



Conference on Parks, Protected Areas & Cultural Sites

March 14-18, 2011 • New Orleans, Louisiana

Concurrent Program Schedule – final

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 1 Napoleon A1/A2/A3 (3rd floor)	Assessing Vulnerability of Resources to Rapid Climate Change • John Gross, chair <i>Invited Papers</i>	Climate Change Vulnerability Assessments for Parks • John E. Gross	Comparison of Climate Change Vulnerability Assessment Methods for Species • Nancy Green	Vulnerability of Coastal Parks to Sea Level Change, Lake Level Change, and Storms • Rebecca Beavers	A Rapid Assessment of Climate Change Vulnerability for Biodiversity Conservation and Management in New Mexico • Carolyn Enquist	Vulnerability Assessment of Habitats and Landscapes • Patrick Comer
Session 2 Napoleon B1 (3rd floor)	Cultural Landscapes: From Sacred Lands to the Vernacular Urban Fabric • Bonnie Halda, chair <i>Contributed Papers</i>	Preservation in a Shifting Landscape: Multi-disciplinary Management of Scenic Resources in Yosemite National Park • David Humphrey & Kevin McCordle	A Productive Estate: Active Agriculture on Historic Properties • Laura Roberts et al.	Adapting Cultural Landscape Preservation to a Changing World • Margie Brown & H. Eliot Foulds	The Indigenous Cultural Landscape of the Eastern Woodlands: A Model for Conservation, Interpretation, and Tourism • Deanna Beacham	Q&A
Session 3 Napoleon B2 (3rd floor)	Science Communication • Kathie Adare, chair <i>Contributed Papers</i>	Broadening the Reach, Closing the Circle: Protected Lands and Environmental Literacy in the 21st Century • Eric Keeling & Alan Berkowitz	Science Communication Internships: Connecting Parks, Science, and People • Sara Delheimer et al.	Education and Relevancy: Training the Teachers and Engaging the Kids • Bruce Nash et al.	New Tools for Science Communication at Yosemite National Park • Niki Nicholas & Elizabeth Munding	New Science Communication Products on Mercury Contamination at Acadia National Park: A Collaborative Effort • Colleen Flangan et al.
Session 4 Napoleon B3 (3rd floor)	The Benefits of Utilizing Integrated Science for Research and Management • Charles van Riper & Robert Powell, chairs <i>Panel Discussion</i>	Panelists: Gary Machlis, Science Advisor to the Director, National Park Service, Washington DC Jan van Wagtendonk, Research Forester, Emeritus, U.S. Geological Survey, El Portal, CA Carena J. van Riper, Ph.D. Student, Texas A&M University, College Station, TX Bob Powell Russ Galipeau				
Session 5 Southdown (4th floor)	Managing Tourism Sustainably • Thomas Bremer, chair <i>Contributed Papers</i>	Tourism Best Management Practices (TBMP): Design and Acceptance by Operators • Linda Kruger et al.	The Impact of World Heritage Designation on Tourism to Cultural/Natural Heritage Sites • Elizabeth Halpenny	Social-ecological Resilience and Sustainability of Community-based Nature Tourism Development in Dominica • Patrick J. Holladay & Robert B. Powell	Understanding Factors that Predict Travel Decisions of U.S. Cultural and Heritage Travelers • Xiangping Gao & Michael E. Schuett	The Importance of Intimate Access to Cultural Sites: Chaco Culture National Historical Park • Wayne Freimund
Session 6 Gallier A/B (4th floor)	Coastal Heritage at Risk: Mitigating Threats to Cultural Heritage in Coastal Zones • Andy Ferrell, chair <i>Panel Discussion</i>	Panelists: Barrett Kennedy, Professor of Architecture, Louisiana State University, Baton Rouge, LA David Morgan, Director, NPS Southeast Archeological Center, Tallahassee, FL Patrick Sparks, Principal, Sparks Engineering, Round Rock, TX David Preziosi, Executive Director, Mississippi Heritage Trust, Jackson, MS Gustavo Araoz, President, ICOMOS				
Session 7 Nottoway (4th floor)	The Nature of History, The History of Nature: Environmental History and National Parks • David Louter & Rolf Diamant, chairs <i>Panel Discussion</i>	Panelists: Timothy Babalis, Historian, National Park Service, Pacific West Region, Oakland, CA Craig Colten, Professor of Geography, Louisiana State University, Baton Rouge, LA Rebecca Conard, Professor of History, Middle Tennessee State University, Murfreesboro, TN Jim Feldman, Professor of History, University of Wisconsin-Oshkosh, Oshkosh, WI Phil Scarpino, Professor of History, Indiana University-Purdue University Indianapolis (IUPUI), Indianapolis, IN				
Session 8 Oak Alley (4th floor)	Genetics • Robert Winfree, chair <i>Contributed Papers</i>	Incorporating New Science into Management: Developing a Non-invasive Technique to Estimate Population Size Using Fecal-DNA • Mary Kay Watry et al.	Is Genetic Purity a Problem for the National Parks? • Peter Dratch	Inbreeding and the Wolves of Isle Royale • Rolf Peterson et al.	Partnership Approach to Nursery Production of Locally Genetic Plants for Park Restoration and Landscape • Betty Young	Bison: Yesterday, Today, and Tomorrow • Mietek Kolipinski

Concurrent sessions • Monday morning, March 14 • 10:00–12:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 9 Bayside A (4th floor)	Visitor Safety & Resource Protection: Impacts of Crime & Illegal Immigration • Michael Huffman, chair <i>Contributed Papers</i>	Rethinking Crime Prevention in Natural Areas • Joel McCormick & Stephen Holland	Attributing Responsibility for Visitor Safety in Mount Rainier National Park: An Exploratory Study • Laura Rickard & Clifford Scherer	Continued Cultivation of Illegal Marijuana Production in U.S. Western National Parks • Jim Milestone & Charisse Sydoriak	On the Border in Everglades and Dry Tortugas: Exploring Immigration Impacts on Florida's National Parks • Amanda Bentley et al.	Assessing Border-related Human Impacts at Organ Pipe Cactus National Monument • Christopher Sharp
Session 10 Bayside B/C (4th floor)	Global Connections: A History of the National Park Service's International Programs • Jonathan Putnam, chair <i>Panel Discussion</i>	Panelists: Lary Dilsaver, Professor, University of South Alabama, Mobile, AL David Reynolds, Chief, Natural Resources and Science, Northeast Region, NPS, Philadelphia, PA Jacob Fillion, Environmental Education Chief and International Programs Coordinator, Grand Canyon National Park, AZ Alvaro Ugalde, Former Director, Costa Rica National Park Service Stephen Morris, Chief, NPS Office of International Affairs, Washington, DC				
Session 11 Maurepas (3rd floor)	Ecological Restoration • Julie Whitbeck, chair <i>Contributed Papers</i>	The Great Lakes Restoration Initiative: Opportunity for Restoration! • Brenda Waters et al.	Coming Full Circle: A Logger's Approach to Forest Restoration at Whiskeytown National Recreation Area • Jennifer Gibson (presented by Sean Denniston)	LiDAR Derived Forest Metrics for Forest Restoration at Redwood National & State Parks • Daryl Van Dyke & Lathrop Leonard	When, Why, and What to Monitor? A Case Study: Iceplant Removal at Point Reyes • Ellen Hamingson & Dylan Voeller	Q&A
Session 12 Borgne (3rd floor)	Knowledge and Ways of Knowing: Is Science Knowledge the Only Paradigm for Resource Management Decision-Making? <i>Sharing Circle</i>	Organizers: Judy Bischoff, CPCEU Coordinator, NPS, Flagstaff, AZ Jeff Bradybaugh, Superintendent, Bryce Canyon National Park Erik Nielsen, Assistant Professor, Northern Arizona University			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 13 Borgne (3rd floor)	Resource Literacy, Resource Needs: A Discussion About Improving Dialogue and Knowledge <i>Sharing Circle</i>	Organizers: Teresa Moyer, Archeologist, National Park Service, Washington, DC Sara Melena, Education Specialist, NPS Office of Education and Outreach, Natural Resource Program Center, Fort Collins, CO Angie Richman, Communication Specialist, Climate Change Response Program, National Park Service, Fort Collins, CO				

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 14 Napoleon A1/A2/A3 (3rd floor)	Adapting to Climate Change Effects in Protected Areas and Across Landscapes • Cat Hawkins Hoffman, chair <i>Invited Papers</i>	Applying Climate Change Science and Vulnerability Analyses to Adaptation of Natural Resource Management • Patrick Gonzalez	Climate Change and Cultural Resources: NPS Efforts to Address Climate Change Effects on Cultural Resources • Stephanie Toothman	Adapting to Sea-Level Rise: Challenges and Opportunities for the Nation's Coastal Parks and Communities • Maria G. Honeycutt	Climate Change Adaptation in Protected Areas and the 'Real World': Opportunities/Challenges at the Science-Management Interface • Christopher J. Lemieux	Enhancing Collaborative Approaches and Application of Science to Conservation Challenges: The Landscape Conservation Cooperative • Douglas Austen
Session 15 Napoleon B1 (3rd floor)	Establishing New Parks and Networks of Protected Areas • John Waithaka, chair <i>Contributed Papers</i>	The Federal Lands Contribution to Ecological System Conservation • Lisa Duarte et al.	Factors Influencing the Establishment of Protected Areas: Canada and Mexico • Angeles Mendoza Sammet & Michael Quinn	Creating New National Parks and Marine Conservation Areas: Achievements and Lesson Learned • Kevin McNamee	Sea-change: A New Approach to Oceans Planning and Management • Nicholas Irving	Theoretical Concerns in Networks of Protected Areas: Symmetry and Asymmetry • Robert Pahre
Session 16 Napoleon B2 (3rd floor)	Fire and Resource Management—Monitoring, Reconstruction, and Modeling: Applications of Fire Ecology • Richard Schwab & Nate Benson, chairs <i>Invited Papers</i>	A Methodology for Reconstructing Historic Fire Regimes in National Parks • Caroline Noble & Cecil Frost	Modeling Long-term Changes to Stand Structure and Fuels within Different Burn Severities • Karen Koenig	Mixed Conifer Regeneration Following Fires of Mixed Severities of the Last Eleven Years in Grand Canyon National Park • Anna Higgins	A Multifaceted Analysis of Fire Monitoring Handbook Data from Zion and Bryce Canyon National Parks • Katie Johnson	Fire Ecology in the Tallgrass Prairie Region: Integrating Long-term Monitoring with Fire Effects • Mike DeBacker & Sherry Leis
Session 17 Napoleon B3 (3rd floor)	Coastal Research and Engineering • Rebecca Beavers and Jodi Eshleman, chairs <i>Invited Papers</i>	Coastal Engineering Challenges in National Parks • Jodi Eshleman	A Plan for Coastal Resilience in Mississippi • Susan Ivester Rees & Jason B. Krick	Sea Level Rise Concerns for Everglades Restoration Planning • Glenn B. Landers	Marine Mapping for Managers in Ocean and Coastal Parks: Making it Possible with Partnerships • Mark Borrelli et al.	Evolution of Cape Lookout and Cape Hatteras National Seashores: Responses to Rising Sea Level • Stanley R. Riggs
Session 18 Southdown (4th floor)	Engaging Local Communities in World Heritage Sites: Experience from the Community Management for Protected Areas Programme • Jessica Brown, chair <i>Panel Discussion</i>	Panelists: Terence Hay-Edie, Programme Specialist, GEF Small Grants Programme, UNDP, New York, N.Y. Julio Moure, Coordinator, COMPACT-Mexico, Sian Ka'an Biosphere Reserve, Punta Allen, Mexico Celia Mahung, Executive Director, Toledo Institute for Development and Environment (TIDE), Punta Gorda, Belize Nora Mitchell, Director, Conservation Study, Institute, National Park Service, Woodstock, VT				
Session 19 Gallier A/B (4th floor)	Interpreting "Hidden" History • Rebecca Conard, chair <i>Contributed Papers</i>	Historic Restoration: The Re-Emergence of Yosemite and Sequoia's Buffalo Soldiers • Shelton Johnson	Les survivants de l'esclavage: The Archeology of Slavery at L'Hermitage Plantation, Maryland • Joy Beasley	Without Controversy: The Development of Fort Pillow State Historic Park • Benjamin Hayes	The National Underground Railroad Network to Freedom as an Innovative Program • Jenny Masur (presented by Joy Beasley)	But There Aren't Any Indians Here • Deanna Beacham
Session 20 Nottoway (4th floor)	Toward Natural Lightscapes and the State of Night in the National Park Service • Jeffrey Hallo, chair <i>Panel Discussion</i>	Panelists: Brandi L. Smith, Doctoral Student, Clemson University Dept. of Parks, Recreation, and Tourism Management, Clemson, SC Chad Moore, Night Sky Team Program Manager, National Park Service, Ft. Collins, CO Keven Poe, "Dark" Park Ranger, Bryce Canyon National Park, Bryce Canyon, UT John Kelly, Park Planner, Acadia National Park, Bar Harbor, ME G.B. Cornucopia, Park Ranger (Archaeoastronomer), Chaco Culture National Historical Park, Nageezi, NM				
Session 21 Oak Alley (4th floor)	Streams & Lakes • Rob Middlemis-Brown, chair <i>Contributed Papers</i>	Long-term Monitoring and the Effects of Fire on Stream Morphology and Amphibian Populations • Seth Riley et al.	Analysis of Trends in Climate and Stream Flow in North Coastal California Park Units • Mary Ann Madej	Climate-induced Predator Extinctions Modify Aquatic Community Structure in Arid Headwater Streams • Kate Boersma et al.	Mississippi National River and Recreation Area Water Quality: Assessing Past and Monitoring Future Changes • David VanderMeulen et al.	Monitoring Benthic Community Structure: An Investigation of Taxonomic Distinctness and Multi-dimensional Scaling • Andrea Woodward et al.

