, he had responsibility for all of the DNR's programs dealing with conservation and environmental enforcement, environmental impact statements, water regulations and wetland protection. He served as lead negotiator for the state during the Chippewa Treaty Rights controversy.

Mr. Meyer worked for the DNR for 32 years, serving as DNR Secretary from 1993 until 2001. While Secretary of the DNR, he served in leadership positions in two national organizations: the Environmental Council of the States and the Association of Fish and Wildlife Agencies.

After retirement Mr. Meyer taught for two years at Lawrence University in Appleton, Wisconsin. He has worked for the last 8 years as the Executive Director of the Wisconsin Wildlife Federation. The Federation is comprised of 171 hunting, fishing and trapping groups located throughout the state. The group advocates for strong conservation policies and is heavily involved in conservation education.

## Student Paper Competition Winners

Each year Taylor and Francis, publisher of *Society and Natural Resources* journal, sponsors a student paper competition at ISSRM. Congratulations to this year's award recipients listed below. The organizing committee thanks Taylor and Francis for their generous donation and this year's student paper award committee - Douglas Clayton Smith, Mae Davenport and Kristin Floress .

### The Masters-Level Award Winner



#### **Moving REDD Beyond Opportunity Costs: Social and Cultural Values Associated with Indigenous Forest Uses**

**Spencer Plumb**, School of Earth Sciences and Environmental Sustainability, Northern Arizona University

Mechanisms to reduce deforestation and forest degradation are moving forward under the assumption that market values of carbon will be sufficient to offset opportunity cost associated with avoiding deforestation. However, simply calculating the agricultural rents for forest land is inadequate to account for the subsistence and cultural opportunity costs associated with avoided deforestation. There is little understanding of how REDD projects will impact local livelihoods and what cultural shifts will result from new economic incentives aimed at changing land uses among indigenous peoples. Household surveys, farm visits and community workshops information were conducted in a Miskito community in the Rio Platano Biosphere Reserve in Honduras. Most deforestation in the region results from cattle ranching by ladino colonists, however Miskito peoples have a significant impact on forests due to population growth and dependence upon forests for subsistence and economic opportunities. Information about indigenous land-use norms, economic and subsistence values of forest uses, and cultural significance of forests are compared to the predicted economic benefits derived from developing a REDD project in the region. Results indicate that the current market value of carbon is insufficient to cover economic opportunity costs, agricultural rents and timber values, associated with indigenous land uses. Market-based REDD projects for this region may not be viable considering that these economic opportunity costs only account for about one third of the forest uses. Subsistence activities account for the other two thirds of forest uses and have no quantified market values. Small scale agriculture and other forest-based subsistence activities are regarded as important practices and knowledge for maintaining the Miskitos' cultural identity. Replacing these activities with financial incentives to halt deforestation is not economically feasible and has the potential to do irreparable harm to the Miskito culture. Recommendations for developing REDD projects that slow deforestation while allowing the practice and preservation of cultures include: shifting toward fund-based projects that promote subsistence and cultural uses of forests; allocating incentives for protecting forest carbon stocks to communities, not individuals; and providing support and capacity building to local institutions responsible for removing colonists, monitoring forests, and enforcing traditional land-use norms.

### The Doctoral-Level Award Winners



#### **For the Public Good: Weaving a Multifunctional Landscape in the Corn Belt**

**Noelle Harden**, Soil Science, University of Wisconsin-Madison

**Loka Ashwood**, Community and Environmental Sociology, University of Wisconsin - Madison

Critics of modern agriculture decry the dominance of monocultural landscapes. Multifunctionality is suggested as an alternative configuration that yields public goods beyond the production of food, such as wildlife habitat and clean water, which are rarely associated with landscapes of the Corn Belt. We propose landscape agroecology as a perspective that first recognizes that all agricultural landscapes foster a degree of multifunctionality, scattered in a form that we call *patchwork multifunctionality*, reflecting the fragmentation of private property boundaries. Second, the objective of landscape agroecology in action is to foster more public good production through the deliberate weaving of agronomic, ecological, and social intentions through *interwoven multifunctionality*, which may require cooperation across the fence-line. In this paper, we present evidence for patchwork and interwoven multifunctionality from two case studies in Illinois and Wisconsin where we engaged farmers, landowners, community members, and institutional representatives in collaborative efforts to enhance surface water quality through interwoven multifunctionality. We explore the opportunities and challenges for multifunctionality through our spectrum approach of patchwork and individual multifunctionality.



## Organized Sessions

### A2. Why Change in Natural Resource Management Is Hard

Date: Monday June 6  
Time: 8:00am - 9:15am  
Room: Inn Wisconsin East

Organizer: Toddi A Steelman

#### *Session Summary*

A variety of innovative approaches in natural resource management advanced the past two decades include collaborative management, adaptive management, stewardship contracting, multiparty monitoring, and community wildfire protection plans, among others. This panel addresses reasons why greater progress has not been made, in spite of the proliferation of innovative approaches and ideas. Presenters tackle different scales of change to illustrate how aligning structures of governance is important to think more comprehensively about change processes in management and governance.

#### *Presentations*

Is Collaborative, Adaptive Governance Happening? Initial Explorations from U.S. Federal Wildland Fire Governance  
*Cheng, Antony S (Forest & Rangeland Stewardship, Colorado State University), Toddi A Steelman, Cassandra Moseley*  
Implementing Innovative Practices (Or Not)  
*Steelman, Toddi A (Forestry and Natural Resources, NC State University)*  
Adopting New Policies in the Field: the Uneven Use of Stewardship Contracting  
*Moseley, Cassandra (Institute for a Sustainable Environment, University of Oregon)*

#### *Discussant*

Dennis Becker

### B4. Technology and the Facebook Generation: Challenges and Opportunities for Human Dimensions Research

Date: Monday June 6  
Time: 10:45am- 12:00pm  
Room: Inn Wisconsin West

Organizers: Greg G Brown, Pat Reed,

#### *Session Summary*

This is an interactive and participatory session without formal presentations where session attendees will describe the opportunities and challenges of integrating new technologies for human dimensions research. The goal of the session is identify best practices that are adaptive to rapid social and technological changes in society. We will use "clicker" technology to facilitate the discussion.

#### *Panelists*

Greg Brown (University of Queensland)  
Pat Reed (USDA Forest Service)

### B6. Keepers of the Water

Date: Monday June 6  
Time: 10:45am- 12:00pm  
Room: Old Madison East

Organizer: Al Gedicks

#### *Session Summary*

"Keepers of the Water" is a 38 minute documentary film about the unprecedented Indian-environmental and sport fishing alliance that successfully opposed the construction of a large metallic sulfide mine at the headwaters of the Wolf River in northeastern Wisconsin and one mile upstream from the sacred wild rice beds of the Mole Lake Sokaogon Chippewa Tribe. The director of the film will lead a discussion of the film and the background to the 28 year struggle over this controversial mine project.



## Organized Sessions (cont'd)

### B7. Nature Based Activities and Public Health

Date: Monday June 6  
Time: 10:45am- 12:00pm  
Room: Old Madison West

Organizer: Linda E Kruger

#### *Session Summary*

Nature based activities can lead to improvements in individual and community health and well-being and strategic alliances that enable not only sustaining existing community programs but that create a synergistic energy that can lead to expanded programs and efficiencies. Wellness is an issue, especially for elders and youth. Research has found that one approach to instilling life-long wellness is through intergenerational learning (CDC 2009). An example of this approach and others will be presented along with additional approaches and case studies of programs connecting nature-based activities and public health.

#### *Panelists*

Linda Kruger (PNW Research Station)  
Stanley Asah (University of Washington)  
Paul Gobster (Northern Research Station)  
Ingrid Schneider (U of Minnesota)

### C1. Public Participation GIS Research: Methods and Applications

Date: Monday June 6  
Time: 1:30pm - 2:45pm  
Room: Beefeaters

Organizer: Greg G Brown

#### *Session Summary*

Public participation GIS (PPGIS) combines participatory methods with GIS technology to identify local values, knowledge, and preferences. This session will feature presentations describing empirical results from recent PPGIS studies completed in North America, Australia, and New Zealand for conservation planning. Presenters will describe different PPGIS methods for data collection, analysis, and decision support.

#### *Presentations*

Using Public Participation Geographic Information Systems (PPGIS) to monitor tourism and residential development preferences

*Brown, Greg G (University of Queensland), Delene Weber*

Integration of Social Science Data into Collaborative Land Planning Efforts: Examples From Three National Forests in Colorado and Wyoming

*Clement, Jessica M (Colorado Forest Restoration Institute, Colorado State University), Antony S Cheng*

Using an Internet-Based Public Participation GIS (PPGIS) with an Internet Survey Panel to Identify National Park Visitor Experiences, Perceived Impacts, and Park Management Preferences

*Weber, Delene L (School of Natural and Built Environments, University of South Australia), Greg Brown, Dino Zanon, James Hackel, Kelly de Bie*

An Evaluation of Internet Versus Paper-Based Methods for Public Participation Geographic Information Systems (PPGIS)

*Pocewicz, Amy (The Nature Conservancy - Wyoming), Max Nielsen-Pincus, Greg Brown, Russ Schnitzer*

## Organized Sessions (cont'd)

### C2. Putting America to Work in the Nation's Forests: Lessons from the 2009 Recovery Act

Date: Monday June 6  
Time: 1:30pm - 2:45pm  
Room: Capitol View

Organizer: Pamela J Jakes

#### *Session Summary*

With the passage of the American Recovery and Reinvestment Act (ARRA) in February 2009, the USDA Forest Service was presented the opportunity to develop projects that contribute to the act's goals while addressing needs related to the agency's mission of sustaining and improving the health, diversity, and productivity of the nation's forests and grasslands. The papers in this session review the findings of eight case studies, focusing on the benefits and accomplishments for different types of Forest Service ARRA projects implemented in different economic, social and ecological contexts, and the lessons learned with regard to creating local community benefits when undertaking Forest Service work in the future.

#### *Presentations*

Putting America to Work in the Nation's Forests: Insights from the 2009 Recovery Act

*Charnley, Susan (USDA Forest Service, Pacific Northwest Research Station)*

Restoring Forests, Restoring Communities?: Diverse Approaches to Hazardous Fuel Reduction under the American Recovery and Reinvestment Act

*Davis, Emily Jane (University of Oregon), Pam Jakes, Cassandra Moseley*

Controlling Nonnative Invasive Plants: Building New Capacity Under the 2009 Recovery Act

*Morse, Wayne C (School of Forestry and Wildlife Sciences, Auburn University)*

Expanding Local Forest Product Industrial Capacity: Contributions by Forest Service Recovery Act Projects

*Sturtevant, Victoria (Environmental Studies and Sociology, Southern Oregon University), Jessi M Kershner*

### C3. Environmental Futures Research: Part 1

Date: Monday June 6  
Time: 1:30pm - 2:45pm  
Room: Inn Wisconsin East

Organizer: David N Bengston

#### *Session Summary*

The need for environmental foresight has increased in recent decades as the pace of change has accelerated and the frequency of surprise has increased. This session will explore the potential of futures research, a transdisciplinary field of inquiry that has been developing for more than 50 years, to address this important challenge. Speakers will include academic and professional futurists, as well as environmental researchers who have applied futures methods in their work.

#### *Presentations*

Futures Research: History and Overview of a Missing Dimension in Environmental Policy and Planning

*Bengston, David N (Northern Research Station, US Forest Service)*

Environmental Futures Research: Emerging Trends and Forces in Human Dimensions and Natural Resources

*Kubik, George H (Anticipatory Futures Group, LLC)*

Scenario Development and Strategic Planning

*Strong, Kay E (Department of Economics, Baldwin-Wallace College)*

Models of Change and Predictability in Forecasting

*Bishop, Peter C (Futures Studies, University of Houston)*

## Organized Sessions (cont'd)

### C6. Nature-Based Tourism as an Agent of Rural Development: Presentations

Date: Monday June 6  
Time: 1:30pm - 2:45pm  
Room: Old Madison East

Organizer: Jean-Gael E. Collomb

#### *Session Summary*

Across the globe, in developed and developing countries, rural communities are drawn to the potential of nature-based tourism to bridge economic development aspirations with environmental protection concerns. The development of tourism products that attract visitors year after year, while meeting tourists' expectations, safeguarding the environment, and enhancing the economic and social context for local residents, is fraught with challenges. In this session, we will use a series of domestic and international examples to illustrate and discuss some of these issues.

#### *Presentations*

Tourism and Host Residents' Wellbeing in Northeastern Namibia

*E. Collomb, Jean-Gael J (National Science Foundation), Janaki Alavalapati*

If They Build It, Will They Come? Estimating Demand Change in Kafue National Park, Zambia in Response to Potential Improvements

*Parent, Gregory D (Geography, University of Florida), Brijesh Thapa, Patricia Mupeta, Brian Child*

Components to Ensuring Success in Tourism Concessions and Agreements in Protected Areas

*Wyman, Miriam S (Utah State University), Jim R Barborak*

### C7. Journal Editors' Forum and Listening Session

Date: Monday June 6  
Time: 1:30pm - 2:45pm  
Room: Old Madison West

Organizer: Paul H Gobster

#### *Session Summary*

Editors from top journal publication outlets used by IASNR members convene a listening session that will be of interest to new and seasoned scholars alike. Learn about journal trends, issues of concern, and opportunities for involvement. The bulk of the session will be devoted to audience participation, so come with your questions for the editors about their journals and the broader world of scholarly publication in social sciences and resource management.

#### *Panelists*

Paul Gobster (Landscape and Urban Planning)

Tom Beckley (Society and Natural Resources)

Troy Hall (Society and Natural Resources)

Jerry Vaske (Human Dimensions of Wildlife)

Patricia Stokowski (Leisure Sciences)

Walter Kuentzel (Leisure Sciences)

#### *Discussant*

Melinda Merrick

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## Organized Sessions (cont'd)

### D3. Environmental Futures Research: Part 2

Date: Monday June 6  
Time: 3:00pm - 4:15pm  
Room: Inn Wisconsin East

Organizer: David N Bengston

#### *Session Summary*

The need for environmental foresight has increased in recent decades as the pace of change has accelerated and the frequency of surprise has increased. This session will explore the potential of futures research, a transdisciplinary field of inquiry that has been developing for more than 50 years, to address this important challenge. Speakers will include academic and professional futurists, as well as environmental researchers who have applied futures methods in their work.

#### *Presentations*

Scenarios and Decision-Making About Complex Environmental Systems  
*Carpenter, Stephen R (Center for Limnology, University of Wisconsin)*  
The Northern Forest Futures Program: An Effort to Evaluate a Region's Forested Landscape 50 Years From Now  
*Moser, Warren K (US Forest Service), Stephen R Shifley*  
Linking Global Scenarios to National Assessments: Experiences From the 2010 Resources Planning Act Assessment  
*Langner, Linda L (U.S. Forest Service)*  
Environmental Futures Research at the U.S. Environmental Protection Agency  
*Olson, Robert L (Institute for Alternative Futures)*

### D7. The Doing of Natural Resource Social Science: Part 1

Date: Monday June 6  
Time: 3:00pm - 4:15pm  
Room: On Wisconsin A - Red Gym

Organizers: Al Luloff, Rick Krannich

Chair: Donald R Field

#### *Session Summary*

This panel features two integrated sessions that focus on the emergence, development, and evolution of natural resource social science over the past several decades. Panelists will discuss ways in which applied social science work conducted within and on behalf of natural resource management agencies has affected resource management practice and policy, how work in this arena has contributed to the creation of nascent academic departments and programs focusing on human dimensions of natural resource issues, and how foundational work addressing the interface between social conditions and natural resource conditions has blazed a trail leading toward new directions in interdisciplinary and transdisciplinary research.

#### *Presentation*

Social Science and Public Land Management: An Incredible Journey  
*Field, Donald R (Forest and Wildlife Ecology, University of Wisconsin-Madison)*

#### *Panelists*

Don Field  
Rabel Burge  
Bill Burch  
Gary Machlis  
Matt Carroll  
Daryll Johnson

## Organized Sessions (cont'd)

### D9. Social and legal dimensions of conservation in a changing climate: results from a six-university distributed graduate seminar

Date: Monday June 6  
Time: 3:00pm - 4:15pm  
Room: On Wisconsin C - Red Gym

Organizers: Adena R Rissman, Jessica Owley, Dr. Menka Bihari

#### *Session Summary*

To examine the adaptability and vulnerability of private land conservation in a changing climate, we conducted research through distributed graduate seminars at six universities across the US in Spring, 2011. This panel will provide lessons learned on collaboration and coordination in training students to conduct online research, analysis of conservation easement documents, interviews with land trust and government agency staff, and GIS mapping. Our results indicate that conservation easements have limitations as a tool for adaptive management, and that organizations have varying capacities and inclinations to monitor, manage, and adapt to changing landscapes.

#### *Panelists*

Adena Rissman (U of Wisconsin)  
Jessica Owley (U of New York - Buffalo)  
Menka Bihari (U of Wisconsin)  
Christina Locke (U of Wisconsin)  
Jessica Price (U of Wisconsin)  
Robert Smail (U of Wisconsin)

### E3. Understanding Socio-Ecological Systems with Agent-Based Models: Examples from Wildland-Urban Interface Research in North America

Date: Monday June 6  
Time: 4:45pm - 6:00pm  
Room: Inn Wisconsin East

Organizer: Paige Fischer

#### *Session Summary*

This session will explore approaches to socio-ecological systems research using agent-based modeling. Papers will address theoretical and methodological aspects of agent-based models from the social science perspective using wildland-urban interface case studies from North America.

#### *Presentations*

Free Agents and Social Networkers: Modeling Individual Decision Making Within Social Contexts in Fire Prone Ecosystems  
*Fischer, Paige (USDA Forest Service)*

Representing Landowners in a Dynamic Agent-Based Model: A Tool for a Fuzzy World  
*Nielsen-Pincus, Max W (Institute for a Sustainable Environment, University of Oregon), Robert G Ribe*

Integrating Dynamic Social Systems into Assessments of Future Wildfire Risk: Lessons From an Empirical Agent-Based Modeling Approach  
*Prato, Tony (College of Agriculture, Food and Natural Resources, University of Missouri-Columbia), Travis B Pavaglio*

Improving SES with SES: Considering the Suitability of Engaging Stakeholders in Forest-Based Socio-Ecological Systems Modeling  
*Leahy, Jessica E (School of Forest Resources, University of Maine), Erika Gorczyca, Kathleen P Bell, Jeremy Wilson*

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## Organized Sessions (cont'd)

### E5. Assessing Local Perceptions, Politics, and Participation in Tropical Conservation: Big Lessons from Small Communities

Date: Monday June 6  
Time: 4:45pm - 6:00pm  
Room: Langdon

Organizers: Stephanie Jones, Jessica E Long,

#### *Session Summary*

The tropics are home to the world's most biodiverse ecosystems as well as its poorest citizens. In efforts to protect tropical ecosystems, conservationists must incorporate local citizens' rights and livelihood concerns if conservation is to be effective and fair. In this panel, we explore four distinct cases that illuminate both the opportunities and the challenges associated with integrating conservation goals and the needs of local people in tropical areas.

#### *Presentations*

Evaluating Social Capital for Fisheries Management in the Tana Delta  
*Jones, Stephanie M (University of Wisconsin-Madison)*  
Education as a Direct Reward for Conservation Around Arabuko-Sokoke Forest, Kenya  
*Gooch, Michelle M (Zoology, University of Wisconsin-Madison), Lisa Naughton-Treves*  
Uneven Local Forest Dependency and Adaptation to New Logging Restrictions in the Peruvian Amazon  
*Long, Jessica E (Nelson Institute, University of Wisconsin at Madison)*  
Participatory Zoning for Conservation and Development in Tambopata, Peru  
*Naughton, Lisa (Geography, University of Wisconsin, Madison), Nora Alvarez-Berrios*

#### *Discussant*

Sanda Pinel

### E7. The Doing of Natural Resource Social Science: Part 2

Date: Monday June 6  
Time: 4:45pm - 6:00pm  
Room: On Wisconsin A - Red Gym

Organizers: Al Luloff, Rick Krannich

#### *Session Summary*

Many attendees of the ISSRM meetings received degrees in the 60s and 70s and were products of singular departments – or as we affectionately refer to them today, academic silos. We were trained to apply our skills to the vexing and myriad social problems and issues affecting society writ large. Often this entailed coupling social, ecologic, and environmental concerns to better enable the discovery of workable solutions. Doing this meant we needed to leave the ivory tower and work hand in hand with land managers from a wide range of federal, state, and local agencies and private and public resource organizations.

