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Welcome to the ISSRM 2015 in Charleston

Dear ISSRM Participants,

On behalf of IASNR and the ISSRM 2015 Organizing Committee, I would like to welcome you to Charleston and the 21st International Symposium for Society and Resource Management! The theme for the meeting this year centers on “Understanding and Adapting to Change,” under which we have four main focus areas to foster rich information sharing and engagement across a diverse range of topics and issue areas:

* Society at the Edge: Changing Ecological Conditions
* Tradition at the Edge: Changing Cultural and Historic Conditions
* Cities at the Edge: Changing Urban Conditions
* Governance at the Edge: Changing Managerial Conditions

Hosted for the first time in the southeastern U.S., the 21st ISSRM offers excellent opportunities to engage with a diverse community of scholars, practitioners, and decision-makers and experience the natural and cultural heritage of the “lowcountry.” Along with the typical complement of activities – e.g., student forum, quizbowl, poster and organized sessions – the 2015 ISSRM will foster creativity and disciplinary integration through a number of thought-provoking plenaries, media presentations, workshops, field excursions, social events, and innovative information exchange formats. We have engaged the international renowned artist Chris Jordan as our Artist-in-Residence for the meeting in an effort to increase dialog and consideration of the important role of creativity, art, and design in science and decision-making. We have excellent plenary sessions targeting changes in culture and governance, as well as a dedicated plenary looking at our increasingly urban world and related issues and opportunities.

With over 500 presentations, a host of interesting sessions, numerous student-oriented events, and wonderful natural and historic surroundings, we are confident that participants will have a wonderful week here in the “Holy City” learning, sharing, and building new associations for years to come.

We look forward to your active participation!

Sincerely,

Thomas E. Fish
Chair, ISSRM 2015 Organizing Committee
Chris Jordan | Artist in Residence

This year we have enlisted the services of an artist-in-residence for the ISSRM to help foster increased consideration and understanding of the important role that creativity, art, and design play in science, problem solving, and decision-making. This idea draws upon the “STEM to STEAM” concept of adding art and design, “A,” into the S.T.E.M. (Science, Technology, Engineering, and Math) equation to enhance scientific and scholarly activities. This also promotes the notion that art, design, and creativity are essential to the conservation enterprise – informing research, education, and the application of usable knowledge to solve complex natural and cultural heritage management problems.

The ISSRM 2015 Organizing Committee worked with Dean of the School of Sciences and Mathematics and the Director and Curator of Education and Public Programs from the Halsey Institute of Contemporary Art to consider how best to incorporate this concept into the program and whom might be a suitable partner to convey this message to ISSRM attendees. We contacted Chris Jordan to discuss our idea and found a strong alignment with our plans and his interests and unique body of work.

The concept of an artist-in-residence is not new; in fact the history of programs extends back to the 1800s. Program focus and participation vary widely, including opportunities to engage artists, scholars, curators, designers, creative thinkers, or other innovative individuals. Artists-in-residence programs also represent a variety of institutions, from museums and galleries to cities or public sector agencies, to studios and theatres, to festivals and events. For the ISSRM, we wanted to provide an opportunity for participants to learn and reflect on the power and influence that art and creativity can have in the research and governance arena.

Often times, an artist-in-residence can foster development of a particular process or approach that can then be perpetuated over time. It is our hope that the involvement of our artist-in-residence throughout the ISSRM program will spur continued interest in the incorporation of creativity, art, and design in applied interdisciplinary science to understand relationships between society and the environment and stewardship of natural and cultural heritage into the future.

Running the Numbers
~an evening with artist Chris Jordan

Internationally acclaimed artist Chris Jordan returns to the Halsey Institute to present his ongoing series of large-scale artworks that explore consumerism and mass culture. Edge waking the lines between horror and beauty, science and art, art and activism, and abstraction and representation, Jordan’s work connects us viscerally with the enormity and power of humanity’s collective shadow. Shown at right is a magnified portion of “Plastic Cups” 2008, which depicts one million plastic cups, the number used on airline flights in the US every six hours.
Since its founding, the College of Charleston has been known for its commitment to the study of and pursuit of new knowledge in the sciences and mathematics. The School of Sciences and Mathematics is proud to carry this tradition into the 21st century with its six award winning departments (Biology, Chemistry & Biochemistry, Computer Science, Geology, Mathematics, and Physics & Astronomy). Besides traditional majors and minors in those departments students can study the environment, computing in the arts, archeology, marine biology, and neuroscience. From the molecular basis of life to supernovae there are opportunities for participating in cutting edge research. The School of Sciences and Mathematics is the #1 source of students for the Medical University of South Carolina and our graduates enroll in top professional and graduate programs around the country.

Master of Science in Environmental Studies Program
An interdisciplinary program provides students with a basic understanding of all the factors affecting their work by giving them a scholastic background in the primary disciplines involved in the environmental field. This understanding compliments students’ areas of specialty, supporting their focus in one discipline with knowledge about other aspects of the field. The Master of Science in Environmental Studies (MES) program prepares students to deal with the complex nature of environmental issues through an interdisciplinary approach that capitalizes on the unique faculty and research strengths of the College of Charleston. The faculty at the College of Charleston contributes through the policy sciences and the natural science areas of biology, geology, mathematics, and physics.

The Halsey Institute of Contemporary Art at the College of Charleston School of the Arts provides a multidisciplinary laboratory for the production, presentation, interpretation, and dissemination of ideas by innovative visual artists from around the world. As a non-collecting museum, they create meaningful interactions between adventurous artists and diverse communities within a context that emphasizes the historical, social, and cultural importance of the art of our time. Their host institution, the College of Charleston, offers extraordinary academic and administrative resources. We interweave the intellectual capital around us into the fabric of our ongoing programming, working with faculty and international colleagues as guest curators, consultants, or advisors on specific projects.

IASNR - International Association for Society and Natural Resources
First came the symposium; once attendees of the early International Symposia on Society and Resource Management (ISSRM) realized the symposia filled a niche, they recommended starting a journal to support international disciplinary research and policy analysis. That journal, Society and Natural Resources, is now in its 23rd year of publication and has grown four issues a year to 12 issues a year. With a symposium and journal in hand attendees urged the formation of a professional association. The resulting organization is the International Association for Society and Natural Resources (IASNR) established in 2001. IASNR is an interdisciplinary professional association open to individuals who bring a variety of social science and natural science backgrounds to bear on research and application strategies pertaining to the environment and natural resource issues. The official meetings, the International Symposia on Society and Resource Management, are held annually.
Conference Planning Committees

Organizing Committee
Thomas Fish, U.S. Department of the Interior, CESU Network & College of Charleston
Timothy Callahan, College of Charleston
Neelam Poudyal, University of Tennessee
Erin Seekamp, North Carolina State University
Jordan Smith, North Carolina State University
Taylor Stein, University of Florida

Conference Coordinators
Lauren Senn, College of Charleston
Malerie Suess, College of Charleston

Scientific Committee
Jennifer Biddle, University of North Carolina Wilmington
Greg Brown, University of Queensland
Mae Davenport, University of Minnesota
Alia Dietsch, The Ohio State University
Maria Dillard, The National Oceanic and Atmospheric Administration
Anja Faße, Leibniz Universität Hannover
Paige Fischer, University of Michigan
Peter Fredman, Norwegian University of Life Sciences
Alan Graefe, The Pennsylvania State University
Geoffrey Habron, Warren Wilson College
Kathleen Halvorsen, Michigan Technological University
Monica Hammer, Södertörn University
Patricia Hania, University of Saskatchewan
Lynne Koontz, National Park Service
Jessica Leahy, University of Maine
Susan Lovelace, South Carolina Sea Grant Consortium
Britton Mace, Southern Utah University
Robert Manning, University of Vermont
Paul Manson, Portland State University
Pamela Mason, Virginia Institute of Marine Science
Ulrike Pröbstl-Haider, BOKU University
John Schelhas, U.S. Forest Service
Mark Shepheard, University of New England
Kate Sherren, Dalhousie University
Derrick Taff, The Pennsylvania State University
Peter Taylor, Colorado State University
Eick von Ruschkowski, Leibniz Universität Hannover
Daniel Williams, U.S. Forest Service
Richelle Winkler, Michigan Technological University

Student Forum & Quiz Bowl Coordinators
Chad Kooistra, Oregon State University
Rose Verbos, University of Utah

Student Paper Competition Coordinator
Jordan Smith, North Carolina State University

Website Development
Paulus Mau, Mau Consulting, Vancouver, BC

Silent Auction Organizers
Richelle Winkler, Michigan Technological University
Jill Fisher, Michigan Technological University

Cover Art and Logo
Sequin H-Rubio
About Charleston, South Carolina

Charleston... “Where History Lives”

Charleston lies at the midpoint along the South Carolina coast between Georgia to the southwest and North Carolina to the northeast. Charleston sits at the confluence of two rivers forming the Charleston Harbor, a wide inlet on the Atlantic Ocean. Though coastal indigenous populations persisted in the area for millennia, recorded history of European exploration along the South Carolina coast dates to the mid sixteenth century. Following the Charter of Carolina in 1663, English colonists in 1670 founded and settled Charles Towne, named for England’s King Charles II, as the capital of the Carolina Province (i.e., 31° to 36° north latitude, Atlantic to Pacific coasts). In 1680, Charles Towne moved from the site of the first permanent settlement at Albemarle Point on the Ashley River – now preserved as Charles Towne Landing State Park – to Oyster Point on the peninsula between the Ashley and Cooper Rivers. The city grew through the years from a small settlement to bustling seaport, receiving goods from abroad and exporting rice, cotton, and indigo. In 1773, the Charles Towne Chamber of Commerce was formed, and then in 1783, the city incorporated, establishing its first municipal government and changing its official name to Charleston.

Charleston is renowned for its role in the Revolutionary and Civil Wars, steeped in history tied to the development of the United States. Fort Sumter, lying in the mouth of the Charleston Harbor, is widely discussed as the site where the Civil War began, when on April 12th, 1861, Confederate soldiers bombarded the fort for 35 hours before its Union forces surrendered. Charleston was devastated and due to lack of resources, was forced to rebuild and repair existing structures in place, resulting in the extraordinary collection of historic buildings and homes still in use today. Today, Charleston has a population of more than 125,000 (2010 estimate), with a metropolitan population of over 700,000. Celebrated perhaps most often for its history and culture, it has become in recent years a premier tourism destination for outdoor activities, culinary offerings, music, and the arts. Voted best in the U.S. in multiple categories four years running by regional, national, and global tourism organizations, as a location for the ISSRM, Charleston will surely provide a unique and memorable experience for all.
Getting Around in Charleston

Charleston International Airport

The Charleston International Airport (CHS) is a regional (Category I) airport, serviced by several regional hubs (e.g., Atlanta, Charlotte, Raleigh) and many other primary airports (e.g., Chicago, Philadelphia, Washington DC, Detroit, Dallas, JFK, Newark, LaGuardia).

Transportation to/from the Airport

Travel time between the Charleston International Airport and downtown Charleston is approximately 20 minutes. Taxis and shuttles are available in front of the terminal building, outside of baggage claim, operating from 5:00 AM. until 30 minutes after the last arriving flight of the day, typically around 12:30 AM. Taxis are dispatched upon demand for individual passengers or groups. Taxi fare between the Charleston airport and downtown Charleston is approximately $30.00. The shuttle fare between the Charleston airport and downtown Charleston is approximately $14.00 per passenger. Note, the shuttle is a shared ride and may make several stops, depending on the number of passengers. All taxi and shuttle services typically accept cash or MasterCard, VISA, American Express, and Discover credit cards. Additional information and several suggested taxi service providers are listed below.

Visit www.chs-airport.com/Ground-Transportation/Taxis-Shuttles.aspx for airport-provided information related to taxis and shuttles.

Charleston Green Taxi
www.charlestongreentaxi.com | (843) 819-0846

Yellow Cab of Charleston
www.yellowcabofcharleston.com | (843) 577-6565

Charleston Cab Company
www.charlestoncabcompany.com | (843) 566-5757

UBER – Charleston
www.uber.com/cities/charleston

Regional Rail and Bus Service
Charleston is also accessible via Amtrak rail (Silver Service/Palmetto Line) and Greyhound bus service. However rail and bus service is less convenient than arriving by air, as train and bus terminals are located in North Charleston and will require arrangement of taxi service.

Local Transportation

CARTA – Charleston Area Regional Transportation Authority
The Charleston Area Regional Transportation Authority (CARTA) is the public transit service provider for the Charleston metropolitan area.

DASH – Free Downtown Trolley
The Downtown Area Shuttle (DASH) Trolley is a free service that transports passengers via three designated routes in the downtown Charleston area.

Visit www.ridecarta.com for the DASH Free Trolley map, trolley routes, stops, timetable, and related information.
NASH Express Bus
CARTA offers bus transportation service between the Charleston International Airport and the Charleston Visitor Center in downtown Charleston via the North Area Shuttle (NASH) Express (Route 4). The NASH Express (Route 4) departs the airport every hour on the hour from 8:00 AM to 11:00 PM (Monday-Saturday) / 12:00 PM to 8:00 PM (Sunday) from the CARTA bus stop located curbside outside the baggage claim area. The NASH Express (Route 4) departs the Charleston Visitor Center every hour at 26 minutes past the hour from 8:26 AM to 11:26 PM (Monday-Saturday) / 12:26 PM to 8:26 PM (Sunday). The NASH Express route runs direct from the airport to downtown; the return trip makes two additional stops between downtown and the airport. NASH Express one-way fare is $3.00 per person.