Concurrent sessions • Monday afternoon, March 14 • 1:30–3:35

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Session 22 Bayside A (4th floor)	Religion in the Parks: An Interdisciplinary Discussion • Thomas Bremer, chair <i>Panel Discussion</i>	Panelists: Lynn Ross-Bryant, Associate Professor, University of Colorado, Boulder, CO Kerry Mitchell, Director of Academic Affairs and Comparative Religion, Long Island University, Brooklyn, NY Judy Bonderman, Assistant Professor, American University, Washington, DC Dorothy FireCloud, Devils Tower National Monument, WYm				
Session 23 Bayside B/C (4th floor)	Advances in Biodiversity Discovery (All-taxa Biodiversity Inventories, BioBlitzes, etc.) across the National Park System • Kirsten Leong & Sally Plumb, chairs <i>Invited Papers</i>	From ATBI to Bioblitz: An Introduction to Biodiversity Discovery Initiatives in NPS • Sally Plumb et al.	Development of a Curriculum-based Education Program from an Invertebrate ATBI at Boston Harbor Islands • Marc Albert	A Nationwide Evaluation of NPS Pollinators (Bees) in Climate Sensitive Habitats • Ann Rodman	Discovering Biodiversity in Great Basin National Park: Using the BioBlitz to Initiate All-Taxa Database Development • Gretchen Baker	Advances from Fourth Annual BioBlitz in Partnership with National Geographic Society at Biscayne National Park • Susan Gonshor
Session 24 Maurepas (3rd floor)	Carrying Capacity • Ryan Sharp, chair <i>Contributed Papers</i>	Informed User Capacity Management Decision Making: Linking Visitor Use Levels to Visitor Experience • David Pettebone et al.	Alternative Indicators of Crowding at Alcatraz Island: A Comparative Analysis • Nathan Reigner et al.	“Standardized Standards”: Using Geospatial Data to Generalize Crowding Standards • Jeremy Wimpey et al.	In Search of the Magic Number: The Limitation of Visitor Numbers as a Last Resort in Müritz National Park, Germany • Christopher J. Garthe	An Investigation of Photograph Order-Effects in Visual-Based Outdoor Recreation Research • Adam Gibson et al.
Session 25 Borgne (3rd floor)	Healing Historical Trauma <i>Sharing Circle</i>	Organizers: Nathalie Gagnon, Senior Analyst, Aboriginal Affairs Secretariat, Parks Canada, Gatineau, Quebec, Canada			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 26 Borgne (3rd floor)	An Interdisciplinary Discussion about Fire / Fuels Science and Management <i>Sharing Circle</i>	Organizer: Vita Wright, Principal Investigator, Northern Rockies Fire Science Network, RMRS / NPS, Kalispell, MT				

Concurrent sessions • Monday afternoon, March 14 • 1:30–3:35

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 27 Napoleon A1/A2/A3 (3rd floor)	Communicating about Climate Change to Internal and External Audiences • Susan Sachs, chair <i>Invited Papers</i>	Communicating Climate Change through Citizen Science • Tara Carolin	From Melting Glaciers to Subtle Shifts: Strategies to Communicate a Range of Climate Change Impacts • Susan Sachs & Jim Pfeiffer-berger	Using Climate Change Modeling for Park Planning at Gateway National Recreation Area • Mark Christiano & Norbert Psuty	Using Great Tools from Multiple Programs to Better Understand Pollinators and Climate Change • Ann Rodman	Q&A
Session 28 Napoleon B1 (3rd floor)	The National Park Service Institutional Animal Care and Use Committee (NPS IACUC): What You Need to Know and How to Use It • John A. Bryan II, chair	Day-Capper				
Session 29 Napoleon B2 (3rd floor)	Monitoring and State of the Park Reporting Systems for Parks Canada and the U.S. National Park Service • Stephen Woodley, chair <i>Panel Discussion</i>	Panelists: Donald McLennan, Parks Canada Agency, National Monitoring Biologist, Gatineau, Quebec Christie Spence, Head Planning and Reporting, Parks Canada Agency, Gatineau, Quebec Stephanie Toothman, Associate Director, Cultural Resources, USNPS, Washington, DC Bert Frost, Associate Director, Natural Resources, USNPS, Washington, DC				
Session 30 Napoleon B3 (3rd floor)	Advancing Wild and Scenic River Planning across the National Park Service • Tracy Atkins, chair <i>Panel Discussion</i>	Panelists: Bill Hansen, Acting Chief, NPS NRPC Water Rights Branch, Fort Collins, CO Gary Weiner, Regional WSR Coordinator, NPS Rivers, Trails and Conservation Assistance, Bozeman, MT Jennifer Carpenter, Park Planner, NPS Grand Teton National Park, Jackson, WY Chris Church, Project Manager, NPS Denver Service Center, Planning Division, Denver, CO				
Session 31 Southdown (4th floor)	Wilderness • Dick Anderson, chair <i>Contributed Papers</i>	What Wilderness Needs: A Proposed Framework for Managing Commercial Services in Wilderness • Michele Dauber et al.	Alaska Case Study: Decision Making for Science in Wilderness • Judy Alderson & Robert Winfree	Wilderness Inter-group Encounters: An Examination of Monitoring Practices, Standards, and Management Implications • Robert Dvorak et al.	Perspectives on Wilderness Rock Climbing Fixed Anchors: Joshua Tree National Park, California, Case Study • Erik Murdock	Naturalness vs. Wildness: Visitor Support for Management Alternatives to Anthropogenic Changes in the Bridger Wilderness • Andrea Davidson & Troy Hall
Session 32 Gallier A/B (4th floor)	Responding to Disaster: Katrina and Deepwater Horizon • Barrett Kennedy, chair <i>Contributed Papers</i>	How an Over-emphasis on Shoreline Resource Protection May Have Made the Gulf Oil Spill Worse • Sean Anderson	Irreplaceable Heritage at Risk: Preparing for Disasters in the Coastal Zone (and Elsewhere...) • Barrett Kennedy	Important Interpretive Elements Associated with the Story of Hurricane Katrina and Other Significant Hurricane Disasters • Donald Rodriguez et al.	Post-Deepwater Horizon Marine Spatial Planning as an International Model for Marine Protected Areas • Shannon Sims	Strategic Sciences and the Deepwater Horizon Oil Spill • Gary Machlis & Marcia McNutt
Session 33 Nottoway (4th floor)	Knowledge All Around You: Cultural Landscapes Management from a Landscape Point of View • Jill Cowley, chair <i>Panel Discussion</i>	Panelists: Elizabeth K. Goetsch, Park Ranger, Stones River National Battlefield, Murfreesboro, TN Jill Cowley, Historical Landscape Architect, National Park Service Intermountain Region, Santa Fe, NM Laura Shuster, Chief, Cultural Resource Division, Hawaii Volcanoes National Park, HI				
Session 34 Oak Alley (4th floor)	Five Minutes of Fame: Using Video to Promote Science and the Parks • Ted Gostomski and Sara Melena, chairs <i>Day-Capper</i>	Presenters: Ted Gostomski, Science Writer/Biologist, National Park Service, Great Lakes Inventory and Monitoring Network, Ashland, WI Sara Melena, Education Specialist, National Park Service Office of Education & Outreach, Ft. Collins, CO				

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 35 Bayside A (4th floor)	Tracking Global Change at Local Scales: Phenology for Science, Conservation, Management, Education, and Outreach • Jake Weltzin, chair <i>Invited Papers</i>	The Potential Contribution of Phenology to the National Park Service • Abraham Miller-Rushing	The California Phenology Network (CPN): Integrating Phenology Monitoring Across Protected Areas in California • Angela Evenden et al.	Watching, Photographing, and Listening: Phenology Monitoring in the Northeast Temperate Network • Brian Mitchell	Phenology at Great Smoky Mountains National Park • Keith Langdon	Role of the USA National Phenology Network: Tools and Opportunities • Jake F. Weltzin
Session 36 Bayside B/C (4th floor)	Managing Use on Half Dome: Investigation, Simulation, and Monitoring to Inform Planning and Visitor Management in Yosemite National Park • Bret Meldrum, chair <i>Invited Papers</i>	Implementing Crowding Induced Changes to the Wilderness Management of Half Dome • Mark Marschall	Investigating Day Use on Half Dome: Visitor Behavior and Perceptions of Crowding and Risk • Nathan Reigner et al.	Half Dome Cables Scenario Analysis and Modeling • Brett Kiser et al.	Monitoring the Effects of the Half Dome Interim Permit System in Yosemite National Park • David Pettebone et al.	Half Dome Cables Historic Overview and Environmental Planning • Daniel Schaible et al.
Session 37 Maurepas (3rd floor)	Advances in Understanding Human-Wildlife Habituation in and Around Protected Areas • Kirsten Leong, chair <i>Invited Papers/Panel Discussion</i>	Improving Communication about Habituation and Other Learned Behaviors in Wildlife to Inform Management • Lauren Barish et al.	A Situation Analysis of Human-Wildlife Habituation in NPS Units • Heather Wiczorek Hudenko & Daniel J. Decker	Steering Committee Reflections on Advances in Knowledge • Human-Wildlife Habituation Steering Committee	Panel discussion and audience Q&A	
Session 38 Borgne (3rd floor)	Keeping Parks Relevant to a Changing American Public <i>Sharing Circle</i>	Organizers: Erik Eichinger, Director, NPCA's Center for Park Management, Dallas, TX Cyndi Szymanski, Director, NPCA's Center for Park Management, Golden, CO Tom Ferranti, Deputy Associate Director, Workforce Management, Washington, DC			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 39 Borgne (3rd floor)	Oil Spills and Protected Areas: Management Considerations <i>Sharing Circle</i>	Organizers: Fritz Klasner, Resource Management Team Leader, Kenai Fjords National Park, Seward, AK Jeff Mow, Superintendent, Kenai Fjords National Park, Seward, AK				

Concurrent sessions • Monday afternoon, March 14 • 4:00–6:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 40 Napoleon A1/A2/A3 (3rd floor)	Civic Engagement: What Does that Mean Again? • Nora Mitchell, chair <i>Panel Discussion</i>	Panelists: Nora Mitchell, Director, Conservation Study Institute, National Park Service, Woodstock, VT Barbara Little, Archeologist and Editor of CRM Journal, Archeology Program, National Park Service, Washington, DC Rick Potts, Chief of Conservation and Outdoor Recreation, National Center for Recreation and Conservation, National Park Service, Washington, DC Dean Reeder, Chief of Tourism, Office of Sustainable Tourism, National Park Service, Washington, DC				
Session 41 Napoleon B1 (3rd floor)	Sea Level Rise: Science and Applications in Coastal Parks • Rebecca Beavers & Maria G. Honeycutt, chairs <i>Invited Papers</i>	Trends in Sea Level Rise Science • Leonard Pearlstine	Measuring Coastal Elevation • Christine Gallagher & Tim Smith	Planning for Coastal Storms: Using Scientific Tools to Guide Recovery in the Context of Sea Level Rise • George Rogers & Eric Bardenhagen	Supporting Coastal Resource Management and Increasing Resilience: NOAA Sea-Level Rise Products and Services • Paul M. Scholz	Cultural Resources: Management Challenges in Light of Global Climate Change • Teresa Moyer
Session 42 Napoleon B2 (3rd floor)	Managing Protected Areas in the Face of Increasing Urbanization: An Overview • Christy Brigham & Seth Riley, chairs <i>Invited Papers</i>	The Crucial Role of Urban Parks and Ecology in an Increasingly Urban World • Ray Sauvajot	The Dilemma of Managing Parks Based upon Narrow Legislation within a Regional Ecological Context • Dan Sealy	Engaging New Audiences in Park Stewardship at the Urban Edge • Christy Brigham	Challenges of Ecosystem Restoration and Protection in the New York / New Jersey Metropolitan Region • Doug Adamo	Urban Fear Factor: An Examination of Fear Expectancy of Urban Youth & Intentions to Visit Cuyahoga Valley National Park • Timia Thompson et al.
Session 43 Napoleon B3 (3rd floor)	Engaging America's Youth the Future of Conservation and Preservation • Susan Teel et al., chairs <i>Invited Papers</i>	Looking for Polar Bears: Intern Journeys in DC's National Parks • Giselle Mora-Bourgeois	Research Internships: Bridging Research and Education to Benefit National Park Service Managers • Joy Marburger	The Misbehaving Spring: Studying Unique Underground River Flow Patterns with Advanced Middle School Science Students • Shannon Trimboli	Climate Change Ambassadors: Learning, Exploration, and Leadership • Nick De Rouilhac et al.	Youth in Parks Science Internships • Jessica Luo et al.
Session 44 Southdown (4th floor)	Stewardship through Communication • Chad Moore, chair <i>Invited Papers</i>	Stewardship through Communication • Julia Washburn	Telling the Air Quality Story in Great Smoky Mountains National Park • Susan Sachs	A Powerful World of Sound • Lelaina Marin & Deanna Ochs	Ambassadors of the Night • Chad Moore	NPS Herbaria Go Global • Ann Hitchcock
Session 45 Gallier A/B (4th floor)	Wildlife Management: Mammal Species • Mary Kay Watry, chair <i>Contributed Papers</i>	Partnering for Pikas: A Multi-park Monitoring Protocol for the American Pika • Mackenzie Jeffress et al.	Stable Isotope Ecology of Small Mammals in Great Basin National Park • Bryan Hamilton et al.	Cruise Ship-Humpback Whale Interactions in Glacier Bay National Park • Scott Gende et al.	Elk Culling at Rocky Mountain National Park: Rethinking Traditional Federal and State Roles • Gary Miller et al.	Movement of Elk in Great Sand Dunes National Park in Response to Water Resource Availability • Sarah Garza
Session 46 Nottoway (4th floor)	Thresholds for Ecological Systems and Their Management • Amy Symstad, chair <i>Invited Papers</i>	Thresholds for Conservation and Management: A Conceptual Framework • M.J. Eaton et al.	Utility Values and Simulation to Optimize Bioassessment Designs • D.R. Smith et al.	Ecological Thresholds for Salt Marsh Nekton and Vegetation Communities • Mary-Jane James-Pirri et al.	Richness and Diversity Responses to Management and Weather in Great Plains Grassland Plant Communities • Jayne L. Jonas et al.	Discussion of Ecological, Utility, and Decision Thresholds • Amy J. Symstad