To properly attend to such issues we needed a new and alternative pathway which accommodated these inquiries, a conduit where applied solutions to complex social/natural resource problems could be fostered. Coupling the social sciences with natural resources while collaborating with land managers meant a new forum for integrated inter-, multi-, and transdisciplinary resource management studies was needed. This two part panel outlines some of the events which led to the origin of the ISSRM, the Society and Natural Resources journal, and their parent organization IASNR. It also explores the intergenerational relationships and connections of natural resource social scientists which resulted from the emergence of these organizations.

#### *Panelists*

Maureen McDonough  
Becky Schewe, Richelle Winkler, and David Matarrita-Cascante  
Courtney Flint, Joan Brehm, Naomi Krogman, and Carla Trentelman  
AE Luloff, Rick Krannich and Gene Theodori



## Organized Sessions (cont'd)

### G4. The National Climate Assessment - Process, Products, and Opportunities for Engagement

Date: Tuesday June 7  
Time: 10:45am- 12:00pm  
Room: Inn Wisconsin West

Organizer: Emily T Cloyd

#### *Session Summary*

The next quadrennial report from the NCA, due in June 2013, will help evaluate progress on mitigation and adaptation activities in the United States and identify impacts, vulnerabilities, and opportunities arising as a result of climate change at local to national scales. NCA staff and assessment author teams will provide the participants with an overview of the NCA and lead a discussion on the ways in which the design, assembly, and products of the NCA can incorporate participants and findings from the fields of social science and resource management. This special session will both inform the audience about the process and science of the assessment and provide time for participants to ask questions about and discuss the NCA, including how to develop a sustained and ongoing assessment process, how to tailor this process according to the needs of various geographic regions and societal sectors, and how to assess the relevancy and breadth of science covered by the NCA report.

#### *Panelists*

Emily Cloyd (National Climate Assessment)  
Julie Maldonado (National Climate Assessment)  
Linda Langner (USDA Forest Service)

### G5. What is Place in “place” Research? Sorting Out the Differences Among the Discourses

Date: Tuesday June 7  
Time: 10:45am- 12:00pm  
Room: Old Madison East

Organizer: Daniel R Williams

#### *Session Summary*

This panel session is intended to describe different disciplinary or discursive perspectives on place to identify the various aims, theories and methods that underlie this broad topic. Each panelist will provide a brief overview of how his or her approach place research. A moderated roundtable discussion will follow.

#### *Panelists*

Dan Williams (USDA Forest Service)  
Patricia Stokowski (U of Vermont)  
Chris Raymond (U of South Australia)  
Patrick Devine-Wright, U of Exeter

## Organized Sessions (cont'd)

### H3. Innovations in Interdisciplinary Teaching in Society and Natural Resources

Date: Tuesday June 7  
Time: 1:15pm - 2:30pm  
Room: Inn Wisconsin East

Organizer: Courtney G Flint

#### *Session Summary*

As calls for interdisciplinarity increase in the realm of all things environmental, there is a growing call for integrating social and biophysical sciences and other dimensions into the learning experience for our students. These efforts involve co-taught classes and blending course material from different disciplines, both in the classroom and in field-based experiences with students. Interdisciplinary teaching is not without its challenges, including teaching social science with physical science students and vice versa. Panelists will discuss their experiences and observations and discussion will focus on best practices for successful interdisciplinary teaching and learning.

#### *Panelists*

Courtney Flint (U of Illinois at Urbana-Champaign)  
Erik Backlund (St Lawrence U)  
Toddi Steelman (North Carolina State U)  
Naomi Krogman (U of Alberta)  
Alan Barton (Delta State U)  
Reid Bishop (National Audubon Society)

### I3. Teaching Sustainability

Date: Tuesday June 7  
Time: 3:00pm - 4:15pm  
Room: Inn Wisconsin East

Organizer: Courtney G Flint

#### *Session Summary*

Universities and colleges are quickly ramping up efforts to infuse “sustainability” into curriculum. Faculty in environmental social science are well-poised to lead campus-wide efforts, teach key courses, and facilitate student-led sustainability efforts. Panelists will lead discussion based on their experiences in and out of the classroom and highlight opportunities and challenges. Discussion will also focus on how to address the risk of depressing students with exposure to environmental struggles.

#### *Panelists*

Tom Beckley (U of New Brunswick)  
Joan Brehm (Illinois State U)  
Brian Eisenhauer (Plymouth State U)  
Carla Trentelman (Weber State U)

## Organized Sessions (cont'd)

### 16. Transnational Capital, Natural Resources, and Rural Livelihoods in International Comparative Perspective

Date: Tuesday June 7  
Time: 3:00pm - 4:15pm  
Room: Old Madison East

Organizers: Michael L Dougherty, Al Gedicks,

#### *Session Summary*

Over the past two decades the expansion of global extractive industries into rural corners of the developing world has brought about large-scale resistance from host communities. Whereas most recent scholarship has sought to understand these dynamics from the point of view of civil society, this session examines the logic and behaviors of multinational firms and global finance to deepen our understanding of this phenomenon

#### *Presentations*

"Sketching the New Extraction: Firm Differentiation, Rent Seeking, and the Global Gold Mining Industry"

*Dougherty, Michael L (Community and Environmental Sociology, University of Wisconsin-Madison)*

Transnational Mining Investment vs. National Sovereignty: The Role of Free Trade Agreements

*Gedicks, Al (Sociology, University of Wisconsin)*

Preaching to Acquire: The Discourses and Practices of Farmland Finance and the Global "Farmland Grab"

*Fairbairn, Madeleine (Community and Environmental Sociology, University of Wisconsin - Madison)*

### 17. Building Bridges for Climate Readiness - Using a Place-Based Reserve System to Integrate Social and Ecological Sciences

Date: Tuesday June 7  
Time: 3:00pm - 4:15pm  
Room: Old Madison West

Organizers: Alison J Krepp, Dr. Patrick Robinson, Heather Elmer

#### *Session Summary*

Place-based protected area networks have traditionally served as platforms for the ecological sciences. The complexities and multiple dimensions of issues such climate change are challenging the traditional paradigm of these living laboratories to expand their capacities for social science and community partnerships. The National Estuarine Research Reserve System, a state-federal partnership of 28 sites is preparing to meet this challenge. This panel will discuss how the priorities and capacity of the state-federal partnership model can be leveraged to build not only the needed bridges between ecological and social science that support inter-disciplinary research but also successful application for community impact, particularly relating to climate readiness.

#### *Panelists*

Alison J Krepp (National Oceanic and Atmospheric Administration)

Patrick Robinson (U of Wisconsin)

Heather Elmer (Ohio Department of Natural Resources)

## Organized Sessions (cont'd)

### J3. North American Conservation Model Part 1: Perspectives and prospects on Sustainability of the NACM and hunting

Date: Wednesday June 8  
Time: 8:00am - 9:15am  
Room: Inn Wisconsin East

Organizer: Keith Warnke

Chair: Bret Shaw

#### *Session Summary*

The North American Conservation Model, funded primarily by hunter and angler user fees, is a resounding success story. However, fewer young people are being recruited into hunting and participation in the middle-age classes is declining. As a result, the sustainability of the North American Conservation Model is uncertain. This session will explore ways to both recruit new participants into hunting and adapt the North American Conservation Model to new markets. The panel will review successes and failures of various conservation models, and discuss modifications to the North American Conservation Model.

#### *Presentations*

Perspective: A Short History of the North American Conservation Model

*Stark, Randy (Wisconsin Department of Natural Resources, State of Wisconsin)*

Public Attitudes Towards Hunting

*Ryan, Elizabeth (Life Science Communications, University of Wisconsin - Madison), Bret Shaw*

Declining Participation in White-Tailed Deer Hunting: An Evaluation of Potential Conservation Impacts

*Warnke, Keith (Wisconsin Department of Natural Resources), Richelle Winkler*

Improving Hunter Recruitment and Retention

*Shaw, Bret (Life Science Communications, University of Wisconsin - Madison), Elizabeth L Ryan*

### J4. Disciplinary expertise or interdisciplinary integration: Seeking an optimal balance in teaching and scholarship related to the social dimensions of the environment and natural resources

Date: Wednesday June 8  
Time: 8:00am - 9:15am  
Room: Inn Wisconsin West

Organizers: Eric L Toman, Jeff Sharp, Jeremy Bruskotter

#### *Session Summary*

Ongoing restructuring of academic units with an environmental focus, growing interest in environmental problems in core social science disciplines, and the proliferation of even more specialized professional associations of scholars from diverse disciplines may lead to pedagogical and professional challenges regarding how to train and professionally socialize environmental social scientists. In this session we will discuss the nature of the changes, the opportunities and challenges of the current environment, and some programmatic and professional development strategies in response to the current structure of doing environmental and natural resource work in the social sciences.

#### *Panelists*

Mark Brunson (Utah State U)

Stephen Gasteyer (Michigan State U)

Eric Toman (Ohio State U)

## Organized Sessions (cont'd)

### J6. Bill Freudenburg Legacy Part 1: Risk and Recreancy

Date: Wednesday June 8  
Time: 8:00am - 9:15am  
Room: Play Circle Theater

Organizer: Tom Beckley

#### *Session Summary*

This session is primarily focused on risk and recreancy (institutional failure to fulfill societal responsibilities). Both governmental and corporate institutions often struggle gaining or maintaining trust among their constituent groups, stakeholders, or the general public. The papers in this session examine risk and recreancy, institutional trust and perceived competence in a variety of resource management contexts including oil extraction and shale gas development, as well as perceived differences in competence between the Army Corp of Engineers and the National Park Service in a regional context. We will save time at the end for a general discussion of Bill's contributions to sociology and environmental sociology.

#### *Presentations*

Trust During Rapid Community Change: Residents' Experiences in the Early Stages of Marcellus Shale Natural Gas Development  
*Brasier, Kathryn J (Agricultural Economics & Rural Sociology, Penn State University), Matthew R Filteau, Diane K McLaughlin, Jeffrey Jacquet, Richard C Stedman*

Recreancy Revisited: Responsibility, Will, and Competence in the Context of the Exxon Valdez and BP Oil Disasters  
*Ritchie, Liesel A (Natural Hazards Center, University of Colorado), Duane A Gill*

Recreancy and Resource Management: A Mixed-Methods Analysis of Trust and Civic Action  
*Smith, Jordan W (North Carolina State University), Jessica E Leahy, Dorothy H Anderson, Mae A Davenport*

### K3. North American Conservation Model Part 2: Adaptation and Re-branding Conservation and Hunting

Date: Wednesday June 8  
Time: 9:30am - 10:45am  
Room: Inn Wisconsin East

Organizer: Keith Warnke

#### *Session Summary*

The North American Conservation Model, funded primarily by hunter and angler user fees, is a resounding success story. However, the hunting culture that has supported and funded this model is shifting. Fewer young people are being recruited into hunting and participation in the middle-age classes is declining. As a result, the sustainability of the North American Conservation Model is uncertain. This session will explore ways to both recruit new participants into hunting and adapt the North American Conservation Model to new markets. The session will conclude with an international panel answering questions, reviewing successes and failures of various other models, and discussing modifications to the North American Conservation Model.

#### *Presentations*

Sustainable Hunting and the Hunter Conservationist  
*Malcolm, Karl (Forest and Wildlife Ecology, University of Wisconsin - Madison)*

Rebranding Hunting as Good Stewardship  
*Holsman, Robert (College of Natural Resources, University of Wisconsin - Stevens Point), Jordan Petchenik*

## Organized Sessions (cont'd)

### K4. Inside the natural resource bureaucracy: Institutional theories of the effect of bureaucratic organization on natural resource management Part 1

Date: Wednesday June 8  
Time: 9:30am - 10:45am  
Room: Inn Wisconsin West

Organizer: Gwen Arnold, Forrest Fleischman

#### *Session Summary*

This panel seeks to facilitate interaction among scholars studying natural resource bureaucracies in different contexts and to develop deeper theoretical grounding for this line of institution-focused inquiry. The papers seek to understand what makes natural resource bureaucracies behave as they do and make explicit how sometimes-hidden or subtle standard operating procedures, expectations, norms, and rules affect natural resource management outcomes, sometimes in unexpected and complex ways.

#### *Presentations*

The Paradox of Bureaucratic Discretion: Use of Wetland Value Estimates by Federal Regulators  
*Arnold, Gwen (Indiana University-Bloomington)*  
Evaluating the USFS State & Private Forestry Redesign Program: A First Look at Policy Implications  
*Cox, Michael (Indiana University), Burney Fischer, Sarah Mincey, Tatyana Ruseva, Sergio Villamayor Tomas*  
Understanding the Role of Public Involvement in Forest Management: A Comparative Analysis of Ecosystem Management and Joint Forest Management  
*Gupta, Divya (School of Environment and Natural Resources, The Ohio State University), Tomas M Koontz*  
When Does Institutional Robustness Inhibit Adaptation to New Conditions? Case Studies of Institutional Change and Resistance in Central Indian forest management.  
*Fleischman, Forrest D (Indiana University)*

### K6. Bill Freudenburg Legacy Part 2: Bureaucratic Slippage, Disproportionality & the Growth Machine

Date: Wednesday June 8  
Time: 9:30am - 10:45am  
Room: Play Circle Theater

Organizer: Tom Beckley

#### *Session Summary*

The second Freudenburg legacy session is a bit more sweeping in scope, which is appropriate given the breadth of academic subjects and concepts that Bill advanced in his career. Papers in this session all deal with the conservation/development nexus within particular institutional contexts. The papers use bureaucratic slippage, disproportionality and the Growth Machine to describe wetlands legislation, farmers' perceptions of conservation initiatives, and development in the Everglades respectively. We will save time at the end for a general discussion of Bill's contributions to sociology and environmental sociology.

#### *Presentations*

The Growth Machine and the Everglades: Expanding a Useful Thesis  
*Gramling, Bob (University of Louisiana at Lafayette), William R Freudenburg*  
Determinants of Farmer Attitudes Toward Targeted Conservation Approaches  
*Arbuckle Jr., J. G (Sociology, Iowa State University)*  
The Cost of Wetland Loss: Bureaucratic Slippage and Wetland Compensation in Alberta  
*Clare, Shari (Renewable Resources, University of Alberta), Naomi Krogman, Lee Foote*



## Organized Sessions (cont'd)

### L1. Using Social Science Research to Improve Landscape Sustainability in Florida

Date: Wednesday June 8  
Time: 11:15am - 12:30pm  
Room: Beefeaters

Organizer: Paul F Monaghan

#### *Session Summary*

Homeowners in Florida have found themselves in the middle of several controversies regarding the use of groundwater for irrigation and the effects of fertilizer runoff from their lawns. This session highlights several projects on the behaviors and attitudes of homeowners having negative environmental consequences as well as efforts by extension and water managers to overcome the barriers to change. These papers focus on different regions of Florida and on different issues faced by homeowners, from storm water pond management to landscaping practices with turf grass and the conversion to more sustainable environments by some households.

#### *Presentations*

Homeowner Landscaping Choices and the Environmental Sustainability of Stormwater Ponds  
*Monaghan, Paul F (Agricultural Education and Communication, University of Florida), Gail Hansen, Shangchun Hu, Michelle Atkinson*  
Uncovering the Barriers to Changing Homeowner Landscaping Practices That Lead to Environmental Degradation  
*Israel, Glenn D (Agricultural Education and Communication, University of Florida), Jessica L Kochert, Sally A Scalera, Paul F Monaghan*  
The Demand for More Sustainable Landscapes by Alachua County residents  
*Kochert, Jessica L (Agricultural Education and Communication, University of Florida), Wendy L Wilbur, Emily Ott, Paul Monaghan*

### L7. Catalysts for Water Resources Protection and Restoration

Date: Wednesday June 8  
Time: 11:15am - 12:30pm  
Room: Old Madison West

Organizer: Linda S Prokopy

#### *Session Summary*

Current land use decisions, identification of water resource problems, beliefs that the environment is at risk, perceptions of the need to act and willingness to engage in finding solutions are all factors that influence how water resources are managed. Key social, economic and ecological events and the mechanisms by which these conditions are translated into individual and collective actions and lead to changes in behaviors are not well understood. This session will discuss new and evolving research exploring the role of catalyst events in determining conservation behavior, resource management and governance in a water context.

#### *Presentations*

A Typology of Catalyst Events for Water Resource Management  
*Prokopy, Linda S (Forestry and Natural Resources, Purdue University), Kathy Brasier, Nathan Mullendore*  
The Influence of Local Governance on Watershed Management in Minnesota: Capacities, Constraints, and Catalysts of Change  
*Davenport, Mae A (Department of Forest Resources, University of Minnesota), Amit K Pradhananga, Amanda Sames*  
How Floods, Some Dams, and a Settlement Changed an Aquifer: Socio-Technology History and Catalysts of Water Management Paradigms  
*Gasteyer, Stephen P (Sociology, Michigan State University)*  
Agency as Catalyst: Wisconsin's Basin Partnerships  
*Genskow, Ken D (Urban and Regional Planning, University of Wisconsin-Madison)*

## Session Logistics

The following information will help to ensure sessions run smoothly. All concurrent sessions are 75 minutes long. Each presenter has 15 minutes to present with 3 minutes for questions. Sessions with only 3 papers may have longer for discussion at the end of all paper presentations.

Please keep the order of presenters as listed in the program. If you are coming and going during sessions, please be as quiet as possible so as not to disrupt presentations.

### Instructions for Presenters

- After you check in at registration, check the program to confirm the time and place of your session.
- Upload your presentation online by June 3, 11:59pm. If you are unable to do so, please bring your presentation to the session room 15 minutes before your session starts, and we will put it on to the computer.
- Arrive at your session location 10 minutes early.
- When presenting, be sure to keep an eye on your session chair and finish within the allotted time to insure each presenter has enough time.

### Instructions for Session Chairs

- Arrive at your session at least 10 minutes before the start time.
- Make sure you have a watch or something that can help you keep track of time.
- Check the errata sheet to confirm all session participants are present and adjust order as needed.
- Make sure each presenter's slides are in place on the room computer.
- Confirm with all presenters how much time they have for their presentation and for questions.
- Find the time cards and explain to presenters how you will notify them of time left (i.e. 5, 2, 1, STOP).
- Introduce each speaker by name.
- Keep time during presentations, notifying them of time left and politely standing and asking the presenter to finish if they are still going at the end of time allotted.

A volunteer will check in with each session before it starts to make sure everything is okay.

## • International Symposium on Society and Resource Management •

Please note: Unless stated otherwise, all rooms are located in the Memorial Union Building.