Visit www.ridecarta.com for the NASH Express map, timetable, and related information.

Pedal/Bike Taxis
Bike taxis are available for transportation between locations in downtown Charleston. Several suggested bike taxi providers are listed below.

Charleston Bike Taxi
www.biketaxi.net | (843) 532-8663

Charleston Rickshaw
www.charlestonrickshaw.com | (843) 723-5685

Charleston Pedicab
www.pedicabcharleston.com | (843) 577-7088
Conference Venue

College of Charleston

The College of Charleston is located in the center of downtown Charleston, nestled between spectacular historic buildings and living history and the inner workings of a modern cosmopolitan coastal city. Founded in 1770, the College of Charleston is the oldest institution of higher education south of Virginia, and the 13th oldest in the United States. Delayed in full implementation by political unrest and the American Revolution, the College was officially chartered in 1785, then becoming the nation’s first municipal college when the City of Charleston assumed responsibility for its support in 1837. The College closed while Charleston was under siege during the Civil War, then reopened in 1866, remaining under the jurisdiction of the city until 1950, when it was designated a private institution. The College was incorporated into the SC State College System in 1970, with graduate programs beginning in 1972. Further development of College research programs and centers (e.g., Grice Marine Laboratory, Avery Research Center, NASA Space Grant Consortium) and fine arts programs (e.g., Simons Center for the Arts, Halsey Institute of Contemporary Art, School of the Arts) continued through the 1990s. The College has continued to expand its graduate offerings with programs in environmental studies and Peace Corps service, public administration, business administration, urban and regional planning, and joint programs in historic preservation and community planning, JD/MBA, communications, and other fields with nearby partner institutions (Charleston School of Law, Clemson University, The Citadel, Lowcountry Graduate Center). The College enrolls nearly 12,000 students from over 60 countries across more than 60 degree programs, with approximately 10% pursuing graduate studies.
College of Charleston Facilities and Services

Campus Meeting Spaces
The College of Charleston has a relatively compact footprint, which affords reasonable transition time between meeting events and session rooms. Plenary sessions will be held in the historic 785-seat Sottile Theatre. The welcome reception will be held at the Halsey Institute of Contemporary Art on campus. The Evening on the Water reception will be held at the South Carolina Aquarium, located six blocks east of campus on the Charleston Harbor waterfront with interior and exterior meeting space for 500. The poster session will be held in the College’s TD Arena on the Concourse Level with open space for viewing posters and passing with food and beverage. The member luncheon will be held in the Stern Center Ballroom, with capacity for 200-300. The closing banquet will be held at the Stern Center Gardens. The weekend workshops will be held at the Harbor Walk campus, near the South Carolina Aquarium on the waterfront, while concurrent sessions will be held in classrooms inside Maybank Hall and the Robert Scott Small Building.

Breaks with catered snack and beverage items will be located in proximity of workshop, session, and plenary spaces. Food and beverage for on-campus breaks, receptions, and meals will be provided by College catering services. For lunches and dinners “on your own,” there are many nearby eating establishments that should provide selection and timely return to sessions, as necessary.

Detailed map of the College of Charleston campus, with conference buildings highlighted, can be found on the back cover of this program. Map legend is located on the inside back cover.
Conference Logistics

Registration Information
On Saturday June 13th and Sunday June 14th, the ISSRM check in and registration desk will be located in the lobby of the Harbor Walk West building (see map below). The registration desk will be open from 7:00 AM to 5:00 PM. This location is approximately 0.7 miles from the College of Charleston campus, or a 10-15 minute walk. The address for this building is 360 Concord Street, Charleston, SC 29401. From campus, head east on Calhoun Street until it ends and you reach the South Carolina Aquarium. Harbor Walk will be on your left- look for signs for ISSRM.

On Monday June 15th through Thursday June 18th, the check in and registration desk will be located on the College of Charleston campus, between the Maybank Hall and the Robert Scott Small Building (see map below). The registration desk will be open from 7:00 AM to 5:00 PM.
On Campus Housing Check-in

Check-in will occur at the Customer Service Desk in the Joe E. Berry Hall between noon and 11 PM on your scheduled day of arrival. This is not the building where you will be staying, but this is where check-in occurs. The address for Berry Hall is 80 St. Philip Street, located on the corner of Calhoun and St. Philip streets. The Customer Service Desk is inside on the first floor. Here, they will give you your room key and building access key, as well as your room number.

Your room is located in the Marcia Kelly McAlister Residence Hall, located at 80-B St. Philip St. It is right next door to Berry Hall- anyone at the Berry Hall customer service desk can direct you over to McAlister Hall.

Checking out and lost keys

You must check out and vacate your room by 3:00 PM on your scheduled day of departure. Return your key and access card to the Customer Service Desk in Berry Hall.

Additional fees will apply for lost keys ($65.00), lost key fobs/key chains ($15.00), or lost building access cards ($20.00), so make sure to keep track of these items and return them upon check-out at the end of your stay. You are also responsible for any damages to the room during your stay.

Workshops and Field Trips

All workshops on Saturday June 13th and Sunday June 14th will take place at Harbor Walk West. See schedule for classroom numbers. Field trips will meet in the lobby of Harbor Walk West at assigned time, unless otherwise noted (see schedule for times).

Concurrent Sessions

All concurrent sessions will take place in either Maybank Hall or Robert Scott Small Building on the College of Charleston campus. See schedule for classroom numbers. There will be a designated “Presentation Practice Room” for presenter use during the conference in Robert Scott Small Building (RSS) 248.

Uploading Presentations

Presenters planning to use PowerPoint files who did not upload them to our website beforehand must come to their assigned session room 30 minutes prior to the start of the session to load their presentation to the designated laptop. Please bring all files on a flash drive (USB).

Internet Access

You will have free Wi-Fi Internet access at the College of Charleston. Network Name: CofC Guest, no password required. You may need to connect to CofC Guest, and then open up a new browser window to agree to the terms of service before you can fully connect to the internet.
**Poster Session**
The Poster Session & Reception will be held on Monday, June 15, at 6:30 PM at the TD Arena Concourse. If you are presenting a poster during the reception, you can set up your poster from 4:00 – 6:00 PM on Monday. Please see page 51 for your station assignment. Posters must be removed from the arena immediately following the reception.

**Silent Auction**
A silent auction will be held this year to help support student scholarships for both the ISSRM 2015 and the ISSRM 2016 in Houghton, Michigan. Items range from fine art print to books to handcrafted items at varying price points. The silent auction items will be in Robert Scott Small Building room 249 on Monday the 15th. Please stop by during the day to check out the items. Winners will be announced during the poster session that evening.

**Conference Social Events**
Please check your schedule for times, locations, and directions to the planned events.
**Sunday:** Artist in Residence Lecture & Welcome Reception at the Halsey Institute
**Monday:** Poster Session & Reception at the TD Arena Concourse
**Tuesday:** Evening on the Water at the South Carolina Aquarium; The Student Mixer at The Alley
**Wednesday:** Student Quiz Bowl; ISSRM Banquet

**Medical Care**
If you’re having a life-threatening emergency DIAL 911

The nearest hospitals:
MUSC University Hospital
169 Ashley Avenue, Charleston, SC 29425
www.muschealth.com
(843) 792-1414

Roper St. Francis Hospital
125 Doughty Street #790, Charleston, SC 29403
www.ropersaintfrancis.com
(843) 724-2086

**Food and Drinks**
The conference will provide catered snacks, coffee, tea, and water in the mornings before sessions, and during morning and afternoon breaks. Lunch breaks will be on your own, unless otherwise noted. There are several restaurants and stores around the College of Charleston campus. Consider walking along King Street for a variety of options. Meals or hors d’oeuvres and drinks will be provided at the following events: Welcome Reception at the Halsey Institute, Poster Session & Reception at the TD Arena Concourse, Evening on the Water at the South Carolina Aquarium, The Student Mixer at The Alley, and the closing banquet.
Field Trips | June 13-14

Saturday June 13\textsuperscript{th}

Bulls Island Meander – Cape Romain National Wildlife Refuge

Organizers: U.S. Fish and Wildlife Service and Coastal Expeditions staff

Description:
We will travel to Awendaw, SC to board the ferry, then cruise through the marshes of Cape Romain National Wildlife Refuge (NWR) until we reach the dock behind Bulls Island. The day will be spent with your guides visiting the major highlights on the interior of the island as well as searching for and observing its abundant wildlife.

Established in 1932 as a migratory bird refuge, Cape Romain NWR encompasses a 22-mile segment of the southeast Atlantic coast. At 5000 acres, Bulls is the largest of four barrier islands found within the Refuge. The island consists of maritime forest, fresh and brackish water impoundments, salt marsh, and sandy beaches. Live oaks, Sabal palmettos, cedar, loblolly pines, and magnolias are the dominant trees found on the island. Bulls Island is home for deer, alligators, bobcat, and black fox squirrels, but the bird life is what Bulls Island is known for throughout the world. Over 293 species of birds have been recorded on the refuge with most being found on or near Bulls. Many waterfowl can be observed in the impoundments. Shore birds abound on the mud flats and beaches. Waders such as blue herons and American and snowy egrets are plentiful. Warblers, woodpeckers and raptors abound in the lush forest on Bulls Island.

Bulls Island also holds major historical significance dating back thousands of years. Evidence of the Sewee Indians, the first known inhabitants of Bulls Island, can be seen throughout the island in the form of middens — large mounds usually composed largely of oyster shells, used as food source and tools. Since the early colonial settlements, Bulls Island has been the scene of much historical activity. Bulls Bay and the creeks behind Bulls Island were reputed hideouts for pirates plundering ships along the coast. The remains of the “Old Fort” are believed to have been a Martello or lookout tower built in the early 1700s. During the Revolutionary War, British warships used the island to replenish supplies.

Duration: Full day, meet in the lobby of the Harbor Walk West building at 8:00 AM
Charleston Gullah History Tour

Description:
Gullah is the language spoken by the lowcountry's first black inhabitants. The language and culture still thrive today in and around the Charleston/Beaufort, South Carolina region. The Gullah history tour takes participants (aboard an air-conditioned bus) to explore the places, history, and stories that are relevant to the rich and varied contributions made by black Charlestonians. As the name implies, the Gullah language, native to the Charleston area, is featured on much of the tour. Of course, if Gullah was spoken throughout the tour, you would not understand, nor would you enjoy the beautiful and interesting sites of Charleston. Your tour guide, Alphonso Brown, is a native of Rantowles, South Carolina, a rural community of Charleston, and is fluent in the Gullah language and familiar with many of the Gullah customs.

Duration: Half-day, 1:00 PM - 3:00 PM Meet at 12:45 at the Bus Shed at the Charleston Visitor’s Center at 375 Meeting Street.

Organizer: Alfonso Brown, Gullah History Tours
Sunday June 14th

Bulls Island Boneyard Beach Drop – Cape Romain National Wildlife Refuge

Organizers: U.S. Fish and Wildlife Service and Coastal Expeditions staff

Description:
We will travel to Awendaw, SC to board the ferry, then cruise through the tidal creeks and protected waters of Cape Romain National Wildlife Refuge (NWR). We will make our landing at the northernmost point of Bulls Island, roughly the same place where the British Ship Carolina landed in 1670. This ship carried the first British Settlers of Carolina Province, many of whom played important roles in the history of the city and the country.

From the northernmost tip of the island, in a short hike we can reach the Boneyard Beach, one of nature’s most magnificent works of art in the lowcountry and one of the most secluded and natural beaches on the Atlantic coast for reconnecting with nature. One commonly finds sand dollars, whelks, and many other types of shells, as well as shards of Native American pottery. Something you must see to believe, the boneyard stands as evidence of where the forest once stood leaving a tangled landscape of old roots systems, large branches, and tree trunks emerging from the sand. Part of the longest stretch of undeveloped coastline on the eastern seaboard, Bulls Island’s seven miles of beach is home to a large population of nesting loggerhead sea turtles, a plethora of shore birds, and allows for unparalleled beachcombing.

Duration: Full day, meet in the lobby of the Harbor Walk West building at 8:00 AM
Wambaw Creek Wilderness Blackwater Kayak Trip and Forest Ramble


Description:
This full-day trip includes several locations within the Francis Marion National Forest, providing examples of unique ecosystems, wildlife viewing, management activities, and rare plant communities. The Francis Marion’s four wilderness areas were established in 1980 to protect, manage and preserve natural conditions, keeping human influence to a minimum. Many parts of these dense, watery forests likely appear just as they did before settlers to the area arrived. The trip includes paddling within the Wambaw Creek Wilderness, a beautiful, tidal, blackwater creek, traveled for centuries by Coastal Plain Indians. Old dikes and canals bear evidence of efforts of early European settlers to tame this region for agriculture. This watery landscape is alive with birds, mammals, reptiles, and insects, providing outstanding opportunities for wildlife viewing, solitude, and primitive recreation amidst wild orchids, sedges, ferns, and majestic giant cypress and tupelo trees, some 1000 years old. The trip will also include a stop at local watering hole and other cultural and natural sites (e.g., longleaf pine stands, Carolina Bays, I’on Swamp trail) within the national forest before returning to Charleston.

Duration: Full day, meet in the lobby of the Harbor Walk West building at 8:00 AM
Fort Sumter National Monument

Description:
Fort Sumter National Monument tells the stories of people who changed America during some of its most trying years. Confederate forces fired the first shots of the American Civil War upon Federal troops at Fort Sumter in the early morning hours of April 12, 1861. The roots of that conflict are buried deep within the stories of the development of the United States — from regular citizens defending their homes behind a palmetto log fort while the most powerful navy in the world attacked, to former colleagues commanding opposing armies, to an enslaved African American risking his life to better the lives of four million others. Fort Sumter’s significance in history is a benchmark, serving as a poignant part of the United States’ biography.