Concurrent sessions • Tuesday morning, March 15 • 10:00–12:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 47 Oak Alley (4th floor)	Recreation and Resource Impacts: Ecological and Human Dimensions • Yu-Fai Leung et al., chairs <i>Invited Papers</i>	Establishing the Ecological Significance of Informal Trail Indicator in Yosemite National Park through an Integrated Meadow Analysis • Yu-Fai Leung et al.	Assessing the Development of Emerging Informal Trail Networks in Denali National Park and the Arctic National Wildlife Refuge • Jeremy Wimpey et al.	Classifying Campsites Using Multivariate Analyses: A Replacement for Condition Classes? • Christopher Monz & Paul Twardock	Identifying Indicators of Quality for the Backcountry Visitor Experience at Kenai Fjords National Park, Alaska • Kelly Goonan et al.	Sustainably Designed Trails: Recent Recreation Ecology Findings on Design Factors Affecting Soil Loss • Jeffrey Marion & Jeremy Wimpey
Session 48 Bayside A (4th floor)	Climate Change Monitoring • Rebecca Stanfield McCown, chair <i>Contributed Papers</i>	Geotemporal Dimensions of Change: Two-Dimensional Coastal Geomorphological Monitoring in the Northeast Coastal and Barrier Network • Norbert P. Psuty et al.	Ice in the Everglades: Impacts of the 2010 Cold Event on Flora and Fauna and Implications for Monitoring and Resource Management • David Hallac	Climate Change, Saguaro, and Perennial Vegetation at Saguaro National Park • Adam Springer et al.	Managing Climate Station Data to Reduce Errors During Analysis • Mike Tercek	Using High Accuracy Geodesy to Assess Risk from Climate Change in Coastal National Parks • Michael Bradley et al.
Session 49 Bayside B/C (4th floor)	Natural Resources Emeritus Program: The Transfer of Institutional Knowledge • Lynne Murdock, chair <i>Panel Discussion</i>	Panelists: Lynne Murdock, Interpretive Liaison, NPS, Washington, DC David Parsons, Emeritus Program, NPS, Missoula, MT Lindsay McClelland, Emeritus Program, NPS, Washington, DC Mark Flora, Emeritus Program, NPS, Fort Collins, CO Gary Johnston, Emeritus Program, NPS, Washington, DC				
Session 50 Maurepas (3rd floor)	Successful Restoration of Threatened and Endangered Species in National Parks • Peter Dratch et al., chairs <i>Invited Papers</i>	Introduction: The Endangered Species Program and its Impact on National Parks • Nancy Brian & Peter Dratch	Propagation and Augmentation of Federally Listed Mussels in the Big South Fork • Steve Bakaletz & Tim Pinion	Black-footed Ferret Restoration in Badlands National Park: An Example of Multiagency Cooperation over Multiple Jurisdictional Boundaries • Brian Kenner & Cay Ogden	Restoration of Threatened and Endangered Species in Golden Gate National Recreation Area • Mietek Kolipinski et al.	Strategies for Successful T&E Restoration Proposal and Projects • Peter Dratch & Diane Pavek
Session 51 Borgne (3rd floor)	Tribal Coalition Project to Protect Cultural Resources in California Desert <i>Sharing Circle</i>	Organizer: Anthony Madrigal, Director, Cultural Resources, San Manuel Band of Mission Indians, Highland, CA			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 52 Borgne (3rd floor)	What Will It Take for NPS to be a High-performing Agency? <i>Sharing Circle</i>	Organizer: Kate Richardson, Program Manager–Workplace Enrichment, National Park Service, Sausalito, CA				
Session 53 Rhythms I–III (2nd floor)	National Park Service Inventory & Monitoring Keynote Session: The State of the Program • NPS Science Initiative • Steve Fancy, chair <i>Panel Discussion</i>	Panelists: Bert Frost, Associate Director, NRSS, Washington DC Steve Fancy, I&M Program Leader, Fort Collins, CO George Dickison, Center Director, NRSS Natural Resource Program Center, Fort Collins, CO Margaret Beer, I&M Data Manager, Fort Collins, CO Gary Machlis, Science Advisor to the Director, Washington DC Jon Jarvis, NPS Director (invited)				

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		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 54 Napoleon A1/A2/A3 (3rd floor)	Creating Connections with Communities: Case Studies of Civic Engagement Principles and Practices • Katherine Faz, chair <i>Panel Discussion</i>	Panelists: Alison Bullock, Community Planner, NPS Rivers, Trails, and Conservation Assistance Program, Chattanooga, TN Katherine Faz, Community Planner, Pecos National Historical Park, Pecos, NM Liz Smith-Incer, Mississippi Field Office Coordinator, NPS Rivers, Trails, and Conservation Assistance Program, Ocean Springs, MS Jim Foster, Executive Director, Gulf Coast Heritage Trails Partnership, Ocean Springs, MS				
Session 55 Napoleon B1 (3rd floor)	Climate Change at High Latitudes • Jim Lawler, Chair <i>Invited Papers</i>	The Abundance and Distribution of Trees on the Landscape of Denali National Park and Preserve • Carl Roland	Caribou in a Changing World • Kyle Joly & David R. Klein	Impacts of Permafrost Degradation on Shallow Lakes and Wetlands in Kobuk Valley National Park • Amy Larsen	Glacier-Change Mapping in the Southwest Alaska National Parks • Bruce Giffen & Dorothy Hall	Managing Arctic Biodiversity in a Changing World: Proactive Adaptive Management in Canada's Arctic National Parks • Donald McLennan
Session 56 Napoleon B2 (3rd floor)	Listen in on the Sounds of Bryce Canyon and Zion National Parks • Ericka Pilcher et al., chairs <i>Invited Papers</i>	A Multi-Methodological Approach to Analyzing the Soundscape of Bryce Canyon National Park • Britton L. Mace & Grant C. Corser	Acoustical Monitoring in Peregrine Falcon Territories at Bryce Canyon National Park • Sarah Haas et al.	The History Behind the Creation of the Zion National Park Soundscape Management Plan • Kristin L. Legg & Kezia Nielsen	Soundscape Management Planning at Zion National Park • Frank Turina & Kezia Nielsen	Integrating Soundscapes into National Park Service Planning • Vicki McCusker & Kerri Cahill
Session 57 Napoleon B3 (3rd floor)	Gulf to Gulf: Protected Areas of the Gulf of Honduras meet the Gulf of Mexico • Brent Mitchell & Jessica Brown, chairs <i>Panel Discussion</i>	Panelists: Celia Mahung, Executive Director, Toledo Institute for Development and Environment (TIDE), Punta Gorda, Belize Gregorio Ch'oc, Executive Director, Sarstoon Temash Institute for Indigenous Management, Punta Gorda, Belize Luis Fueyo, National Commission on Natural Protected Areas, Mexico				
Session 58 Southdown (4th floor)	Building Resiliency • Carol Guy, chair <i>Panel Discussion</i>	Panelists: Doug Meffert, Schwartz Professor for River & Coastal Studies, Tulane University, New Orleans, LA Elizabeth "Boo" Thomas, President & CEO, Center for Planning Excellence, Baton Rouge, LA Sean Anderson, Assistant Professor of Environmental Science and Resource Management, California State University-Channel Islands, Camarillo, CA				
Session 59 Gallier A/B (4th floor)	Inside Management: Understanding the Decision-making Process and the Effectiveness of its Outcomes • Carena van Riper, chair <i>Contributed Papers</i>	Connecting Place Meanings to Environmental Governance at the Great Barrier Reef Marine Park • Carena van Riper et al.	Effective Organizations for Management Effectiveness: Another View of Protected Areas Development • Lloyd Gardner	Management Assessment of the Daymaniyat Islands and Ras al Hadd Nature Reserves, Oman • Stewart Fefer et al.	The Nature of Conservation: A Cultural Values Approach to National Parks in Uganda • Arthur Mugisha et al.	Sótano de las Golondrinas: Indigenous Peoples, Decision-making, and the Effectiveness of Conservation • Angeles Mendoza Sammet
Session 60 Nottoway (4th floor)	Imagination, Management and Survival: Investigations into the Historical Geography of American Parks • Terence Young, chair <i>Invited Papers</i>	Outdoors, Indoors and Four Doors: Automobility and the Evolving Character of Outdoor Recreation, 1920-1941 • Peter J. Blodgett (1:30–1:50)	The Abstract Wild: Postcards, History, and Visual Narratives at the Grand Canyon • Yolonda Youngs (1:50–2:10)	Exporting the Park: The National Park Service's Diffusion of Nature Management around the World • Terence Young & Lary Dilsaver (2:10–2:30)	Did Nature Survive in the Unnatural Metropolis? Parks in Post-Katrina New Orleans • Craig Colten (2:30–2:50)	Q&A (2:50–3:35)
Session 61 Oak Alley (4th floor)	Managing Caves and Bats in the NPS in the Face of White-Nose Syndrome • Rickard Toomey, chair <i>Panel Discussion</i>	Panelists: Steven C. Thomas, Monitoring Program Leader, Cumberland Piedmont Network (NPS), Mammoth Cave, KY Kevin T. Castle, Wildlife Veterinarian, WASO-Biological Resource Management Division (NPS), Fort Collins, CO Cay Ogden, Wildlife Ecologist and T&E Coordinator, Intermountain Region (NPS), Denver, CO Tom Rodhouse, Ecologist, Upper Columbia Basin Network I&M Program (NPS), Bend, OR				
Session 62 Bayside A (4th floor)	Estuary & Coastal Environments • Lewis Sharman, chair <i>Contributed Papers</i>	Canal Reclamation at the Barataria Preserve Unit, Jean Lafitte National Historical Park and Preserve, Louisiana • Dusty Pate et al.	Coastal Wetland Management in Europe: A Case Study from the Ebro River Natural Park (Catalonia, Spain) • Peter J. Sharpe et al.	Understanding Marsh Loss in an Urban Estuary: Jamaica Bay, Gateway National Recreation Area, New York • Patricia Rafferty & Charles T. Roman	Twenty Years of Rocky Intertidal Monitoring at Cabrillo National Monument: Analysis of Long Term Trends • Benjamin Pister & Tom Philippi	Monitoring Salt Marsh Elevation Change in the Northeast: Anticipating Habitat Responses to Sea Level Rise • Charles Roman et al.
Session 63 Bayside B/C (4th floor)	The Evolving Role of Tribes in Wildlife Restoration in Conjunction with the NPS • Jim Stone, chair <i>Panel Discussion</i>	Panelists: Jim Stone, Executive Director, Inter Tribal Buffalo Council (ITBC), Rapid City, SD Ervin Carlson, President ITBC, Blackfeet Tribe, Browning MT Birgil Kills Straight, Executive Director, Oglala Sioux Tribe, Kyle, SD Tom MacDonald, Director, Natural Resources, Confederated Salish and Kootenai				

Concurrent sessions • Tuesday afternoon, March 15 • 1:30–3:35

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 64 Maurepas (3rd floor)	Up Close with Danger: Managing Human Behavior Around Predatory Animals • James Gramann, chair <i>Contributed Papers</i>	Visitor-Carnivore Conflicts in National Parks: Any Reprieve for Large Predators? • John Waithaka	Bear Viewing in Katmai National Park: Understanding Bear and Human Use through Time-lapse Photography • Carissa Turner	Twenty Years of Brown Bear-Human Conflict Management at Brooks River, Katmai National Park and Preserve • Cory Mosby & Troy Hamon	Day Hikers in Bear Country: A Study of Knowledge, Fear, and Protection Motivation • Ariel Blotkamp et al.	Federal Preemption of State Intensive Management of Predators in Protected Areas • Julie Joly
Session 65 Borgne (3rd floor)	Native Plant Nurseries in Parks: Their Unique Challenges and Opportunities <i>Sharing Circle</i>	Organizer: Betty Young, Director of Nurseries, Golden Gate National Parks Conservancy, San Francisco, CA			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 66 Borgne (3rd floor)	Engaging Indigenous Peoples in the Management and Protection of Protected Areas <i>Sharing Circle</i>	Organizer: Nathalie Gagnon, Senior Analyst, Aboriginal Affairs Secretariat, Parks Canada, Gatineau, Quebec, Canada				
Session 67 Rhythms I/II (2nd floor)	Inventory and Monitoring Data Analysis and Synthesis I • Tom Philippi & Tom Rodhouse, chairs <i>Invited Papers</i>	Using Distance Sampling to Estimate Dall's Sheep Abundance in Gates of the Arctic and Wrangell-St. Elias NPPres • Joshua Schmidt et al.	Harbor Seal Distribution Related to Anthropogenic Disturbance and Natural Variation During 1982–2009 • Ben Becker et al.	Long Term Datasets with High Annual Variability: A Review of the San Francisco Bay Area Network Salmonid Monitoring Program • Michael Reichmuth & Leigh Ann Starceвич	Implications of Model Specification and Temporal Revisit Designs on Trend Detection • Leigh Ann Starceвич et al.	Q&A
Session 68 Rhythms III (2nd floor)	Effective Science Communication • Ted Gostomski et al., chairs <i>Panel Discussion</i>	Panelists: Megan Nortrup, Science Communicator & Writer, NPS, National Capital Region Inventory and Monitoring Network, Washington, D.C. Cory Nash, Science Communications and Outreach Coordinator, Hawaii-Pacific Islands CESU/University of Hawaii, Honolulu, Hawaii Janine Waller, Editorial Assistant, Yellowstone Center for Resources, Yellowstone National Park, Wyoming Paulina Starkey, Science Communication Specialist, U of Idaho/Upper Columbia Basin Inventory & Monitoring Network, Moscow, Idaho Michelle O'Herron, Science Communications Specialist, NPS/Golden Gate National Parks Conservancy, San Francisco, California				
Session 69 Edgewood A/B (4th floor)	Web-based Display of Geospatial Data • Nigel Shaw, chair <i>Presentations & Panel Discussion</i>	The Park Atlas: An Overview of Web-Based Mapping Technology for Park Planning • Nell J. Blodgett (1:30–1:50) Using NPMMap to Create Web Maps • Nate Irwin (1:50–2:10) Development of Web-based Mapping and Analyses Tools to Support Program Initiatives in the Southeast Region • David L. White (2:10–2:30) Internet GIS Delivery for NPS Resource Management • Bill Slocumb & Justin Shedd (2:30–2:50) Expediting the Deployment of the Google Earth Browser Plug-in, Open Layers, and Google Maps: A Suite of Sweet Tools • Roland Duhaime (2:50–3:10) Q&A (3:10–3:30)				
Session 70 Evergreen (4th floor)	Vegetation Inventory Workshop: Consultation, Q&A, and Strategizing • Karl Brown & Tammy Cook, chairs	<i>Workshop</i>				
Session 71 Oakley (4th floor)	Stress Management for Ecological and Visitor Impacts of Climate Change in Ocean Parks • Cliff McCreedy, chair <i>Invited Papers</i>	Giacomini Wetland Restoration: Enhancing Ecological Resilience in the Tomales Bay Watershed • Brannon Ketcham	Impacts on the Visitor Experience at Great Lakes National Parks • Bob Krumenaker	Long-Term Monitoring Pays Off in Healthier Kelp Forest Ecosystems • Russell Galipeau	Raising the Bar for Water Quality in Coastal Parks • Eva DiDonato	Virgin Islands Corals in Hot Water Again • Jeff Miller