### Daily Overview: Saturday

6:00am - 2:00pm	Madison Farmers' Market	Capitol Square
11:30am - 12:30pm	Student Forum Registration	Lobby - Social Sciences
12:30pm - 5:00pm	Student Forum	Sewell Room - Social Sciences
5:00pm - 7:00pm	Registration	Annex

### Daily Overview: Sunday

8:00am - 4:30pm	Field Trips	
11:00am - 2:00pm	IASNR Council Meeting	Langdon
Noon - 8:00pm	Registration	Annex
5:30pm - 6:00pm	New Member Meeting	Tripp Commons
6:00pm	Silent Auction Opens	Tripp Commons
6:00pm - 8:00pm	Welcome Reception	Tripp Commons



# • International Symposium on Society and Resource Management •

## Daily Overview: Monday

7:00am - 10:00am	Exhibit set up	Main Lounge
7:00am - 5:00pm	Symposium Registration	Annex
8:00am - 9:15am	Concurrent Sessions	
A1. Agricultural Land Use Change		Capitol View
A2. Why Change in Natural Resource Management Is Hard		Inn Wisconsin East
A3. Place Attachment and Place Image		Inn Wisconsin West
A4. Wildfire and Management		Langdon
A5. Development and Demographic Change in Rural Landscapes		Old Madison East
A6. Understanding Private and Family Landowners		Old Madison West
A7. Values and Emotions in Wildlife Management		Roundtable
A8. Ethics and Motivations Shaping Future Land Use Decisions		Beefeaters
9:30am - 10:15am	Z1. Plenary Address: Terra Brockman	Union Theater
	Eating for Good: Pleasing Yourself While Saving the Planet	
10:00am - 5:00pm	Exhibitors	Main Lounge
10:15am - 10:45am	Coffee Break	Union Theater Lobby
10:45am - Noon	Concurrent Sessions	
B1. Consumption Issues in Fish and Wildlife Management		Beefeaters
B2. Citizen Engagement in Natural Resource Management		Capitol View
B3. Applications for Sense of Place		Inn Wisconsin East
B4. Technology and the Facebook Generation: Challenges and Opportunities for Human Dimensions Research		Inn Wisconsin West
B5. Wildfire Vulnerability and Adaptive Capacity		Langdon
B6. Keepers of the Water		Old Madison East
B7. Nature Based Activities and Public Health		Old Madison West
B8. Private Markets, Land Management and Policy		Roundtable
Noon - 1:15pm	All Members Business Lunch	Great Hall
1:30pm - 2:45pm	Concurrent Sessions	
C1. Public Participation GIS Research: Methods and Applications		Beefeaters
C2. Putting America to Work in the Nation's Forests: Lessons from the 2009 Recovery Act		Capitol View
C3. Environmental Futures Research: Part 1		Inn Wisconsin East
C4. Energy Resources One		Inn Wisconsin West
C5. Carnivore Conservation and Management		Langdon
C6. Nature-Based Tourism as an Agent of Rural Development: Presentations		Old Madison East
C7. Journal Editors' Forum and Listening Session		Old Madison West
C8. Values and Perceptions of Water Management		On Wisconsin A - Red Gym
C9. Climate Adaptation One: Local Impacts and Responses		On Wisconsin B - Red Gym
C10. Landscape Governance		On Wisconsin C - Red Gym

## Daily Overview: Monday (cont'd)

**3:00pm - 4:15pm**

### Concurrent Sessions

- D1. Protected Areas: Visitation, Conservation and Migration
- D2. Tourism: Poverty Alleviation and Legacy
- D3. Environmental Futures Research: Part 2
- D4. Energy Resources Two
- D5. Private Landowner Views and Practices
- D6. Analyzing Water Policy Outcomes
- D7. The Doing of Natural Resource Social Science: Part 1
- D8. Climate Adaptation Two: Values and Frameworks
- D9. Social and legal dimensions of conservation in a changing climate: results from a six-university distributed graduate seminar
- D10. Place Attachment and Natural Resource Management

Beefeaters  
Capitol View  
Inn Wisconsin East  
Inn Wisconsin West  
Langdon  
Old Madison West  
On Wisconsin A - Red Gym  
On Wisconsin B - Red Gym  
On Wisconsin C - Red Gym  
  
Roundtable

**4:15pm – 4:45pm**

### Coffee Break

### Main Lounge

**4:45pm– 6:00pm**

### Concurrent Sessions

- E1. Environmental Education, Trends and Methods
- E2. Sustainability
- E3. Understanding Socio-Ecological Systems with Agent-Based Models: Examples from Wildland-Urban Interface Research in North America
- E4. Management Strategies for Parks and Protected Areas
- E5. Assessing Local Perceptions, Politics, and Participation in Tropical Conservation: Big Lessons from Small Communities
- E6. Characterizing Hunters and Anglers
- E7. The Doing of Natural Resource Social Science: Part 2
- E8. Outdoor Recreation Issues
- E9. Second Home or Cabin Owners and Communities
- E10. Perceptions of Risk

Beefeaters  
Capitol View  
Inn Wisconsin East  
  
Inn Wisconsin West  
Langdon  
  
Old Madison West  
On Wisconsin A - Red Gym  
On Wisconsin B - Red Gym  
On Wisconsin C - Red Gym  
Roundtable

**6:00pm - 8:00pm**

**X1. Poster Session, Reception and Silent Auction**

**Tripp Commons**

**7:00pm**

**Silent Auction Ends**



# • International Symposium on Society and Resource Management •

**Monday**  
**8:00am - 9:15am**

## Concurrent Session Detail

<b>A1. Agricultural Land Use Change</b>  <b>Room: Capitol View</b>  <b>Chair: Zola K Moon</b>	Dichotomous Stochastic Markovian Variations for Varying Forest Acreages within James River Basin in North Dakota  <i>Madurapperuma, Buddhika D (North Dakota State University), Peter G Oduor, Larry Kotchman</i>	Driving Forces to Changed Agricultural Land Use: A Call for a Landscape Perspective  <i>Slätmo, Elin (University of Gothenburg)</i>	Public Lands Boundaries, Landscapes, and People – An Overview of Different Modalities of Land Cover Change  <i>Moon, Zola K (University of Arkansas), Frank L Farmer</i>	
<b>A2. Why Change in Natural Resource Management Is Hard</b>  <b>Room: Inn Wisconsin East</b>  <b>Discussant: Dennis Becker</b> <b>Organizer: Toddi A Steelman</b>	Is Collaborative, Adaptive Governance Happening? Initial Explorations from U.S. Federal Wildland Fire Governance  <i>Cheng, Antony S (Colorado State University), Toddi A Steelman, Cassandra Moseley</i>	Implementing Innovative Practices (Or Not)  <i>Steelman, Toddi A (North Carolina State University)</i>	Adopting New Policies in the Field: the Uneven Use of Stewardship Contracting  <i>Moseley, Cassandra (University of Oregon)</i>	
<b>A3. Place Attachment and Place Image</b>  <b>Room: Inn Wisconsin West</b>  <b>Chair: Ru-Lin Chen</b>	Public Perceptions of Fuel Load Management Techniques Within the Southern Californian Wildland-Urban Interface  <i>Kyle, Gerard T (Texas A&amp;M University), Adam C Landon, James D Absher</i>	Understanding 'NIMBYism': Relating Varieties of Place Attachment to Acceptance of Controversial Energy Technologies  <i>Devine-Wright, Patrick (University of Exeter)</i>	Exploring Tourists' Authenticity Perception to Cultural Landscape  <i>Kung, Yen-Chun (National Taipei University of Education), Li Shen, Chia-Kuen Cheng</i>	Image of Place: Real Environment Versus Popular Culture  <i>Chen, Ru-Lin (National Taipei University of Education), Li Shen, Chia-Kuen Cheng</i>
<b>A4. Wildfire and Management</b>  <b>Room: Langdon</b>  <b>Chair: Taylor V Stein</b>	Examining the Decision-Making Environment of Fire Managers in the Great Lakes Region  <i>Sherry, Jennifer A (The Ohio State University), Eric Toman, James Bennett, Robyn Wilson, Divya Gupta, Myer, Gwyn</i>	Influences on Community-Agency Trust-Building After Large Fires: Lessons Learned in the United States and Australia  <i>Olsen, Christine S (Oregon State University), Emily Sharp</i>	The Relationship Between Agency Trust and Proximity to National Forest: Reflections on Wildland Fire Management in the Sequoia National Forest  <i>Wang, Grace A (Western Washington University), Patricia L Winter, George T Cvetkovich</i>	Understanding Place Meanings for the Wildland-Urban Interface (WUI) and Non-WUI Landscape Planning  <i>Stein, Taylor V (University of Florida), Namyun Kil</i>
<b>A5. Development and Demographic Change in Rural Landscapes</b>  <b>Room: Old Madison East</b>  <b>Chair: Rachel Bouvier</b>	Land Cover and Housing Development in Northern New England, 1940-2000  <i>Mockrin, Miranda (Rocky Mountain Research Station, USDA Forest Service), Susan I Stewart, Volker C Radeloff, Roger B Hammer</i>	Rural Landscapes in Transition: The Drivers and Implications and Rural Property Turnover: Examples From South-east Australia  <i>Mendham, Emily K (Charles Sturt University), Allan L Curtis</i>	Wildland Urban Interface Growth in the United States, 1990-2000  <i>Stewart, Susan I (Northern Research Station, Forest Service Research), Volker C Radeloff, Roger B Hammer, Dave Helmers, Miranda H Mockrin</i>	The Distributional Impacts of Changing Resource Use: The Case of Maine, 1980-2010  <i>Bouvier, Rachel (University of Southern Maine)</i>



# • International Symposium on Society and Resource Management •

Monday

8:00am - 9:15am

## Concurrent Session Detail (cont'd)

### A6. Understanding Private and Family Landowners

Room: Old Madison West

Chair: Alexander L Metcalf

Using a Reasoned Action Approach to Understand New York Private Landowner Decisions to Parcelize their Forestland

Roe, Andrew W (Cornell University), Shorna B Allred

The Influence of Hunter and Landowner Relationships on Hunting Access in Ohio

Pettis, Adam L (Ohio State University)

A National Assessment of Public Recreational Access on Family Forest Lands in the United States

Snyder, Stephanie A (Northern Research Station, USDA Forest Service), Brett J Butler

Sampling and Estimation of Private Forest Landowner Populations

Metcalf, Alexander L (Penn State), James C Finley, A. E Luloff, Richard C Stedman, Durland L Shumway

### A7. Values and Emotions in Wildlife Management

Room: Roundtable

Chair: Goran C Ericsson

Differential Influences of Value Orientation and Attitude on Acceptability of Destroying Mountain Lions

Vaske, Jerry J (Colorado State University), Michael J Manfredo, Harry C Zinn

Wildlife as a Priority in City Park Development

Hicks, Jonathan R (University of Illinois at Urbana-Champaign), William P Stewart

Emotions in Salient Thought About Wildlife

Jacobs, Maarten H (Wageningen University), Jerry J Vaske, Vermeij Marit

Fear: The Price of Wildlife Restoration in Sweden?

Ericsson, Goran C (Swedish University of Agricultural Sciences), Shawn J Riley, Camilla Sandstrom, Thomas A Heberlein

### A8. Ethics and Motivations Shaping Future Land Use Decisions

Room: Beefeaters

Chair: Joshua B Gruver

"Why Do You Practice Good Management?": Ethical Motivations for Land Stewardship in Sweden, New Brunswick and Maine

Beckley, Thomas M (University of New Brunswick), Michael R Quartuch

Exploring Organization Objective Diversity Within Conservation Incentive Programs

Lupek, Megan S (Auburn University), Wayde C Morse

Who or What do Small-Scale Forest Landowners Consider When Making Forest Management Decisions? Case Evidence from Maine and New Brunswick

Quartuch, Michael R (University of New Brunswick), Thomas M Beckley

Understanding Private Forest Landowners' Experiences as They Plan for Their Forests' Future

Gruver, Joshua B (Ball State University), James C Finley, A E Luloff, Allyson B Muth, William F Elmendorf, Stedman, Richard C



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**Monday  
10:45am - Noon**

## Concurrent Session Detail (cont'd)

### **B1. Consumption Issues in Fish and Wildlife Management**

**Room: Beefeaters**

**Chair: Per E Ljung**

Consumptive Orientation and  
Coping Behavior Among Texas  
Anglers

*Landon, Adam (Texas A&M  
University), Gerard Kyle, Yung  
Ping Tseng, Robert Ditton, Robin  
Riechers, Leitz, Jeremy, Ken  
Kurzawski, John Taylor*

Consumptive Use and  
Conservation of Marine Turtles in  
Pearl Lagoon, Nicaragua:  
Implications of Historic Taste  
Preferences, Cultural Norms, and  
Local Conservation Attitudes

*Garland, Kathryn A (University of  
Florida)*

Availability of Game Meat - The  
Key to Public Acceptance of  
Hunting?

*Ljung, Per E (Swedish University  
of Agriculture Sciences), Göran  
Ericsson, Shawn J Riley*

### **B2. Citizen Engagement in Natural Resource Management**

**Room: Capitol View**

**Chair: Len M Hunt**

Aiding Rural Municipalities with  
Natural Resource Stewardship:  
Best Practices, Future Promise in  
Capitalizing on Citizen  
Organizations

*Kelly, Sean D (University of  
Guelph)*

Can Sharing Scientific Research  
Results Empower Citizens to  
Action?

*Monroe, Martha C (University of  
Florida), Annie Oxarart, Richard  
Plate*

Can NIMBYism Strengthen the  
Public Participation Process?

*Anderson, Carmel A (Australian  
National University), Jacki  
Schirmer, Norman C Abjorensen*

Using Public Advisory Groups to  
Assist with Decision Making in  
Resource Management: Lifeboat  
or Sinking Ship

*Hunt, Len M (Centre for Northern  
Forest Ecosystem Research,  
Ontario Ministry of Natural  
Resources)*

### **B3. Applications for Sense of Place**

**Room: Inn Wisconsin  
East**

**Chair: Nicole M Ardoin**

Exploring the Forming of Place  
Bonding to a New Place Never  
Visited

*Kuo, Huei-Yu (National Taiwan  
University), Jia-Kun Jheng*

Sense of Place, Sense of  
Responsibility-Psychological  
Factors Contributing to  
Conservation Practice Adoption  
in Agricultural Landscapes

*Mullendore, Nathan D (Purdue  
University), Linda S Prokopy*

Identifying and Mapping Sense of  
Place in Franklin and Gulf  
Counties, Florida

*Lowery, Damon R (Auburn  
University), Wayde C Morse*

Sense of Place: Questions of  
Mobility, Power, and Scale in  
Environmental Education

*Ardoin, Nicole M (Stanford  
University), Richard C Stedman*

### **B4. Technology and the Facebook Generation: Challenges and Opportunities for Human Dimensions Research (Panel)**

**Room: Inn Wisconsin  
West**

**Organizers: Greg G  
Brown, Pat Reed,**

**Greg Brown (University of Queensland)  
Pat Reed (USDA Forest Service)**

### **B5. Wildfire Vulnerability and Adaptive Capacity**

**Room: Langdon**

**Chair: Sarah M  
McCaffrey**

Exploring the Social  
Characteristics of Adaptive  
Capacity to Wildfire: Insights  
from Flathead County, Montana

*Paveglio, Travis B (University of  
Montana), Matthew S Carroll,  
Tony Prato*

Adoption of Defensible Space  
Practices in the Wildland-Urban  
Interface

*Lyon, Katie M (Colorado State  
University), Jerry J Vaske, James D  
Absher*

Social Vulnerability to Wildfire  
Risk in the U.S. South

*Johnson Gaither, Cassandra  
(Southern Research Station,  
USDA Forest Service), Neelam  
Poudyal, Scott Goodrick*

Understanding Homeowner  
Preparation and Intended Actions  
When Threatened by a Wildfire

*McCaffrey, Sarah M (Northern  
Research Station, USDA Forest  
Service), Greg Winter*

**Concurrent Session Detail (cont'd)**

**Monday  
10:45am - Noon**

*B6. "Keepers of the Water"*

*Room: Old Madison East*

Film

*Organizer: Al Gedicks*

*B7. Nature Based Activities and Public Health (Panel)*

*Room: Old Madison West*

*Organizer: Linda E Kruger*

Linda Kruger (USDA Forest Service)  
Stanley Asah (University of Washington)  
Paul Gobster (Northern Research Station)  
Ingrid Schneider (University of Minnesota)

*B8. Private Markets, Land Management and Policy*

*Room: Roundtable*

*Chair: James D Absher*

Natural Capital on Private Land as a Commons: Impacts of U.S. Constitutional Law on Resource Sustainability

*Hudson, Ryan B (Stetson University College of Law)*

Timber Harvesting Intentions of Pennsylvania's Private Forest Landowners: A Market Segmentation Approach

*Longmire, Cynthia L (The Pennsylvania State University), A E Luloff, James C Finley*

The "Need" for Commercial Outfitters and Guides: Social, Legal and Definitional Challenges to Wilderness or River Management

*Absher, James D (Pacific Southwest Research Station, USDA Forest Service), Robert C Burns, David Smaldone*



Photo courtesy of Gene F Summers

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## Concurrent Session Detail (cont'd)


**Monday**  
**1:30pm - 2:45pm**

<b>C1. Public Participation GIS Research: Methods and Applications</b>  <b>Room: Beefeaters</b>  <b>Organizer: Greg G Brown</b>	Using Public Participation Geographic Information Systems (PPGIS) to monitor tourism and residential development preferences  <i>Brown, Greg G (University of Queensland), Delene Weber</i>	Integration of Social Science Data into Collaborative Land Planning Efforts: Examples From Three National Forests in Colorado and Wyoming  <i>Clement, Jessica M (Colorado State University), Antony S Cheng</i>	Using an Internet-Based Public Participation GIS (PPGIS) with an Internet Survey Panel to Identify National Park Visitor Experiences, Perceived Impacts, and Park Management Preferences  <i>Weber, Delene L (University of South Australia), Greg Brown, Dino Zanon, James Hackel, Kelly de Bie</i>	An Evaluation of Internet Versus Paper-Based Methods for Public Participation Geographic Information Systems (PPGIS)  <i>Pocewicz, Amy (The Nature Conservancy - Wyoming), Max Nielsen-Pincus, Greg Brown, Russ Schnitzer</i>
<b>C2. Putting America to Work in the Nation's Forests: Lessons from the 2009 Recovery Act</b>  <b>Room: Capitol View</b>  <b>Organizer: Pamela J Jakes</b>	Putting America to Work in the Nation's Forests: Insights from the 2009 Recovery Act  <i>Charnley, Susan (USDA Forest Service, Pacific Northwest Research Station)</i>	Restoring Forests, Restoring Communities?: Diverse Approaches to Hazardous Fuel Reduction under the American Recovery and Reinvestment Act  <i>Davis, Emily Jane (University of Oregon), Pam Jakes, Cassandra Moseley</i>	Controlling Nonnative Invasive Plants: Building New Capacity Under the 2009 Recover Act  <i>Morse, Wayde C (Auburn University)</i>	Expanding Local Forest Product Industrial Capacity: Contributions by Forest Service Recovery Act Projects  <i>Sturtevant, Victoria (Southern Oregon University), Jessi M Kershner</i>
<b>C3. Environmental Futures Research: Pt 1</b>  <b>Room: Inn Wisconsin East</b>  <b>Organizers: David N Bengston</b>	Futures Research: History and Overview of a Missing Dimension in Environmental Policy and Planning  <i>Bengston, David N (Northern Research Station, US Forest Service)</i>	Environmental Futures Research: Emerging Trends and Forces in Human Dimensions and Natural Resources  <i>Kubik, George H (Anticipatory Futures Group, LLC)</i>	Scenario Development and Strategic Planning  <i>Strong, Kay E (Baldwin-Wallace College)</i>	Models of Change and Predictability in Forecasting  <i>Bishop, Peter C (University of Houston)</i>
<b>C4. Energy Resources One</b>  <b>Room: Inn Wisconsin West</b>  <b>Chair: Cheryl L Hudec</b>	BC Hydro's Long-Term Consumer Demand Response Rate Design Model: On-Peak Electricity Usage Reduction Using Rate Structures  <i>Mau, Paulus (BC Hydro), Bob Steele, Rob Gorter</i>	Produced Water Management and Disposal: Toward Beneficial Reuse Practices  <i>Theodori, Gene L (Sam Houston State University), David B Burnett, Cheryl L Hudec, B R Brocato, William E Fox</i>	Examining the Effects of Unconventional Natural Gas Development on Community Attachment, Satisfaction, and Action: Data from the Barnett Shale  <i>Hudec, Cheryl L (Sam Houston State University), Gene L Theodori</i>	
<b>C5. Carnivore Conservation and Management</b>  <b>Room: Langdon</b>  <b>Chair: Ketil Skogen</b>	Cross-Boundary Carnivore Conservation: Are Public-Private Ownership Boundaries Meaningful for Human-Wolf Conflict?  <i>Anhalt, Christine M (University of Wisconsin-Madison), Adena R Rissman, Tim R Van Deelen</i>	Increasing Acceptance for Large Carnivores: Will the Introduction of a Hunting Season for Wolves (Canis lupus) Increase the Acceptance of the Species in Sweden?  <i>Eklund, Ann (Swedish University of Agricultural Sciences)</i>	The Predators of Junnar: Local Peoples' Knowledge, Beliefs and Attitudes towards Leopards and Leopard Conservation  <i>Jhamvar Shingote, Ramaa (Texas A &amp; M University)</i>	Conflicts Over Large Carnivores in India and Norway: How do People's Understanding of the Landscape Affect Attitudes?  <i>Skogen, Ketil (Norwegian Institute for Nature Research), Sunetro Ghosal, Siddhartha Krishnan</i>