Fort Sumter Tours is an authorized National Park Service concessionaire, providing the only commercial boat transportation to Fort Sumter. Once aboard, you will experience a relaxing 30 minute narrated cruise to historic Fort Sumter. You will learn about the events which led to the outbreak of America’s most bloody war. When you arrive you will be greeted by National Park Service Rangers, who will provide an interpretive program detailing Fort Sumter’s pivotal role in the American Civil War. The trip includes a visit to the Fort Sumter museum, with diverse educational exhibits and many historic artifacts, and the opportunity to explore the interior of the fort. Following the visit to the fort, the ferry will return to the Fort Sumter Visitor Education Center at Liberty Square. The center sits on the site of Gadsden’s Wharf, where hundreds of thousands of enslaved Africans were brought into the United States. Today the site interprets the causes and catalysis of the Civil War and the results of that war on the nation.

Duration: Half-day, 9:30 AM - 12:00 PM, Meet in the lobby of the Harbor Walk West building at 9:00 AM
“Snap the City” Photo Tour I

Organizer: NOAA Office for Coastal Management staff

Description: The “Snap the City” photo tour will take you throughout downtown Charleston, chock-full of scenic vistas, historic sites, and cultural features. Break out your walking shoes and camera for this guided tour of the city’s iconic and undiscovered spots. The tour departs from the fountain at Marion Square park, directly across the street from the Francis Marion Hotel. From there, we’ll begin our group hunt for images that capture the beauty of Charleston, including the waterfront, historic architecture, and local culture.

Duration: Half-day, meet at Marion Square at 9:00 AM
**Tuesday June 15th**

**Charleston Waterkeeper Walking Tour of Gadsden Creek**

*Organizer:* Cyrus Buffum, founder of Charleston Waterkeeper

*Description:* Join Cyrus Buffum, founder of Charleston Waterkeeper, for a walking tour of Gadsden Creek, the last tidal creek remaining in Charleston’s Old City District. This urban nature walk will begin at the headwaters of the creek and meander along the degraded remnants of a once thriving marsh system. Gadsden Creek exemplifies challenges of the built environment, revealing the influence of natural tidal fluctuation on decades of anthropogenic restructuring. During the tour, you will learn about the crossroads the creek is currently facing and the work Charleston Waterkeeper and the community are doing to protect the creek.

*Duration:* ~1.5 hours, 8:20 AM – 10:00 AM, meet outside Maybank Hall
Friday June 19th

Charleston Gullah History Tour

Organizer: Alfonso Brown, Gullah History Tours

Description:
Gullah is the language spoken by the lowcountry’s first black inhabitants. The language and culture still thrive today in and around the Charleston/Beaufort, South Carolina region. The Gullah history tour takes participants (aboard an air-conditioned bus) to explore the places, history, and stories that are relevant to the rich and varied contributions made by black Charlestonians. As the name implies, the Gullah language, native to the Charleston area, is featured on much of the tour. Of course, if Gullah was spoken throughout the tour, you would not understand, nor would you enjoy the beautiful and interesting sites of Charleston. Your tour guide, Alphonso Brown, is a native of Rantowles, South Carolina, a rural community of Charleston, and is fluent in the Gullah language and familiar with many of the Gullah customs.

Duration: Half-day, 11:00 AM – 1:00 PM, meet at 10:45 at the Bus Shed at the Charleston Visitor’s Center at 375 Meeting Street.
Organizers: National Park Service, Fort Sumter Tours

Description:
Fort Sumter National Monument tells the stories of people who changed America during some of its most trying years. Confederate forces fired the first shots of the American Civil War upon Federal troops at Fort Sumter in the early morning hours of April 12, 1861. The roots of that conflict are buried deep within the stories of the development of the United States — from regular citizens defending their homes behind a palmetto log fort while the most powerful navy in the world attacked, to former colleagues commanding opposing armies, to an enslaved African American risking his life to better the lives of four million others. Fort Sumter’s significance in history is a benchmark, serving as a poignant part of the United States’ biography.

Fort Sumter Tours is an authorized National Park Service concessionaire, providing the only commercial boat transportation to Fort Sumter. Once aboard, you will experience a relaxing 30 minute narrated cruise to historic Fort Sumter. You will learn about the events which led to the outbreak of America’s most bloody war. When you arrive you will be greeted by National Park Service Rangers, who will provide an interpretive program detailing Fort Sumter’s pivotal role in the American Civil War. The trip includes a visit to the Fort Sumter museum, with diverse educational exhibits and many historic artifacts, and the opportunity to explore the interior of the fort. Following the visit to the fort, the ferry will return to the Fort Sumter Visitor Education Center at Liberty Square. The center sits on the site of Gadsden’s Wharf, where hundreds of thousands of enslaved Africans were brought into the United States. Today the site interprets the causes and catalysis of the Civil War and the results of that war on the nation.

Duration: Half-day, 9:30 AM - 12:00 PM, meet outside Fort Sumter Tours near the South Carolina Aquarium at 9:00 AM
“Snap the City” Photo Tour II

Organizer: NOAA Office for Coastal Management staff

Description:
The “Snap the City” photo tour will take you throughout downtown Charleston, chock-full of scenic vistas, historic sites, and cultural features. Break out your walking shoes and camera for this guided tour of the city’s iconic and undiscovered spots. The tour departs from the fountain at Marion Square park, directly across the street from the Francis Marion Hotel. From there, we’ll begin our group hunt for images that capture the beauty of Charleston, including the waterfront, historic architecture, and local culture.

Duration: Half-day, meet at Marion Square at 9:00 AM
Workshops | June 13-14

Saturday June 13th

An Overview of Structured Decision-Making

Instructors:  
Angela Romito, Ecological Services, Southeast Region, U.S. Fish and Wildlife Service  
Michelle Haynes, Institute for Water Resources, U.S. Army Corps of Engineers  

Description:  
Natural resource managers are often faced with difficult decisions on how to satisfy the socioeconomic needs of the public while conserving or restoring ecological systems. To aid in the decision-making process, the decision sciences have developed a structured approach to problem solving. Despite potential advantages, structured decision-making (SDM) approaches are not used widely in natural resource management with the exception of a few notable conservation efforts. To this point, a primary impediment to the broad-scale application of SDM approaches has been a lack of training opportunities for natural resource students and professionals in concepts and methodology. In this course, we aim to help participants address problems more clearly by applying the PrOACT process—a helpful roadmap for decomposing problems and applying systematic thinking to real-world decisions. This course will help participants define and categorize problems, articulate what they hope to achieve by solving a problem, and generate novel and creative solutions. Although the course won’t cover quantitative decision analysis methods in depth, it will introduce participants to some of the tools and resources available to assist with those problems that warrant the use of quantitative techniques. We also introduce adaptive resource management as a special kind of SDM that involves sequential or dynamic decisions. Our primary aim is to provide participants with an understanding of structured decision making in a format that is understandable to both graduate students and established natural resource managers.

Duration:  Full-day | Saturday, 8:30 AM – 5:00 PM | HWWE 112

HD.gov | HumanDimensions.gov Student Content Development Workshop

Instructors:  Jessica Mallory and Holly Miller, Social and Economic Analysis Branch, U.S. Geological Survey

Description:  
The workshop begins with an overview of HD.gov (HumanDimensions.gov), which is an interagency portal for collaboration among government agencies, academic institutions, and nongovernmental organizations focusing on the application of social science to address natural resource management issues and problem-solving. The partners involved with HD.gov collaborate to share reliable tools, scientific studies, and current topics and issues in human dimensions of natural resources with the public.

Students will be guided through the HD.gov “Student Community” page. Areas of discussion will include generating a personal profile for the student directory, submitting an extended abstract for peer-review and publishing, and a walkthrough of other portal content features for interacting with the entire HD.gov user community. The workshop will also highlight the process for both reviewing submitted content and having one’s submitted content reviewed within the student peer network on HD.gov. We invite students to ask questions and provide feedback for bridging the student community with land managers and professional scientists.

Prior to arriving at the conference, students will need to register for the workshop in order to receive their individual user log-in and password for HD.gov and activate their account through the website. Students are strongly encouraged to have an extended abstract prepared for submission to HD.gov, though having this material prepared is not required.

Duration:  Half-day | Saturday, 1:00 – 5:00 PM | HWWE 206
Sunday June 14th

Public Participation Mapping Methods (PPGIS, PGIS, VGI) for Environmental and Urban Planning

Instructor: Greg Brown, School of Geography, Planning and Environmental Management, University of Queensland

Description:
In this workshop, participants will learn about the tools, techniques, and approaches being implemented globally to map and understand human/place relationships and ecosystem services using geospatial technologies. Concepts such as crowdsourcing, public participation GIS (PPGIS), participatory GIS (PGIS), volunteered geographic information (VGI), Web 2.0, participatory 3D mapping, and other related concepts have captured the imagination of academics, NGOs, and government agencies. This workshop will examine the past, the present, and the future of participatory mapping methods for environmental and urban planning. Topics to be addressed in the workshop include: 1) principles of effective public participation, 2) selection of spatial attributes for use in PPGIS, 3) methods and tradeoffs for spatial data collection systems and sampling alternatives, 4) comparison of VGI vs. PPGIS systems, 5) spatial planning decision-support systems based on PPGIS, 6) spatial analysis methods for PPGIS data, 7) relationships between place-based values and physical landscapes, and 8) social and institutional barriers to the use and adoption of participatory mapping methods.

Duration: Full-day | Sunday, 8:30 AM – 5:00 PM | HWWE 112

2015 ISSRM Student Forum

Instructors:
Rose Verbos, Chair, IASNR Student Affairs Committee, Department of Parks, Recreation, and Tourism, University of Utah
Chad Kooistra, Vice Chair, IASNR Student Affairs Committee, Department of Forest Ecosystems and Society, Oregon State University

Description:
The ISSRM 2015 Student Forum continues a tradition of providing students with a dynamic pre-conference opportunity to network among peers and professionals alike. Our goal this year is to engage participants in a two-fold experience that facilitates discussion around specific themes chosen by students while exploring these themes within the context of natural resource issues.

We will have participation from the IASNR Executive Director, scholarly journal editors, academic leaders, non-academic conservation professionals, and this year’s “artist-in-residence” among other guests. In addition, we will have an exclusive screening of the award-winning documentary “Shored Up!” from colleagues at North Carolina State University.

Duration: Full-day | Sunday, 8:30 AM – 5:00 PM | HWWE 213
**Plenary Sessions**

This year’s ISSRM will include plenary sessions each day aligned with the four focus areas under the conference theme. Plenary sessions will be held each morning at 10:30 AM in the historic Sottile Theatre at 44 George St. Refreshments will be served before each session.

ISSRM 2015 Theme and Focus Areas –

**Understanding and Adapting to Change**

- Society at the Edge: Changing Ecological Conditions
- Tradition at the Edge: Changing Cultural and Historic Conditions
- Cities at the Edge: Changing Urban Conditions
- Governance at the Edge: Changing Managerial Conditions

**Monday, June 15th**

**Society at the Edge: Changing Ecological Conditions**

Moderator: Erin Seekamp, North Carolina State University

Welcome:

Thomas Fish, Chair, ISSRM 2015 Organizing Committee
Brian McGee, Interim Provost and Executive Vice President for Academic Affairs, College of Charleston
Mike Auerbach, Dean, School of Mathematics and Sciences, College of Charleston
Matthew Carroll, Executive Director, International Association for Society and Natural Resources

*Encountering Midway: A Journey into the Paradox of Our Times*

In this opening plenary, artist in residence Chris Jordan will take us on a powerful journey into the heart of an astonishingly symbolic environmental tragedy. On one of the most remote islands on our planet, tens of thousands of albatross chicks lie dead on the ground, their bodies filled with plastic. Jordan will guide us as we walk through the fire of horror and grief, facing the immensity of this tragedy head on. And in this process, we find an unexpected route to a transformative experience of beauty, reconnection, and hope.

Opening Keynote Speaker:

**Chris Jordan, Chris Jordan Photography**

Chris Jordan is an internationally renowned artist and activist. His work explores the collective shadow of contemporary mass culture from a variety of photographic and conceptual perspectives. Edge-walking the lines between beauty and horror, abstraction and representation, the near and the far, the visible and the invisible, Jordan’s images confront the enormous power of humanity’s collective will. Chris will be screening selections from his forthcoming documentary and providing insightful charge to the conference regarding change and future action. He will also be meeting with the ISSRM Student Forum and participating in various program elements throughout the conference as our artist-in-residence.
Tuesday, June 16th

 Tradition at the Edge: Changing Cultural and Historic Conditions

Moderator: Chandra T. Taylor, Senior Attorney, Southern Environmental Law Center

Disya Land da We: Sustainability and Adaptability of the Gullah/Geechee

Queen Quet will present on understanding the processes and struggles of adaptability and sustainability in the Gullah/Geechee Nation. This interactive dialogue will center on the history of Gullah/Geechee land ownership on the Sea Islands and how Gullah/Geechees are inextricably tied to the land and the waterways throughout the Sea Islands and Lowcountry from Jacksonville, North Carolina to Jacksonville, Florida. This historical journey will touch on international human rights issues that relate to indigenous peoples’ resource management and how Gullah/Geechee continue to sustain the cultural heritage and environmental resources of their community.