Concurrent sessions • Tuesday afternoon, March 15 • 1:30–3:35

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 72 Napoleon A1/A2/A3 (3rd floor)	Science and Stewardship in the National Park Service: New Faces, New Challenges Ahead • Beth Johnson, chair <i>Day-Capper</i>	Presenters: Beth Johnson Bert Frost Elaine Leslie				
Session 73 Napoleon B1 (3rd floor)	Current Conversations in Ungulate Management in the National Park Service • Therese Johnson et al., chairs <i>Invited Papers</i>	The Re-emergence of Active Management Programs for Abundant Ungulate Populations in National Park Units • Ryan Montello	Managing Elk in the Absence of an Intact Ecosystem: Challenges in Rocky Mountain National Park • Therese Johnson et al.	White-tailed Deer Management at Catoclin Mountain Park • Lindsey Donaldson et al.	Balancing Brucellosis Risk Management and Bison Conservation in Yellowstone • PJ White et al.	To Ungulate or Not to Ungulate: Is that the Question? • Glenn Plumb
Session 74 Napoleon B2 (3rd floor)	Fire and Resource Management: Our Landscapes are Being Invaded! • Richard Schwab & Mark Fitch, chairs <i>Invited Papers</i>	Perennial Invasive Grass Fires Threaten to Convert the Sonoran Desert Ecosystem • Dana Backer & Perry Grissom	Fire and Exotic Plant Management in Southern Florida • Jim Burch	Fighting Cheatgrass Instead of Fire in Zion National Park—Summary of Treatment Effectiveness and Lessons Learned • Eric Lassance & Cheryl Decker	A New Challenge for Resource Advisors: Preventing the Spread of Aquatic Invasive Species During Fire Operations • Sandee Dingman	Effects of Post-fire Restoration Work in Zion National Park: Battling Cheatgrass with Large-scale Applications of Herbicide • Andrea Thode
Session 75 Napoleon B3 (3rd floor)	Conserving Aquatic Species within the National Park System • John Wulfschleger & Nic Medley, chairs <i>Invited Papers</i>	Reef Fish Movements from the Dry Tortugas National Park Research Natural Area • Michael Feeley et al.	The Invasion of the Indo-Pacific Lionfish in Biscayne National Park • Vanessa McDonough	Using Stereo-video Technology to Monitor Population Dynamics of the Critically Endangered Devils Hole Pupfish • D. Bailey Gaines et al.	Development and Application of a RIVPACS Biological Assessment Model for Streams in Alaskan National Parks • Trey Simmons & Jeffrey Ostermiller	Planning for an evolutionary future in the presence of climate change: The quest for adaptive genetic variation among brook trout populations • Tim King
Session 76 Southdown (4th floor)	New Orleans Musical Heritage: Songs of the Underground Railroad • Carol Clark, chair <i>Day-Capper</i>	Musical presenters: Bruce Barnes, Jean Lafitte NHP&Pres Matt Hampsey, Jean Lafitte NHP&Pres (more TBA)				
Session 77 Gallier A/B (4th floor)	Technology for Cultural Resources Management: GIS and Other Techniques • Bonnie Halda, chair <i>Contributed Papers</i>	Historical GIS and the Pre-Park Population of Mammoth Cave National Park • Katie Algeo	How Battlefields Disappear • John Knoerl	What Lies Beneath: Design Techniques for Volumizing and Revealing Layers of an Archaeological Park • Laurie Matthews	Creating Cultural Resource Spatial Data Standards • Deidre McCarthy	Q&A
Session 78 Nottoway (4th floor)	Managing Visitor Activities in Wilderness • David Parsons, chair <i>Contributed Papers</i>	Management Implications Based on Visitor Use Data from Nordhouse Dunes Wilderness • Carol Griffin	Learning from Locals: Using Oral History in the Wilderness Planning Process • Alison Steiner & Daniel R. Williams	Frontcountry and Backcountry Visitor Attitudes Towards Leave No Trace: Are We Preaching to the Choir? • Derrick Taff et al.	Building the Next 50 Years of Research at the Aldo Leopold Wilderness Research Institute • Cindy Swanson	Yosemite Wilderness Visitor Travel Patterns: Implications for Trailhead Permit Quotas • Mark Douglas & Steven R. Martin
Session 79 Oak Alley (4th floor)	Vernacular Cultural Landscapes within Lake Superior Area National Parks • Brenda Williams, chair <i>Invited Papers</i>	Managing Historic Light Station Properties at Apostle Islands National Lakeshore • David J. Cooper	Addressing Layers of Time in the Landscape at Grand Portage National Monument • Marla McEnaney	Preserving and Interpreting Fishing Camps at Isle Royale National Park • Seth DePasqual	Managing the Historic Industrial Landscapes at the Quincy Mining Company Historic District National Historic Landmark • Brenda Williams	Q&A
Session 80 Bayside A (4th floor)	Southeast Region Science and Natural Resource Management Marine Scientists Meeting	4:50–6:05				

Concurrent sessions • Tuesday afternoon, March 15 • 4:00–6:05

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 81 Bayside B/C (4th floor)	Addressing Invasive Exotic Insects Affecting Eastern Parks • Rich Evans, chair <i>Panel Discussion</i>	Panelists: Faith Campbell, Senior Policy Representative, The Nature Conservancy, Arlington, VA Dave Reynolds, Chief Natural Resources and Science, NPS NER Philadelphia, PA, James Akerson, Exotic Plant Management Team Liaison, Supervisory Ecologist, Shenandoah NP, Luray, VA Charlie Pepper, Deputy Director, Olmsted Center for Landscape Preservation, Boston, MA Paul Chaloux, National Emerald Ash Borer Program Manager, USDA APHIS, Riverdale, MD				
Session 82 Maurepas (3rd floor)	Resource Stewardship Strategies: Learning from the Pilot Parks • Guy Adema & Larissa Read, chairs <i>Panel Discussion</i>	Panelists: Fred Armstrong, Resource Management Specialist, Guadalupe Mountains NP, Salt Flat, TX Joy Beasley, Cultural Resources Program Manager, Monocacy NB Frederick, MD Jill Cowley, Historical Landscape Architect, IMR Historic Preservation Programs - Cultural Landscapes, Santa Fe, NM Philip Hooge, Assistant Superintendent - Resources, Science, and Learning, Denali NP & Preserve, Denali Park, AK Rick Slade, Chief - Science and Resource Management, Chattahoochee River NRA, Sandy Springs, GA				
Session 83 Borgne (3rd floor)	Including Non-federally Recognized Tribal Descendent Communities in Land Conservation, Planning, Interpretation, and Education Activities • John Reynolds, chair	<i>Sharing Circle</i> Organizers: Deanna Beacham, Captain John Smith Chesapeake National Historic Trail Advisory Board, Mechanicsville, VA John Maounis, Superintendent, Chesapeake Bay Office, National Park Service, Annapolis, MD			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 84 Borgne (3rd floor)	Meeting Our Mission through Environmental Compliance: How Can We be More Efficient?					
Session 85 Rhythms I/II (2nd floor)	Inventory and Monitoring Data Analysis and Synthesis II • Tom Philippi & Tom Rodhouse, chairs <i>Invited Papers & Swap Meet</i>	Strip Adaptive Cluster Sampling with Application to Cave Crickets and Lemhi Penstemon • Kurt Helf & Tom Rodhouse	Using Advanced Satellite Products to Better Understand Inventory and Monitoring Data within a Larger Context • Kevin M. James et al.	Developing Wetland Bioassessment Models in Support of Long Term Vital Signs Monitoring • E. William Schweiger et al.	Analyses of Long-term Kelp Forest Monitoring at Channel Islands National Park • David Kushner et al.	“Swap Meet”
Session 86 Rhythms III (2nd floor)	Using GIS to Evaluate Park Resources • Peter Budde & Neil J. Blodgett, chairs <i>Invited Papers</i>	Assessing Cultural Resources in the Wake of a Disaster • Deidre McCarthy	Use of GIS to Evaluate Sensitivity of I&M Parks to Effects from Atmospheric Nitrogen Deposition • Tim Sullivan et al.	Renewable Energy & Landscape Alteration Surrounding U.S. National Parks • Susan McPartland & Jordan Hoaglund	Mapping Mercury Vulnerability of Aquatic Ecosystems across NPS I&M Program Parks • Michelle Lutz et al.	Q&A
Session 87 Edgewood A/B (4th floor)	Making Science Relevant for Parks and People • Mike DeBacker, chair <i>Panel Discussion</i>	Presenters: Mike DeBacker, Network Program Manager, Heartland I&M Network, Republic, MO Sherry Middlemis-Brown, Biologist - Information Specialist, Heartland Network, Lake Linden, MI Diane Eilenstein, Park Ranger, George Washington Carver NM, Diamond, MO Theresa Johnson, Science Teacher, Miller High School, Miller, MO Erica Cox, Education Specialist, Missouri State University, Springfield, MO Meg Plona, Biologist, Cuyahoga Valley National Park, Brecksville, OH				
Session 88 Evergreen (4th floor)	Phenology Monitoring in Protected Areas: Networking to Improve Communication, Coordination, and Collaboration • Jake Weltzin & Brian Mitchell, chairs	<i>Workshop</i>				
Session 89 Oakley (4th floor)	Natural Resource Information Portal: NPSpecies Workshop • Alison Loar, chair	<i>Workshop</i>				

Concurrent sessions • Tuesday afternoon, March 15 • 4:00–6:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 90 Napoleon A1/A2/A3 (3rd floor)	Responding to Climate Change: Where We've Been, Where We Need to Go • Matthew Brownlee, chair <i>Contributed Papers</i>	The History of Climate Science • Mary Foley	Climate Change, Management Decisions, and the Visitor Experience: The Role of Social Science Research • Matthew T.J. Brownlee et al.	Climate Friendly Park Employees, Part I: Overview of the IMR's Climate Change Training Assessment Project • Theresa Ely	Climate Friendly Park Employees, Part II: Recommendations for Inter-mountain Region Climate Change Training • Gregg Garfin et al.	Policy Directions for Climate Change and Protected Areas in Canada: A Perspective from Parks Canada • Catherine Dumouchel et al.
Session 91 Napoleon B1 (3rd floor)	Human Dimensions of Wildlife Management • John Waithaka, chair <i>Contributed Papers</i>	Swimming with the Manatee: Re-thinking Policy of a Protected Species? • Joel McCormick & Stephen Holland	Appealing to the Moderates in Issues of Animal Eradication: Lessons Learned from Point Reyes National Seashore • Natalie Gates & Anthony DeNicola	Identifying Common Ground in California Condor Recovery • Daniel George & Jim Petterson	Understanding Motivations for Illegal Transport and Release of Wild Boar Adjacent to the Great Smoky Mountains National Park • Elizabeth Baldwin	Sandhill Cranes (<i>Grus canadensis</i>): Measuring Effects of Human Visitors on the Behavior of a Charismatic Migratory Species • Kate Wilkins
Session 92 Napoleon B2 (3rd floor)	Fire and Resource Management: Tools and Techniques for Better Fire and Resource Management Decisions • Richard Schwab, chair <i>Invited Papers</i>	Techniques Developed to Improve the Accuracy of Monitoring Trends in Burn Severity (MTBS) Data Products • Eric Gdula	Using Landsat Imagery to Create Historic Fire Atlases within the Southeast Region • Joshua Picotte	How Quickly Can a Hoodoo Form? Measurements of Severe Erosion Following Fires at Bryce Canyon • Sean Eagan	Management Prioritization of Wilderness Fires Using Lightning Fire Ignition Distribution Analyses • Kent van Wagtendonk	Planning for Success: Applying Park Values to the Analysis of Fire Management Program Alternatives • Jeff Manley
Session 93 Napoleon B3 (3rd floor)	Engaging Youth • Lavell Merritt, Jr., chair <i>Contributed Papers</i>	Beyond Outreach: Practicing Deep Engagement in Youth Programming • Rebecca Stanfield McCown et al.	Stewardship 101: An Evaluation of the Great Smoky Mountains National Park Junior Ranger Program • Susan Vezeau et al.	Technology in Parks: Using Underwater Remotely Operated Vehicles (ROVs) to Explore and Educate • Laurie Harmon & Mark Gleason	ProRanger Academic Intake Program: A New Approach to Growing Challenges • Ben Baldwin et al.	The Rocky Mountain Sustainability and Science Network: A Partnership Using Public Lands and Student Internships to Engage Diverse Students in Science • Gillian Bowser
Session 94 Southdown (4th floor)	Kwáavichuyam 'ókkiwuntum—Pechanga Tribe's Models to "Preserve and Protect" Cultural Resources • Lisa Woodward, chair <i>Invited Papers</i>	Cultural Applications Using GIS • Shelly Knight	Preservation through Defining the Cultural Landscape in Southern California • Jim McPherson	The Process of Mapping Traditional Properties Using Ethnographic and Historic Resources • Lisa Woodward	Museum Best Practices vs. Native American Values in Collections Management • Teresa Lorden	Preservation Challenges from a Native American Perspective • Paul Macararo
Session 95 Gallier A/B (4th floor)	Managing Cultural Resources at the River's Edge • Frances McMillen, chair <i>Invited/Contributed Papers</i>	From Factory to Forest: A Cultural Landscape on the Shenandoah Riverfront, Harpers Ferry, WV • Deana Poss	DC's Island Sanctuary: Managing Nature and Culture on Theodore Roosevelt Island • Saylor Moss	On the Waterfront: Managing a Cultural Landscape Along the Chesapeake & Ohio Canal • Sam Tamburro	C&O Canal Quarters Interpretive Program: Unlocking a Re-Usable Past for Park Visitors • Sam Tamburro	Q&A
Session 96 Nottoway (4th floor)	Wetlands • Rob Middlemis-Brown, chair <i>Contributed Papers</i>	Vegetation Restoration in Salt Marsh Dieback Areas Using Erosion Control Fabric (Cape Cod, MA) • Stephen Smith	Road to Restoring Prisoners Harbor Coastal Wetland, Santa Cruz Island, Channel Islands National Park • Paula Power et al.	Ecads! (Salt Marsh Furoid Algae): Ecosystem Engineers of North Temperate Marshes • Megan Tyrrell & Jennifer Burkhard	TITLE TBA • Julie Whitbeck	Results of wetlands mapping in the vicinity of the Mineral King Valley cabins and corral, Sequoia and Kings Canyon National Parks • Joel Wagner & Joe Seney
Session 97 Oak Alley (4th floor)	Surviving Katrina: Historic Preservation and Recovery of the Gulf Coast—A Toolbox for Future Disasters • Hampton Tucker, chair <i>Panel Discussion</i>	Panelists: Jenifer Eggleston, Katrina Recovery Grants Administrator, National Park Service, Holly Springs, MS Nicole Hobson-Morris, Executive Director, Louisiana State Historic Preservation Office, New Orleans, LA Ken P'Pool, Deputy SHPO, Mississippi Department of Archives and History, Jackson, MS Elizabeth Brown, Deputy SHPO, Alabama Historical Commission, Montgomery, AL Deidre McCarthy, GIS Specialist, National Park Service, Washington, DC				
Session 98 Bayside A (4th floor)	Promoting Health of All Species: One Health Demonstration Projects in the NPS • Kevin Castle, chair <i>Invited Papers</i>	Evaluating One Health Communication of the NPS: A Case Examination of Plague Response at Grand Canyon National Park • Rich Stedman et al.	Communicating One Health • Dar-rick Evensen et al.	Rabies Prevention from a One Health Perspective • Amy Changbutra & Kevin Castle	NPS One Health Initiative: Effects of Exposure to Natural Sounds on Individual and Public Health • Karen Trevino	An NPS One Health Disease Out-break Investigation Team • Keven Castle et al.