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Monday  
1:30pm - 2:45pm

## Concurrent Session Detail (cont'd)

<b>C6. Nature-Based Tourism as an Agent of Rural Development: Presentations</b>	Tourism and Host Residents' Wellbeing in Northeastern Namibia	If They Build It, Will They Come? Estimating Demand Change in Kafue National Park, Zambia in Response to Potential Improvements	Components to Ensuring Success in Tourism Concessions and Agreements in Protected Areas	
<b>Room: Old Madison East</b>	<i>E. Collomb, Jean-Gael J (National Science Foundation), Janaki Alavalapati</i>	<i>Parent, Gregory D (University of Florida), Brijesh Thapa, Patricia Mupeta, Brian Child</i>	<i>Wyman, Miriam S (Utah State University), Jim R Barborak</i>	
<i>Organizer: Jean-Gael E. Collomb</i>				
<b>C7. Journal Editors' Forum and Listening Session</b>				
<b>Room: Old Madison West</b>	Paul Gobster ( <i>Landscape and Urban Planning</i> ) Tom Beckley & Troy Hall ( <i>Society and Natural Resources</i> ) Patricia Stokowski & Walter Kuentzel ( <i>Leisure Sciences</i> ) Jerry Vaske ( <i>Human Dimensions of Wildlife</i> )			
<i>Discussant: Melinda Merrick</i>				
<i>Organizer: Paul H Gobster</i>				
<b>C8. Values and Perceptions of Water Management</b>	Measuring Stakeholder Perceptions Over the Course of a Participatory Modeling Workshop for Watershed Management in Sonora, Mexico	Water Quality Best Management Practices: The Complexities of Predicting Suburban Residential Use	Value Orientations and Normative Evaluations of Individuals Visiting Coral Reef Areas in Hawai'i	
<b>Room: On Wisconsin A - Red Gym</b>				
<i>Chair: Robyn L Ceurvorst</i>	<i>Brenna, Ellen (Michigan Technological University), Agustin Robles Morua, Kathleen E Halvorsen, Alex Mayer</i>	<i>Brehm, Joan M (Illinois State University), Danielle Pasko, Brian W Eisenhauer</i>	<i>Ceurvorst, Robyn L (Utah State University), Mark D Needham</i>	
<b>C9. Climate Adaptation One: Local Impacts and Responses</b>	Social Conflict and Glacial Retreat in the Andes: Evidence Based Case Studies from Bolivia and Peru.	Moving REDD Beyond Opportunity Costs: Social and Cultural Values Associated with Indigenous Forest Uses	Unsettled Settlements of Climate Change Adaptation: Negotiating Agendas for Addressing Social Vulnerability and Environmental Risk	The Assisted Colonization Controversy: The Values Underlying the Disputes
<b>Room: On Wisconsin B - Red Gym</b>				
<i>Chair: Mark W Neff</i>	<i>Ashwill, Maximillian S (Sustainable Development Department, World Bank), Cornelia Flora, Jan Flora, Edith Fernandez-Baca, Silvia Aguilar, Liendo, Roxana</i>	<i>Plumb, Spencer T (Northern Arizona University), Erik A Nielsen</i>	<i>Rickson, Kara E (Griffith University)</i>	<i>Neff, Mark W (University of Waterloo), Brendon MH Larson</i>
				
<b>C10. Landscape Governance</b>	The Governance of Landscapes and Livelihoods. What Can Citizens Do?	Creating Collaboration: Understanding the Organizational Development of the Walla Walla Watershed Management Partnership	The Arid Lands Initiative – An Effort to Conserve the Complex Matrix of Eastern Washington's Arid Lands	A Framework for Assessing Development of Collaboration in Regional Sustainable Natural Resource Management
<b>Room: On Wisconsin C - Red Gym</b>				
<i>Chair: Dee L Patriquin</i>	<i>Padt, Frans (The Pennsylvania State University)</i>	<i>Thoms, Christopher A (St. Cloud State University)</i>	<i>Hall, Sonia A (The Nature Conservancy), Kara S Nelson</i>	<i>Patriquin, Dee L (University of Alberta), Elizabeth Halpenny</i>





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## Concurrent Session Detail (cont'd)

**Monday**  
**3:00pm - 4:15pm**

<b>D1. Protected Areas: Visitation, Conservation and Migration</b>	On the Border in the Everglades and Dry Tortugas: Identifying Perspectives on Response to Migrant Landings in South Florida's National Parks	The Boundary Waters Canoe Area Wilderness: Changes in Use, Users and Management Challenges	Cross-cultural Comparisons of Crowding Norms in National Parks	Protecting the Resource: The Relationship Between Stakeholders' Values, Attitudes, and Intentions Regarding the Great Barrier Reef
<b>Room: Beefeaters</b>				
<b>Chair: Christopher J Wynveen</b>	<b>Bentley, Amanda L (Texas A&amp;M University)</b>	<b>Dvorak, Robert G (Central Michigan University), Alan E Watson, Neal Christensen, William T Borrie</b>	<b>Sayan, Selcuk - (Akdeniz University), Daniel H Krymkowski, Robert E Manning, William Valliere</b>	<b>Wynveen, Christopher J (Baylor University), Gerard T Kyle, Stephen G Sutton</b>
<b>D2. Tourism: Poverty Alleviation and Legacy</b>	A Low Wage Industry? An Investigation into the Wage Distribution of the Tourism Industry	Women and Weaving for Tourism: Generation of Income and Social Capital Around Kibale National Park, Uganda	Can't Negative Legacy be Positive Tourism Resources in Japan? The Case of the Ashio Copper Mine	Tourism Management at Machu Picchu: Can Peru Protect its Famous "Lost City"?
<b>Room: Capitol View</b>				
<b>Chair: Lincoln R Larson</b>	<b>Lacher, Richard G (Clemson University), Chi-Ok Oh, William C Norman</b>	<b>Panikowski, Amy E (University of Florida), Abraham Goldman, Brijesh Thapa</b>	<b>Oyadomari, Motoko (Edogawa University), Taiichi Ito</b>	<b>Larson, Lincoln R (University of Georgia)</b>
<b>D3. Environmental Futures Research: Part 2</b>	Scenarios and Decision-Making About Complex Environmental Systems	The Northern Forest Futures Program: An Effort to Evaluate a Region's Forested Landscape 50 Years From Now	Linking Global Scenarios to National Assessments: Experiences From the 2010 Resources Planning Act Assessment	Environmental Futures Research at the U.S. Environmental Protection Agency
<b>Room: Inn Wisconsin East</b>				
<b>Organizer: David N Bengston</b>	<b>Carpenter, Stephen R (University of Wisconsin)</b>	<b>Moser, Warren K (Northern Research Station, US Forest Service), Stephen R Shifley</b>	<b>Langner, Linda L (U.S. Forest Service)</b>	<b>Olson, Robert L (Institute for Alternative Futures)</b>
<b>D4. Energy Resources Two</b>	Household Energy Consumption Across the Rural-Urban Continuum: Questions and Challenges for Rural America	Factors Influencing Resident Perceptions of Risk from Marcellus Shale Natural Gas Development	Canadian Perspectives of Carbon Capture and Storage: Results of a National Survey Comparing Energy Systems	
<b>Room: Inn Wisconsin West</b>				
<b>Chair: Amanda D Boyd</b>	<b>Sharp, Jeff S (The Ohio State University), Lazarus Adua</b>	<b>Jacquet, Jeffrey (Cornell University), Richard C Stedman</b>	<b>Boyd, Amanda D (University of Calgary), Edna F Einsiedel</b>	
<b>D5. Private Landowner Views and Practices</b>	A Blueprint for Success: Ten Themes of Shoreland Rehabilitation in Wisconsin	Neighboring Differences Over Invasive Species and Each Other: Implication for Land Management Across Social "Fences"	An Application of Agent-Based Modeling: Harvest Decisions of Family Forest Landowners in Maine	
<b>Room: Langdon</b>				
<b>Chair: Jessica E. Leahy</b>	<b>Goggin, Patrick O (UW-Stevens Point)</b>	<b>Crosset, Kelly J (University of Wisconsin-Madison), Mark G Rickenbach</b>	<b>Gorczyca, Erika L (University of Maine), Jessica E Leahy, Jeremy Wilson, Kathleen P Bell, Wilfred Mercier</b>	

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## Concurrent Session Detail (cont'd)

**Monday**  
**3:00pm - 4:15pm**

<p><b>D6. Analyzing Water Policy Outcomes</b></p> <p><b>Room: Old Madison West</b></p> <p><i>Chair: Wes W Swaffar</i></p>	<p>More Valuable Than All of the Fish in the River... The Political Economy of the Pigeon River Saga</p> <p><i>Stover, Kayla M (University of Tennessee)</i></p>	<p>Barriers to Preventing Wetland Loss: Uncovering Competing Social Fields</p> <p><i>Habulin, Cory A (University of Alberta), Naomi Krogman</i></p>	<p>Future of Water Management Policy Paradigm: Regional Water Transfer or Ecosystem Based Management ? An Analysis of Interlinking of Rivers Project in India</p> <p><i>Pasi, Nidhi (SUNY-College of Environment Science and Forestry), Richard Smardon</i></p>	<p>Payment for Watershed Services: A Tool for Supporting Western Watershed Stewardship?</p> <p><i>Swaffar, Wes W (Northern Arizona University), Erik W Nielsen</i></p>
<p><b>D7. The Doing of Natural Resource Social Science: Part 1 (Panel)</b></p> <p><b>Room: On Wisconsin A - Red Gym</b></p> <p><i>Organizers: Al Luloff, Rick Krannich</i></p>	<p>Social Science and Public Land Management: An Incredible Journey</p> <p><i>Field, Donald R (University of Wisconsin-Madison)</i></p>	<p>Rabel Burdge Bill Burch Gary Machlis Matt Carroll and Daryll Johnson</p>		
<p><b>D8. Climate Adaptation Two: Values and Frameworks</b></p> <p><b>Room: On Wisconsin B - Red Gym</b></p> <p><i>Chair: Dominika A Dziegielewska</i></p>	<p>Fire and Water: Using Hazards Research to Forge the Path to Climate Adaptation</p> <p><i>Brenkert-Smith, Hannah (University of Colorado), Eric Toman</i></p>	<p>A Framework for Addressing the Human Dimensions of Climate Change Adaptation</p> <p><i>Heeren, Alexander (Minnesota Cooperative Fish &amp; Wildlife Research Unit, University of Minnesota), David C Fulton</i></p>	<p>Human Dimensions Value Orientation Research in Natural Resources Management: A Climate Change Adaptation Strategy in Asia</p> <p><i>Gupta, Hemant K (Ministry of Environment &amp; Forests, Forest Survey of India), Narayan P Dhakal, David C Fulton</i></p>	<p>Within the Boundaries: Climate Change Recommendations for Reserve Managers</p> <p><i>Dziegielewska, Dominika A (University of Wisconsin, Madison), Olivia E LeDee, William H Karasov, Karl J Martin</i></p>
<p><b>D9. Social and Legal Dimensions of Conservation in a Changing Climate: Results from a Six-University Distributed Graduate Seminar (Panel)</b></p> <p><b>Room: On Wisconsin C - Red Gym</b></p> <p><i>Organizers: Adena R Rissman, Jessica Owley, Dr. Menka Bihari</i></p>	<p>Adena Rissman (University of Wisconsin) Jessica Owley (University of New York - Buffalo) Menka Bihari (University of Wisconsin) Christina Locke (University of Wisconsin) Jessica Price (University of Wisconsin) Robert Smail (University of Wisconsin)</p>			
<p><b>D10. Place Attachment and Natural Resource Management</b></p> <p><b>Room: Roundtable</b></p> <p><i>Chair: Hwasung Song</i></p>	<p>There's No Place Like Home: The Role of Place Attachment in Understanding Family Forest Landowner Behavior</p> <p><i>Lyons, Patrick W (University of Maine), Jessica E Leahy, David B Kittredge, Mark Anderson</i></p>	<p>Cutting the Forest You Love? Landowner Place Attachment and Forest Management</p> <p><i>Stedman, Richard C (Cornell University), Ashley A Dayer, Shorna B Allred</i></p>	<p>The Measurement of Place Attachment in Rural Australia: Integrating Multiple Elements of Place Scholarship</p> <p><i>Raymond, Christopher M (University of South Australia), Greg Brown, Delene Weber</i></p>	<p>Relationships Between Specialization and Place Attachment at Two Trails</p> <p><i>Song, Hwasung (The Pennsylvania State University), Alan R Graefe</i></p>

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**Monday**  
**4:45pm - 6:00pm**

## Concurrent Session Detail (cont'd)

### **E1. Environmental Education, Trends and Methods**

**Room: Beefeaters**

*Chair: Brooklynn J Wynveen*

Graduate Student Reflections on Integrated Landscape Research

*Ing, Jasmine F (University of Calgary), Lynette V Hiebert, Katie M Morrison*

Undergraduate Enrollment Trends in Natural Resources in the United States: An Update

*Sharik, Terry L (Utah State University), Robert J Lilieholm*

The Value of Formative Experiments in Natural Resources Research

*Wynveen, Brooklynn J (Clemson University)*

### **E2. Sustainability**

**Room: Capitol View**

*Chair: Christine M Vatovec*

People Can Profit by Preserving Our Planet: Sustainable Livelihoods in Upstate New York

*Braun, Mark E (SUNY-Cobleskill)*

Morality and Leadership as Key Elements of a Cultural Shift to Sustainable Consumption.

*Krogman, Naomi T (University of Alberta), Emily Huddart Kennedy*

Energy Savings From Tree Shade

*Laband, David N (Auburn University)*

End-of-Life? Applying Environmental Flows Theory to the Study of Interconnected Human and Ecological Resources

*Vatovec, Christine M (University of Vermont), Michael M Bell*

### **E3. Understanding Socio-Ecological Systems with Agent-Based Models: Examples from Wildland-Urban Interface Research in North America**

**Room: Inn Wisconsin East**

*Organizer: Paige Fischer*

Free Agents and Social Networkers: Modeling Individual Decision Making Within Social Contexts in Fire Prone Ecosystems

*Fischer, Paige (USDA Forest Service)*

Representing Landowners in a Dynamic Agent-Based Model: A Tool for a Fuzzy World

*Nielsen-Pincus, Max W (University of Oregon), Robert G Ribe*

Integrating Dynamic Social Systems into Assessments of Future Wildfire Risk: Lessons From an Empirical Agent-Based Modeling Approach

*Prato, Tony (University of Missouri-Columbia), Travis B Paveglia*

Improving SES with SES: Considering the Suitability of Engaging Stakeholders in Forest-Based Socio-Ecological Systems Modeling

*Leahy, Jessica E (University of Maine), Erika Gorczyca, Kathleen P Bell, Jeremy Wilson*

### **E4. Management Strategies for Parks and Protected Areas**

**Room: Inn Wisconsin West**

*Chair: Katalin Dosa*

Federal Land Use in the USA and Austria: Differences, Similarities and Suggested Actions

*Burns, Robert C (West Virginia University), Arne Arnberger*

The State of Night Resources in U.S. National Parks: Resources, Management Beliefs, Actions, and Strategies

*Smith, Brandi L (Clemson University), Jeffrey C Hallo*

Characterizing Harmful Behavior of Divers and Snorkelers to Coral Reefs in Puerto Rico Through Systematic Observation and Testing the Effectiveness of Pre-Trip Media-Based Interventions.

*Webler, Thomas (SERI), Karin Jakubowski*

European Nature Parks: What accounts for their success, and can the model be exported to other cultural settings?

*Dosa, Katalin (University of Wisconsin-Madison), Agnes Eva Vertesi*

### **E5. Assessing Local Perceptions, Politics, and Participation in Tropical Conservation: Big Lessons from Small Communities**

**Room: Langdon**

*Organizers: Stephanie Jones, Jessica E Long*  
*Discussant: Sandra Pinel*

Evaluating Social Capital for Fisheries Management in the Tana Delta

*Jones, Stephanie M (University of Wisconsin-Madison)*

Education as a Direct Reward for Conservation Around Arabuko-Sokoke Forest, Kenya

*Gooch, Michelle M (University of Wisconsin-Madison), Lisa Naughton-Treves*

Uneven Local Forest Dependency and Adaptation to New Logging Restrictions in the Peruvian Amazon

*Long, Jessica E (University of Wisconsin at Madison)*

Participatory Zoning for Conservation and Development in Tambopata, Peru

*Naughton, Lisa (University of Wisconsin, Madison), Nora Alvarez-Berrios*

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**Monday  
4:45pm - 6:00pm**

## Concurrent Session Detail (cont'd)

<b>E6. Characterizing Hunters and Anglers</b>  <b>Room: Old Madison West</b>  <i>Chair: William E Smith</i>	A Typology of Big Game Hunters: Understanding How Constraints to Hunting Influence Experiences  <i>Covelli, Elizabeth A (The University of Montana), Alan R Graefe</i>	Waterfowl-Hunting Identification Among Lapsed Waterfowl Hunters  <i>Schroeder, Susan A (Minnesota Cooperative Fish and Wildlife Research Unit, University of Minnesota), David C Fulton</i>	Implicit Bias as a Tool to Understand Attitudes Toward Hunters and Participation Behavior  <i>Norman, William C (Clemson University), Dorothy L Schmalz, Brandi M Crowe</i>	Characterizing Specialization in Terms of Style of Participation Among Texas Recreational Inshore Fishing Guides  <i>Smith, William E (Texas A&amp;M University), Gerard Kyle</i>
<b>E7. The Doing of Natural Resource Social Science: Part 2 (Panel)</b>  <b>Room: On Wisconsin A - Red Gym</b>  <i>Organizers: Al Luloff, Rick Krannich</i>	<p style="text-align: center;"> <b>Maureen McDonough</b>  <b>Becky Schewe, Richelle Winkler, and David Matarrita-Cascante</b>  <b>Courtney Flint, Joan Brehm, Naomi Krogman, and Carla Trentelman</b>  <b>AE Luloff, Rick Krannich and Gene Theodori</b> </p>			
<b>E8. Outdoor Recreation Issues</b>  <b>Room: On Wisconsin B - Red Gym</b>  <i>Chair: William A Valliere</i>	A Critique of the York University Off Highway Recreational Vehicle Health Benefits Study  <i>Bissix, Glyn C (Acadia University), Keith MacCormick, Chris Milburn</i>	Visitor Tradeoffs Between Facilities and Wildlife: The Case of Reindeer and Gondola in Norway's National Park Region  <i>Lindberg, Kreg (Oregon State University), Knut Veisten</i>	Outdoor Recreation Conflict on Trails in Squamish, British Columbia: An Examination of Theoretical Models and Management  <i>Ramon Hidalgo, Ana Elia (University of British Columbia), Howard W Harshaw, Stephen RJ. Sheppard, John Hawkings</i>	Evaluating Management Alternatives: A Stated-Choice Analysis of the Denali Park Road Experience  <i>Valliere, William A (University of Vermont), Robert E Manning, Peter R Pettengill</i>
<b>E9. Second Home or Cabin Owners and Communities</b>  <b>Room: On Wisconsin C - Red Gym</b>  <i>Chair: Johan Fredrik Rye</i>	Cabin Owners Attitude Towards National Parks  <i>Haugset, Anne Sigrid (Norwegian University of Technology and Science)</i>	A Comparison of Seasonal and Permanent Residents in Four Vermont Amenity Resource Communities  <i>Park, Min (George Mason University), Patricia A Stokowski, Monika M Derrien</i>	Second Homes and the New Rural Economies: Challenges, Conflicts and Contestations  <i>Rye, Johan Fredrik (Centre for Rural Research, Norwegian University of Science and Technology)</i>	
<b>E10. Perceptions of Risk</b>  <b>Room: Roundtable</b>  <i>Chair: Danielle k Mazzotta</i>	Assessing Stakeholder Attitudes Towards Invasive Plants to Inform Risk Analysis  <i>Kapler, Emily J (Iowa State University), Jan R Thompson, Mark P Widrechner</i>	Co-constructing the Fire Environment: Risk Planning, Conservation, and the Creation of Governable Landscapes  <i>Brummel, Rachel F (University of Minnesota), Kristen C Nelson</i>	St. Johns River Stakeholders, Cultural Cognition Theory and Risk Perceptions  <i>Christiansen, Lisa A (University of Florida), Christine Overdeest, Treavor H Boyer</i>	Communication Strategies and Sustainable Partnership Development in Forest Management: an Examination of Tolerance for Smoke from Prescribed Fire in U.S. Four Communities  <i>Mazzotta, Danielle k (Oregon State University), Christine S. Olsen S Olsen</i>

**Poster Session**

**Monday 6:00pm  
Tripp Commons**

**Tourism and Recreation**

Stay Indoors or Go Outdoors? Influence of Activities on Psychological Benefits

Chiang, Yen-Cheng (Department of Landscape Architecture, National Chiayi University), Yi-Hsuan Wu

A Comparison of State Forest and Municipal Park Visitor Preferences for Recreation Experiences

Koepp, Edwin (College of Natural Resources, University of Wisconsin Stevens Point), Melissa L Baker

Health and Well-Being Benefits of Nature Based Activity

Kruger, Linda E (USFS PNW Research Station)

The Adoption of Sustainable Tourism Practices: Assessing Industry Change Across Time

Schneider, Ingrid (Forest Resources, University of Minnesota), Patrick Simmons, Soriya Yin

Time to Fish or Cut Bait? Boaters' Beliefs and Practices Associated with Aquatic Invasive Species and Pathogens

Bundy, Darren S (Department of Forest Resources, University of Minnesota), Mae A Davenport, Jesse Trushenski, Gregory T Whitledge

Access to Public and Private Lands of Ohio: Attitudes and Behaviors of Hunters and Woodland Owners

Slagle, Kristina M (School of Environment and Natural Resources, The Ohio State University), Ryan Zajac, Jeremy T Bruskotter

Conflict & coping among motorized recreationists: Are they all alike?