Supporting Recognition and Preservation of Heir’s Property through the South Carolina Lowcountry

Heirs’ property is typically real property, such as land and/or a family home, which has been passed down from one family landowner to another, often over several generations. The challenge with heirs’ property is in its lack of clear documentation of ownership from one owner to the next. Where clear documentation does not exist, for example without preparation of a will and testament by a deceased owner, the law states that the property passes to all eligible heirs. This often presents problems in terms of responsibility for maintaining property in a state of good repair, and in financial matters such as home loans, insurance, federal assistance, property taxes, or improvement, division, or sale of property. This presentation will include an overview of the Center for Heirs’ Property, a nonprofit dedicated to providing effective education, direct legal services, and sustainable land use options to low wealth heirs’ property landowners in coastal South Carolina to retain their property, resolve any associated title issues, and sustainably manage these assets to generate income for their families.

Speakers/Panelists:

Queen Quet, Chieftess of the Gullah/Geechee Nation and Director, Gullah/Geechee Sustainability Think Tank

Queen Quet is the official chieftess of the Gullah/Geechee Nation. She is dedicated to preserving, sharing, and invigorating the Gullah/Geechee culture. Queen Quet worked with U.S. Congressman James Clyburn and other public and private individuals and organizations in efforts to establish the Gullah Geechee Cultural Heritage Corridor, extending along the Atlantic coast from North Carolina to Florida.
Jennie Stephens, Director, Center for Heirs’ Property Preservation

Jennie Stephens serves as Executive Director of the Center for Heirs’ Property Preservation, where she is responsible for overall strategic planning, revenue generation, financial management, organizational development, staff management, and program operations. She has worked for 25 years in the nonprofit field in such positions as fiscal director at a community action agency, sponsored programs director at a Historically Black College, and senior program director for the Coastal Community Foundation and years of experience in consulting as a program reviewer, strategic plan facilitator, and grants writer. Jennie holds degrees in business administration, public administration, and organizational leadership.

Chandra Taylor is a senior attorney at the Southern Environmental Law Center in Chapel Hill, North Carolina, where she works on projects associated with transportation, land use, natural resource conservation, environmental justice, and public health. Chandra has represented several state and regional conservation organizations and allied groups. Her recent efforts have aimed at enhancing consideration and incorporation of environmental justice (EJ) principles into the work of environmental professionals, impacted communities, attorneys, students, and other groups.
Cities at the Edge: Changing Urban Conditions

Moderator: Duane E. De Freese, Florida Institute of Technology & HydroPro-Tech LLC

More than half the world’s population lives in urban settings. In the United States, four out of five people call urban areas home. Yet, as the planet becomes increasingly urban, urban ecosystems remain underrepresented in terms of applied research investigating complex relationships between society and environment. Increasing urbanization presents both challenges and opportunities – balancing supply and demand across urban-rural boundaries, connecting people with urban waters and green spaces, encouraging social engagement and active lifestyles, improving energy efficiency and public transportation, reducing vulnerability and increasing resilience, and managing for urban biodiversity and ecosystem services. This plenary session will include panelists representing several programs and locations offering examples of changing conditions, innovative solutions, best practices and, and future directions to fuel interactive discussion.

Speakers/Panelists:

Duane E. De Freese, Florida Institute of Technology & HydroPro-Tech LLC

Duane E. De Freese has worked for over three decades in Florida to educate people about the diverse values associated with Florida’s land, freshwater, and marine nature assets. He is recognized internationally for his efforts to promote ocean and coastal scientific research, conservation, and technology development in Florida. Duane serves on several state-wide initiatives, working with public, nonprofit, and private sector organizations to inform coastal adaptations to climate change and sea level rise, water resource management, and enhanced public awareness of the social, ecological, and economic importance of coastal and ocean systems.

Keith Bowers, President and Founder, Biohabitats

Keith Bowers has more than 30 years of experience working across disciplinary boundaries, leading teams of scientists, engineers, GIS technicians, landscape architects, and planners on more than 1,000 projects across the United States. His passion is repairing damaged ecosystems to better serve natural and human communities and directing healthy and resilient land development and ecological restoration. Keith’s efforts include master plans and conservation plans for wetlands, prairies, woodlands, parks, campuses, residential and commercial developments, and endangered species habitats. Recent efforts include leading a long-term watershed management initiative for Baltimore city and county to improve water quality and aquatic habitat in Chesapeake Bay.
Stephen Burrington, Executive Director, Groundwork USA

Stephen Burrington serves as Executive Director of Groundwork USA, a national organization focused on revitalizing neighborhoods and urban natural environments. With more than 25 years of experience working across non-profit, government, and private sectors, Steve has been a consultant to state and local leaders and diverse private sector organizations across the nation, planning and implementing strategies in sustainable land use, transportation, and energy. His clients have included the U.S. EPA; governors’ offices, state cabinet officials and mayors; environmental, business, and community development organizations; national foundations; and developers of renewable energy and transit-oriented development projects. Steve has served previously as Commissioner of the Massachusetts Department of Conservation and Recreation, undersecretary in the Massachusetts Office for Commonwealth Development, and Vice President and General Counsel for the Conservation Law Foundation. He began his career as an attorney with the civil legal services program for low-income populations in New Orleans, Louisiana, and is a graduate of the University of Edinburgh and University of Michigan Law School.

Bryan Cordell, Executive Director, The Sustainability Institute

Bryan Cordell uses expertise in nonprofit management and experience as a green industry practitioner to provide leadership as Executive Director for the Sustainability Institute (SI) – a position he had held since 2006. During that time, the Sustainability Institute has become nationally recognized for its innovative work as a nonprofit in the environmental sustainability and green building community, supporting a successful combination of sustainability planning and consulting, workforce training, and specialized, energy efficiency services. Bryan works to help build the capacity of organizations focused on community sustainability, and has served on the board of several allied organizations, including the United States Green Building Council (USGBC) South Carolina Chapter, USGBC's Southeast Regional Council, Lowcountry Local First, and Plant A Row for the Hungry (Lowcountry Food Bank Program).

Rick DeVoe, Executive Director, South Carolina Sea Grant Consortium

Rick DeVoe joined the South Carolina Sea Grant Consortium in 1980, and has served as its Executive Director since 1997. Rick is a member of the Graduate School Advisory Board at the College of Charleston and the Board of Advisors for the Center for Marine and Wetland Studies at Coastal Carolina University. He earned degrees from Fairleigh Dickinson University, City University of New York/City College of New York, and the University of Rhode Island. Rick serves as a member of the Executive Planning Team for the Governor’s South Atlantic (Ocean) Alliance, the Board of Directors of the Southeast Coastal Ocean Observing Regional Association (SECOORA), and the Regulatory Task Force for Coastal Clean Energy (South Carolina Energy Office). Rick’s professional interests focus on coastal and marine resource policy, state and regional coastal ocean planning and policy, ocean observing, marine aquaculture policy, science-to-management linkages, and science communication and education.
Stephan Nofield is the Deputy Chief for the National Park Service (NPS) – Conservation and Outdoor Recreation Office. He manages four NPS programs that focus on community-based conservation and outdoor recreation. Recently, Stephan worked as the NPS liaison to the Assistant Secretary of the Interior for Fish, Wildlife and Parks. In addition, he helped coordinate NPS efforts in implementing the Presidential Initiative - America’s Great Outdoors. When he was a Senior Project Manager, Stephan worked with urban national parks across the country leading various strategic planning and other project assignments. He’s a graduate of the College of Forestry at Oregon State University.
Thursday, June 18th

 Governance at the Edge: Changing Managerial Conditions

 Moderator: Paul Wagner, Senior Ecologist, U.S. Army Corps of Engineers

 Governance in a changing climate poses significant challenges for contemporary political and social-ecological institutional systems. These systems developed to handle issues that pose problems on very different temporal, geographical, and sociological scales. This forum will explore long-term climate governance and how we can overcome the "institutional inertia" that is impeding timely and effective responses. The forum will consider the roles of human institutions from national political scales down to the individual voters as part of the human response to climate change.

 Speakers/Panelists:

 Margaret Davidson, Senior Advisor for Coastal Inundation and Resilience Science and Services, National Oceanic and Atmospheric Administration

 Margaret Davidson serves as the principal scientific advisor on coastal inundation and resilience science, development, service, and policy at the National Oceanic and Atmospheric Administration. She has responsibility for ensuring NOAA coastal inundation efforts are based on sound science, resource management, and planning principles, with strong connections to social science. An active participant in coastal resource management since 1978, Margaret served as special counsel and assistant attorney general for the Louisiana Department of Justice and as executive director of the South Carolina Sea Grant Consortium before joining NOAA in 1995. She has served on numerous local, state, and federal committees and provided leadership for national professional societies. Her professional work has focused on environmentally sustainable aquaculture, mitigation of coastal hazards, and the impacts of climate variability on coastal resources.

 Jerome Delli Priscoli, Senior Advisor, Institute for Water Resources, U.S. Army Corps of Engineers

 Jerome Delli Priscoli is senior advisor for the U.S. Army Corps of Engineers Institute for Water Resources. For 30 years he has designed and run social assessment, public participation, and conflict resolution research and training programs. He serves on the Board of Governors of the World Water Council, the Inter-American Water Resources Network, and has helped found several other world associations such as the International Association for Public Participation, the World Water Council, and the Global Water Partnership. Jerry has been advisor to the World Bank and all of the United Nations water related agencies on water policy issues, and works closely with many of the Water Ministers throughout the world.
Josh Sawislak, former Senior Advisor to the Secretary, U.S. Department of Housing and Urban Development

Josh Sawislak is an environmental and transportation planner and expert in resilience, climate change adaptation, and disaster preparedness and recovery. Josh recently served as the Associate Director for Climate Preparedness and Resilience in the White House Council on Environmental Quality, and previously as Senior Advisor to the Secretary of U.S. Department of Housing and Urban Development, the President’s Hurricane Sandy Rebuilding Task Force, and the Administrator of the U.S. General Services Administration, leading interagency efforts to recommend and coordinate infrastructure investments and resilience planning across all levels of government through public-private partnerships.

Avi Tuschman, Author of Our Political Nature

Avi Tuschman is an expert on the science underlying human political orientation. His 2013 book Our Political Nature: The Evolutionary Origins of What Divides Us proposed the first theory of political orientation that links measurable personality traits to quantitative measurements of fitness. Tuschman’s research has received media coverage in nineteen countries, and praise from political scientists Francis Fukuyama, Moisés Naim, Jerrold Post, and John Hibbing, and from science writers Chris Mooney and Michael Shermer. Tuschman began his career in politics as the youngest advisor in the government palace in Lima at the age of 23, and later served as senior writer and advisor to Peruvian President Alejandro Toledo. Avi holds BA and PhD degrees in evolutionary anthropology from Stanford University.

Paul Wagner serves as an ecologist and group manager at the U.S. Army Corps of Engineers’ Institute for Water Resources, where he leads an interdisciplinary group of 20 subject matter experts to address technical and policy related questions in the areas of decision support, climate change, conservation and planning, and integrated water resources management. Paul also worked in EPA’s National Center for Environmental Assessment, at The Nature Conservancy, and recently finished a detail as a Deputy Associate Director for Climate Preparedness with the White House Council on Environmental Quality.
**Student Events**

**HD.gov | HumanDimensions.gov Student Content Development Workshop | Saturday, 1:00 – 5:00 PM | HWWE 206**

**Instructors:** Jessica Mallory and Holly Miller, Social and Economic Analysis Branch, U.S. Geological Survey

**Description:**
The workshop begins with an overview of HD.gov (HumanDimensions.gov), which is an interagency portal for collaboration among government agencies, academic institutions, and nongovernmental organizations focusing on the application of social science to address natural resource management issues and problem-solving. The partners involved with HD.gov collaborate to share reliable tools, scientific studies, and current topics and issues in human dimensions of natural resources with the public.

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**ISSRM Student Forum | Sunday, 8:30 AM – 5:00 PM | HWWE 213**

Note: Includes materials, coffee break refreshments and snacks, and lunch.

**Instructors:**
Rose Verbos, Chair, IASNR Student Affairs Committee, Department of Parks, Recreation, and Tourism, University of Utah
Chad Kooistra, Vice Chair, IASNR Student Affairs Committee, Department of Forest Ecosystems and Society, Oregon State University

Interested in meeting other students in a waterfront setting on the Charleston Harbor? Want to interact with management professionals directly and find out how they handle complex natural resource problems? Want to learn about funding opportunities and publication strategies for young researchers? Then join us for the ISSRM 2015 Student Forum!

The ISSRM 2015 Student Forum continues a tradition of providing students with a dynamic pre-conference opportunity to network among peers and professionals alike. Our goal this year is to engage participants in a two-fold experience that facilitates discussion around specific themes chosen by students while exploring these themes within the context of natural resource issues.

We will have participation from the IASNR Executive Director, scholarly journal editors, academic leaders, non-academic conservation professionals, and this year’s “artist-in-residence” among other guests. In addition, we will have an exclusive screening of the award-winning documentary “Shored Up!” from colleagues at North Carolina State University.

**Prerequisites:**
Interest in learning about and sharing information related to academic programs, student activities, domestic and international study and research, teaching and advising best practices, publishing, job search and career planning, funding opportunities, professional development, trainings, and conferences, collaboration and networking.
Materials:
Agenda and any related instructional materials or other information will be provided and/or announced to participants in advance of the Student Forum, as appropriate.

Target audience:
Any current or prospective graduate or undergraduate students attending the ISSRM.