Concurrent sessions • Wednesday morning, March 16 • 10:00–12:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 99 Bayside B/C (4th floor)	Economics and Protected Areas • Frank J. Priznar, chair <i>Contributed Papers</i>	The Potential of Aguajal Concessions in the Peruvian Amazon for Profitable Conservation • Justin Taillon & Chris Schalk	The Economic Impact of Canada's National, Provincial and Territorial Parks 2009 • Erik Val	Protected Areas and Poverty Alleviation: Comparing Experiences in Canada, Tanzania, and Ghana • Rick Rollins & Rosaline Caness	Katmai National Park and Preserve Economic Significance Analysis • Ginny Fay et al.	Ecosystem Services in Decision Making for Public Lands: A BLM Case Study • Kenneth Bagstad et al.
Session 100 Maurepas (3rd floor)	Next-Tech: Online Tools in Service of Parks, Protected Areas, and Cultural Sites • Melia Lane-Kamahele, chair <i>Contributed Papers</i>	Using the Google Earth Plug-in for Viewing NPS GIS Information from within a Web Browser • Roland Duhaime & Nigel Shaw	Blending iPhone/Android Apps and Citizen Science with Early Weed Detection to Better Serve Urban Parks • Irina Irvine	Improving Scientific Communication through the Use of U.S. Geological Survey Video Podcasts • Michelle Moorman et al.	Bringing the Field Inside: Challenges and Lessons about Science Writing Online • Susan Simpson	The Wiki Approach to Keeping National Parks and Protected Areas on the Global Map • Charles Besancon et al. (presented by Amy Milam)
Session 101 Borgne (3rd floor)	Sustaining the Conservation Field through the Next Generations of Federal Professionals: Developing Lasting University Collaborations	<i>Sharing Circle</i> Organizer: Lisa Sanders, Program Coordinator, Agricultural and Environmental Sciences, University of California, Davis			NOTE: These two Sharing Circles run simultaneously in the Borgne Room.	
Session 102 Borgne (3rd floor)	Continuing the Visioning: The National Park Service in Its Second Century	<i>Sharing Circle</i> Organizer: Jerry Rogers				
Session 103 Rhythms I/II (2nd floor)	Forest and Shrub Vegetation Monitoring • Donna Shorrock, chair <i>Invited Papers</i>	Spruce Beetle Outbreaks in Southwest Alaska: Retrospective Studies and Long-term Monitoring Using Tree-ring Data • Amy E. Miller et al.	Collaborative Monitoring of Forest Health in Eastern National Parks • Brian Mitchell et al.	Upland Vegetation and Soils Monitoring in the Sonoran and Chihuahuan Desert Networks • J.A. Hubbard et al.	Monitoring Mature and Old-growth Forests in the North Coast and Cascades Network • Steven Acker et al.	Vegetation Monitoring in the Klamath Network • Dennis C. Odion et al.
Session 104 Rhythms III (2nd floor)	Water Resources Monitoring • Dean Tucker & Pete Penoyer, chairs <i>Invited Papers</i>	Monitoring Ocean Acidification in the NPS: Perspectives from a Pilot Program in Olympic National Park • Steven C. Fradkin	Integration of Estuarine Water-Quality Data in Northeast Coastal and Barrier Network Parks at Local and Regional Scales • Hilary A. Neckles et al.	Status of DOI's Climate Change Response Monitoring Network • Glenn Patterson	Continuous Water Resources Data Management: Aquarius and the Southwest Alaska Network Approach • Cuyler Smith & Russell Frith	Exploratory Data Analysis: NPS Experience, Tools, and Techniques • Roy Irwin et al.
Session 105 Edgewood A/B (4th floor)	Electronic Field Data Collection to Improve Data Quality • Peter Budde & Kristen Beaupre, chairs <i>Invited Papers</i>	Two Electronic Data Collection Solutions from Grand Canyon's Vegetation Mapping Project • Michael Kearsley et al.	NPS Abandoned Mineral Lands (AML) Database Mobile Inventory Tool • John Burghardt & N. Irwin	Project Planning and Data Dictionary Design: Keys to Successful GPS Data Collection • James Stein	Collecting Protocol Data with Silverlight Interface: A Solution to Disconnected Work Place • Kristen Beaupre & Tom Richie	Q&A
Session 106 Evergreen (4th floor)	Climate Change Vulnerability Assessments for Natural and Cultural Resources • John Gross & R. Jay Flaming, chairs	<i>Affinity Meeting</i> • Open to all registrants				
Session 107 Oakley (4th floor)	Managing Protected Areas in the Face of Increasing Urbanization: Case Studies • Seth Riley & Christy Brigham, chairs <i>Invited Papers</i>	Wildlife Management Challenges for Urban National Parks in the San Francisco Bay Area • Bill Merkle & Tania Pollak	Cryptic Effects of Urbanization on Park Wildlife: Toxicant Exposure and Genetic Impacts • Seth P.D. Riley	Canada Goose Herbivory Monitoring along the Anacostia River, Washington, DC • Mikaila Milton et al.	Restoration of Endangered Habitat Including Dunes and Serpentine Grasslands within a Fragmented Urban Environment • Sue Fritzke	Balancing Park Natural Resources and Fire Safety at the Urban-Wildland Interface • Marti Witter et al.

Concurrent sessions • Wednesday morning, March 16 • 10:00–12:05

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 108 Napoleon A1/A2/A3 (3rd floor))	Integrating Cultural Resources with Wilderness Character: Bridging the Traditional Divide • Peter Lan- dres & Melissa Memory, chairs	<i>Sharing Circle</i> Presenters: Peter Landres, Aldo Leopold Wilderness Research Institute, Missoula, MT Melissa Memory, Everglades National Park, Homestead, FL				
Session 109 Napoleon B1 (3rd floor)	A National Park System Plan for the Future • Warren Brown, chair	<i>Workshop</i>				
Session 110 Napoleon B2 (3rd floor)	Ecosystem-Level Networks <i>Contributed Papers</i> • Gary Davis, chair	Landscape Conservation: Building a Network in the Pacific West Region • Angela Whitney et al.	Applying Systems Thinking to Holi- stic Park Management • Katherine Hanson	The Open Parks Grid: A Catalyst for Stewardship of Protected Areas • Elizabeth Baldwin et al.	Islands to Networks : Solution for Nature Conservation? • Stephen Woodley	Community Leaders on the Land- scape: An Integrated Approach to Aquatic Habitat Conservation along the Trent-Severn Waterway • Joan Chamberlain
Session 111 Napoleon B3 (3rd floor)	Crossing Institutional Boundaries for Better Management of Parks and Protected Areas (Part 1) • Robert Bennetts & Andy Hubbard, chairs • <i>Invited Papers</i>	Crossing Institutional Boundaries for Better Management of Parks and Protected Areas • Robert Ben- netts et al.	Integrated Grassland Monitoring Collaboration between Southern Plains Fire Group and Southern Plains I&M Network • Richard Gatewood & Tomye Folts-Zettner	Collaboration across Agencies and Disciplines to Protect the Sierra Ancha Cliff Dwellings • Duane C. Hubbard et al.	Collaborations in Data Manage- ment—The Best Protection for Parks: Sharing Data • Skip Edel & Linda Kerr	Climate Change Monitoring in the Desert Landscape Conservation Co- operative • Kirsten Gallo
Session 112 Southdown (4th floor)	Parks Canada/USNPS/CONANP Pro- tected Areas Workshop I	<i>Business Meeting</i> • By invitation only				
Session 113 Gallier A/B (4th floor)	Engaging Youth in Our National Parks: Sharing Lessons Learned to Improve Practice • Rebecca Stan- field McCown & Nora Mitchell, chairs	<i>Panel Discussion</i> Panelists TBD				
Session 114 Nottoway (4th floor)	The Power of Your Power Button: Communicating Science through Digital Media • Corbett Nash et al., chairs	<i>Workshop</i> Presenters: Alice Wandrak Biel, Science Writer-Editor, National Park Service, Sonoran Desert Network and Northern Colorado Plateau Network, Devils Tower, WY Dominic Cardea, Ranger-Interpretation Learning and Development, National Park Service, Northeast Regional Office, Philadelphia, PA Todd Edgar, Web Manager, Natural Resource Program Center, Office of Education and Outreach, National Park Service, Fort Collins, CO				
Session 115 Oak Alley (4th floor)	Research Learning Center Strategic Planning Meeting • Ben Becker, chair	<i>Business Meeting</i> • By invitation only				
Session 116 Bayside A (4th floor)	Threatened and Endangered Species • Abby Miller, chair <i>Contributed Papers</i>	The Species at Risk Program at Parks Canada Agency: Ten Years of Conservation • Denyse Lajeunesse & Marie-Josée Laberge	Research, Monitoring, and Propaga- tion of the Endangered Shiwits Milk-vetch (<i>Astragalus ampullari- oides</i>), Washington County, Utah • Rebecca Lieberg	Preventing the Extinction of the Federally Endangered Sonoma Spineflower at Point Reyes National Seashore • Amelia Ryan & Lor- raine Parsons	Keeping Skeletons Out of the Closet: Proactive Approaches to Fu- ture Climate Change-Driven Extinc- tions • Alison Colwell & Judi Weaser	An Experimental Restoration of Two Threatened and Endangered Annual Plants in the Presidio, Golden Gate National Recreation Area • Lewis Stringer
Session 117 Bayside B/C (4th floor)	Building Partnerships to Meet Re- source Management Objectives • Linda Drees et al., chairs <i>Invited Papers</i>	The Value of Partnerships • Marty Sterkel	Connecting Students with Sound- scape through Educational Travel • Lelaina Marin et al.	Critical Ingredients of Successful Partnerships • Ray Murray	New Horizons for Cooperative Man- agement and Collaborative Partner- ships • Joe Seney	Partnerships: Policy Implications to Use in the NPS • Karyn Ferro

Concurrent sessions • Wednesday afternoon, March 16 • 1:30–3:35

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 118 Maurepas (3rd floor)	Going Global: The IUCN Global Protected Areas Programme • Trevor Sandwith & Brent Mitchell, chairs <i>Panel Discussion</i>	Panelists: Nikita Lopoukhine, Chair, World Commission on Protected Areas, Ottawa, ON, Canada; Cyril Kromos, WCPA Vice Chair for North America and WILD Foundation, Ojai, CA; Julia Miranda, Chair, RedParques, and CEO, National Parks, Bogotá, Colombia; Ernesto Enkerlin, WCPA Vice Chair and Technical University of Monterrey, Monterrey, Mexico				
Session 119 Borgne (3rd floor)	Social Science and the National Parks <i>Sharing Circle</i>	Robert Pahre, organizer			Note: These Sharing Circles run simultaneously in the Borgne Room.	
Session 120 Borgne (3rd floor)	Wilderness Management along Today's US/Mexico Border <i>Sharing Circle</i>	Mark Sturm et al., organizers				
Session 121 Rhythms I (2nd floor)	Applications of Vegetation Monitoring Data for Management and Planning • Stephanie Perles & James Comiskey, chairs <i>Panel Discussion</i>	Panelists: Stephen M. Smith, Plant Ecologist, Cape Cod National Seashore, Wellfleet, MA • Kate Miller, Plant Ecologist, National Park Service, Northeast Temperate I&M Network, Bar Harbor, ME • John Paul Schmit, Quantitative Ecologist, National Park Service, National Capital Region I&M Network, Washington, DC • Wendy Cass, Botanist, National Park Service, Shenandoah National Park, Luray, VA • Suzanne Sanders, Ecologist, National Park Service, Great Lakes I&M Network, Ashland, WI • Peter J. Sharpe, Biologist, National Park Service, Northeast Region, Fredericksburg, VA				
Session 122 Rhythms II (2nd floor)	Bayesian Approaches to the Analysis of Data • Joshua Schmidt, chair <i>Workshop</i>	Presenters: Noble Hendrix, Statistician, R2 Resource Consultants, Redmond, WA; and Scott Gende, Ecologist, Coastal Cluster Program, Juneau, AK Bill Thompson, Ecologist (Biometrics), Southwest Alaska Network, Anchorage, AK Joshua Schmidt, Data Manager, Central Alaska Network, Fairbanks, AK Tom Rodhouse, Ecologist, Upper Columbia Basin Network, Bend, OR Penelope S. Pooler, Quantitative Ecologist, Northeast Coastal and Barrier Network, Kingston, RI				
Session 123 Rhythms III (2nd floor)	SQL Server: Who's Using It, How, and Why • Margaret Beer, chair <i>Invited Papers</i>	Natural Resource Monitoring Databases Development Using SQL Server: A Comparison Between Visual Basic/ADO .Net and Microsoft Access Data Projects • Scott Miller	Leveraging the Power of the NRPC Information Platform to Benefit an Individual I&M Network • Bill Johnson	A Case Study of Implementing SQL Server • John Boetsch & Bret Christoe	Cold Fusion 9 and MS Access: Problems and Possible Solutions • Simon Kingston & Russ DenBleyker	Managing Data and Information with the Southeast Coast Network Decision Support System • Christina Wright
Session 124 Edgewood A/B (4th floor)	Rocky Mountain Sustainability and Science Network (RMSSN) Affinity Meeting • Gillian Bowser, Chair	<i>Affinity Meeting</i> • By invitation only				
Session 125 Evergreen (4th floor)	Friends Group • Mike Soukup & Jerry Mitchell, chairs					
Session 126 Oakley (4th floor)	Data Management and GIS "Open House" I • Margaret Beer, chair	<i>4-hour Workshop</i> (continues in Session 144) • NPS resource persons and area of expertise: Miftah Ahmad (SQL Server Development and Administration) Kathy Dratch (NRInfo Portal, NRInfo Reference Application, SharePoint) Kirk Sherrill (GIS Technician) } Michelle Flenner (NPSpecies) Brent Frakes (NRInfo Portal, NRInfo Reference Application) } Dave Hollema (GIS Developer) Fagan Johnson (I&M Websites, Natural Resource Technical Report Series) Simon Kingston (Natural Resource Database Template, Microsoft Access, SQL Server) Dan Kocol (NRinfo Portal—User Feedback) Alison Loar (NPSpecies) Lisa Nelson (GIS Applications and Administration, SQL Server)				