Schneider, Ingrid E (Forest Resources, University of Minnesota), Andrea Date, Hyoung Kil (HK) Kang

**Livelihoods**

Developing Entrepreneurship in Value Chains of *Bassia butyraceae* (Chiuri) Fruit Tree: Linking Pro-Poor women Producers to Market of herbal Soaps in Nepal

GC, Sangita (Rural Energy Development Project of United Nations Development Program)

Cultural, Socioeconomic, and Environmental Influences on Tartary Buckwheat (*Fagopyrum tataricum*) Landrace Diversity in Yunnan, China.

Saunders, Mary T (Agronomy, University of Wisconsin-Madison)

Sustainable Community Based Tourism Enterprise at the Periphery of Ritigala Strict Nature Reserve in Sri Lanka

Wijayawardene, Nalin (Rajarata University), Budhika Madurapperuma

Children's Time Outdoors: Results and Implications from the National Kids Survey

Larson, Lincoln R (University of Georgia), Gary T Green, H Ken Cordell, Carter J Betz

A Research on Construction of Forest Recreation Opportunity Spectrum in Suburban Mountainous Region of Beijing

Suili, Xiao (Beijing Forestry University)

Application and Expansion of the Recreation Location Quotient

Oftedal, Andrew (Department of Forest Resources, University of Minnesota), Mae A Davenport, Ingrid E Schneider, Lisa Filter, Cindy Zerger, Mary Vogel, Brian Schreurs

A Study on Social Carrying Capacity using Visual Simulation Method on the Shey Shan Peak Trail of Shei-Pa National Park in Taiwan

Bo-Lun, To (Horticulture, National Chiayi University), Tseng Shuo-Wen, Lee Yen-Liang

Who Are the "Right" Tourists?

Lacher, Richard G (Department of Parks, Recreation and Tourism Management, Clemson University), Matt D Hughes, William C Norman

Connecting Urban Youth with Nature through Adventure: Understanding the Process

Lekies, Kristi S (School of Environment and Natural Resources, The Ohio State University), Greg M Yost, Devyani Singh, John Rode

Absence of a Tradition: (Re-)Inventing Local Food Production System in Northeastern Germany

Siebert, Rosemarie (Institute of Socio-Economics, Leibniz-Centre for Agricultural Landscape Research)

Use of Plants for Massage Therapy Among the Ethnic Communities of Chittagong Hill Tracts: Living Knowledge from Bangladesh

Mollik, Md. Ariful Haque (Natural and Social Sciences, Peoples Integrated Alliance), Bivash Chandra Panday, Md. Saifur Rahman, Md. Salimul Kabir, Md. Torikul Islam, Krishna Nando Bhattacharyya

## Poster Session (cont'd)

### Policy and Governance

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Political Economy of Agri-environmental Governance: Four Watersheds in Wisconsin, France, Germany, and England  
Anderson, Kathryn G (University of Wisconsin-Madison)

Variation and Synergies in Natural Resource Policy Across State Borders: Implications for Understanding and Addressing Forest Change Across the Driftless Area of the Midwest  
Bosworth, Laura (Natural Resource Ecology & Management, Iowa State University), Tricia G Knoop, John C Tyndall, Lynne Westphal

Public Values and Biofuel Policies in the Eastern Upper Peninsula of Michigan  
Dupey, Lauren N (Cognitive and Learning Sciences, Michigan Technological University), Kaye M LaFond, Ellis A Adams, Kathleen E Halvorsen

An Analysis of the Renewable Energy Policy Landscape for Seven Midwestern States  
Van Thiel, Benjamin K (University of Wisconsin - Stevens Point), Kristin Floress, Katrina Shankland

Risk, Resources, and Market Access in South African Rural Livelihood Systems  
Parent, Gregory D (Geography, University of Florida), Brian Child

Legal and Policy Barriers to Community Gardening in Winnipeg, Canada  
Diduck, Alan (Environmental Studies Program, The University of Winnipeg), Philip Mikulec, Heather Unger, Beverly Froese, Kathryn MacKenzie

A Comparison of Chinese and Indian Emission Reduction Goals and Policy Implementation Post-Kyoto Protocol  
Banerjee, Aparajita (Department of Social Sciences, Michigan Technological University), Kathleen E Halvorsen

Factors Influencing Application Rates in the Environmental Quality Incentives Program  
Reimer, Adam P (Forestry and Natural Resources, Purdue University), Linda S Prokopy

Local Strategies for Reducing Crop-Raiding by Wildlife in the Afadjato-Agumatsa Conservation Area, Ghana: Some Lessons for Conservation Management  
Ekpe, Edem K (Biology Department, University of Central Florida)

Institutional Arrangements in Pro-Poor Climate Mitigation Projects: A Comparative Analysis  
Lee, Jean (University of Vermont)

### Forest Management

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The Differences in Perceptions of Prescribed Fire as a Viable Management Practice in the US upper Midwest and Southeast  
Kossak, David J (Forest Resources and Environmental Science, Michigan Technological University)

Regional Fire Science Consortia  
Steelman, Toddi A (Forestry and Environmental Resources, North Carolina State University)

The Future of Maine's Changing Family Forests: Preliminary Analysis of Tipping Points in Landowner Attitudes and Behaviors  
Quartuch, Michael R (School of Forest Resources, University of Maine), Jessica E Leahy

Investigating the Relationships among Environmental Concern, Risk Perceptions, and Support for Management of Mountain Pine Beetle Infested Forests among Residents of a Colorado Community  
Kooistra, Chad M (Conservation Social Sciences, University of Idaho), Troy E Hall

Making Land Health Meaningful: Using Leopold's Conservation Ethic As a Gateway to Family Forest Management  
Floress, Kristin (College of Natural Resources, University of Wisconsin Stevens Point), Alanna Koshollek, Melissa Baker

Nontraditional and Traditional Land Managers: Comparing Attitudes and Behaviors Regarding Conservation Practices  
Perry-Hill, Rebecca (Forestry and Natural Resources, Purdue University), Linda Prokopy

Comparative Analysis of the Behavior of Non-Industrial Private Forest Owners and State Policies  
Tönisson, Tõnis (School of Forest Resources and Environmental Science, Michigan Technological University), Kathleen Halvorsen



## Poster Session (cont'd)

### Public Participation and Collaborative Management

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Community-based Conservation and Rural Development in Quijos, Ecuador: Learning from Experiences in the Field  
Sansom, April (Nelson Institute for Environmental Studies, University of Wisconsin-Madison)

Challenges and Opportunities of Doing Research with a Community: A Case Study of a Mapping Project with the Chehalis Indian Band in BC, Canada.  
KIM, IN AE (Forest Resources Management, University of British Columbia), James Leon, Ronald Trosper

Thirteen Moons: Forging Connections in an Ojibwe Community Through Culture, Ecology, and Management  
Wilsey, David S (Extension, University of Minnesota), Reginald DeFoe, Wayne Dupuis, Tom Howes, Shannon Judd, Steve Olson, Robert Peacock, Nikki Crowe

Measuring the Potential of Positive Dialogue and Working relationships between the U.S. Navy and environmental community with an online anonymous survey  
Gesch-Karamanlidis, Eleni (Marine Affairs, University of Rhode Island)

Establishing a Citizen Science Monitoring Network: Lake Michigan Volunteer AMBLE – Avian Monitoring for Botulism Lakeshore Events  
Chipault, Jennifer G (USGS National Wildlife Health Center), LeAnn White, Sue Jennings, Emily H Tyner

Sharing Environmental Data: User-Centered Development of a Spatial Data Infrastructure  
Hörmanseder, Karin (Institute for Geographic Information Science, Austrian Academy of Sciences), Sabine Hennig, Gudrun Wallentin, Mariana Belgiu

### Landscape and Watershed Management

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How do you Define Sustainable Watershed Management? Insight from Stakeholders in Two Minnesota Watersheds  
Guetter, Paula (Department of Forest Resources, University of Minnesota), Amanda Sames, Mae Davenport

The Wisconsin Lake Leaders Institute: Capacity Building for Future Lake Champions  
Goggin, Patrick O (College of Natural Resources, UW-Stevens Point)

Watershed Science Outreach: An Integrative Model for Program Evaluation  
Yaeger, Christine S (Department of Forest Resources, University of Minnesota), Mae A Davenport, Erin Seekamp

Land Account for Japan 1976 to 2006  
Hashimoto, Shizuka (Division of Environmental Science and Technology, Kyoto University)

### Urban and Regional Planning

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Scenic Byways & Community Livability: Resident perceptions  
Guo, Tian (Department of Forest Resources, University of Minnesota), Rachel Liechty, Ingrid E Schneider

Coastal Hazard Risk Perception and Intentions to Support Sea Level Rise Planning Among Marine Stakeholders in Washington State  
Papendick, Hilary L (School of Forest Resources, University of Washington)

Combining Building and Subsurface Information to Facilitate Urban and City Planning  
Zobl, Fritz (Institute for Geographic Information Science, Austrian Academy of Sciences), Robert Faber, Sabine Hennig, Robert Marschallinger

Using "Sense of Place" to Aid Urban Forest Policy Decision-Making  
Davis, Kimberly L (Sociology, University of Tennessee/Spectra Tech, Inc.), Robert E Jones

Environmental Attitudes and Behaviors of Selected LEED-Certified Multifamily Housing Developments in the Midwest  
Behbehani, Lamis J (ESE/FNR, Purdue University), Linda S Prokopy

## Poster Session (cont'd)

### Pollution

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What's Wrong with the Tap? Perceptions of Drinking Water at Purdue University

Saylor, Amber M (Forestry and Natural Resources, Purdue University), Linda S Prokopy, Shannon M Amberg

Social Indicators for Nonpoint Source Management

Genskow, Ken D (Urban and Regional Planning, University of Wisconsin-Madison), Linda Prokopy

### Environmental Attitudes and Perceptions

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Environmental Concern, Attitudes, and Behaviors in Young Adulthood: Examining the Role of Childhood Nature Experiences

Ritter, Tara E (Environment and Natural Resources, The Ohio State University), Kristi Lekies, Devyani Singh, Nancy Wells

Evaluating Awareness and Attitudes of Humans Towards Eastern Hellbenders in the Midwestern United States

Wasserman, Danielle S (Forestry and Natural Resources, Purdue University), Linda S Prokopy, Rod N Williams

Comparing Perspectives of Natural Resource Management and Growth Between Long-term Alaska Residents and Recent Migrants

Fix, Peter J (Department of Resources Management, University of Alaska Fairbanks), Linda E Kruger

Place Attachment, Personality, Perceptions of Global Warming, and Students' Major as Motivation for Environmentally Sensitive Behaviors Psychological Factors Influencing Environmentally Sensitive Behaviors:

Fusco, Emily J (Environmental Studies, University of North Carolina Wilmington), Anthony Snider, Shanhong Luo

Factors Affecting Human Attitude Towards Nuisance Wild Animal Control

KISHIOKA, Tomoya (Kyoto University), Shizuka Hashimoto, Satoshi Hoshino, Yasuaki Kuki

College Student Engagement in Environmental Issues

Johnson, Mathew (Environmental Studies, Siena College), Donald P Levy



# • International Symposium on Society and Resource Management •

## Daily Overview: Tuesday

7:30am - 5:00pm	Symposium Registration	Annex
8:00am - 5:00pm	Exhibitors	Main Lounge
8:00am - 9:15am	Concurrent Sessions	
F1. Environmental Education		Beefeaters
F2. Land Use Policy for Forests, Wetlands, and Agricultural Lands		Capitol View
F3. Transdisciplinary Approaches to Climate Change		Inn Wisconsin East
F4. Survey Methods and Analysis		Inn Wisconsin West
F5. Attitudes and Valuation in Wildlife Management		Langdon
F6. Community Dimensions of Agriculture in the U.S., Europe and Australia		Old Madison East
F7. Perception and Measurement of Health Risks		Old Madison West
F8. Issues in Protected Areas Management		On Wisconsin A - Red Gym
F9. Urban Planning, Recreation and Science		Roundtable
9:30am - 10:15am	Y1. Plenary Address: Stan Albrecht	Union Theater
	Environment, Society, and the 21st Century University	
10:15am - 10:45am	Coffee Break	Union Theater Lobby
10:45am - Noon	Concurrent Sessions	
G1. Values, Attitudes and Behaviors in Water Management		Beefeaters
G2. Social and Environmental Impact Assessments		Capitol View
G3. Transdisciplinary Approaches to Natural Resource Management		Inn Wisconsin East
G4. The National Climate Assessment - Process, Products, and Opportunities for Engagement		Inn Wisconsin West
G5. What is Place in "place" Research? Sorting Out the Differences Among the Discourses		Old Madison East
G6. Visitor Perceptions and Preferences		Old Madison West
G7. Wildfire and Community Resilience		On Wisconsin A - Red Gym
G8. Ecosystem Services in Rangeland and Agricultural Systems		On Wisconsin B - Red Gym
G9. Family and Social Dimensions of Agriculture		On Wisconsin C - Red Gym
G10. Evaluating Policy Mechanisms for Achieving Conservation Goals		Roundtable
Noon - 1:15pm	Lunch (on your own)	
Noon - 1:15pm	SNR Editorial Board Meeting	Class of '24 Reception
1:15pm - 2:30pm	Concurrent Sessions	
H1. Partnerships and Programs in Water Management		Beefeaters
H2. Assessing Public Priorities, Motivation and Participation		Capitol View
H3. Innovations in Interdisciplinary Teaching in Society and Natural Resources		Inn Wisconsin East
H4. Visitation in National Parks and Recreational Areas		Old Madison East
H5. Assessing Environmental Values and Behaviors		Old Madison West
H6. Agriculture Related Production Systems		On Wisconsin A - Red Gym
H7. Methods and Techniques in Environmental Management and Planning		On Wisconsin B - Red Gym
H8. Protected Areas Management		On Wisconsin C - Red Gym
H9. Climate Science Policy and Discourse		Roundtable

# • International Symposium on Society and Resource Management •

## Daily Overview: Tuesday (cont'd)

2:30pm– 3:00pm

Coffee Break

Main Lounge

3:00pm - 4:15pm

Concurrent Sessions

- I1. Issues in Sustainable Tourism and Recreational Development
- I2. Stakeholder Perspectives on Conservation and Natural Resource Policy
- I3. Teaching Sustainability
- I4. Community-Based Natural Resource Management Two
- I5. Transnational Capital, Natural Resources, and Rural Livelihoods in International Comparative Perspective
- I6. Building Bridges for Climate Readiness - Using a Place-Based Reserve System to Integrate Social and Ecological Sciences
- I7. Engaging Landowners in Conservation and Resource Management
- I8. Communication and Trust in Resource Management and Planning
- I9. Nature Spaces

Beefeaters  
Capitol View  
Inn Wisconsin East  
Inn Wisconsin West  
Old Madison East  
Old Madison West