Agenda:

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<tr>
<th>Time</th>
<th>Session One</th>
<th>Session Two</th>
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| 9:30-10:00 | On Publishing with the editors of SNR
Peter Taylor and David Sonnenfeld | Entering the Tenure Track
Panelists: Jordan Smith, Becky Schewe, and Carla Trentelman |
| 10:00-10:45| Panel on Non-Academic Jobs
Lead by: Eick von Rushchkowski
Susan Lovelace, Chris Jordan, and Duane De Freese, | |
| 15 min break | | |
| 11:00-11:45| CV Workshop
Panelists: Carena Van Riper, Jordan Smith, and Brian Eisenhauer | Resume Workshop
Panelists: Eick von Ruschkowski, Barbara Cozzens, and Patrick Holladay |
| Noon-1:00 | LUNCH | |
| 12:45 | USGS - Presentation on HD.Gov | |
| 1:15-2:15 | Navigating Student-Advisor Dynamics
Panelists: Susan Lovelace and Troy Bowman | Forming a Student Chapter
Lead by: Allie McCreary and the Student Collaborations Committee |
| 2:30-3:30 | Ethics of Negotiating Authorship
Panelists: Matthew Brownlee, Carena Van Riper, and Troy Bowman | Forming a Student Chapter
Lead by: Allie McCreary and the Student Collaborations Committee |
| 3:45-5:30 | Film Screening - Shored UP (84 mins): When Human Nature and the Force of Nature Collide | |
| 6:30 | Evening reception of film screening with Chris Jordan | |

Student Mixer | Tuesday, 9:00 PM | The Alley

All students! Please join us the evening of Tuesday June 16th, after the Evening at the Water at the South Carolina Aquarium, for the student mixer at The Alley. The Alley, a popular hangout in Charleston, is a bowling alley that offers games, great food, and a bar with an impressive offering of local craft beers. Appetizers and the first round of drinks will be provided thanks to the generosity of IASNR. Make sure to pick up your free drink ticket at the registration table when you check-in. The mixer will begin at 9:00PM. The Alley is located at 131 Columbus Street.
Student Quiz Bowl | Wednesday, 5:30 – 6:30 PM | RSS 235

Come watch our students show off their knowledge in the topics related to IASNR and ISSRM! There will be drinks available and light appetizers.

This year, we will have 5 teams consisting of 4 students per team. Here is the breakdown of teams:

1. Four ‘university teams.’ Each of these teams will represent a specific university and consist only of students from that university, respectively.
2. One team of individuals who want to participate but are not on a team. These can be students from any country.

There are many new questions that have been added for this year’s quiz bowl! Topics for questions include: Social Science Research Methodology; NR Economics; NR, Protected Areas, and Outdoor Recreation Management; IASNR/ISSRM Facts and Trivia; Basic Science Questions; Theory (including frameworks and concepts); Statistics; NR and Environmental Policy; (“Local”) South Carolina, Charleston, and the College of Charleston Facts/Trivia; The “Other Sciences”

Individual Team
Marion Riensche (PhD), National Autonomous University of Mexico (UNAM)
Lauren Miller (PhD), University of New Brunswick
Amanda Kaeser (PhD), University of Tennessee
Hoda Manafian (PhD), University of Florida

Michigan Tech University
Brad Barnett (PhD), Chris Henderson (PhD), Zoe Coombs (PhD), Erin Pischke (PhD)

North Carolina State University
Deidre Peroff (PhD) Matthew Jurjonas (PhD), Allie McCreary (PhD), and Karly Meszaros (MS)

University of Minnesota
Vanessa Perry (PhD), Sarah Fellows (MS), Karent Katz (MS), Bree Duever (BS)

The Pennsylvania State University
Austin Barrett (PhD) Jordan Blair (PhD), Eric Larson (PhD), Elly Engle (PhD)
# Schedule Overview

<table>
<thead>
<tr>
<th>Time</th>
<th>Saturday</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
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<tr>
<td>7:00-8:30</td>
<td>Registration (all day)</td>
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<td>8:30-10:00</td>
<td>Field Trips, Trainings &amp; Workshops (half/full-day)</td>
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<td>Concurrent Sessions</td>
<td>Silent Auction (all day) [RSS 249]</td>
<td>Concurrent Sessions</td>
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<td>10:00-10:30</td>
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<td>10:30-12:00</td>
<td>Field Trips, Trainings &amp; Workshops</td>
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<td>Plenary [Sottile Theatre]</td>
<td>Plenary [Sottile Theatre]</td>
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<td>Plenary [Sottile Theatre]</td>
<td>Field Trips (cont'd)</td>
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<tr>
<td>12:00-1:30</td>
<td>Lunch on Your Own</td>
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<td>Lunch on Your Own</td>
<td>Mentoring Session [RSS 235]</td>
<td>IASNR General Assembly and Business Meeting [Stern Center Ballroom]</td>
<td>Lunch on Your Own</td>
<td>SNR Editorial Board Meeting [RSS 253]</td>
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<td>1:30-3:00</td>
<td>Field Trips, Trainings &amp; Workshops</td>
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<td>3:00-3:30</td>
<td>Break</td>
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<tr>
<td>3:30-5:00</td>
<td>Field Trips, Trainings &amp; Workshops</td>
<td>Field Trips, Trainings &amp; Workshops</td>
<td>Concurrent Sessions</td>
<td>Poster Set-Up (4:00-6:00 pm) [TD Arena Concourse]</td>
<td>Concurrent Sessions</td>
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<tr>
<td>5:30-6:30</td>
<td>New Member Meeting [RSS 252]</td>
<td>Meet the Editors Session [RSS 252]</td>
<td>Student Quiz Bowl [RSS 253]</td>
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<tr>
<td>6:30-8:30</td>
<td>Film Screening &amp; Welcome Reception [Halsey Institute]</td>
<td>Poster Session &amp; Reception [TD Arena Concourse]</td>
<td>Evening at the Water [SC Aquarium]</td>
<td>ISSRM Banquet [Stern Center Gardens]</td>
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<tr>
<td>9:00-11:00</td>
<td>Student Mixer [The Alley]</td>
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</table>

**College of Charleston Building Abbreviations:**
RSS: Robert Scott Small Building
MYBK: Maybank Hall
HWWE: Harbor Walk West

**Abstract Database:**
Please note that all presentation abstracts, with complete author list, can be found on our accepted abstract database at [http://tinyurl.com/ISSRM2015database](http://tinyurl.com/ISSRM2015database)
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>MON.AM1.01</td>
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<tr>
<td>9:00 AM</td>
<td>RSS 103</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>MYBK 100</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Working Landscapes and Natural Capital I</td>
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<tr>
<td></td>
<td>Change in Water Conservation Behavior of Florida Residents as Predicted by the Theory of Planned Behavior • Anil Kumar Chaudhary, University of Florida</td>
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<td>Systematic Indicator Selection Method for Energy Optimized Urban Planning • Sujit Sikder, University of Bonn</td>
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<td>Understanding the Social Functions of Biodiversity in the Anthropocene: The Role of Birds in Immigrants' Sense of Place • J. Cristobal Pizano, University of Waterloo</td>
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<td>Identifying Discourses Using Q to Inform The Management of Bay of Fundy Dykes and Dyelands under Climate Change • Kate Sherron, Dalhousie University</td>
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<td>Understanding Landscape Values and Baselines of Acceptability on the Mactaquac Dam Headpond, New Brunswick, Canada • Kristina Keilby, Dalhousie University</td>
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<tr>
<td>10:30 AM</td>
<td>Public Participation, Collaboration, and Co-management I</td>
</tr>
<tr>
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<td>Beyond Economics: Discourse and Interests in Ecosystem Services • Paul Manson, Portland State University, chair</td>
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<td>11:00 AM</td>
<td>Participatory Spatial Analysis, High Resolution Remote Sensing Data, and Ecosystem Services Valuation Approach as a Tool for Integrated Landscape-based Stormwater Management (IMLaS) • Helena Vonov Vladič, École Polytechnique Federale de Lausanne</td>
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<td>The Impact of Socio-Demographic Variables on Attitudes towards Wolf Policy • Max Eriksson, Umeå University</td>
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<td>Community Perspectives on Gas Development in Coastal Zones: Do the Environmental Impacts Outweigh the Economic Benefits at the Local Scale? • Claudia Bemh, The Australian National University</td>
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<td>Assessing Informal Trails Impacts and Fragmentation Effects on Cultural Landscapes Using GPS Data From Web GIS Sharing Platforms: A Case-Study From Portugal • Luís Monteiro, Czech University of Life Sciences</td>
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<tr>
<td>2:00 PM</td>
<td>MON.AM1.05</td>
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<td>RSS 251</td>
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<tr>
<td>3:00 PM</td>
<td>MYBK 117</td>
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<tr>
<td>3:30 PM</td>
<td>Working Landscapes in Transition and in Tension: A Case Study from Northern New England • Cheryl Morse, University of Vermont</td>
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<td>MYBK 215</td>
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<td>7:30 PM</td>
<td>MON.AM1.08</td>
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<tr>
<td>8:00 PM</td>
<td>RSS 235</td>
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**Break** | 10:00-10:30 AM

**Monday Plenary** | 10:30 AM-12:00 PM | Sottile Theatre

**Lunch (On Your Own)** | 12:00-1:30 PM

**Mentoring Session** | 12:00-1:30 PM | RSS 235
<table>
<thead>
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<th>Time</th>
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<tr>
<td>MON.PM1.01</td>
<td>Working Landscapes and Natural Capital II: Decision Science and Decision Making II</td>
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<td>Harmond kickoff: Decision Science and Decision Making II</td>
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<tr>
<td>MON.PM1.02</td>
<td>Landholder Assessment of Natural Capital and Ecosystem Dis-Services at Two Spatial Scales – An Australian Survey – Helen Smith, Southern Cross University</td>
</tr>
<tr>
<td>MON.PM1.03</td>
<td>Technology Change in a Changing Environment: Farmer Use of Emerging Nitrogen Application Technologies – Adam Reimer, Michigan State University</td>
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<tr>
<td>MON.PM1.04</td>
<td>Re-assessing Rural Tourism Efforts in the United States – A 20-Year Update – Alison Murray, The Pennsylvania State University</td>
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<tr>
<td>MON.PM1.05</td>
<td>Modeling Private Woodland Owner Timber Harvesting Behavior Using Social Interactions, Information Flow, and Peer-To-Peer Networks – Emily Silver, University of Maine</td>
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<td>MON.PM1.06</td>
<td>Break 3:00-3:30 PM</td>
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**MONDAY | 15 JUNE 2015 | 1:30–3:00 PM**

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<td>MYBK 207 •</td>
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<td>MYBK 110 •</td>
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<td>RSS 252 •</td>
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**MON.PM1.01**
- Working Landscapes and Natural Capital II: Decision Science and Decision Making II
  - Harmond kickoff: Decision Science and Decision Making II

**MON.PM1.02**
- Landholder Assessment of Natural Capital and Ecosystem Dis-Services at Two Spatial Scales – An Australian Survey – Helen Smith, Southern Cross University
- Technology Change in a Changing Environment: Farmer Use of Emerging Nitrogen Application Technologies – Adam Reimer, Michigan State University
- Re-assessing Rural Tourism Efforts in the United States – A 20-Year Update – Alison Murray, The Pennsylvania State University
- Modeling Private Woodland Owner Timber Harvesting Behavior Using Social Interactions, Information Flow, and Peer-To-Peer Networks – Emily Silver, University of Maine

**Break 3:00-3:30 PM**
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<th>MON.PM2.04</th>
<th>MON.PM2.05</th>
<th>MON.PM2.06</th>
<th>MON.PM2.07</th>
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<td>MYBK 107</td>
<td>MYBK 251</td>
<td>MYBK 115</td>
<td>MYBK 207</td>
<td>RSS 252</td>
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</table>

Indigenous Resources, Rights, and Consultation

- “Water is Our Life”: Assessing Impacts of Invasive E. coli spp. on Aquatic Resources and Native Livelihoods in Alaska - Matthew Luttsa, Colorado State University
- Facilitating Supply of Hybrid Poplar as Biofuels Feedstock: Toward a Community Based Social Marketing Strategy - Jyotina Krishnakumar, University of Washington
- Human Pressure Threaten Swayne’s Hartebeest to Point of Local Extinction from the Savannah Plains of Nebraska National Park, South Rift Valley, Ethiopia - Simon Cheche, Arda Minch University Ethiopia & University of Antwerp Belgium
- Understanding Effective Outreach for Water Quality in Indiana Watersheds - Rebecca Busse, Purdue University
- The Farmland Rental Paradox: How Does Land Tenure Security Serve as an Important Factor for the Protection of Soil? - Vratsalava Janovska, Czech University of Life Sciences Prague
- Institutional Aspects of Local Participatory Strategies in Natural Resource Management - Hemminga Tanguilig, Don Mariano Marcos Memorial State University (Retired)
- Filling a Gap: Collaboration to Build Understanding of California Fisheries’ Human Systems - Carrie Pomeroy, California Sea Grant

Land Tenure Regimes and Ecosystems in the Mayan Biosphere Reserve, Guatemala - Abigail Randall, University of Tennessee-Knoxville