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 127 Napoleon A1/A2/A3 (3rd floor)	Listening Session on a National Park Service Cultural Resources Challenge • Stephanie Toothman, chair	<i>Workshop</i>				
Session 128 Napoleon B1 (3rd floor)	Partnerships • Barbara Goodman, chair <i>Contributed Papers</i>	International Partnerships: Sister Parks Agreement between Samlaut Protected Area, Cambodia, and Sequoia and Kings Canyon National Parks • Karen Taylor-Goodrich	The CESU Network: Vital Statistics and Future Directions • Thomas Fish	Everglades Cooperative Invasive Species Management Area (ECISMA) • Antonio Pernas	Challenges of Multi-jurisdictional Management of Bovine Tuberculosis in the Riding Mountain National Park Region, Canada • Ken Kingdon et al.	Parknership: A 21st Century Model at Keweenaw National Historical Park • Tom Baker
Session 129 Napoleon B2 (3rd floor)	Transportation • David Louter, chair <i>Contributed Papers</i>	No Ordinary Highway: Trans Canada Highway Twinning, Banff National Park—A 30 Year Retrospective • Terry McGuire	Transit in the Parks: The Role of Foundations and the Private Sector • Katherine Turnbull	Alternative Transportation Partnership Case Studies • Patricia Steinholtz	Visitor Perceptions of Alternative Transportation in Yosemite and Rocky Mountain National Parks • David Pettebone et al.	Q&A
Session 130 Napoleon B3 (3rd floor)	Crossing Institutional Boundaries for Better Management of Parks and Protected Areas (Part 2) • Robert Bennetts & Andy Hubbard, chairs • <i>Invited Papers</i>	Environmental History: Laying the Foundation for an Interdisciplinary Approach to Resource Management • Maren Bzdek & Cori Knudten	Moving Towards Integrated Resources Management Planning • Jill Cowley	Integrated Resources Reporting: A Step toward Integrated Thinking • Robert Bennetts et al.	Practical Linkages Between Management and Monitoring: Management Assessment Points in Action • Robert Bennetts & Andy Hubbard	Q&A
Session 131 Southdown (4th floor)	The Fifth Element: Beyond Earth, Air, Fire and Water • Emma Lynch, chair	<i>Day-Capper</i>				
Session 132 Gallier A/B (4th floor)	A New Generation Honors George Wright's Legacy: Climate Change Fellows and Interns in the National Parks • Lisa Norby et al., chairs	<i>Day-Capper</i> Panelists: Gregg Garfin, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ Paul Dion, National Council for Science and the Environment, Washington, DC				
Session 133 Nottoway (4th floor)	Collaborative Efforts of the Colorado River Parks • Jane Rodgers & Sandee Dingman, chairs <i>Invited Papers</i>	A River Runs through Us • Jane Rodgers	The Colorado River: A Narrow Ribbon of Green—Some are Weeds and the Beetles are Coming! • Curtis E. Deuser	Trespass Ungulates and Other Managed Grazing Issues in Colorado River Parks • Alice Newton	Bright Lights, Big City & Dark Skies, Deep Canyons: A Colorado Plateau Dark Sky Reserve • Dan Duriscoe	Q&A
Session 134 Oak Alley (4th floor)	Rethinking Protected Area Zoning in a Changing World II • Catherine Dumouchel & Denyse Lajeunesse, chairs	<i>Workshop</i>				
Session 135 Bayside A (4th floor)	Where are the S'mores and Who are All These People at the Campfire? • Laurie Heupel & Barbara Kubik, chairs	<i>Day-Capper</i>				
Session 136 Bayside B/C (4th floor)	The Next Wave: Training & Capacity Building for Coastal and Marine Protected Area Managers • Lauren Wenzel & Mary Sue Brancato, chairs	<i>Day-Capper</i>				

Concurrent sessions • Wednesday afternoon, March 16 • 4:00–6:05

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 137 Maurepas (3rd floor)	Planning the Future of National Park Service International Programs • Jonathan Putnam & Stephen Morris, chairs	<i>Business Meeting</i> • Open to all registrants				
Session 138 Borgne (3rd floor)	Meeting for Parks and Partners on Biodiversity Discovery Activities (All-Taxa Biodiversity Inventories, BioBlitzes, etc.) • Kirsten Leong & Sally Plumb, chairs	<i>Affinity Meeting</i> • Open to all registrants				
Session 139 Borgne (3rd floor)	Parks Canada/USNPS/CONANP Protected Areas Workshop II	<i>Business Meeting</i> • By invitation only				
Session 140 Rhythms I (2nd floor)	Invasive Plant Early Detection Protocols • Craig Young, chair <i>Rapid-Fire Session</i>	Early Detection of Invasive Species in the Eastern Rivers and Mountains Network (Opportunistic Observations and EDDMapS) • Jennifer Stingelin Keefer Invasive Plant Detection in Midwestern Cultural Landscapes • Craig Young Integrated Analyses and Syntheses • Dennis Odion and Dan Sarr Monitoring Corridors and Hot Spots Using Sampling and Incidental Observations • Dusty Perkins or Rebecca Weissinger Partnerships and Communication • Alison Ainsworth Use of Volunteers • Robert Steers Corridors of Invasiveness: NPS Exotic Plant Early Detection Monitoring Protocol for South Florida • Kevin Whelan Edge Effects • Robert Bennetts Early Detection Smartphone Software • Bobbi Simpson				
Session 141 Rhythms II/III (2nd floor)	Structured Decision-making: Linking Science and Management • Maggie MacCluskie, chair	<i>Workshop</i> • Application of Structured Decision Making to Sea Otter Management • Jim Pederson, Oregon Cooperative Fish and Wildlife Research Unit, USFWS Management of Amphibian Populations in the National Capital Region Network of National Parks • Evan Grant, Patuxent Research Center, USGS Wolf Population Management in Yukon-Charley Rivers National Preserve and the Utility of Structured Decision Making • Josh Schmidt, CAKN Golden Eagle Management in Denali National Park and Preserve: A Case Study for Structured Decision Making • Maggie MacCluskie, CAKN				
Session 142 Edgewood A/B (4th floor)	Connecting with Hearts, Minds and Muscles: Social Marketing for Invasive Plants • Emily Gonzales and Stephane Bruneau, chair	<i>Workshop</i>				
Session 143 Evergreen (4th floor)	NPS Network for Innovation • Nora Mitchell & Brent Mitchell, chairs	<i>Affinity Meeting</i> • Open to all registrants				
Session 144 Oakley (4th floor)	Data Management and GIS "Open House" II • Margaret Beer & Peter Budde, chairs	<i>4-hour Workshop</i> (continued from Session 126) • NPS resource persons and area of expertise: Miftah Ahmad (SQL Server Development and Administration) Kathy Dratch (NRInfo Portal, NRInfo Reference Application, SharePoint) Kirk Sherrill (GIS Technician) } Michelle Flenner (NPSpecies) Brent Frakes (NRInfo Portal, NRInfo Reference Application) } Dave Hollema (GIS Developer) Fagan Johnson (I&M Websites, Natural Resource Technical Report Series) Simon Kingston (Natural Resource Database Template, Microsoft Access, SQL Server) Dan Kocol (NRInfo Portal—User Feedback) Alison Loar (NPSpecies) Lisa Nelson (GIS Applications and Administration, SQL Server)				

Concurrent sessions • Wednesday afternoon, March 16 • 4:00–6:05

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 145 Napoleon A1 (3rd floor)	International Parks and Protected Area Research: Social Issues and Cultural Differences • Robert C. Burns & Eick von Ruschkowski, chairs <i>Invited Papers</i>	Differences in Values between US and Austrian Park and Protected Area Managers: A Qualitative Study • Robert C. Burns & Arne Arnberger	Harz National Park, Germany: Inventorying and Identifying Social Issues • Eick von Ruschkowski & Robert C. Burns	Residents' Interactions with Retezat National Park, Romania: Implications for Perceived Environmental Responsibility • Natalia Buta & Stephen Holland	Exploring Cultural Differences in Landscape Preferences: Differences between Austrian and United States Visitors • Franziska Rom et al.	Addressing International Management Capacity Building Needs for Marine Protected Areas • Thomas E. Fish & Anne H. Walton
Session 146 Napoleon A2 (3rd floor)	In Search of Relevance • Shawn Cardiff, chair <i>Contributed Papers</i>	NPS Comprehensive Survey of the American Public: Broad Trends between 2000 and 2008 • Patricia Taylor et al.	Inequalities in US National Park System Visitation: An Application of the Multiple Hierarchy Stratification Perspective • Timia Thompson & Myron F. Floyd	Public Attitudes toward Selected Natural Resource and Recreation Management Issues in U.S. National Parks • Gerard Kyle et al.	Setting the Stage for Visitor Experiences in Canada's National Heritage Places • Ed Jager	Protection and Visitor Experience: Synergies in Support of Relevance • Kathie Adare & Catherine Dumouchel
Session 147 Napoleon A3 (3rd floor)	NPS Safety Leadership Council Panel Discussion: Risk, Culture, and Safety in Natural Resource Management • Cicely Muldoon & Samantha Richardson, chairs <i>Panel Discussion</i>	Panelists: Jon Jarvis, Director, National Park Service, Washington, DC Cicely Muldoon, Superintendent, Point Reyes NS, NPS/Chair, NPS Safety Leadership Council, Point Reyes Station, CA Margaret Wild, Wildlife Health Program Chief, NPS, Fort Collins, CO Jerry Mitchell, Chief, Biological Resource Management Division, NPS, Fort Collins, CO Mark Herberger, Operational Leadership Program Manager, NPS, Washington DC				
Session 148 Napoleon B1 (3rd floor)	Indigenous Women Exploring Bio-cultural Conservation and Cultural Alliances • Melia Lane-Kamahele, chair <i>Panel Discussion</i>	Panelists: Nathalie Gagnon, Policy Analyst, Aboriginal Secretariat, Parks Canada, Gatineau, Quebec, Canada Jeanette Pomeroy, National Park Service, Superintendent, Bering Land Bridge National Preserve, Alaska Elizabeth F. Nanticoke, Acting Director, Department of Environment, Mohawk Council of Akwesasne, Kawehnoke, Ontario, Canada Deanna Beacham, Virginia Council on Indians and Program Specialist, Office of the Secretary of Natural Resources, Commonwealth of Virginia Fawn YoungBear-Tibbetts, Student intern/researcher, University of Wisconsin-Madison Arboretum, Madison, Wisconsin				
Session 149 Napoleon B2 (3rd floor)	Integrating Wilderness Character into NPS Planning, Monitoring, and Management • Wade Vagias, chair <i>Invited Papers</i>	Welcome & Session Overview • Wade Vagias (10:00–10:05) Overview of Wilderness Character as a Foundation for NPS Wilderness Planning, Monitoring, and Management • Peter Landres (10:05–10:20) Introduction of the Wilderness Character Integration Team • Suzy Stutzman (10:20–10:35) Protecting Wilderness Qualities: The Marriage of the Wilderness Character and User Capacity Frameworks • Julie Sharp et al. (10:35–10:55) Developing a Wilderness Character Monitoring Protocol for the Otis Pike Fire Island High Dune Wilderness • Michael Bilecki (10:55–11:15) Mapping Wilderness Character in Death Valley National Park: New Tools for New Concepts • James Tricker et al. (11:15–11:35) Wilderness Fellows Program • Wade Vagias (11:35–11:50) Q&A (11:50–12:05)				
Session 150 Napoleon B3 (3rd floor)	Fire Management, Modeling, and Monitoring • Jan van Wageningen, chair <i>Contributed Papers</i>	Modeling the Santa Ana "Devil Winds," Extreme Wildfire Behavior, and the Geography of Disaster • Robert Taylor	Perspectives of Potential Science Users in the Context of Fire Management • Vita Wright	Earth, Wind & Fire: An Analysis of Historical Chaparral Fire Regimes in Southern California • Keith Lombardo et al.	Cracking a Few Eggs—A Small Park Perspective on What Works and Doesn't Work in Adaptive Management • Caroline Noble	OPEN
Session 151 Maurepas (3rd floor)	Monitoring Marine Natural & Cultural Resources • Brad Barr, chair <i>Contributed Papers</i>	Pinnipeds: Sentinels of the Sea • Sarah Allen et al.	Driving the Marine Ecosystem: Monitoring the Oceanography of Glacier Bay, Alaska • Lewis Sharman et al.	Assessing Marine Protected Area Vital Signs: A Pilot Project on North America's West Coast • Gary Davis et al.	Battle of the Atlantic: Heritage Resource Management and Protection Initiatives off the Coast of North Carolina • Joseph Hoyt & David Alberg	Q&A
Session 152 Borgne (3rd floor)	Transportation and Recreation Research in Yosemite National Park: Integrating Disciplines to Inform Managerial Issues • David Pettebone, chair <i>Invited Papers</i>	Thinking Beyond Traditional Recreation Research for Visitor Capacity Decisions • Bret Meldrum et al.	Pedestrian Modeling to Simulate Transportation: Visitor Experience Relationships for Capacity Management at Attraction Sites • Brett Kiser et al.	Visitor Evaluation of Indicators of Quality for Integrated Transportation and Capacity Management, Yosemite National Park • Nathan Reigner et al.	Understanding Functional and Experiential Dimensions of Visitor Travel to Inform Transportation Management in Yosemite National Park • Dave D. White et al.	Transportation Model Development and Simulation in Yosemite National Park • Bill Byrne