On Wisconsin A - Red Gym  
On Wisconsin C - Red Gym  
Roundtable

4:30pm - 5:30pm

Student Quiz Bowl

Class of '24 Reception

6:00pm - 8:30pm

Brat and Brew Picnic and Awards

Great Hall

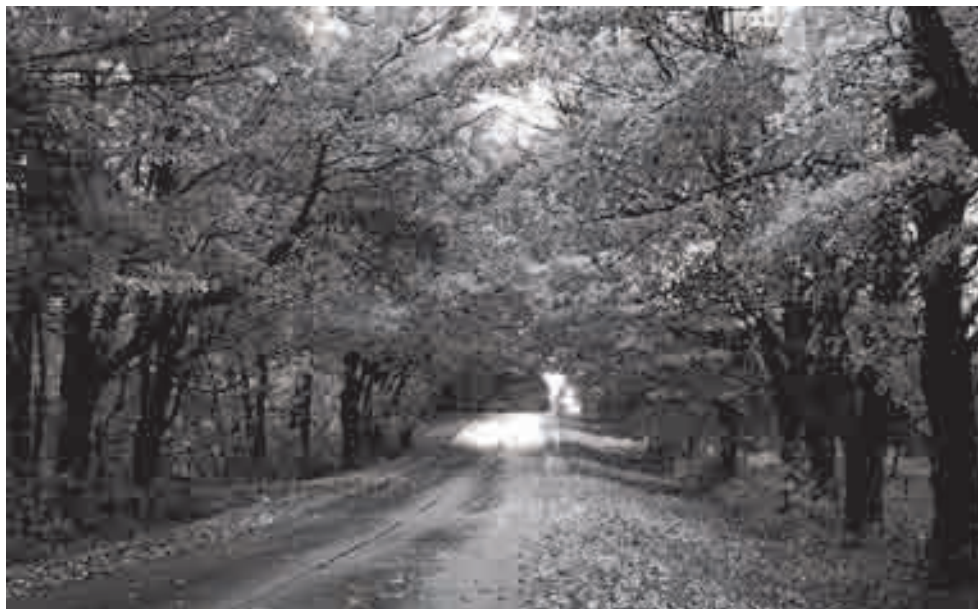


Photo courtesy of Gene F Summers

# • International Symposium on Society and Resource Management •

**Tuesday**  
**8:00am - 9:15am**

## Concurrent Session Detail (cont'd)

<b>F1. Environmental Education</b>  <b>Room: Beefeaters</b>  <i>Chair: Laurie Schoonhoven</i>	Developing Attitudes That Support Sustainability Through Early Exposure to Outdoor Recreation  <i>Slowik, Madeline (Nazareth College)</i>	Sustainable Living: What is the Role of School-Based Instruction in Educating For and About the Environment?  <i>Breunig, Mary C (Brock University), Jocelyn Murtell, Constance Russell, Ryan Howard</i>	Increasing Public Awareness of Wildfires in Pennsylvania Through Middle School Education  <i>Schoonhoven, Laurie (Pennsylvania State University), James C Finley</i>	Innovative Solutions to Conservation Education: Integrating Hmong Cultural Traditions, Art and Research  <i>Schermann, Michele (University of Minnesota), David N Bengston, Fong Heu, MaiKia Moua</i>
<b>F2. Land Use Policy for Forests, Wetlands, and Agricultural Lands</b>  <b>Room: Capitol View</b>  <i>Chair: Jessica Daniel</i>	Modeling Local Land-Use Policy Decisions for Semi-Natural and Agricultural Land Preservation in South-East France : Contributions of a Qualitative Field-Based Approach and Reflection on More Explanatory Ways of Modeling  <i>Delattre, Laurence (INRA), Claude Napoléone, Olivier Chanel</i>	Unexpected Co-Benefits: Forest Connectivity and Property Tax Incentives  <i>Locke, Christina M (University of Wisconsin - Madison), Adena R Rissman</i>	Measuring Transaction Costs Incurred by Landowners in Multiple Land Use Situations  <i>Widmark, Camilla M (Swedish University of Agricultural Sciences), Göran Bostedt, Mats Andersson, Camilla Sandström</i>	Collaboration by Federal Resource Management Agencies with Local and Tribal Governments: The Role of Legal Structures and Agency Culture  <i>Daniel, Jessica (University of Idaho), Sandra Lee Pinel, PhD, AICP</i>
<b>F3. Transdisciplinary Approaches to Climate Change</b>  <b>Room: Inn Wisconsin East</b>  <i>Chair: Dave D White</i>	Integrated Social Science Research to Facilitate Climate Change Adaptation Planning in Protected Areas  <i>Duke, Esther A (Colorado State University), Kirsten M Leong, Jessica L Thompson, Chris J Lemieux, Michael J Manfredo</i>	Forecasting Outdoor Recreation Participation in the US: How Important is Climate Change?  <i>Bowker, J M (Southern Research Station, USDA Forest Service), Ashley Askew, Ken Cordell, Neelam Poudyal</i>	Assessment of People's Perception on Climate Change and Its Impact on Forest and Biodiversity in Siwalik Region of Nepal  <i>Balla, Mohan K (Tribhuvan University, Institute of Forestry), Krishna R Tiwari</i>	Advancing Theory and Methods for Boundary Organizations at the Interface of Science and Policy: The Co-production of Knowledge and Action for Urban Climate Adaptation in Phoenix, Arizona  <i>White, Dave D (Arizona State University)</i>
<b>F4. Survey Methods and Analysis</b>  <b>Room: Inn Wisconsin West</b>  <i>Chair: Linda Lundmark</i>	Prompting with Pictures: A Comparative Analysis of Two Image-Based Methods  <i>Van Auken, Paul M (University of Wisconsin - Oshkosh), Shaun Golding, James R Brown</i>	Use of Static Location Maps in Web Based Tourism Surveys  <i>Yuan, Mike (Lakehead University)</i>	Exploring the Influence of Personality Traits on Perceived-Crowding and Recreational-Satisfaction in an Urban Park Environment  <i>Holloway, Andrew J (Arizona State University), Megha Budruk, Woojin Lee</i>	Revealing Types and Groups in Outdoor Recreation  <i>Lundmark, Linda (Umeå University)</i>
<b>F5. Attitudes and Valuation in Wildlife Management</b>  <b>Room: Langdon</b>  <i>Chair: Juha Hiedanpää</i>	What do Attitudes Toward Wolves Have to do With Behavior? Not Much. But That's OK.  <i>Heberlein, Thomas A (University of Wisconsin-Madison), Matthew A Wilson</i>	How Attitudes, Social Norms, and Control are Related to Management Behavior of an Invasive Frog ( <i>Eleutherodactylus coqui</i> ) in Hawaii  <i>Kalnicky, Emily A (Utah State University), Mark W Brunson, Karen H Beard</i>	Reasonableness in Finnish Wolf Policy  <i>Hiedanpää, Juha (Finnish Game and Fisheries Research Institute)</i>	

# • International Symposium on Society and Resource Management •

**Tuesday**

**8:00am - 9:15am**

## Concurrent Session Detail (cont'd)

**F6. Community Dimensions of Agriculture in the U.S., Europe and Australia**

Growing Your Own: The Socioeconomic Value of Community Food Production

Exploring the Relationship Between Community Resilience and Irrigated Agriculture in the Murray Darling Basin, Australia

Public Opinion and Policy on Genetically Modified Foods: Identifying and Comparing Trends in Europe and the United States

The Effects of Spatial Proximity to Land Use Change on Individual and Community Wellbeing: Experiences From Plantation Establishment in South-West Western Australia

**Room: Old Madison East**

**Chair: Melanie A Dare**

*Smith, Vincent M (University of Wisconsin-Madison)*

*Lux, Colleen A (Judith Stubbs and Associates), Dr. Judith D Stubbs, John C Storer*

*Lamphere, Jenna A (University of Tennessee), Robert E Jones, Jon Shefner*

*Dare, Melanie A (Australian National University), Jacki Schirmer*

**F7. Perception and Measurement of Health Risks**

The Fourth Dimension of Risk: A Case Study of Temporal Variability in Risk Perceptions

Environmental Influences on Endemic Pediatric Gastrointestinal Illness in the Midwestern United States

The Application of the Health Belief Model to Pro-Environmental Behavior Related to Private Well Water Testing and Groundwater Contamination

**Room: Old Madison West**

**Chair: Crista L Straub**

*Evensen, Darrick T (Cornell University)*

*Uejio, Christopher (University of Wisconsin-Madison), Steven H Yale, Jonathan Patz*

*Straub, Crista L (University of Maine), Jessica E Leahy*

**F8. Issues in Protected Areas Management**

Seeking Environmental Governability in Mexican Protected Areas: From Top-Down to Participatory Approaches

NTFP-Related Sustainable Tourism: Prospects for Adding Economic Value to Tropical Rainforests in El Petén, Guatemala and Chiapas, Mexico

A Gender Gap? Perceptions of Protected Areas in Nepal and Myanmar

Allocating Natural Resources for the Sake of Sea Turtles and Tourists: A Comparative Analysis of Brazil and Mexico

**Room: On Wisconsin A - Red Gym**

**Chair: David I Fleischer**

*Brenner, Ludger (Universidad Autónoma Metropolitana)*

*Peroff, Deidre M (Western Washington University), Dean Current*

*Allendorf, Teri D (University of Wisconsin-Madison), Keera Allendorf*

*Fleischer, David I (University of Illinois at Urbana-Champaign)*

**F9. Urban Planning, Recreation and Science**

Success Indicators in Community Program Development and Partnerships: a Case Study of an Urban Fishing Program

Collaborative Decision Support Framework to Guide Stakeholder Construction of Land Use Policy

Collaborative Regionalism: Evaluating Regional Governance to Manage Urban Growth and Open Space

Combining Prescribed Targets with Stakeholder Participation : Lessons From Water Resource Management in Scotland

**Room: Roundtable**

**Chair: Kerry Waylen**

*Carter, Angie L (Iowa State University), Rebecca Christoffel*

*Schively Slotterback, Carissa (University of Minnesota), David G Pitt*

*Margerum, Richard D (University of Oregon)*

*Waylen, Kerry (Macaulay Land Use Research Institute), Kirsty Blackstock, Keith Marshall*



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## Concurrent Session Detail (cont'd)

**Tuesday**  
**10:45am - 12:00pm**

### G1. Values, Attitudes and Behaviors in Water Management

Room: Beefeaters

Chair: Barbara J Andersen

Relationships Between Values, Beliefs, and Water-impacting Behaviors in the Great Lakes Watershed

Kozich, Andrew T (Michigan Technological University), Kathleen E Halvorsen

Moving Forward in Understanding and Promoting Conservation Behavior

Rudberg, Edgar A (University of Minnesota), David C Fulton

Social Factors in Changing Water Use in a Rapidly Urbanizing Watershed

Mertig, Angela G (Middle Tennessee State University)

Practices, Motivations and Barriers to Landscape Water Conservation of Pacific Northwest Residents

Andersen, Barbara J (University of Wisconsin - Oshkosh)

### G2. Social and Environmental Impact Assessments

Room: Capitol View

Chair: Frank A Hartmann

Assessment of Residents' Social and Economic Wellbeing and Perceived Biological Gains in Conservation Resettlement: A Case Study of Padampur, Chitwan National Park, Nepal

Dhakal, Narayan P (University of Minnesota), Kristen C Nelson, James LD Smith, Dean Current

Cumulative Socio-Economic Effects of Natural Resource Policy Change: Learning From Social Impact Assessment

Loxton, Edwina A (The Australian National University), Jacki Schirmer, Peter Kanowski

Measuring Community-Forest Resource Use, Dependency, and Vulnerability in South-central and Southeast Alaska

Tessema, Mekbeb E (Utah State University), Robert J Lilieholm, Dale J Blahna, Linda E Kruger

Combining the Material Flow Indicator (MFI) and Carbon Footprint (CF) Methods applied to a Natural Park: Interaction between Resource-based Human Activities and Environmental Impacts

Hartmann, Frank A (Institute of Natural Resource Sciences), Zurich University of Applied Sciences), Thomas Kägi

### G3. Transdisciplinary Approaches to Natural Resource Management

Room: Inn Wisconsin East

Chair: Ann E Speers

New Perspectives for Natural Resource Management: Towards a Better Understanding of Socio-Ecological Systems

Stuart, Diana L (Kellogg Biological Station Michigan State University), Brian C Petersen

A Case Study of Factors Influencing Natural Resource Practitioners' Intent to Incorporate Social Science

Robinson, Patrick (University of Wisconsin-Extension)

Content Analysis of Public Input: A Review of Existing Methods for Extracting Information to Facilitate Collaboration and Decision-Making

DeVane, Leif A (University of Minnesota), David N Bengston, Christopher J Miller, Robert Dow

Explaining Lakefront Household Adoption of Conservation Practices: Social Norms, Status and Economic Tradeoffs

Speers, Ann E (University of Maine), Kathleen P Bell, Mario F Teisl, Jessica E Leahy

### G4. The National Climate Assessment - Process, Products, and Opportunities for Engagement (Round Table Discussion)

Room: Inn Wisconsin West

Organizer: Emily T Cloyd

Emily Cloyd (National Climate Assessment)  
Julie Maldonado (National Climate Assessment)  
Linda Langner (USDA Forest Service)

### G5. What is Place in "Place" Research? Sorting Out the Differences Among the Discourses (Panel)

Room: Old Madison East

Organizer: Daniel R Williams

Daniel Williams (USDA Forest Service)  
Patricia Stokowski (University of Vermont)  
Chris Raymond (University of South Australia)  
Patrick Devine-Wright (University of Exeter)

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## Concurrent Session Detail (cont'd)

**Tuesday**  
**10:45am - 12:00pm**

<b>G6. Visitor Perceptions and Preferences</b>  <b>Room: Old Madison West</b>  <i>Chair: Yi-Hsuan Chang</i>	The Tourists' Perceptions of Heritage Destination – A Case Study of An-Ping, Tainan City, Taiwan  <i>Chen, Ying-Yu (University of Waterloo), Ying-Hung Li</i>	The Acceptance for Pet Dogs at Parks: The Influences of Park Type and Dog Walker  <i>Wang, Cheng-Ping (Shih Hsin University)</i>	Identifying and Understanding Differences in Beliefs, Attitudes and Management Preferences of Visitors to the Wildland-Urban Interface (WUI) and Non-WUI Areas: Planning and Management Implications  <i>Kil, Namyun (University of Florida), Taylor V Stein</i>	To Restore Historic Area as Authentic as Possible  <i>Chang, Yi-Hsuan (National Taipei University of Education), Li Shen, Ying-Yu Chen, Chi-Yun Chen</i>
<b>G7. Wildfire and Community Resilience</b>  <b>Room: On Wisconsin A - Red Gym</b>  <i>Chair: Soren M Newman</i>	Building Community Adaptive Capacity and Resilience Through Wildfire Planning  <i>Myer, Mary G (The Ohio State University), Victoria Sturtevant, Pamela Jakes</i>	The Gap: A study of a Victorian Township, its Landscape and a Code Red Fire Day  <i>Reid, Karen (University of Melbourne), Ruth I Beilin</i>	The Economic Impacts of Large Wildfires: A Mixed Methods Perspective from Trinity County, California  <i>Davis, Emily Jane (University of Oregon), Max Nielsen-Pincus, Cassandra Moseley, Pam Jakes</i>	Identifying 'Fire-Adapted Communities': A Framework of Adaptive Capacity  <i>Newman, Soren M (Washington State University), Matthew S Carroll, Travis B Pavaglio, Pamela Jakes</i>
<b>G8. Ecosystem Services in Rangeland and Agricultural Systems</b>  <b>Room: On Wisconsin B - Red Gym</b>  <i>Chair: GL D Larsen</i>	Do Livestock and Ecosystems Services Compete? A State-and-Transition Approach  <i>Ritten, John (University of Wyoming), Emily Kachergis, Maria Fernandez-Gimenez, Willow Hibbs, James Pritchett</i>	Linking Diffusion of Innovation and Conservation of Ecosystem Services in an Agricultural Ecosystem  <i>Garbach, Kelly M (University of California Davis), Mark Lubell</i>	Rangeland Managers' Beliefs About Climate Change: Implications for Protecting Biodiversity as an Ecosystem Service  <i>Brunson, Mark W (Utah State University), Hilary L Whitcomb</i>	Farming for Ecosystem Services: A Case Study of Stakeholder Perception in Central Iowa  <i>Larsen, GL D (Iowa State University), Lisa A Schulte, John C Tyndall, Nancy Grudens-Schuck</i>
<b>G9. Family and Social Dimensions of Agriculture</b>  <b>Room: On Wisconsin C - Red Gym</b>  <i>Chair: Mathew Johnson</i>	Farm Management Decisions: Motivations to Farm and the Adoption of Organic and Managed Grazing Within the Amish Communities in Wisconsin  <i>Brock, Caroline C (WI. Dept of Ag. and University of Wisconsin - Madison)</i>	Attitude and Satisfaction of Mexican Dairy Farm Families and Smallholders  <i>Blazek, Jennifer R (University of Wisconsin - Madison), Michel A Wattiaux, Jose de Jesus Olmos Colmenero</i>	Ecological Outcomes of Adaptive Household Labor Structures in an Ersu Tibetan Village  <i>Schmitt, Edwin A (Oregon State University)</i>	Fallow Farmers: Land, Nature, and the Decline of Small Farmers in Central New York  <i>Johnson, Mathew (Siena College), Jean C Mangun</i>
<b>G10. Evaluating Policy Mechanisms for Achieving Conservation Goals</b>  <b>Room: Roundtable</b>  <i>Chair: Katherine M Mattor</i>	Conservation Security to Conservation Stewardship: The Contradictions of Green Payments  <i>Flora, Cornelia B (Iowa State University), Stephanie N D'Adamo</i>	Promoting Carbon Sequestration on Rangelands in the Intermountain West: Is This a Dead End?  <i>Ma, Zhao (Utah State University), Layne Coppock, Seth Cook</i>	Insights from Bolivia's Green National Accounts  <i>Andersen, Lykke E (Bolivia Field Office, Conservation International), Luis Carlos Jemio</i>	The State of Stewardship Contracting: Its Use and Implementation on US National Forests  <i>Mattor, Katherine M (Colorado State University)</i>

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## Concurrent Session Detail (cont'd)

**Tuesday**  
**1:15pm - 2:30pm**

### **H1. Partnerships and Programs in Water Management**

**Room: Beefeaters**

**Chair: Al Luloff**

Four States, Two EPA Regions, Eight Tribes and One of the Largest Superfund Sites in the US: Does this Watershed Stand a Chance?

*Triplett, James R (Pittsburg State University), Kevin Gustavson*

Privatization of Water Services in Developing Countries: Implications on the Activities of (WASH) Sector NGOs

*Adams, Ellis A (Michigan Technological University), Kathleen Halvorsen*

When Rigidity Undermines Resilience: Maladaptive Systems and Implications for SIDS Water Management and Public Health

*Neff, Brian P (St. George's University)*

Towards a Synthesis: Lessons from the Thirteen CEAP Projects

*Woods, Brad R (The Pennsylvania State University), A E Luloff, Deanna L Osmond, Dana L Hoag*

### **H2. Assessing Public Priorities, Motivation and Participation**

**Room: Capitol View**

**Chair: Tiffany K Espinosa**

Watchdogs and Collaborators: How the Participants' Context Shapes Public Participation.

*Garcia, Cassandra (University of Wisconsin-Madison)*

Influences of Motivations on Enduring Involvement, Commitment, Loyalty, and Participation in Environmental Volunteering

*Asah, Stanley T (University of Washington), Dale Blahna, David W French*

Public Priorities for Rangeland Management: A Longitudinal Study of Citizens in the Great Basin

*Gordon, Ryan P (Oregon State University), Bruce Shindler, Mark Brunson*

Norm Activation, Environmental Value Orientation and Ecological Behavior

*Espinosa, Tiffany K (Colorado State University, USA), Jerry J Vaske, Maarten H Jacobs*

### **H3. Innovations in Interdisciplinary Teaching in Society and Natural Resources (Panel)**

**Room: Inn Wisconsin East**

**Organizer: Courtney G Flint**

*Courtney Flint (University of Illinois at Urbana-Champaign)*  
*Erik Backlund (St Lawrence University)*  
*Alan Barton (Delta State University) & Reid Bishop (National Audubon Society)*  
*Toddi Steelman (North Carolina State University)*  
*Naomi Krogman (University of Alberta)*

### **H4. Visitation in National Parks and Recreational Areas**

**Room: Old Madison East**

**Chair: Chelsey A Walden-Schreiner**

Developing Recreational Activity and National Trail Guidelines for Canada's National Parks, National Historic Sites and National Marine Conservation Areas

*Schmidt, Mark (Visitor Parks Canada), Diane Wilson, Ed Jagger, Julie Lefebvre*

Changing Visitation Patterns to U.S. National Parks

*Kuentzel, Walter F (University of Vermont), Thomas A More, Michael Schuett, Tom Stevens, Susan I Stewart*

The Relationship Between Destination Personality and the Product of Visual Culture.

*Chou, Pei-yi (National Taipei University of Education), Shen Li, Yu-Ling Chou*

Developing a Methodology for Characterizing Visitor Use of Informal Trails in Yosemite Meadows

*Walden-Schreiner, Chelsey A (North Carolina State University), Yu-Fai Leung, Todd Newburger*

### **H5. Assessing Environmental Values and Behaviors**

**Room: Old Madison West**

**Chair: Thomas H Beery**

Urban Forest Values in Canada: Integrated Research Findings

*Ordonez, Camilo (Dalhousie University), Peter Duinker, Shawna Peckham*

Neighbourhood Matters: A Cluster Analysis of Sustainable Household Behaviours.