- Scenality of Human Wellbeing Indicators in the Puget Sound Basin - Kelly Bedenweg, University of Washington-Tacoma
- Bioinvasions in a Changing World: Managing the Intersection of Invasive Species and Climate Change - Stanley Burgiel, National Invasive Species Council
- Factors Affecting Nonindustrial Private Forest Landowner Decision to Jointly Manage Forest for Timber and Carbon in the Southern United States: A Contingent Rating Approach - Pujaar Khanal, Mississippi State University
- Effects of Private Land Protection Actions on Neighboring Landowners’ Awareness and Attitudes towards Conservation - Ashley Voeck, Portland State University
- Advancing Urban Sustainability: Addressing Environmental, Economic, and Equity in the District of Columbia - Dawne Jones, University of the District of Columbia
- Heirs’ Property Estimation in the U.S. South - Cassandra Johnson Gaither, U.S. Forest Service
- The Need for Systematic Identification of Stakeholders for Public Engagement with Environmental Research - Kate Mulvaney, U.S. EPA Atlantic Ecology Division
- Reducing Risk of Vibrio-Related Illness from Raw Oyster Consumption in the Northeast - Diane Murphy, Woods Hole Sea Grant & Cape Cod Cooperative Extension

Stakeholders’ Perceptions of Community Engagement and Consultation in Environmental Assessment for Resource Development - Anekan Udofia, University of Saskatchewan

- Content Analysis of Media and Environmental Assessments for Rodent Eradication: From Poison to Gene Modification - Rene Valdez, North Carolina State University
- Factors Affecting Youth Participation in Hunting Following Hunter Education and Mentoring Programs - Alan Graefe, The Pennsylvania State University
- Regional Cumulative Effects Management: Understanding Institutional Divergence and Convergence in the Crown of the Continent - Ayodele Olajugbade, University of Saskatchewan
- The Nexus between Sense of Place and Sustainable Behavior: Findings from a San Francisco Bay Area Survey - Jennifer Thomson, Stanford University
- Nature Conservation AND Rural Development through Luxury Tourism? Elite Entrepreneurs in Costa Rica, Mexico - Marion Rienks, National Autonomous University of Mexico (UNAM)
- Public Opinion on Energy Development: The Interplay of Issue Framing, Top-of-Mind Associations, and Political Ideology - Christopher Clarke, George Mason University
- Discussing, Imagining, Engaging, Adapting: Resilience and the Vulnerability, Consequences, and Adaptation Planning Scenario (VCAPS) Process - Jessica C. Whitmore, North Carolina Sea Grant

POSTER SET-UP | 4:00-6:00 PM | TD ARENA CONCOURSE

NEW MEMBER MEETING | 5:30-6:30 PM | RSS 252

POSTER SESSION & RECEPTION | 6:30-8:30 PM | TD ARENA CONCOURSE
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tr>
<td>TUE.AM1.01</td>
<td>Decision Science and Decision Making IV</td>
<td>MYBK 105</td>
<td>Jessica Fefer, University of California</td>
<td>Complex Shades of Green: Gradually Changing Notions of the Good Farmer in a Swedish Context</td>
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<td>Multiple-Use and Conflict Management I</td>
<td>RSS 251</td>
<td>Dexter Ontoy, Cebu Normal University</td>
<td>Territorialization as a Tool for Change</td>
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<td>Climate Adaptation Planning and Mitigation IV</td>
<td>MYBK 117</td>
<td>Allen Gray, The Pennsylvania State University</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<td></td>
<td>Public Health and Lifestyles</td>
<td>MYBK 107</td>
<td>Peter Robertson, Utah State University</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<td>Landscape Scale Conservation and Transboundary Management II</td>
<td>MYBK 115</td>
<td>Dexter Ontoy, Cebu Normal University</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<td>Renewable Energy Development I</td>
<td>MYBK 207</td>
<td>Laura vaccination, chair</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<td>Natural Resource Law, Policy, Compliance, and Enforcement I</td>
<td>RSS 252</td>
<td>Laura vaccination, chair</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<tr>
<td>TUE.AM1.02</td>
<td>Public Participation, Collaboration, and Co-Management IV</td>
<td>RSS 235</td>
<td>Laura vaccination, chair</td>
<td>Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan</td>
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<td></td>
<td>All Lands Management for Forest Restoration: How to Get There from Here?</td>
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<td>Susan Chamley, US Forest Service</td>
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<td>All Lands Management in Theory and Practice</td>
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**Field Trip**

**Charleston Waterkeeper walking Tour of Gadsden Creek**

- Cyrus ▪ Jessica Fefer, University of Virginia
  - Complex Shades of Green: Gradually Changing Notions of the Good Farmer in a Swedish Context
- Dexter Ontoy, Cebu Normal University
  - Territorialization as a Tool for Change
- Alan Graefe, The Pennsylvania State University
  - Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan
- National Resource Law, Policy, Compliance, and Enforcement

**Measuring Species Diversity for Conservation Biology:**

- Exploring Recreation Pattern Differences among Mountain Hikers in Taiwan
  - Alan Graefe, The Pennsylvania State University
- Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan

**Community Engagement:**

- Exploring Recreation Pattern Differences among Mountain Hikers in Taiwan
  - Alan Graefe, The Pennsylvania State University
- Cost-Benefit Analysis of Producing Bamboo Pellets in Taiwan

**Understanding Drivers of Effectiveness and Sustainability of Visitor Management Frameworks in Protected Areas:**

- Conservation and Conflicts in South African Protected Areas: Implications for South Africa’s Land Restoration Programme
  - Jennifer Thomsen, University of Georgia
- Northern New England’s Renewable Energy
  - Shaun Golden, Bowdoin College
- The Role of Agrotivism in Micro-Entrepreneurship in the Long-Term Sustainable Management of North Carolina’s Small-Scale Farmlands

**Farmer perceptions of wetland ecosystem goods and services:**

- Farmer perceptions of wetland ecosystem goods and services
  - Simon Greenland-Smith, Dalhousie University
- Farmer perceptions of wetland ecosystem goods and services
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- Farmer perceptions of wetland ecosystem goods and services
  - Simon Greenland-Smith, Dalhousie University

**Human Dimensions of Climate Change (HDC): An Inter-Agency Collaborative:**

- Human Dimensions of Climate Change (HDC): An Inter-Agency Collaborative
  - John Pirotta, U.S. Department of the Interior, National Park Service
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- Human Dimensions of Climate Change (HDC): An Inter-Agency Collaborative
  - John Pirotta, U.S. Department of the Interior, National Park Service

**Collaborative Implementation on U.S. National Forests:**

- The Role of Organizational Networks in Landscape-Scale Planning and Management for Fire-Prone Forests
  - Page Fischer, University of Michigan
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<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Journey • Queen Quet Marquetta L. Goodwine, Gullah/Geechee Sustainability Think Tank, chair</td>
<td>University of South Carolina</td>
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<td>Decision Science and Decision Making V</td>
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<td>Multipurpose and Conflict Management II</td>
<td>University of South Carolina</td>
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<td>Risk, Vulnerability, Resilience, and Adaptive Capacity I</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.04</td>
<td>Assessing Social Vulnerability to Climate Change: Lessons from Recent Work in Coastal and Inland Contexts •</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Alexandra Page Fischer, University of Michigan, chair</td>
<td>University of South Carolina</td>
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<td>Science Coordination and Knowledge Management I</td>
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<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.09</td>
<td>Water Governance: Boundaries, Collaboration and Conflict • Peter Leigh Taylor, Colorado State University, and</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>David A. Sonnenfeld, State University of New York, College of Environmental Science and forestry, chairs</td>
<td>University of South Carolina</td>
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<tr>
<td>TUE.PM1.10</td>
<td>Organizational Change for Corporate Sustainability among Colorado Ski Resorts.</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>An Innovations Diffusion Perspective • Paulina McGarvey, Colorado State University</td>
<td>University of South Carolina</td>
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<td>Social Dimensions of Hydraulic Fracturing: Status of the Literature, Implications for Forest and Public Land</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Management, and Directions for Future Studies • Claire Ginger, University of Vermont</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.11</td>
<td>Decision Making and Food Security in Distribution Channels for Longtime-Caught Tuna in Hawai’i • Dawn</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Kotowicz, University of Hawai’i Joint Institute for Marine and Atmospheric Research/NOAA</td>
<td>University of South Carolina</td>
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<td>Fisheries Pacific Islands Fisheries Science Center</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.12</td>
<td>Socio-Economic Vulnerability to Climate-Related Changes in Forests and Grasslands in the U.S. Northwest •</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Michael Hand, US Forest Service</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.13</td>
<td>Empowering Farmers and Local Institutions Through Devolution for Effective Soil and Water Conservation Practices</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>in the Central Highlands of Ethiopia • Beazye Tessa, University of New England</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.14</td>
<td>A Needs Assessment Protocol for Designing, Developing, and Deploying Geospatial Data Management Systems Within</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Federal Agencies • Jason Matney, North Carolina State University</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.15</td>
<td>Merging Ecosystem Services and Social Processes for a Social-Ecological Impact Assessment on U.S. Public Land •</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Amanda Bentley Bymyer, University of Idaho</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.16</td>
<td>Rock Climbing Management Challenges in Southern Ontario: The Good, the Bad, and the Future • Garrett Hutson,</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Brock University</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.17</td>
<td>Water Governance: Crises and Institutions • Peter Taylor, Colorado State University</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.18</td>
<td>A City for Life: Urban Biodiversity and Ecosystem Services Policy in Medellin, Colombia • Maria Mejía, National</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Research Institute on Biodiversity • Carlos J. M. Mejía, National Research Institute on Biodiversity</td>
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<td>TUE.PM1.19</td>
<td>Investigating Differences of User Type on the Lower Youghiogheny River at Ohiopyle State Park (Pa) • Jonas</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Leveque, West Virginia University • An Innovation Diffusion Perspective • Paulina McGarvey, Colorado State</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.20</td>
<td>The Value of Open Space as a Waterfront Use: A Mixed Methods Study on the Gulf Coast • Jie Jiang, Mississippi</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>State University • John Vena, Director, Department of Public Health Sciences, Medical University</td>
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<td>TUE.PM1.21</td>
<td>Building the Capacity to Enhance Societal Resilience to Natural Hazards and Climate Change • Tim G. Frazier,</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>University of Idaho • John Vena, Director, Department of Public Health Sciences, Medical University</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.22</td>
<td>Pathways to Successful Urban Biodiversity Conservation • Jan Thompson, Iowa State University • John Vena,</td>
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<td>TUE.PM1.23</td>
<td>Coping with Climate Change Uncertainty for Adaptation: Challenges and Opportunities for Local Water Management •</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Michael Green, Angela Rusk University • John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.24</td>
<td>Water Governance in Wisconsin: Lessons from Lake and Watershed Planning • Kristin Flaxx, US Forest Service</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>TUE.PM1.25</td>
<td>Coping with the Changing Narratives of Water: Pitfalls of Conceptualization and Practice. Case Study of Wadi el</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Gemal Protected Area in Egypt • Aziza Moneer, Freiburg University • John Vena, Director, Department of Public</td>
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<td>Health Sciences, Medical University of South Carolina • John Vena, Director, Department of Public Health Sciences,</td>
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<td>TUE.PM1.26</td>
<td>Building Bridges, Constructing Dialogue: Negotiating Natural and Institutional Boundaries for Collaborative Water</td>
<td>University of South Carolina</td>
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<td>Governance in California • Esther Conrad, University of California, Berkeley • John Vena, Director, Department</td>
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<td>TUE.PM1.27</td>
<td>Science, Uncertainty, and Decision Making in Illinois Endangered Species Protection • Bridget Henning, University</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>of Illinois • John Vena, Director, Department of Public Health Sciences, Medical University • John Vena,</td>
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<td>TUE.PM1.28</td>
<td>A Cross Country Examination of Whitewater Recreators’ Place Attachment and Recreation Specialization • Silvia</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Kainziger, West Virginia University • John Vena, Director, Department of Public Health Sciences, Medical University</td>
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<td>TUE.PM1.29</td>
<td>Risk Awareness and Preparedness: the General Public’s Atitude Toward Natural Hazards in Switzerland • Elisabeth</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Madi, Federal Swiss Institute for Forest, Snow and Landscape Research • John Vena, Director, Department of Public</td>
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<td>TUE.PM1.30</td>
<td>Power Relations and Adaptive Capacity: Assessing the Role of Indigenous Institutions in Climate Change</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Adaptation, Case of Lower Zambezi Transfrontier Park • Wedzera Mandudzo, University of Pretoria • John Vena,</td>
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<td>John Vena, Director, Department of Public Health Sciences, Medical University • John Vena, Director, Department</td>
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<td>TUE.PM1.31</td>
<td>Designing an Exs Story Map for The King Tides Project: Enhancing Outreach Using Geospatial Services • Bradley</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Dean, The Baldwin Group / NOAA Office for Coastal Management • John Vena, Director, Department of Public Health</td>
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<td>TUE.PM1.32</td>
<td>The Impact of Wildfire Events on Resident Firewise Behaviors and Support for Fire Agency Management Practices</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>in Central Oregon • Hillary K. Fisher, Oregon State University • John Vena, Director, Department of Public Health</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.33</td>
<td>Drivers of Landowner Civic Engagement in Water Resource Conservation in the Red River Basin, Minnesota • John</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Vena, Director, Department of Public Health Sciences, Medical University • John Vena, Director, Department of</td>
<td>University of South Carolina</td>
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<td>TUE.PM1.34</td>
<td>International Comparative Analysis of the Role of Government in Water Policy Networks • Rachel Eberhard,</td>
<td>John Vena, Director, Department of Public Health Sciences, Medical</td>
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<td>Queensland University of Technology • John Vena, Director, Department of Public Health Sciences, Medical University</td>
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**BREAK | 3:00-3:30 PM**

TUESDAY | 16 JUNE 2015 | 3:30–5:00 PM

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<th>Time</th>
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<tr>
<td>3:30</td>
<td>Gullah/Geechee Culture: Survival through Environment and Art Expression • Elder Carla Towns, Gullah/Geechee Angel Network</td>
<td>RSS 103 • MYBK 206 • MYBK 111 • RSS 251</td>
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<td>4:30</td>
<td>Discussants TBD</td>
<td>MYBK 107 • MYBK 115 • MYBK 207 • RSS 252</td>
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<td>5:30</td>
<td>Meet the Editors Session</td>
<td>RSS 252</td>
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Gullah/Geechee: Culture: Survival through Environment and Art Expression • Elder Carla Towns, Gullah/Geechee Angel Network

Panel Participants:
- Elder Carla Towns
- Elder Page McMillan
- Elder Maggie A. Harris
- Hollywood Rainey

Panel Discussion
- How do we better understand and communicate the value of Gullah/Geechee cultural traditions in a broader environmental context?
- How do we ensure that these cultural traditions are preserved for future generations?
- What role can educators and researchers play in preserving and promoting Gullah/Geechee culture?