		10:00–10:25	10:25–10:50	10:50–11:15	11:15–11:40	11:40–12:05
Session 153 Salon 828 (8th floor)	National Park Service World War II Network: Preserving America's World War II Heritage • Vincent Santucci, chair <i>Invited Papers</i>	World War II Military Intelligence Programs at P.O. Box 1142, Alexandria, Virginia • Vincent Santucci et al.	Remembering and Revisiting the Lost Villages of the Aleutians • Rachel Mason	World War II on the Home Front: The Challenge of Preserving Social Change • Isabel Jenkins Ziegler	WWII Valor in the Pacific National Monument: A New Interpretation and Meaning • Daniel A. Martinez	Preserving World War II Resources at Golden Gate National Recreation Area • Stephen Haller
Session 154 Grand Chenier (5th floor)	Soundscapes • Theresa Ely, chair <i>Contributed Papers</i>	Motorcycle Noise and Quieter Pavement Research at National Parks • Judith Rochat	Denali National Park Soundscape Inventory: A First Look at Park-wide Acoustics • Davyd Betchkal	Aviation Noise in National Parks: Analysis of Noise-Exposure-Visitor Response Data—What Do the Numbers Tell Us? • Grant Anderson & Amanda S. Rapoza	Physiological Impacts of Noise in National Parks: Study Design Considerations • Christopher Zevitas	OPEN
Session 155 Grand Coteau (5th floor)	Taking Stock: Assessing Cultural and Natural Resource Conditions in National Parks • Jeff Albright & Bob Page, chairs <i>Invited Papers</i>	Introduction: Laura Schuster (10:00–10:10) Paper Presentation: Cultural Resource Condition Assessments: Developing a Framework that Combines Several Assessment Techniques • Bob Page (10:10–10:35) Paper Presentation: Natural Resource Condition Assessments: Highlights and Examples from an Ongoing Series of Park-Based Studies • Jeff Albright (10:35–11:00) Panel Discussion: Robert Bennetts, Coordinator, Southern Plains Inventory and Monitoring Network, National Park Service, Des Moines, NM; Tim Carruthers, Program Manager, Integration and Application Network, University of Maryland, Cambridge, MD; Jill Cowley, Historical Landscape Architect, Intermountain Region, National Park Service, Santa Fe, NM; David Louter, History Program Lead, Pacific West Region, National Park Service, Seattle, WA (11:00–12:00)				
Session 156 Waterbury (2nd floor)	Climate Change Policy Challenges in the National Park Service • Susan Johnson, chair <i>Panel Discussion</i>	Panelists: Jeff Mow, Superintendent, Kenai Fjords NP, Seward, AK Russell Galipeau, Superintendent, Channel Islands NP, Ventura, CA Richard Bahr, Fire Science and Ecology Lead, Fire Management Program Center, NPS, Boise, ID David Graber, Chief Scientist, Pacific West Region, NPS, Three Rivers, CA Trish Kicklighter, Superintendent, Assateague Island NS, Berlin, MD				
Session 157 Rhythms I/II (2nd floor)	NPScape Landscape Dynamics Monitoring in US National Parks • Bill Monahan, chair	<i>Workshop</i>				
Session 158 Rhythms III (2nd floor)	Data Management Rapid-Fire Session • Whitney Granger, chair <i>Rapid-Fire Session</i>	Galax Poaching on the Blue Ridge Parkway: Monitoring for Illegally Harvested Species and the Feedback Loop for Resource Protection • Patrick Flaherty Digital Photo Metadata and File Properties • Tom Richie I&M Data Management Reviews: Progress Report • Margaret Beer Communication Planning: Know Thine Audience • Sara Melena The New NPS Focus Digital Asset Management System and a New NPS Search Portal, NPSearch • Christie McDonald Natural Resource Web Update • Todd M. Edgar				
Session 159 Salon 816–820 (8th floor)	Climate Change Ambassadors: Citizen Science Projects • Susan Teel, chair	<i>Affinity Meeting</i> • Open to all registrants				
Session 160 Salon 824 (8th floor)	Utility-Scale Renewable Energy and Marcellus Shale Gas Development: Challenges and Opportunities for Protecting Parks and Other Special Places • Carol McCoy, chair <i>Panel Discussion</i>	Panelists: Holly Salazer, Air Resources Coordinator and Marcellus Shale Coordinator, NPS-Northeast Region, University Park, PA David A. Reynolds, Right-of-Way-Program Coordinator and External Renewable Energy Coordinator, NPS-Pacific West Region, Oakland, CA Dan McGlothlin, Supervisory Hydrologist and NPS Lead for the BLM-DOE Solar Programmatic EIS, NPS-Water Resources Division, Fort Collins, CO Andrea Compton, Chief of Resources, Joshua Tree National Park, Twentynine Palms, CA John McCarty, Chief Landscape Architect, Bureau of Land Management, Washington, DC				

Concurrent sessions • Thursday morning, March 17 • 10:00–12:05

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 161 Napoleon A1 (3rd floor)	Amphibians • Ross Haley, chair <i>Contributed Papers</i>	Modeling the Past to Predict the Future: A Case Study of a Montane Endemic Salamander • Amy Luxbacher	Responding to Emerging Pathogens by Reintroducing Boreal Toads into Rocky Mountain National Park • Mary Kay Watry & Erin Muths	Restoration of the Relict Leopard Frog: NPS Leads Program in and around Lake Mead National Recreation Area • Ross Haley	Amphibian Population Dynamics: Counting Toads for Twelve Years in Horseshoe Canyon, Canyonlands National Park, Utah • Tim Graham & Gary Cox	Monitoring Aquatic Amphibians in Santa Monica Mountains National Recreation Area, the Largest Urban National Park • Kathleen Delaney et al.
Session 162 Napoleon A2 (3rd floor)	Planning for Effective Management • Warren Brown, chair <i>Contributed Papers</i>	Choosing Appropriate Socioeconomic Analyses for NPS Planning: Development of a Decision Support Tool • Lynne Koontz et al. (presented by Jessica Montag)	Visitor Use Data Collection Strategies in Denali National Park and Preserve • Andrew Ackerman	Park Planning and Social Science Informing General Management Plans: An Ozark National Scenic Riverways Case Study • Logan Park et al.	A New, Better Way to Manage Florida Bay's Tricky Shallow Waters (Everglades National Park) • Fred Herling & Dave Hallac	Examination of Qualitative Methodology Usefulness in Assessing Management Effectiveness of Protected Areas: A Case Study of Mexico • Carla Mora & Elizabeth Baldwin
Session 163 Napoleon A3 (3rd floor)	Quantifying Beauty • Chad Moore, chair <i>Invited Papers</i>	The Value of Beauty • Terrel Gallaway	The Economics of Natural Sounds • Frank Turina	Understanding Incremental Loss of Scenery • Tyler Nordgren	An Index of Night Sky Quality • Chad Moore & Dan Duriscoe	1582 • National Park Service Unit Managers' Perceptions, Priorities, and Strategies of Night as a Unit Resource • Brandi Smith & Jeff Hallo
Session 164 Napoleon B1 (3rd floor)	Parchi Italiani: State and the "Best Practices" of National Parks and Protected Areas in Italy • Maurilio Cipparone, chair <i>Invited Papers</i>	State of Italian National Parks • Maurilio Cipparone	Rete DNA: A New Network and an Alliance of Academies and Parks, for Park Management in Italy • Maurilio Cipparone	Parks for the One and Only Earth: Lessons Learned from Italy's National Park Experience • Nino Martino	"API": The Italian Protected Areas Data Bank • Davide Marino	Q&A
Session 165 Napoleon B2 (3rd floor)	Fire and Resource Management: Fire in the Wilderness • Richard Schwab & Jeff Manley, chairs <i>Invited Papers</i>	Fires in Previously Burned Wilderness Areas: Fire Severity and Vegetation Interactions in a Changing World • Kent Van Wagtenonk	Assessing Fire Management Trade-offs: A Monday-morning Quarterback Approach • Carol Miller	Prescribed Fire in Wilderness: Nature or Nurture? • Jason Lawhon	New Approaches to Fire and Wilderness Management in Grand Canyon National Park • Christopher Marks	Q&A
Session 166 Napoleon B3 (3rd floor)	Preserving America's Paleontological Heritage through Inventory and Monitoring • Vincent Santucci, chair <i>Invited Papers</i>	Paleontological Inventory of Big Bend National Park • Steven Wick & Donald Corrick	Glacier Bay National Park and Preserve Paleontological Resource Inventory • Robert B. Blodgett et al.	Monitoring Paleontological Resources in Glen Canyon National Recreation Area • Erica Clites et al.	Monitoring, Stabilization, and Curation of Paleontological Sites from Claystone Deposits at Wind Cave National Park • Rodney D. Horrocks & Rachel A. Brown	Utilizing Parks' Fossil Ecosystems to Interpret Past, Present, and Future Climate Change • Jason P. Kenworthy
Session 167 Maurepas (3rd floor)	Air Quality • Alan Ellsworth, chair <i>Contributed Papers</i>	Thresholds for Ecosystem Changes (Critical Loads) from Deposition of Air Pollutants in the Western U.S. • Tamara Blett et al.	Partnership to Reduce the Ecological Effects of Atmospheric Nitrogen Deposition in Rocky Mountain National Park • Jim Cheatham	The Composition and Origin of Nitrogen Deposited in Rocky Mountain National Park during the ROMANS Study • Bret Schichtel et al.	Planning Tools for Healthy and Resilient Ecosystems: Critical Loads for Air Pollution in Eastern Parks • Ellen Porter et al.	Quality Air and Water at Acadia National Park: An Historical Analysis • Alan Ellsworth et al.
Session 168 Borgne (3rd floor)	Open Space: Cathedrals or Conduits (Assessing Societal Needs for both Infrastructure and Inspiration) • Leslie Morlock & John J. Donahue, chairs <i>Panel Discussion</i>	Panelists: John J. Donahue, Superintendent, Delaware Water Gap National Recreation Area, Bushkill, PA Casey Reese, Natural Resource Program Manager, Appalachian National Scenic Trail, Harpers Ferry, WV L. Suzanne Gucciardo, Natural Resource Specialist, Lewis and Clark National Historic Trail, Omaha, NE J. David Anderson, Resident Landscape Architect/GIS & GPS Coordinator, Blue Ridge Parkway, Asheville, NC Leslie Morlock, GIS Specialist, Delaware Water Gap National Recreation Area, Milford, PA				

Concurrent sessions • Thursday afternoon, March 17 • 1:30–3:35

		1:30–1:55	1:55–2:20	2:20–2:45	2:45–3:10	3:10–3:35
Session 169 Salon 828 (8th floor)	Voices of the Next Generation: Perspectives on the Park Break Program • Matthew Heard & Meghan Lindsey, chairs <i>Panel Discussion & Presentation</i>	Panelists: Archi Rastogi, Ph.D. Student, McGill University, Montreal, Canada Jonathan (Rodney) White, Ph.D. Student, University of Louisville, Louisville, Kentucky Annamarie Leon Guerrero, M.A. Student, Sonoma State University, California Presentation: Evaluating Park Break: A GWS, NPS & USGS Sponsored Park-Based Field Seminar for Graduate Students • Susan Vezeau et al.				
Session 170 Grand Chenier (5th floor)	Cultural Resource Response to an Oil Spill • Mary Striegel & Kirk Cordell, chairs <i>Invited Papers</i>	Mixing Oil and Historic Structures: Hazards and Response • Mary F. Striegel	Implementing Section 106 Compliance in an Oil Response: Lessons Learned • Meredith Hardy & David Morgan	Rapid Documentation for Cultural Resource Conservation Using a Spatial Video • Andrew Ferrell	Case Study: Fort Livingston, Grand Terre Island, Louisiana • Carol Chin	Evaluation of Cleaners for Removal of Crude Oil from Historic Structures • Payal Vora
Session 171 Grand Coteau (5th floor)	Case Studies in Administrative History: NBS and NPS • Vivien E. Rose, chair <i>Contributed Papers</i>	The Ill-fated NBS: A Historical Analysis of Bruce Babbitt's Vision to Overhaul Interior Science • Diane Krahe	"Pristine Nature" Between Steel Mills and Suburbs: The Creation of Indiana Dunes National Lakeshore • Jackie Mirandola Mullen	The Ghost of Christmas Past: Historic Preservation and the 1916 NPS Act • Richard Sellars	Reinterpreting Our Heritage: Toward a New History of the National Park Service • David Glassberg	Was Redwood National Park Expansion Related to Woodstock, Earth Day and the Kent State Massacre? • Dan Sealy et al.
Session 172 Waterbury (2nd floor)	Climate Change Scenario Planning: Different Perspectives on Preparing for an Uncertain Future • Patrick Malone, chair <i>Invited Papers</i>	The National Park Service's Use of Scenario Planning • Don Weeks	Scenario Planning: A Tool for Place-based Natural Resource Management and Conservation Planning in Light of Climate Change • Erika Rowland	How Do Models and Downscaled Climate Data Fit into Climate Change Scenario Planning Activities? • Steve Gray	Scenario Planning in Water Management: Evaluation of Alternatives and the Public Process • Holly Hartman	The Use of Scenario Planning to Prepare for Climate Change at Assateague Island National Seashore • Courtney Schupp
Session 173 Rhythms I/II (2nd floor)	Landscape Dynamics Monitoring Applied to Natural Resource Management in Canada and US National Parks • Bill Monhan, chair <i>Invited Papers</i>	Modeling Disturbance Agents with LandTrendr and GIS Data in North Coast and Cascades Parks • Catharine Copass Thompson et al. (presented by John Boetsch)	A Cost Effective Predictive Modeling Approach for Developing Process-based Ecological Inventories for Arctic National Parks • Donald McLennan et al.	PALMS: Monitoring, Evaluating, and Forecasting the Condition of Park Landscapes • John E. Gross et al.	Use of NASA Technologies for Monitoring Park Condition: Integration of Four Case Studies • Andrew J. Hansen et al.	Using NPScape Data and Advanced Satellite Products to Compare Land Surface Phenology Inside and Outside of National Park Units in the Great Plains • Kevin M. James et al.
Session 174 Rhythms III (2nd floor)	GIS Rapid-Fire Session • Kirk Sherrill, chair <i>Rapid-Fire Session</i>	Presenters: Historic Aerials in Park Planning and Resource Management Grand Teton National Park • Kathryn Mellander (1:30–1:45) Assessing Regional Climatological Trends with the Climate Grid Analysis Toolset • Kirk Sherrill & Brent Frakes (1:45–2:00) Use of ArcGIS and Mobile GIS (ArcPad) for Viewshed Protection • David Anderson (2:00–2:15) National Park Service Theme Manager • Angie Southwood (2:15–2:30) Managing and Analyzing Spatial Data from GPS-Collared Caribou Using the SQL Server 2008 Geography Data Type • Scott Miller & Kyle C. Joly (2:30–2:45) Travel Time Cost Surface Model: A Planning and Logistical Resource Tool • Kirk Sherrill et al. (2:45–3:00) GIS Support at Katmai Branch Search and Rescue • Angie Southwood (3:00–3:15) New Process for Updating Vegetation After Fires • Janice Vogel (3:15–3:30)				
Session 175 Salon 816–820 (8th floor)	Natural Resource Information Portal: Reference Application Workshop • Brent Frakes, chair	<i>Workshop</i>				
Session 176 Salon 824 (8th floor)	Bayesian Methods/Structured Decision Making: General Discussion of Methods and Approaches, Additional Applications • Joshua Schmidt & Maggie MacCluskie, chairs	<i>Workshop</i>				

Concurrent sessions • Thursday afternoon, March 17 • 1:30–3:35

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 177 Napoleon A1 (3rd floor)	"Who Wants to be a Millionaire?" Live on NPS Network • Ann Hitchcock et al., chairs	<i>Day-Capper</i> Presenters: Julia Brunner, Policy/Regulatory Specialist, National Park Service, Denver, CO John G. Dennis, Deputy Chief Scientist, National Park Service, Washington, DC Ann Deutch, Environmental Protection Assistant, National Park Service, Yellowstone, WY Dale Pate, Supervisory Physical Scientist, National Park Service, Carlsbad, NM				
Session 178 Napoleon A2 (3rd floor)	Sea Change: The New Ocean Policy—What it Means for You and Protected Areas • Lauren Wenzel et al., chairs	<i>Day-Capper</i>				
Session 179 Napoleon A3 (3rd floor)	Transportation in Parks: Understanding Choices and Experiences • Jeffrey Hallo, chair <i>Invited Papers</i>	NPS Transportation Planning and Implementation: Enabling Relevant Visitor Experiences • Patricia Sacks & Patrick Shea	Indicators and Standards of Quality for Transportation in National Parks: Does Trip Purpose Matter? • Laura Anderson et al.	Visitors' Potential Use and Perceptions of a Proposed Transit System at Cumberland Island National Seashore • Jeffrey C. Hallo & Robert E. Manning	Travel Mode Choice at Yosemite National Park: A Stated-Preference Study • Peter R. Pettengill et al.	Alternative Transportation Planning and Experiential Quality in Muir Woods: An Application of Simulation Modeling • Steve Lawson et al.
Session 180 Napoleon B1 (3rd floor)	Invasive Species • Abby Miller, chair <i>Contributed Papers</i>	Ten Year Review of the Exotic Plant Management Team • Rita Beard & Abby Miller	Winning Battles, Losing the War: Hemlock Forest Decline at Delaware Water Gap National Recreation Area • Richard Evans	Extent and Impact of the Balsam Woolly Adelgid in Subalpine Fir Forests, Olympic Peninsula, WA • Karen Hutten et al.	Bee Biodiversity in Marin County, California • Benjamin Colteaux et al.	OPEN
Session 181 Napoleon B2 (3rd floor)	Managing Bird Species: Inventory, Monitoring, Proactive Management, and Public Involvement • Kristen Dybala, chair <i>Contributed Papers</i>	The Status and Distribution of Barred Owls (<i>Strix varia</i>) in Marin County, California • Bill Merkle et al.	Monitoring Landbirds within the National Parks of the Gulf Coast Network • Daniel Twedt & Martha Segura	Proactive Management of North America's Lone Insular Bird Species in the Face of Global Change • Scott Morrison et al. (presented by Scott Sillett)	Solutions for Dreamers: Citizen Science as a Tool for Defensible Results • Kevin Schallert et al.	Effects of Weather on Survival Rates in Song Sparrows • Kristen Dybala
Session 182 Napoleon B3 (3rd floor)	Preparing 21st Century Park Leaders • Kristen McConnell, chair <i>Panel Discussion</i>	Panelists: Kathy Hanson, Chief, Learning & Development, National Park Service, Washington, DC Brett Wright, Professor & Chair, Department of Parks, Recreation & Tourism Management, Clemson University, Clemson, SC Virginia Farley, Director for Leadership Programs, Conservation Study Institute, National Park Service, Woodstock, VT Steve Shackelton, Associate Director for Visitor and Resource Protection, National Park Service, Washington, DC				
Session 183 Maurepas (3rd floor)	Cultural Heritage Resources in the National MPA System: Benefits in Partnership • Valerie Grussing, chair <i>Panel Discussion</i>	Panelists: Valerie Grussing, NOAA's National MPA Center, Silver Spring, MD John Jensen, Professor, Sea Education Association, Woods Hole, MA Bonnie Newsom, Penobscot Indian Nation THPO				
Session 184 Borgne (3rd floor)	The Role of Science in Making (and Justifying) Decisions: Perspectives from Management, the Law, Social Science, and Museology • <i>Contributed Papers</i> • Gary Davis, chair	Effective Strategies to Promote Science-based Management Decisions • Lisa Acree	Potato Chips or Pornography: Defining Impairment for the National Parks • Jacob J. Hoogland	Still Fighting the Last War? Preservation and the Search for Legitimation • Diane Barthel-Bouchier	Interdisciplinary Research: Navigating the Pitfalls, Processes, & Potential of Integrating Social and Natural Science • Rudy Schuster & Craig E. Colten	Relations between People and their Environment: New Kinds of Engagement • Annegien Canoy
Session 185 Salon 828 (8th floor)	New Orleans: Where the Real Saints Go Marching In • Patricia Corral, chair	<i>Day-Capper</i>				

Concurrent sessions • Thursday afternoon, March 17 • 4:00–6:05

		4:00–4:25	4:25–4:50	4:50–5:15	5:15–5:40	5:40–6:05
Session 186 Grand Chenier (5th floor)	Rights, Policy & Knowledge: Engaging with Native Communities • Erik Val, chair <i>Contributed Papers</i>	Aboriginal Community Engagement for Reconciliation and Reconnection in a Canadian Rocky Mountain National Park • Shawn Cardiff	Policy, Laws, and Preservation and the Effects on Indigenous Rights for Cultural & Spiritual Practices • Freddie Romero	Beyond Consultation: Aboriginal Engagement for Effective Management of Legacy Contamination in an Arctic National Park • Edward McLean et al.	Protecting Traditional Resources Rights in Conservation: Native Knowledge in National Parks • Fernando Villalba	Are Aboriginal Title and Treaty Rights Compatible with National Parks? • Heidi Cook et al.
Session 187 Grand Coteau (5th floor)	Sound Sessions: Recent Social Science Studies in National Park Units • Peter Newman et al., chairs <i>Invited Papers</i>	The Role of Messaging on the Acceptability of Commercial Aircraft Sounds and Sights • Derrick Taff et al.	Motivation and Acceptability Norms of Human-caused Sound in Muir Woods National Monument • Lelaina Marin et al.	Sources and Prevalence of Anthropogenic Noise in Cultural Parks: Independence Hall and Valley Forge • Jacob A. Benfield	Is Personal Reflection Affected by Ambient Soundscapes? • Jacob A. Benfield et al.	The Influence of Anthropogenic Sound on Cultural Park Tours • Gretchen Nurse et al.
Session 188 Waterbury (2nd floor)	Climate Change Forecasting and Planning • Jan van Wagtenonk, chair <i>Contributed Papers</i>	Testing the Limits: Effects of Climate on Conifer Distributions in Mount Rainier National Park • Ailene Ettinger et al.	Plant Responses to Climate in National Parks of the Southwestern US: Forecasts for Land Management • Seth Munson et al.	How Climate Change Threatens Communities: A Management Question at Point Reyes National Seashore • Sarah Hameed et al.	Climate Change Scenario Planning in Alaska • Robert Winfree et al.	OPEN
Session 189 Rhythms I (2nd floor)	Future Monitoring with Remote Sensing • Michael Story, chair <i>Panel Discussion</i>	Panelists: Tom Loveland, Senior Scientist, USGS, Sioux Falls, SD Jason Stoker, Project Manager for the Lidar Science Project, USGS, Sioux Falls, SD Jim Irons, Deputy Landsat Project Scientist, NASA, Greenbelt, MD Mike Hutt, Unmanned Aerial Systems Project Manager, USGS, Lakewood, CO				
Session 190 Rhythms II (2nd floor)	Enhanced Monitoring to Better Address Climate Change: Results from Scoping and Prioritization in 2010 • Sara Wesser, chair <i>Panel Discussion</i>	Panelists: Joe DeVivo, Program Manager, Southeast Coast I&M Network, Athens, GA Lisa Garrett, Program Manager, Upper Columbia Basin I&M Network, Moscow, ID Andy Hubbard, Program Manager, Sonoran Desert I&M Network, Tucson, AZ Michael Shephard, Program Manager, Southwest Alaska I&M Network, Anchorage, AK				
Session 191 Rhythms III (2nd floor)	The NPS Natural Resource Information Portal: Current Status, Innovative Uses, Future Directions • Margaret Beer, chair <i>Invited Papers</i>	The NRInfo Portal: Introduction and Progress Report • Margaret Beer	The NRInfo Portal as the Springboard for DOI-wide Collaboration • Brent Frakes	Using NRInfo Web Services to Create Dynamic Web Applications • Melanie Ransmeier & Michael Cox	Extending the NRInfo Reference Application: Programmatic Generation of Map Services • Peter Budde et al.	Dissolving Data Boundaries: Data Discovery among Many Systems • Dan Kocol
Session 192 Salon 816–820 (8th floor)	Developing a Culture of Evaluation for Interpretation and Education in Great Smoky Mountains National Park: Implications for National Policy • Robert B. Powell & Marc J. Stern, chairs • <i>Panel Discussion</i>	Panelists: Susan Sachs, Great Smoky Mountains National Park, Gatlinburg, TN Beth Wright, Education Technician, Great Smoky Mountains National Park, Gatlinburg, TN Sue Vezeau, Social Scientist, Yosemite National Park, El Portal, CA Marc J. Stern, Assistant Professor, Department of Forest Resources and Environmental Conservation, College of Natural Resources and Environment, Virginia Tech, Blacksburg, VA Robert B. Powell, Assistant Professor, Department of Parks, Recreation, and Tourism Management, Clemson University, Clemson, SC				
Session 193 Salon 824 (8th floor)	Putting User Capacity in Perspective: Integration of User Capacity into the Visitor Use Management Framework • Ryan Sharp, chair <i>Panel Discussion</i>	Panelists: Kerri Cahill, Visitor Use Technical Specialist, National Park Service, Denver, CO Jim Bacon, Visitor Use Technical Specialist, National Park Service, El Portal, CA David Cole, Research Geographer, Aldo Leopold Wilderness Research Institute, Missoula, MT Ryan Sharp, Visitor Use Specialist, National Park Service, Denver, CO Ericka Pilcher, Visitor Use Specialist, National Park Service, Denver, CO				

Concurrent sessions • Thursday afternoon, March 17 • 4:00–6:05

	8:00–10:00	
Session 194 Maurepas (3rd floor)	Parks and Protected Areas Where Farms and Food Matter	<i>Affinity Meeting</i> • Open to all registrants Rolf Diamant, Lucy Lawliss, Paula Vlamings, Christina Marts & Angie Richman, chairs
Session 195 Borgne (3rd floor)	Regional Wilderness Coordinators Affinity Meeting	<i>Affinity Meeting</i> • By invitation only Wade Vagias & Garry Oye, chairs
Session 196 Poydras (3rd floor)	The Spreadsheets Across the Curriculum Geology of National Parks Project: Update, Discussion, and Prospects	<i>Business Meeting</i> • Open to all registrants H.L. Vacher, Judy McIlrath, Tom Juster, Mark Rains, Meghan Lindsay, Laura Wetzel, David W. Hastings & Ben Becker, chairs
Session 197 Salon 828 (8th floor)	National Park Service CESU Coordinators Annual Meeting I	<i>Business Meeting</i> • By invitation only Kathy Tonnessen & Pei-Lin Yu, chairs
Session 198 Grand Chenier (5th floor)	World Heritage and the United States	<i>Business Meeting</i> • Open to all registrants Stephen Morris, Phyllis Ellin, and Jonathan Putnam, chairs
Session 199 Grand Coteau (5th floor)	Putting the USA's National Parks and Protected Areas on the Global Map Workshop I	<i>Business Meeting</i> • Open to all registrants Charles Besancon, Cyril Kormos, Lisa Duarte, chairs
	10:00–12:00	
Session 200 Maurepas (3rd floor)	World Commission on Protected Areas / Species Survival Commission Joint Task Force on Biodiversity	<i>Affinity Meeting</i> • Open to all registrants Stephen Woodley & Thomas Brooks, chairs
Session 201 Borgne (3rd floor)	National Park Service Cultural Resources Programs Business Meeting I	<i>Business Meeting</i> • Open to all registrants Stephanie Toothman, chair
Session 202 Poydras (3rd floor)	Wild and Scenic Rivers Program Updates and Discussion	<i>Business Meeting</i> • Open to all registrants Joan Harn & Bill Hansen, chairs
Session 203 Salon 828 (8th floor)	National Park Service CESU Coordinators Annual Meeting II	<i>Business Meeting</i> • By invitation only Kathy Tonnessen & Pei-Lin Yu, chairs
Session 204 Grand Chenier (5th floor)	Intermountain Region / Resource Stewardship Advisory Team (RSAT)	<i>Business Meeting</i> • Open to all registrants Dave Roemer, chair
Session 205 Grand Coteau (5th floor)	Putting the USA's National Parks and Protected Areas on the Global Map Workshop II	<i>Business Meeting</i> • Open to all registrants Charles Besancon, Cyril Kormos, Lisa Duarte, chairs

Concurrent sessions • Friday morning, March 18 • 8:00–12:00

	1:00–3:00	
Session 206 Maurepas (3rd floor)	NPS Climate Change Response Strategy	<i>Business Meeting</i> • Open to all registrants Leigh Welling, chair
Session 207 Borgne (3rd floor)	National Park Service Cultural Resources Programs Business Meeting II	<i>Business Meeting</i> • Open to all registrants Stephanie Toothman, chair
Session 208 Poydras (3rd floor)	Who's on First? Clarifying NPS Marine Jurisdiction and Policies to Protect Ocean and Coastal Parks	<i>Affinity Meeting</i> • Open to all registrants Julia Brunner & Jeffrey Cross, chairs
Session 209 Salon 828 (8th floor)	OPEN	
Session 210 Grand Chenier (5th floor)	Building the Next 50 Years of Research at Aldo Leopold Wilderness Research Institute (ALWRI): A Discussion	<i>Affinity Meeting</i> • Open to all registrants Cindy Swanson, chair
Session 211 Grand Coteau (5th floor)	Putting the USA's National Parks and Protected Areas on the Global Map Workshop III	<i>Business Meeting</i> • Open to all registrants Charles Besancon, Cyril Kormos, Lisa Duarte, chairs
	3:00–5:00	
Session 212 Maurepas (3rd floor)	OPEN	
Session 213 Borgne (3rd floor)	OPEN	
Session 214 Poydras (3rd floor)	OPEN	
Session 215 Salon 828 (8th floor)	OPEN	
Session 216 Grand Chenier (5th floor)	Wilderness Stewardship: Mitigating Conflict through Confronting the Human-Nature Relationship	<i>Affinity Meeting</i> • Open to all registrants Matthew Carroll, Jason Lawhon & Jesse Burkhart, chairs
Session 217 Grand Coteau (5th floor)	Putting the USA's National Parks and Protected Areas on the Global Map Workshop IV	<i>Business Meeting</i> • Open to all registrants Charles Besancon, Cyril Kormos, Lisa Duarte, chairs

Concurrent sessions • Friday afternoon, March 18 • 1:00–5:00