*Kennedy, Emily H (University of Alberta), Naomi T Krogman, Harvey Krahn*

Materialism and Post-Materialism: Questions of Theory, Development, and Valuation of the Environment

*Walton, Tobin N (University of Tennessee)*

Exploring the Relationship Between Friluftsliv and Environmental Connectedness

*Beery, Thomas H (University of Minnesota Duluth)*

# • International Symposium on Society and Resource Management •

**Tuesday**  
**1:15pm - 2:30pm**

## Concurrent Session Detail (cont'd)

<b>H6. Agriculture Related Production Systems</b>  <b>Room: On Wisconsin A - Red Gym</b>  <i>Chair: Kevin A Lynn</i>	Identifying the Barriers and Bridges to High Tunnel/BDM Production Systems Among Specialty Crop Producers and Other Stakeholders  <i>Jones, Robert E (University of Tennessee), Annabel Kirschner, Jenna Lamphere, Andrew Corbin, Annette Wszelaki , Wallace, Russ, Elizabeth Malayter, Amy Basinger, Debbie Inglis, Carol Beus, Curt Beus</i>	The Value of Ecosystem Services Provided by Insect Pollinators in Iran  <i>Mousaei Sanjerehei, Mohammad (Islamic Azad University, IRAN)</i>	Not Just an Input: Florida Phosphate Miners Talk about Their Jobs and the Environment  <i>Lynn, Kevin A (University of Florida)</i>	
<b>H7. Methods and Techniques in Environmental Management and Planning</b>  <b>Room: On Wisconsin B - Red Gym</b>  <i>Chair: Ling-yu Su</i>	Is Bayesian Decision Network Analysis a Useful Addition to the Social Researcher’s Toolkit?  <i>Curtis, Allan L (Charles Sturt University), Jennifer Ticehurst</i>	Electronic Public Participation: Issues in Effectiveness and Equity  <i>Parker, Lisa D (Michigan State University), Dori M Pynnonen, Dennis B Propst, David M Dilworth</i>	GI & Social Web Applications for eParticipation 2.0 in the Spatial Planning Process  <i>Hennig, Sabine (Austrian Academy of Sciences), Thomas Jekel, Robert Vogler</i>	Examining Halo Effect Between Place Bonding and Landscape Preference  <i>Su, Ling-yu (National Taiwan University), Jia-Kun Jheng</i>
<b>H8. Protected Areas Management</b>  <b>Room: On Wisconsin C - Red Gym</b>  <i>Chair: Neil H Carter</i>	Poverty and Protected Areas – Case study from NP Kopaonik, Serbia  <i>Tomicevic, Jelena T (University of Belgrade), Ivana Bjedov, Margaret A Shannon</i>	Meaning of Zoning in Protected Area Management  <i>Ito, Taiichi (University of Tsukuba), Motoko Oyadomari</i>	Impacts of Decentralized Natural Resource Management on Land-Cover and Land-Use Around a Protected Area in Nepal  <i>Carter, Neil H (Michigan State University), Andres Vina, Jianguo Liu, Dharma Dangol, Binoj Shrestha</i>	
<b>H9. Climate Science Policy and Discourse</b>  <b>Room: Roundtable</b>  <i>Chair: Abigail M Rhodebeck</i>	The Creation of Clean Coal: An Analysis of Claims by Fossil Fuels Industries in Climate Change Discourse  <i>East, Elizabeth A (University of Tennessee-Knoxville), Robert E Jones</i>	Science Policy, Public Participation, and Climate Change: Effective Development and Use of Scientific Information in Policy Making.  <i>Singh, Ajay (The Ohio State University)</i>	Content Analysis of Media Reports of Climate Change: Implications for Agenda-Setting in Public Policy  <i>Rhodebeck, Abigail M (The Ohio State University), Eric Toman</i>	

# • International Symposium on Society and Resource Management •

## Concurrent Session Detail (cont'd)

**Tuesday**  
**3:00pm - 4:15pm**

### 11. *Issues in Sustainable Tourism and Recreational Development*

**Room:** Beefeaters

**Chair:** Jeffrey C Skibins

Sustainable Tourism and Collective Action in Rural Areas

Hwang, Doohyun (University of Illinois at Urbana-Champaign), William Stewart, Dong-wan Ko

Mitigating Human Waste Problems in Wildland Settings: A Fossil Creek Case Study

Anderson, Emily J (Northern Arizona University), Marty Lee

Is Souvenir Authenticity Important for Sustainable Tourism Destination?

Chen, Ying-Yu (National Taipei University of Education), Chia-Kuen Cheng, Li Shen, Wen-Chi Heish

Proving Tilden: Uncovering Empirical Support for Interpretation's Best Practices

Skibins, Jeffrey C (Clemson University), Robert B Powell, Marc J Stern

### 12. *Stakeholder Perspectives on Conservation and Natural Resource Policy*

**Room:** Capitol View

**Chair:** Robert A Smail

Using Stakeholder Input to Improve Community Planning Research

Plowden, Jennifer A (University of Maine), Kathleen P Bell

Constraints and Opportunities for Natural Resource Policy: A Comparative Analysis of Collective Efforts Among 'Unlikely Partners' in Minnesota

Kim, Maria D (University of Wisconsin--Madison)

Knowledge and Attitudes of Municipal Planning Commissioners Toward Conserving Natural Resources Through Local Land Use Decisions in Northeastern Pennsylvania

Wolyniak, Brian J (The Pennsylvania State University), William F Elmendorf

Connecting Policy to Practice: A Network Analysis of Wisconsin's Agricultural Nonpoint Policies

Smail, Robert A (University of Wisconsin)

### 13. *Teaching Sustainability (Panel)*

**Room:** Inn Wisconsin East

**Organizer:** Courtney G Flint

Tom Beckley (University of New Brunswick)  
Joan Brehm (Illinois State University)  
Brian Eisenhauer (Plymouth State University)  
Carla Trentelman (Weber State University)

### 14. *Community-Based Natural Resource Management*

**Room:** Inn Wisconsin West

**Chair:** Chiranjibi P Upadhyaya

Measuring Good Governance in Community Based Forest Management

Pokharel, Ridish K (Institute of Forestry), Achyut R Gyawali, Ram L Yadav

Following the Trends and Themes of 30 Years of Research on Nepal's Community Forestry

Roka, Krishna (Pennsylvania State University)

Sustainability Through Democratic Freedom in Community Based Natural Resources Management Institutions in Nepal

Upadhyaya, Chiranjibi P (Institute of Forestry), Puspa KC Bhandari, Krishna P Dahal, Ram L Yadav

### 15. *Transnational Capital, Natural Resources, and Rural Livelihoods in International Comparative Perspective*

**Room:** Old Madison East

**Organizers:** Michael L Dougherty, Al Gedicks,

"Sketching the New Extraction: Firm Differentiation, Rent Seeking, and the Global Gold Mining Industry"

Dougherty, Michael L (University of Wisconsin-Madison)

Transnational Mining Investment vs. National Sovereignty: The Role of Free Trade Agreements

Gedicks, Al (University of Wisconsin—Madison)

Preaching to Acquire: The Discourses and Practices of Farmland Finance and the Global "Farmland Grab"

Fairbairn, Madeleine (University of Wisconsin - Madison)

**Concurrent Session Detail (cont'd)**

**Tuesday  
3:00pm - 4:15pm**

*16. Building Bridges for  
Climate Readiness -  
Using a Place-Based  
Reserve System to  
Integrate Social and  
Ecological Sciences  
(Panel)*

*Room: Old Madison  
West*

*Organizers: Alison J  
Krepp, Dr. Patrick  
Robinson, Heather Elmer*

Allison J Krepp (NOAA)

Patrick Robinson (University of Wisconsin—Extension)

Heather Elmer (Ohio Department of Natural Resources)

*17. Engaging  
Landowners in  
Conservation and  
Resource Management*

*Room: On Wisconsin A  
- Red Gym*

*Chair: Jacob T Hendee*

Connecting Central Wisconsin  
Grassland Through a Private/  
Public Partnership

*Nemec, Caitlynn T (University of  
Wisconsin Madison)*

Disproportionality and Spatial  
Decision Making: The Role of  
Landowner Attitudes in Targeting  
Conservation Efforts

*Thompson, Aaron W (University  
of Wisconsin - Stevens Point),  
Linda S Prokopy*

Applying a Cultural Ecosystem  
Service Approach to Private  
Forest Management

*Hendee, Jacob T (University of  
Illinois at Urbana-Champaign),  
Courtney G Flint*

*18. Communication and  
Trust in Resource  
Management and  
Planning*

*Room: On Wisconsin C  
- Red Gym*

*Chair: Todd A Bryan*

Translating Trust in Australian  
NRM Settings: Can Lessons  
Learned About Building  
Community-Agency Trust in  
Wildfire Management be Applied  
to Water Reform and Planning  
Processes?

*Sharp, Emily A (Charles Sturt  
University), Allan Curtis*

Investigating the Role of  
Identities and Opinion Leadership  
on Risk Information Seeking and  
Sharing about Proposed Natural  
Gas Drilling in New York's  
Marcellus Shale

*Clarke, Chris (Cornell University),  
Katherine McComas*

Aligning Identity: Social Identity  
and Changing Context in  
Community-based  
Environmental Conflict

*Bryan, Todd A (The Keystone  
Center)*

*19. Nature Spaces*

*Room: Roundtable*

*Chair: Richard L Gage*

Are Nature Centers Relevant in  
the 21st Century?

*Higgins, Marian E (Texas A&M  
University)*

Fostering Environmental  
Stewardship of Urban  
Greenspaces: A Master  
Naturalists Case Study

*Halpenny, Elizabeth A (University  
of Alberta)*

Comparison Between Taichuang  
City and Chiayi City Regarding  
Children's Outdoor Play Activities  
and Consciousness of Play Spaces  
in Taiwan

*Shuo-Wen, Tseng (Landscape  
National Chiayi University), Tsai  
Hui-Chun*

The Role of Community Gardens  
in Recreation, Education, and  
Community Development

*Gage, Richard L (The  
Pennsylvania State University),  
Albert E Luloff*



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## Daily Overview: Wednesday

<b>7:30am - Noon</b>	<b>Registration</b>	<b>Annex</b>
<b>8:00am - 2:00pm</b>	<b>Exhibitors</b>	<b>Main Lounge</b>
<b>8:00am - 9:15am</b>	<b>Concurrent Sessions</b>	
J1. Green House Gas Emissions Interventions		Beefeaters
J2. Multifunctional Agriculture and Agro-Ecology Initiatives		Capitol View
J3. North American Conservation Model Part 1: Perspectives and prospects on Sustainability of the NACM and hunting		Inn Wisconsin East
J4. Disciplinary expertise or interdisciplinary integration: Seeking an optimal balance in teaching and scholarship related to the social dimensions of the environment and natural resources		Inn Wisconsin West
J5. Transportation and Parks		Old Madison East
J6. Bill Freudenburg Legacy Part 1: Risk and Recreancy		Play Circle Theater
J7. Public Involvement and Collaboration in Environmental Decision Making & Policy		Roundtable
<b>9:30am - 10:45am</b>	<b>Concurrent Sessions</b>	
K1. Theoretical Developments in Environmental Public Engagement		Beefeaters
K2. Community Resiliency in Response to Coastal Risks and Conditions		Capitol View
K3. North American Conservation Model Part 2: Adaptation and Re-branding Conservation and Hunting		Inn Wisconsin East
K4. Inside the natural resource bureaucracy: Institutional theories of the effect of bureaucratic organization on natural resource management Part 1		Inn Wisconsin West
K5. Collaboration in the U.S.		Old Madison West
K6. Bill Freudenburg Legacy Part 2: Bureaucratic Slippage, Disproportionality & the Growth Machine		Play Circle Theater
K7. Place Meaning and Avoidance		Roundtable
<b>10:45am - 11:15am</b>	<b>Coffee Break</b>	<b>Main Lounge</b>
<b>11:15am - 12:30pm</b>	<b>Concurrent Sessions</b>	
L1. Using Social Science Research to Improve Landscape Sustainability in Florida.		Beefeaters
L2. Payments and Markets for Ecosystem Services		Capitol View
L3. Nature, Outdoor Experiences and Wellness		Inn Wisconsin East
L4. Innovative Strategies in International Resource Management		Inn Wisconsin West
L5. Fisheries and Marine Protected Areas		Langdon
L6. Alternative Energy and Society		Old Madison East
L7. Catalysts for Water Resources Protection and Restoration		Old Madison West
<b>12:45pm - 2:00pm</b>	<b>W1. Roundtable Lunch (bring your own lunch)</b>	<b>Play Circle Theater</b>
	Mel Knight and George Meyer	
	Integrated Conservation and Sustainable Development in Alberta and Wisconsin	

## Daily Overview: Wednesday

2:00pm - 3:15pm

### Concurrent Sessions

- M1. Spatial Analysis and Methods
- M2. Moose and Black Bear Management
- M3. Engaging Local People in Conservation
- M4. Assessing Community Resiliency
- M5. Interaction Among Landowners and Managers
- M6. Public Perceptions of Ecosystem Services

Beefeaters  
Inn Wisconsin East  
Inn Wisconsin West  
Langdon  
Old Madison East  
Old Madison West

2:00pm - 5:00pm

### Exhibit Take-down



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# • International Symposium on Society and Resource Management •

Wednesday  
8:00am - 9:15am

## Concurrent Session Detail (cont'd)

<b>J1. Green House Gas Emissions Interventions</b>	Prized-based Contingency Management: A Vehicle Miles of Travel Reduction Intervention	Slowing Deforestation by Supporting Indigenous Forest Governance in the Context of REDD	Facilitating Carbon Market Participation for Small Scale and Community-Based Forestry Projects	Assessing the Potential for Developing Urban Forestry Carbon Offset Projects in the Southern U.S.
<b>Room: Beefeaters</b>				
<b>Chair: J.M. Bowker</b>	Marquit, M.S., Joshua D (Utah State Univeristy), Richard N Roberts, Ph.D., Jamison D Fargo	Nielsen, Erik A (Northern Arizona Universtiy), Spencer T Plumb	Danks, Cecilia (University of Vermont), Rachael Beddoe, Elise Schadler, Jennifer Wright	Bowker, J.M. (USDA Forest Service), Jacek Siry, Pete Bettinger, Krista Merry

<b>J2. Multifunctional Agriculture and Agro-Ecology Initiatives</b>	Working Grasslands in the Corn Belt: A Case Study of Stakeholder Strategies for Communicating the Value of Multifunctional Grazing in Iowa	Social Networks as Differential Drivers in Conventional and Multifunctional Agricultural Grazing Systems	The Landscape Agroecology Approach to Conservation: Recognizing the Multifunctionality of Midwestern 'Monoculture'	
<b>Room: Capitol View</b>				
<b>Chair: Noelle M Harden</b>	Petrehn, Mae R (Iowa State University)	Nelson, Kristen C (University of Minnesota, Twin Cities), Rachel F Brummel	Harden, Noelle M (University of Wisconsin - Madison), Loka L Ashwood	



<b>J3. North American Conservation Model Part 1: Perspectives and prospects on Sustainability of the NACM and hunting</b>	Perspective: A Short History of the North American Conservation Model	Public Attitudes Towards Hunting	Declining Participation in White-Tailed Deer Hunting: An Evaluation of Potential Conservation Impacts	Improving Hunter Recruitment and Retention
<b>Room: Inn Wisconsin East</b>	Stark, Randy (Wisconsin Department of Natural Resources)	Ryan, Elizabeth (University of Wisconsin - Madison), Bret Shaw	Warnke, Keith (Wisconsin Department of Natural Resources), Richelle Winkler	Shaw, Bret (University of Wisconsin - Madison), Elizabeth L Ryan
<b>Organizer: Keith Warnke</b>				

**J4. Disciplinary Expertise or Interdisciplinary Integration: Seeking an Optimal Balance in Teaching and Scholarship Related to the Social Dimensions of the Environment and Natural Resources (Panel)**

**Room: Inn Wisconsin West**

**Organizers: Eric L Toman, Jeff Sharp, Jeremy Bruskotter, John Heywood**

Mark Brunson (Utah State University)  
Stephen Gasteyer (Michigan State University)  
Eric Toman (Ohio State University)

<b>J5. Transportation and Parks</b>	Assessing the Demand for Park Shuttle Services	Travel Mode Choice at Yosemite National Park: A Stated-Preference Study With and Without an Environmental Message	Indicators and Standards of Quality for Transportation in Park and Tourism Settings: Differences by Trip Purpose and Travel Context	
<b>Room: Old Madison East</b>				
<b>Chair: Laura E Anderson</b>	Le, Yen (University of Idaho)	Pettengill, Peter R (University of Vermont), Robert E Manning, William Valliere	Anderson, Laura E (University of Vermont), Robert E Manning, Peter R Pettengill, Nathan P Reigner, William A Valliere	

**Concurrent Session Detail (cont'd)**

**Wednesday  
8:00am - 9:15am**

*J6. Bill Freudenburg  
Legacy Part 1: Risk  
and Recreancy*

*Room: Play Circle  
Theater*

*Organizer: Tom Beckley*

Trust During Rapid Community  
Change: Residents' Experiences  
in the Early Stages of Marcellus  
Shale Natural Gas Development

*Brasier, Kathryn J (Penn State  
University), Matthew R Filteau,  
Diane K McLaughlin, Jeffrey  
Jacquet, Richard C Stedman*

Recreancy Revisited:  
Responsibility, Will, and  
Competence in the Context of  
the Exxon Valdez and BP Oil  
Disasters

*Ritchie, Liesel A (University of  
Colorado), Duane A Gill*

Recreancy and Resource  
Management: A Mixed-Methods  
Analysis of Trust and Civic Action

*Smith, Jordan W (North Carolina  
State University), Jessica E Leahy,  
Dorothy H Anderson, Mae A  
Davenport*

*J7. Public Involvement  
and Collaboration in  
Environmental Decision  
Making & Policy*

*Room: Roundtable*

*Chair: James G Cantrill*

Will Public Involvement Lead to  
Meaningful Decision-Making?  
Studying the Social Impacts of  
Environmental Planning through  
the Public Participation Process

*Vowels, Bradley T (University of  
Wisconsin - Madison)*

A Longitudinal Study of Citizen-  
Agency Collaboration: Influences  
on the Northeast Washington  
Forestry Coalition 2004-2010

*Maier, Carolin (Oregon State  
University), Bruce Shindler, Linda  
Kruiger*

Public Influence in USDA Forest  
Service NEPA Processes

*Hoover, Katherine (Virginia  
Polytechnic Institute & State  
University), Marc J Stern*

Using Cultural Identifications and  
Place-Based Sustainability  
Initiatives to Promote Land-Use  
Conservation Practices

*Cantrill, James G (Northern  
Michigan University)*



Photo courtesy of Gene F Summers

# • International Symposium on Society and Resource Management •

Wednesday  
9:30am - 10:45am

## Concurrent Session Detail (cont'd)

### K1. Theoretical Developments in Environmental Public Engagement

Engaging the Public in Scientific Research for Natural Resource Management

A Theoretical Framework for the Creation of "Stewardship-Promotive" Urban Environments

Projecting the Future? An Investigation into the Role of Environmental Sustainability in Mainstream Cinema

Room: Beefeaters

Domroese, Meg (Center for Biodiversity and Conservation, American Museum of Natural History), Heidi L Ballard, Jennifer L Shirk, Eleanor J Sterling, Rick Bonney, Braus, Judy

Moskell, Christine S (Cornell University)

Piggot, Georgia J (University of British Columbia)

Chair: Georgia J Piggot

### K2. Community Resiliency in Response to Coastal Risks and Conditions

The Ninety-Day Storm: Mississippi Community Response to the Deepwater Horizon Oil Spill

Prioritizing Indicators to Assess Well-being in Response to Disrupted Ecosystem Services: A Workshop on Community Well-being and the Deepwater Horizon Disaster

Intensifying Runoff and Comprehensive Flood Control Involving Citizens in a Japanese Watershed

Using Integrated Assessment Methodology to Bring Resiliency to Great Lakes Coastal Communities

Room: Capitol View

Chair: Daniel T McCole

Gordon, Jason S (Mississippi State University), A. E Luloff

Goedeke, Theresa L (Center for Coastal Monitoring and Assessment, NOAA National Ocean Service), Susan Lovelace, Maria Dillard

Yamashita, Sampei (Kyushu Sangyo University), Yukihiro Shimatani, Ryoichi Watanabe, Toshiyuki Moriyama, Tomoko Minagawa, Yamashita, Terukazu

McCole, Daniel T (Michigan State University), Christine Vogt

### K3. North American Conservation Model Part 2: Adaptation and Re-branding Conservation and Hunting

Sustainable Hunting and the Hunter Conservationist

Rebranding Hunting as Good Stewardship

Malcolm, Karl (University of Wisconsin - Madison)

Holsman, Robert (University of Wisconsin - Stevens Point), Jordan Petchenik

Room: Inn Wisconsin East

Organizer: Keith Warnke

Panel Discussion Follows Paper Presentations

### K4. Inside the Natural Resource Bureaucracy: Institutional Theories of the Effect of Bureaucratic Organization on Natural Resource Management Part 1

The Paradox of Bureaucratic Discretion: Use of Wetland Value Estimates by Federal Regulators

Evaluating the USFS State & Private Forestry Redesign Program: A First Look at Policy Implications

Understanding the Role of Public Involvement in Forest Management: A Comparative Analysis of Ecosystem Management and Joint Forest Management

When Does Institutional Robustness Inhibit Adaptation to New Conditions? Case Studies of Institutional Change and Resistance in Central Indian Forest Management

Room: Inn Wisconsin West

Organizers: Gwen Arnold, Forrest Fleischman

Arnold, Gwen (Indiana University)

Cox, Michael (Indiana University), Burney Fischer, Sarah Mincey, Tatyana Ruseva, Sergio Villamayor Tomas

Gupta, Divya (The Ohio State University), Tomas M Koontz

Fleischman, Forrest D (Indiana University)

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## Concurrent Session Detail (cont'd)

Wednesday  
9:30am - 10:45am

<p><b>K5. Collaboration in the U.S.</b></p> <p><i>Room: Old Madison West</i></p> <p><i>Chair: Patricia B Orth</i></p>	<p>Toward Integrated Wetland Conservation: A Diagnostic Framework</p> <p><i>Magyera, Kyle H (University of Wisconsin-Madison), Kenneth D Genskow</i></p>	<p>A Collaborative Process Gone Wild!</p> <p><i>Surface, Heather M (Michigan State University), Maureen McDonough, Georgia Peterson</i></p>	<p>Responding to Forest Catastrophe in Southern California: A New Approach for Interagency Collaboration and Management</p> <p><i>Petersen, Brian C (Michigan State University)</i></p>	<p>Sustaining Collaborative Outcomes: Organizational Change and Adaptation in Response to Collaborative Conservation Efforts</p> <p><i>Orth, Patricia B (Colorado State University)</i></p>
<p><b>K6. Bill Freudenburg Legacy Part 2: Bureaucratic Slippage, Disproportionality &amp; the Growth Machine</b></p> <p><i>Room: Play Circle Theater</i></p> <p><i>Organizer: Tom Beckley</i></p>	<p>The Growth Machine and the Everglades: Expanding a Useful Thesis</p> <p><i>Gramling, Bob (University of Louisiana at Lafayette), William R Freudenburg</i></p>	<p>Determinants of Farmer Attitudes Toward Targeted Conservation Approaches</p> <p><i>Arbuckle Jr., J. G (Iowa State University)</i></p>	<p>The Cost of Wetland Loss: Bureaucratic Slippage and Wetland Compensation in Alberta</p> <p><i>Clare, Shari (University of Alberta), Naomi Krogman, Lee Foote</i></p>	
<p><b>K7. Place Meaning and Avoidance</b></p> <p><i>Room: Roundtable</i></p> <p><i>Chair: David B Klenosky</i></p>	<p>Exploring Character and Meaning of Nostalgic Landscape: A Comparison Study between Young and Mature Generations in Taiwan</p> <p><i>Hung, Wei Shan (Department of Horticulture, Taiwan), Hui-Mei Chen</i></p>	<p>Experiences and Visions of Vermont landscapes: A Case Study of Bosnian Immigrants in Chittenden County, Vermont</p> <p><i>Derrien, Monika M (University of Vermont), Patricia A Stokowski</i></p>	<p>Comparing Outdoor Recreation Place Narratives using Linguistic Structural Analysis</p> <p><i>Stokowski, Patricia A (University of Vermont)</i></p>	<p>Place Visitation, Place Avoidance and Attitudinal Ambivalence in Urban Recreation Settings</p> <p><i>Klenosky, David B (Purdue University), Cherie L Fisher, Herbert W Schroeder, Christine A Vogt</i></p>



**Concurrent Session Detail (cont'd)**

**Wednesday  
11:15am - 12:30pm**

**L1. Using Social Science Research to Improve Landscape Sustainability in Florida.**

**Room: Beefeaters**

**Organizer:** Paul F Monaghan

Homeowner Landscaping Choices and the Environmental Sustainability of Stormwater Ponds

Monaghan, Paul F (University of Florida), Gail Hansen, Shangchun Hu, Michelle Atkinson

Uncovering the Barriers to Changing Homeowner Landscaping Practices That Lead to Environmental Degradation

Israel, Glenn D (University of Florida), Jessica L Kochert, Sally A Scalera, Paul F Monaghan

The Demand for More Sustainable Landscapes by Alachua County residents

Kochert, Jessica L (University of Florida), Wendy L Wilbur, Emily Ott, Paul Monaghan

**L2. Payments and Markets for Ecosystem Services**

**Room: Capitol View**

**Chair:** Julia Baird

Public Willingness to Participate in an Auction for Forest Ecosystem Services: A Focus Group Analysis in Washington State.

Roesch, Gabrielle E (University of Washington)

Redefining Payments for Environmental Services

Tacconi, Luca (The Australian National University)

Civil Society as a Steward for the Provisioning of Ecosystem Services

Sattler, Claudia (Leibniz-Centre for Agricultural Landscape Research (ZALF)), Bettina Matzdorf, Sarah Schomers

Social Norms and Values in Agricultural Water Quality Management

Baird, Julia (University of Saskatchewan), Ken Belcher, Mike Quinn

**L3. Nature, Outdoor Experiences and Wellness**

**Room: Inn Wisconsin East**

**Chair:** David W Marcouiller

Exploring the Factors Influencing Landscape Perceived Naturalness

Cheng, Chia-Kuen (National Taiwan University), Yu-Hsuan Huang, Li Shen

The Relationship Between Forest Experience and Cognitive Function

Shin, Won Sop (Chungbuk National University), Changseob Shin, Pounsik Yeoun

Strong Roots: How Trees and Forests are Embedded in Peoples' Lives Beyond Environmental and Economic Benefits.

Pynnonen, Dori M (Michigan State University), Laurie M Schoonhoven

Public Health and Wellness Outcomes and Their Relationship with Outdoor Recreation Sites and Demands: A Spatial County-Level SCORP Assessment for Wisconsin

Marcouiller, David W (University of Wisconsin - Madison), Jeffrey Prey, Austin Outavong

**L4. Innovative Strategies in International Resource Management**

**Room: Inn Wisconsin West**

**Chair:** Michael M Bell

Diet of Conscience: Philanthro-Capitalism and the Alliance for a Green Revolution in Africa

Leebrick, Rhiannon A (University of Tennessee)

Environmental and Economic Evaluation Of Ethanol Production From Forest Grass Biomass as Poverty Reduction and Sustainable Energy Initiative in India

Kukrety, Sidhanand (University of Florida), Janaki R Alavalapati, Shibu Jose

Greening the Commons: Grazing, Livelihood, and Land Tenure in South Africa's Eastern Cape

Bell, Michael M (University of Wisconsin), William L Bland, Richard L Cates, Steve Ventura

**Concurrent Session Detail (cont'd)**

**Wednesday  
11:15am - 12:30pm**

**L5. Fisheries and  
Marine Protected Areas**

**Room: Langdon**

**Chair: Chaya C  
Sarathchandra**

Small-Scale Fishing Communities  
with Marine Protected Area in  
Cebu Province, Philippines:  
Welfare and MPA Management

**Ontoy, Dexter S (Cebu Normal  
University)**

Discourses of Resistance and  
Accommodation in Stories of  
Salmon Farming in Southern  
Chile, 1980-2009

**Gerhart, Andrew W (Stanford  
University)**

Conservation of Chilaw -  
Pambala Mangrove Ecosystem in  
Sri Lanka Through Community  
Participation.

**Sarathchandra, Chaya C  
(Rajarata University)**

**L6. Alternative Energy  
and Society**

**Room: Old Madison  
East**

**Chair: Weston M Eaton**

The Social Potential for  
Developing Alternative Bioenergy  
Markets in the Midwest: A Tale of  
Three Feedstocks

**Tyndall, John C (Iowa State  
University), Tricia G Koot**

Green Energy Development in  
Rural Landscapes: The Evaluation  
of a Successful Unsubsidized  
Market-Based Solar Development  
Model in Laikipia District, Central  
Kenya

**Wambuguh, Oscar (California  
State University, East Bay)**

Social Impacts of Wind Farms in  
Indiana

**Mulvaney, Kate K (Purdue  
University), Patrick Woodson,  
Linda S Prokopy**

Framing Bioenergy:  
Understanding Contending  
Rationalities in the Contest Over  
Wood-for-Energy.

**Eaton, Weston M (Michigan State  
University)**

**L7. Catalysts for Water  
Resources Protection  
and Restoration**

**Room: Old Madison  
West**

**Organizer: Linda S  
Prokopy**

A Typology of Catalyst Events for  
Water Resource Management

**Prokopy, Linda S (Purdue  
University), Kathy Brasier,  
Nathan Mullendore**

The Influence of Local  
Governance on Watershed  
Management in Minnesota:  
Capacities, Constraints, and  
Catalysts of Change

**Davenport, Mae A (University of  
Minnesota), Amit K  
Pradhananga, Amanda Sames**

How Floods, Some Dams, and a  
Settlement Changed an Aquifer:  
Socio-Technology History and  
Catalysts of Water Management  
Paradigms

**Gasteyer, Stephen P (Michigan  
State University)**

Agency as Catalyst: Wisconsin's  
Basin Partnerships

**Genskow, Ken D (University of  
Wisconsin-Madison)**



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## Concurrent Session Detail (cont'd)

Wednesday  
2:00pm - 3:15pm

<b>M1. Spatial Analysis and Methods</b>  <b>Room: Beefeaters</b>  <b>Chair: Chad D Pierskalla</b>	A Spatial Method for Monitoring Indicators of Visitor Use and Experiential Quality in Parks  Reigner, Nathan (University of Vermont), Jeremy Wimpey, Robert Manning, Bret Meldrum	Classifying Urban Forests and Greenspaces as Physical Health Resources Using Google Earth and Landsat Imagery  Tsai, Wei-Lun (North Carolina State University), Yu-Fai Leung, Melissa R McHale, Myron F Floyd	Developing Scenic Beauty Maps of an Urban Forest Using Moment-to-Moment Derived Data and GIS  Pierskalla, Chad D (West Virginia University), Jinyang Deng, Jason M Siniscalchi	
<b>M2. Moose and Black Bear Management</b>  <b>Room: Inn Wisconsin East</b>  <b>Chair: Devyani Singh</b>	Moose Hunters' Adaptation to Ecosocial Fragmentation: A Case Study around Nuukio National Park in Helsinki Metropolitan Area, Finland  Pellikka, Jani (University of Eastern Finland), Juha Hiedanpää	Reconciling Local Control with Landscape-Level Management: Nested Institutions for Moose Management in Norway  Hoffman, Matthew D (Cornell University), Bjørn Egil Flø	Stakeholder Attitudes Toward Black Bear in Occupied Range in Louisiana  Darville, Ray (Stephen F. Austin State University), Pat Stephens Williams, Chelsea Peterson, Mike Legg, Maria Davidson	Social and Cognitive Predictors of the Acceptability of Black Bear Management  Singh, Devyani (The Ohio State University), Ryan Zajac, Jeremy Bruskotter, Suzie Prange
<b>M3. Engaging Local People in Conservation</b>  <b>Room: Inn Wisconsin West</b>  <b>Chair: John D Fort</b>	Questioning the "Success" of Annapurna Conservation Area: An Examination of Participation of Marginal Groups in Conservation  Dahal, Smriti (Texas A&M University)	Alaska Natives and Conservation Planning: A Recipe for Meaningful Participation  Brooks, Jeffrey J (National Wildlife Refuge System, Alaska Region, U. S. Fish and Wildlife Service), Melanie B Jacobs	Conservation of Medicinal Plants Through Community Participation; A Case Study in Kumbiyangoda in Matale District.  Herath, Ishika M (Rajarata University of Sri Lanka)	The Role of the Environment in the Decision to Pursue an Illegal Forest Livelihood Activity  Fort, John D (University of Florida)
<b>M4. Assessing Community Resiliency</b>  <b>Room: Langdon</b>  <b>Chair: Elise R Benveniste</b>	Maelstrom in the Mountains: Conflict and Resilience in Eastern Afghanistan  Ingalls, Micah L (Natural Cornell University), Richard C Stedman	Civic Environmentalism To Promote Healthy Social Structure in Deteriorated Neighborhoods  Elmendorf, William F (Penn State University)	Adaptive Management for Urban Abandonment: Resiliency in the Shrinking City of Flint  Benveniste, Elise R (Michigan State University)	
<b>M5. Interaction Among Landowners and Managers</b>  <b>Room: Old Madison East</b>  <b>Chair: Amanda M Kueper</b>	The Social Networks of Professionals Foresters in a Private Lands Context: The Opportunities and Constraints of Who You Know  Knoot, Tricia G (Iowa State University), Mark Rickenbach	Collaboration and Private Lands - Crossing Geographical and Attitudinal Boundaries  Ferranto, Shasta P (University of California Berkeley), Lynn Huntsinger, Maggi Kelly	Working Forests Within Conservation Easements: Implications for Policy and Cross-Boundary Cooperation  Hill, Richard D (Pennsylvania State University)	Learning From Landowners: Exploring Peer Exchange in the Private Landowner Community Through Organizational Case Studies  Kueper, Amanda M (Extension, University of Minnesota), Eli S Sagor, Dennis R Becker
<b>M6. Public Perceptions of Ecosystem Services</b>  <b>Room: Old Madison West</b>  <b>Chair: Monica Hubbard</b>	Reforestation and Cultural Ecosystem Services in Kona, Hawai'i  Gould, Rachelle K (Stanford University), Nicole M Ardoin, Gretchen C Daily	Ecosystem Services Assessments: A Tool for Identifying Preferences.  Hughes, Courtney K (Alberta Environment)	Water Resources Planning in Oregon: Public's Perception of Risk and Management  Hubbard, Monica (Oregon State University)	

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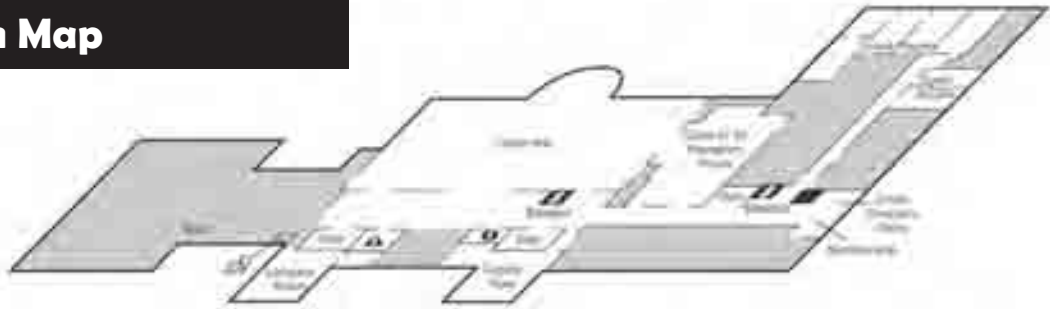


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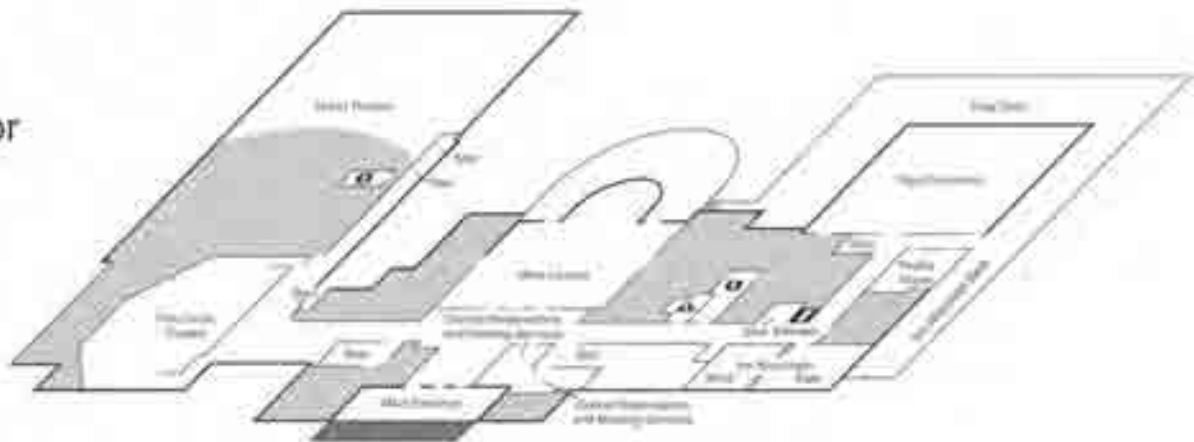


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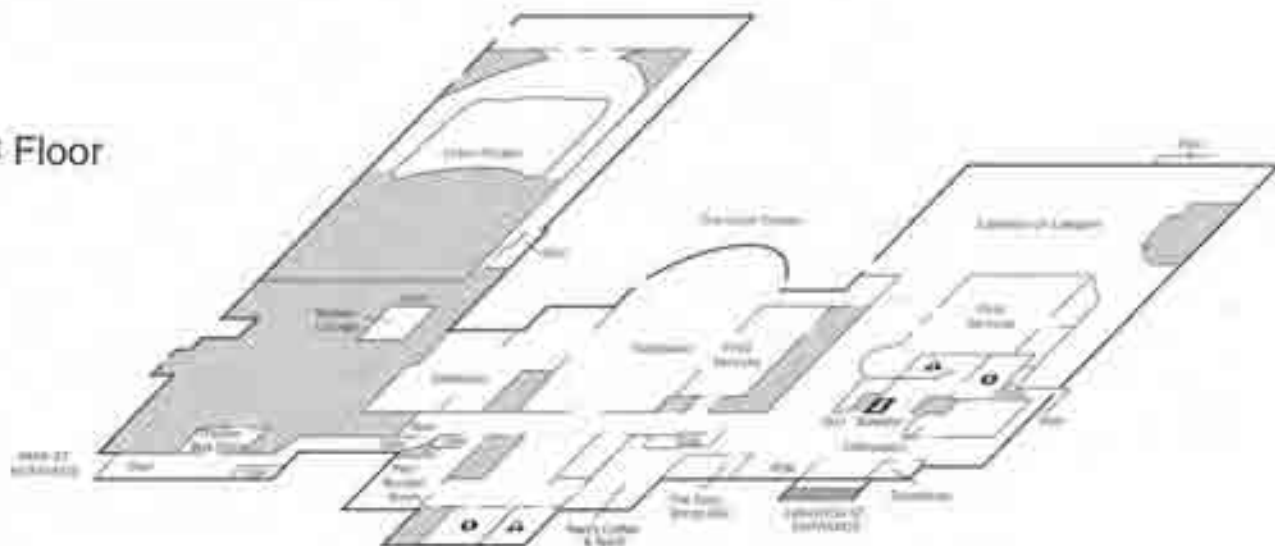


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2nd Floor



1st Floor



# Campus Map

## UNIVERSITY BUILDINGS, ACCOMMODATIONS, & PARKING LOTS

Campus Buildings	Location	Accommodations	Location	Parking Lots	Location
1. Memorial Union	D1	A. Chadbourne / Rheta's Dining Room	D2	W. Lake St. Parking Ramp	E2
2. Red Gym	E1	B. Friedrick Hall	A1	X. Parking Lot 6	D1
		C. Lowell Hall	E1	Y. Parking Lot 46	E2
		D. Ogg Hall	D3	Z. Parking Lot 83	E2
		E. Doubleside Hotel	E2		
		F. Dahlmann Campus Inn	E1		





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