Evening at the Water | 6:30-8:30 PM | South Carolina Aquarium

Student Mixer | 9:00 PM | The Alley

Meet the Editors Session | 5:30-6:30 PM | RSS 252

### Wednesday, 17 June 2015 | 8:30-10:00 AM

<table>
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<tr>
<th>Time</th>
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<tr>
<td>WED.AM1.01</td>
<td>Sustainable Forestry and African American Land Retention: A Discussion of a Pilot Project in South Carolina</td>
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<td>Perspectives on Equitable Water Resource Allocation from a Decision Experiment - Jamie Ross, University of Saskatchewan</td>
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<td>Using Participatory Modeling and Citizen Science to Help Fishermen Adapt to a Changing Climate - Kelly Burke-Copel, U.S. Army Engineer Research and Development Center</td>
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<td>Linking the Cultural Ecosystem Services of Urban Green Space with the Social Determinants of Health and Well-Being - Winice Jennings, US Forest Service</td>
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<td>Assessing Adaptive Capacity to Climate-Induced Disturbances: The Effects of Mountain Pine Beetle to Drinking Water in the Rocky Mountain Region - Katherine Mattor, Colorado State University</td>
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<td>Communicating Avenues for Vietnamese Fishing Communities in Mississippi and Alabama with Coastal Resource Agencies - Rebecca Scheve, Syracuse University</td>
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<td>Atlanta’s Households’ Willingness to Increase Urban Forests to Mitigate Climate change - Yenfei Tran, University of Georgia</td>
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<td>Mitigating Human-Elephant Conflict: Transboundary Issues between Nepal and India - Bhupendra Thapa, Department of Forestry, Nepal</td>
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<td>Georgia Sea Turtle Center Marine Debris Initiative: Citizen Science and Education in Marine Conservation - Jeanie Martin, The Georgia Sea Turtle Center</td>
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<td>Proximal Wildlife Viewing at Denali: An Analysis of Visitor Preference and Management Practices - Chris Zajchowski, University of Utah</td>
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### Wednesday, 17 June 2015 | 10:00-10:30 AM

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### Wednesday Plenary | 10:30 AM-12:00 PM | SOTTILE THEATRE

### Lunch (On Your Own) | 12:00-1:30 PM

### SNR Editorial Board Meeting | 12:00-1:30 PM | RSS 253
|---------------|----------------------------------------------------------------|-----------------|-----------------|
| **WEDNESDAY | 17 JUNE 2015 | 1:30–3:00 PM | **

**Public Participation GIS (PPGIS): Applications for Environmental Planning (1)** - Gregory G. Brown, University of Queensland

- Decision Science and Decision Making VII
- Migration, Immigration, and Diaspora Communities
- Wildland-Rural Interface
- Sustainable Transportation and Green Infrastructure
- Science Coordination and Knowledge Management III
- Subsistence and Resource Dependency
- Traditional Ecological Knowledge
- Public Participation, Collaboration, and Co-Management VIII
- Public Health and Natural Resources

**Participatory GIS to Inform Coral Reef Ecosystem Management: Mapping Human Coastal and Ocean Uses in Hawaii** - Arielle Levine, University of Hawaii

- A Market Segmentation Analysis of Artificial Reef Users in the Gulf of Mexico
- Changing River Experiences and Perspectives
- Changing Landscapes, Changing Preferences: dynamic Viewshed Analysis of Feedbacks between Exurban Development and Privacy in the Colorado Front Range
- Diverse Stakeholder Perspectives on Sustainable Urban Coasts
- SAGE Regional Demonstration in Barnegat Bay, NJ
- SAGE Regional Demonstration in Chitwan National Park, Nepal
- Using Angler Preferences for Management of the Alabama State Lakes Program
- Co-Production and Co-Management – Mutual Learnings and Insights
- Introduction to Emerging Contaminants/Dolphins as Sentinel Species

**Understanding Coral Reefs in the U.S. Virgin Islands from the Perspective of Resident Occupational SCUBA Divers** - Theresa Goedeke, National Oceanic and Atmospheric Administration

- Importance-Performance Analysis of Artificial Reef Use Impact
- The Human Impacts of Dams in China: How Does Resettlement Affect Social Networks?
- Two Decades of Growth in the Wildland Urban Interface: Trends and Policy Interventions
- Greening the Lower Susquehanna: Engaging Urban and Suburban Communities in Green Infrastructure Planning and Implementation
- Implementing Collaborative Research using a Collective Impact Group Approach: The Green Cities Research Alliance
- Community Dependence on Commercial Fishery Resources and Initiatives of Access and Protection
- Indigenous Observations of the Long-Term Effects of Hydro-Ecological Change in the Saskatchewan River Delta
- Climate Change and Participatory Democracy in America: Toward a Complete Arendtian Revolution
- Snapshot of New York Anglers/PFOS Contaminant Levels in Upstate NY

**Mapping and Modeling Land Use Conflict to Inform Natural Resource Planning and Management** - Azadeh Karimi, University of Queensland

- Public Preferences for Marine Planning
- Migration and Institutions of Collective Action: The Missing Link?
- The Impact of Wildfire Events on Resident Firewise Behaviors and Support for Fire Agency Management Practices in Central Oregon
- Stakeholder Environmental Concerns and Attitudes about Women’s Participation in Community-Based Conservation Programs in Belize
- Combining Local Ecological Knowledge and Photography to Document Environmental Conflicts and Changes in Central America
- Integrating Concepts of Place and Social Values for Ecosystem Services using Public Participation in Geographic Information Systems

**Amenity Migration: Mapping residential location choices and outdoor recreation activities along the wildland-urban interface** - Jenna Tilt, Oregon State University

- Rural Community and Forest Landowner Attitudes in the Potential Development of a Timber-Based Biofuel Industry
- Rural Community and Forest Landowner Attitudes in the Potential Development of a Timber-Based Biofuel Industry
- Stakeholder Environmental Concerns and Attitudes about Women’s Participation in Community-Based Conservation Programs in Belize
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**BREAK | 3:00-3:30 PM**
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<td>Public Participation GIS (PPGIS): Applications for Environmental Planning (2) • Gregory G. Brown, University of Queensland, chair</td>
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<td>Never the Same River Twice • Hugo Knisly Film Screening Panelists Hugo Knisly, South Carolina Rivers Forever Queen Quet, Chiefess of the Gullah/Geechee Nation</td>
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<td>Conservation and Gender or Race Barriers Risk, Vulnerability, Resilience, and Adaptive Capacity III Energy Development Landscape Scale Conservation and Transboundary Management III The Socioecological Tradecrafts of Climate Change Mitigation: Understanding Bioenergy Impacts across the Americas • Kathleen E. Halvorsen, Michigan Technological University, chair</td>
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<td>Natural Resource Law, Policy, Compliance, and Enforcement IV Public Participation, Collaboration, and Co-Management IX Speed Presentation Session</td>
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<td>Participatory Tools for Incorporating Community Knowledge and Values in Natural Resource Decision Making • Frances Eanes, University of Wisconsin-Madison</td>
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<td>Why Black-American Family Forest Landowners do not Actively Participate in Federal Landowner Assistance Programs in US South? • John Schelhas, Southern Research Station, U.S. Forest Service Creating a Decision Support Tool for Strategic Development Using an Expert Knowledge-Derived Bayesian Belief Network to Identify Streams Vulnerable to Urbanization Across the State of Maine • Kristen Wel, University of Maine Putting the Marcellus Shale in Context: National and International Comparative Perspectives on Hydraulic Fracturing • Richard Stedman, Cornell University Explaining Water Conservation Intentions in the Great Lakes Region of North America • Andrew Kozloch, Michigan Technological University Public Forests, Private Forests: Community Perceptions on the Use of Woody Biomass from Different Land Ownership in Wisconsin, USA • Aparajita Banerjee, Michigan Technological University The South Asian Irrigation Economy and Water Governance: Preventing the Tragedy of the Commons • Tanque Nazir, University of Wisconsin-Eau Claire Science in Conflict and Adaptation: An Exploration of Science Discourse in an ESA Decision Process • Casey Taylor, Oregon State University Splintered Understanding: Environmental and Health Impacts as a Lens for Exploring Disconnection between Residents’ Perceptions and Scientific Findings • Adrian Uzuniari, Utah State University</td>
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<td>Participatory Perspectives and Their Effects in Participatory Mapping for Public Land Management • Gregory G. Brown, University of Queensland</td>
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<td>“I get along better if I can be the little ole lady they want me to be”: Women Landowners Navigating a “Man’s (Agricultural) World” • Peggy Petrzelka, Utah State University Education Program Model for Local-Level Climate Resilience Planning: Partnerships for Resilience and Empowered Planning (PREP) • Joanna Pollock, University of Arkansas Framing Risks: How National Environmental Organizations Frame Risks To Mobilize Opposition to Hydraulic Fracturing • Rizwana Zafar, University of Virginia Assessing Process Attributes of Collaborative Governance in Complex River Basins: The Monongahela River Basin • Steve Selin, West Virginia University One Hundred Social, Natural, and Engineering Science Students and Investigators across Seven Bioenergy Projects, Three Languages, Six Countries, One Thousand Qualitative Interviews, and Five Years: An Overview of our National Science Foundation PIRE Project • Kathleen E. Halvorsen, Michigan Technological University Diversifying Views on Ecosystem Services Use, Social Values and Participation: Q-sort Methodology Applied for Stakeholders Views Analysis in The Wielkopolska Province, Poland • Piotr Mątczak, Adam Mickiewicz University</td>
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<td>Integrating Outdoor Recreation in Marine Spatial Planning in Denmark – An Online Crowdsourcing Approach to Recreational Mapping • Bent Kjaer, University of Copenhagen Intellectuals in opposition to a coalition of environmentalists and grassroots stakeholders seeking changes to the existing law, and the fate and future of South</td>
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<td>Position on Environmental Issues, Pro-Environmental Ideology, Perception of the Energy Industry, and Engagement in Civic Actions • Gene Theodor, Sam Houston State University Environmental Orientation and Water Resources: Evidence from the 2014 “Utah’s Water Future” Survey • Taya Carothers, Utah State University Environmental Perceptions of Mexican and Argentine Bioenergy Projects • Erin C. Kowach, Michigan Technological University Community Perceptions of Bioenergy Projects in Canada and the USA • Jennifer L. Dunn, Michigan Technological University Community Perceptions of Bioenergy Projects in Canada and the USA • Jennifer L. Dunn, Michigan Technological University Community Perceptions of Bioenergy Projects in Canada and the USA • Jennifer L. Dunn, Michigan Technological University Creating a Decision Support Tool for Strategic Development Using an Expert Knowledge-Derived Bayesian Belief Network to Identify Streams Vulnerable to Urbanization Across the State of Maine • Kristen Wel, University of Maine Putting the Marcellus Shale in Context: National and International Comparative Perspectives on Hydraulic Fracturing • Richard Stedman, Cornell University Explaining Water Conservation Intentions in the Great Lakes Region of North America • Andrew Kozloch, Michigan Technological University Public Forests, Private Forests: Community Perceptions on the Use of Woody Biomass from Different Land Ownership in Wisconsin, USA • Aparajita Banerjee, Michigan Technological University The South Asian Irrigation Economy and Water Governance: Preventing the Tragedy of the Commons • Tanque Nazir, University of Wisconsin-Eau Claire Science in Conflict and Adaptation: An Exploration of Science Discourse in an ESA Decision Process • Casey Taylor, Oregon State University Splintered Understanding: Environmental and Health Impacts as a Lens for Exploring Disconnection between Residents’ Perceptions and Scientific Findings • Adrian Uzuniari, Utah State University</td>
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<td>Why Black-American Family Forest Landowners do not Actively Participate in Federal Landowner Assistance Programs in US South? • John Schelhas, Southern Research Station, U.S. Forest Service Creating a Decision Support Tool for Strategic Development Using an Expert Knowledge-Derived Bayesian Belief Network to Identify Streams Vulnerable to Urbanization Across the State of Maine • Kristen Wel, University of Maine Putting the Marcellus Shale in Context: National and International Comparative Perspectives on Hydraulic Fracturing • Richard Stedman, Cornell University Explaining Water Conservation Intentions in the Great Lakes Region of North America • Andrew Kozloch, Michigan Technological University Public Forests, Private Forests: Community Perceptions on the Use of Woody Biomass from Different Land Ownership in Wisconsin, USA • Aparajita Banerjee, Michigan Technological University The South Asian Irrigation Economy and Water Governance: Preventing the Tragedy of the Commons • Tanque Nazir, University of Wisconsin-Eau Claire Science in Conflict and Adaptation: An Exploration of Science Discourse in an ESA Decision Process • Casey Taylor, Oregon State University Splintered Understanding: Environmental and Health Impacts as a Lens for Exploring Disconnection between Residents’ Perceptions and Scientific Findings • Adrian Uzuniari, Utah State University</td>
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<td>Participatory Tools for Incorporating Community Knowledge and Values in Natural Resource Decision Making • Frances Eanes, University of Wisconsin-Madison</td>
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<td>Never the Same River Twice • Hugo Knisly Film Screening Panelists Hugo Knisly, South Carolina Rivers Forever Queen Quet, Chiefess of the Gullah/Geechee Nation</td>
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<td>Conservation and Gender or Race Barriers Risk, Vulnerability, Resilience, and Adaptive Capacity III Energy Development Landscape Scale Conservation and Transboundary Management III The Socioecological Tradecrafts of Climate Change Mitigation: Understanding Bioenergy Impacts across the Americas • Kathleen E. Halvorsen, Michigan Technological University, chair</td>
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<td>Natural Resource Law, Policy, Compliance, and Enforcement IV Public Participation, Collaboration, and Co-Management IX Speed Presentation Session</td>
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<td>Integrating Outdoor Recreation in Marine Spatial Planning in Denmark – An Online Crowdsourcing Approach to Recreational Mapping • Bent Kjaer, University of Copenhagen Intellectuals in opposition to a coalition of environmentalists and grassroots stakeholders seeking changes to the existing law, and the fate and future of South</td>
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<td>Carolina's rivers hangs in the balance.</td>
<td>A Conceptual Model for Assessing the Public’s Attitudes Toward Bioenergy Production Across the Americas • Brad Barnett, Michigan Technological University</td>
<td>Human-Tiger Conflict in Chitwan National Park, Nepal • Abishek Poudel, Lincoln University</td>
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<td>Conflicts Around the Management of Eastern Spruce Budworm Outbreaks. What Should Managers Pay Attention to? • Solange Nadeau, Natural Resources Canada/ Canadian Forest Service</td>
<td>The Ecosystem Services Concept in Environmental Conservation Policies: Empirical Investigation of the Polish Legal Documents • Krzysztof Maczka, Adam Mickiewicz University</td>
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**STUDENT QUIZ BOWL** | 5:30-6:30 PM | RSS 235

**ISSRM BANQUET** | 6:30-8:30 PM | STERN CENTER GARDENS

**THURSDAY | 18 JUNE 2015 | 8:30–10:00AM**

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**Changes in Hunter/Angler Participation and Implications for Management**
- Richelle Winkler, Michigan Tech University, chair
- Science and Products to Enhance Decision Making for Community Well-being, Safety, Conservation, and Resource Management
  - Maria Dillard, NOAA NCCOS, chair
- Urban Heritage Management
  - A Thriving Blackbuck Population in Chennai's Suburban Forests, India
  - Kannathasan Narasimmanagas, Madras Christian College
- Invasive and Endangered Species II
  - Spatial Distribution of Red Fox Dens in Comparison with Sea Turtle Nests, Environmental Characteristics, and Recreation Activity on an Uninhabited Barrier Island
  - Joanne Hallis, University of North Carolina-Wilmington
- Cultural Resources and Climate Change
  - Exploring Diverse Visions of Rural Landscapes Using Visual Q-methodology
  - Christy Hempel, University of Guelph

**Cohort Driven Social Change: Starting to Understand the Broad Shift away from Hunting and Angling**
- Loren Chase, Arizona Game and Fish Department
- The Role of Social Indicators in Ecosystem Management: Communities and the Challenges of Resource Conservation, Protection, and Restoration
  - Maria Dillard, NOAA NCCOS
- A Thriving Blackbuck Population in Chennai's Suburban Forests, India
  - Kannathasan Narasimmanagas, Madras Christian College
- Spatial Distribution of Red Fox Dens in Comparison with Sea Turtle Nests, Environmental Characteristics, and Recreation Activity on an Uninhabited Barrier Island
  - Joanne Hallis, University of North Carolina-Wilmington
- Exploring Diverse Visions of Rural Landscapes Using Visual Q-methodology
  - Christy Hempel, University of Guelph

**Understanding Shifting Demographic Patterns of Michigan's Hunters and Anglers**
- Chris Henderson, Michigan Tech University
- Economic Evaluation of Heritage Tourism Site Abayneh Village, Iran
  - Hoda Manafian
- Conservation Ethics and Risk Perceptions Associated with Human-Wildlife Conflict: Implications for Encouraging Stewardship
  - Michelle Lute, Indiana University
- Perception of Environmental Change: Indigenous Knowledge at Kenting National Park in Taiwan
  - Chen-Wei Cheng, The Pennsylvania State University

**The Locavore Angler/Hunter: Myth or Reality?**
- Lincoln Larson, Clemson University
- Stakeholder Engagement in the Mission-Aransas NERR: What, Where, and When Matters
  - Jarrod Loerzel, NOAA National Centers for Coastal Ocean Science
- Chillin' In the Backwoods: An Exploration of Rurality and Landscapes through Hick-Hop
  - Elizabeth Engle, The Pennsylvania State University
- Facilitating Informed Decision-Making to Prevent and Control Invasive Plants: Study of Indiana's Family Forest Owners
  - Myrtha Clarke, Purdue University
- "Cut it to use today, or save it for eco-tourism?" Communal decision-making in Southern Mexico
  - Ginger Deason, North Carolina State University
- Memorandums of Understanding as a Policy Solution for Hydraulic Fracturing
  - Skylar Ziliox, Colorado School of Mines
- Insights Participatory Social-Ecological Modeling Can Provide Into Better Protected Areas Management
  - Bao-Chi Phan, University of Queensland

**Non-Traditional Path Hunters in New York: Insights, Interests, and Social Support**
- Michael Quatruch, Cornell University
- Collecting Expert Knowledge of Priority Ecological Sites in the Region of the Northeast Natural Reserve, Puerto Rico
  - Angela Ortmeyer, NOAA National Centers for Coastal Ocean Science
- Interdisciplinary Perspectives on Evaluating New Technologies for Invasive Species Management
  - Megan Serr, North Carolina State University
- Trail Uses Trend and its Association with Temporal and Meteorological Patterns in Ocala Section of Florida Trail
  - Ramesh Paudyal, University of Florida
- Concept and Basic Direction of Forest Welfare in Korea
  - Yong Kim, Korea Forest Research Institute

**SocMon/SEM-Pasifikka: a decade of global socio-economic assessment to improve coastal management**
- Maria Pena, University of the West Indies
- Mission Engagement in the Coastal Ocean Science National Centers for Environmental Assessment to Improve Socio-ecological and Threats to Our National Security
  - Safety, Security, and Threats to Our National Security
  - Jarrod Loerzel, NOAA National Centers for Coastal Ocean Science
- "Cut it to use today, or save it for eco-tourism?" Communal decision-making in Southern Mexico
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  - Bao-Chi Phan, University of Queensland
- Helicopters, Props, and Jets: The Visual and Auditory Effects on Natural Landscapes
  - Vicki Ward, National Park Service

**Research and Conservation**
- Britton L. Mace, Southern Utah University, chair
- Public Participation, Collaboration, and Co-Management
- Enhancing Effectiveness of Irrigation Projects in Ethiopia: What Can Be Done Under Challenging Contexts?
  - Mastewal Yami, International Institute of Tropical Agriculture
### Thursday, 18 June 2015


#### Break | 10:00-10:30 AM

**Thursday Plenary | 10:30 AM - 12:00 PM | Sottile Theatre**

**Lunch (on your own) | 12:00-1:30 PM**

### Thursday, 18 June 2015 | 1:30-3:00 PM

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<td>THU.PM1.01</td>
<td>MYBK 100</td>
<td>Citizen Science – Between Scientific Research Assistance and Public Engagement</td>
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<tr>
<td>THU.PM1.02</td>
<td>RSS 103</td>
<td>An Agent-Based Model for Examining the Effects of Governance Structure</td>
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<td>MYBK 206</td>
<td>Using Realist Theory as a Lens to Evaluate Collaborative Environmental</td>
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<td>THU.PM1.04</td>
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<td>Local Political Dynamics of Coastal Resource Governance: Case Study of Tin</td>
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<td>Decision Science and Decision Making VIII</td>
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<td>THU.PM1.06</td>
<td>MYBK 107</td>
<td>Urbanization and the Peri-Urban Fringe I</td>
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<td>THU.PM1.07</td>
<td>MYBK 115</td>
<td>Working Landscapes and Natural Capital III</td>
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<td>THU.PM1.08</td>
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<td>Wildlife-Human Interactions V</td>
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<td>THU.PM1.09</td>
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<td>Artisanal Resource Use and Traditional Cultural Practices</td>
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### Break | 3:00-3:30 PM

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<th>Time</th>
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<tbody>
<tr>
<td><strong>THU.PM2.01</strong></td>
<td>Using Immersive Virtual Environment Technology for Natural Resource Social Science • Jordan Smith, North Carolina University, chair</td>
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<td><strong>THU.PM2.02</strong></td>
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<tr>
<td><strong>THU.PM2.03</strong></td>
<td>Designing a Standardized Sustainability Assessment: Improving Reporting • Alexandra Young, University of South Carolina</td>
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<tr>
<td><strong>THU.PM2.04</strong></td>
<td>Agricultural Carbon Markets and Poverty Alleviation: The Role of Boundary Organizations in Linking Buyers and Sellers to Achieve Multiple Outcomes • Jean Lee, Colorado College</td>
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<tr>
<td><strong>THU.PM2.05</strong></td>
<td>Adapting to Climate Change in the Northern Rockies: Lessons from a Large-Landscape Adaptation Plan • Travis Warznick, U.S. Forest Service</td>
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<tr>
<td><strong>THU.PM2.06</strong></td>
<td>Pro-Environmental Behaviors at Recreation Settings – Influencing Irresponsible Appalachian Trail Thru-hikers • Tian Guo, North Carolina State University</td>
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<td><strong>THU.PM2.07</strong></td>
<td>Workshop</td>
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<td><strong>THU.PM2.08</strong></td>
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<td>Poonam</td>
<td>Argade</td>
<td>Indian Institute of Technology Bombay</td>
<td>Representations of Invisible Waters by the State</td>
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<td>Hossein</td>
<td>Arzani</td>
<td>University of Tehran</td>
<td>Change Detection of Landuse by Satellite Imagery (Case Study; Taleghan Basin)</td>
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<td>Karen</td>
<td>Barton</td>
<td>University of Northern Colorado</td>
<td>The Role of Youth in Soundscape Preservation and Place Building</td>
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<td>Claudia</td>
<td>Benham</td>
<td>The Australian National University</td>
<td>Seeing, Feeling, Knowing: Local Knowledge and Participatory Impact Assessment, A Case Study from the Great Barrier Reef World Heritage Area, Australia</td>
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<td>Leigh</td>
<td>Bernacchi</td>
<td>University of Idaho</td>
<td>Climate Communication with Key Decision-makers</td>
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<td>Chiranjibi</td>
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<td>Alternative Energy Promotion Center/DDC Gulmi</td>
<td>Environmental and Health Impacts of Microhydro in a Rural Area of Nepal: A Case Study of a Nepalese village</td>
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<td>Gudmundur</td>
<td>Bjornsson</td>
<td>University of Iceland</td>
<td>The Impact of Wind Farms on Tourism in Iceland Highland</td>
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<td>Troy</td>
<td>Bowman</td>
<td>Iowa State University</td>
<td>Reducing Nutrient Loading in Midwest Streams: Iowa's Nutrient Reduction Strategy and the Necessity for Producer-centric Decision Support Tools</td>
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<td>Michael</td>
<td>Bradley</td>
<td>Eastern Kentucky University</td>
<td>The Birder, Twitcher, and Citizen Scientist: Characteristics of Birders in the United States and Greece</td>
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<td>Mark</td>
<td>Burbach</td>
<td>University of Nebraska-Lincoln</td>
<td>Determining the Effect of Default Options on Grid Parity</td>
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<td>Joana</td>
<td>Chan</td>
<td>Cornell University</td>
<td>Urban Foraging in the New York City Chinese American Community</td>
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<td>Sarah</td>
<td>Chase</td>
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<td>A Framework of Citizen Science: How the Nature of the Resource Influences Methods and Outcomes</td>
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<td>Chen-Wei</td>
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<td>Exploring Potential Variables Related to Volunteers' Involvement in a National Park</td>
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<td>Chi-Chin</td>
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<td>National Taichung University of Education</td>
<td>An Environmental Education Course for College Students—Urban Resources for Experiencing Aesthetics in the Environment</td>
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<td>Ga Young</td>
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<td>Korea Forest Research Institute</td>
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<td>Sarah</td>
<td>Church</td>
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<td>From Street Trees to Natural Areas: Connectedness to Nature, Local Environmental Knowledge, and Neighborhood-oriented Stewardship</td>
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<td>Cunningham</td>
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<td>Overcoming the Challenges of Food Deserts in Joplin, Missouri</td>
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<td>George Curry</td>
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<td>A Bridge Too Far? Socio-cultural Constraints on the Adaptation Responses of Smallholders to a Devastating Pest Outbreak in Cocoa</td>
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Conflict and Coexistence
Integrating Human Dimensions into Fish and Wildlife Management
Fairmont Mount Kenya Safari Club
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Submission Deadlines:
- October 30, 2015: Panel and Organized Session Proposals
- January 15, 2016: Abstracts for Poster and Paper Presentations
- March 4, 2016: Early Bird Registration Ends

Contact us by email at: issrm2016@gmail.com

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Notes: