

PLEASE NOTE

This program is TENTATIVE. The composition of sessions, the order of presentations within sessions, the names of chairs and presenters, room locations — all of this and more are subject to change. However, the dates of sessions generally will not be changed (unless there is a scheduling conflict involving presenters).

Each session has a Value Proposition: a short statement about what attendees can expect to get out of the session. The Value Propositions are indicated by italics.

CURRENT OPENINGS IN THE CONFERENCE PROGRAM

As of this date, we have openings for a 20-minute oral presentation in each of the following sessions:\

No openings

If you are interested in filling one of these openings, send a note to dharmon@georgewright.org.

Conference program as of February 24, 2017



Collaboration Sessions bring attendees together to work on a specific project. At the end of the session, the organizers will give attendees the opportunity to help complete the project.

to 🕥

Compass Sessions ask two questions: "Where are we?" and, "Where do we want to go?" These sessions ask the audience to reflect on where we should go from here, with a range of possible directions.



Update Sessions bring attendees together to fill them in on the latest developments with regard to an project, program, or issue. Attendees emerge from the session fully up-to-date on the topic.



Challenge Sessions ask members of the audience to question their assumptions. Attendees emerge from the session with their critical thinking faculties fully engaged.



Skills Sessions are hands-on training opportunities that increase the capacity of attendees to solve a specific problem. Attendees leave with new skills applicable to the problem.



Fasttrack Sessions are fast-paced, exciting overviews, with individual 5-minute presentations on aspects of the session's topic. The outcome is that audience members come away energized and intrigued to learn more.

Sunday, April 2 • Registration | Field Trips | Precon Meetings | Poster Setup

Registration (8:00-8:45a; then again from noon-9:00p, Presidential Foyer, 3rd floor)

Field Trip (ticketed event): Colonial National Historical Park: Yorktown Battlefield, Historic Village and Adjacent Cultural Landscapes (9:00a-3:30p; ticketholders meet in Lobby at 8:45a prior to departure)

Walking tour of the battlefield and village with discussions on the strategic moves of the the battle and the historical significance's of the Yorktown Port and associated commerce.

Field Trip (ticketed event) Sea Level Rise in Norfolk: A Walking Tour (1:00p-4:30p; ticketholders meet in Lobby at 12:45p prior to departure)

This walking tour will examine many of the public and historic areas of Norfolk that are experiencing increased flooding due to sea level rise and examine how Norfolk is becoming more resilient. We will see flood control structures, buildings that have been elevated to accommodate changes in water levels, and discuss the tradeoffs that the city and property owners face.

Workshop (by invitation only) | 10677 • National Park Service Invasive Animal Science Workshop (1:00–5:00p; continues Monday, April 3, 10:00a–5:00p; Elizabeth Boardroom, 4th floor) Invasive species are the second most significant threat to biodiversity, after habitat loss. This invitation-only workshop will help the National Park Service determine a strategic servicewide approach to this issue.

Poster / Computer Demo / Exhibit Set-up (4:00–10:00p; Norfolk Ballroom 1|2. 1st floor) Presenters of Posters, Computer Demos, and Exhibits will set up in the Norfolk 1|2 Ballroom. Check at the Registration Desk for assigned locations.

Preconference Meeting, Student Attendees & Mentors (7:00-8:00p; Hampton 4, 3rd floor)

All student attendees, including George Melendez Wright Student Travel Scholarship recipients, are invited to an informal preconference meet-and-greet. Those who have requested mentors will meet with them at this time. The event will be followed by light refreshments and a chance to mix with Indigenous attendees, who will be meeting next door.

Preconference Meeting, Indigenous Attendees (7:00-8:00p; Hampton 5, 3rd floor)

All Indigenous attendees, including Indigenous Participant Travel Grant recipients, are invited to an informal preconference meet-and-greet. The event will be followed by light refreshments and a chance to mix with student attendees, who will be meeting next door.

Monday, April 3 • 8:00–9:30a | Plenary Session I

Making Big Connections: The Future of Conservation on a Landscape Scale

(Hampton Ballroom 4|5, 3rd floor)

Harvey Locke, Co-founder and Strategic Adviser, Yellowstone to Yukon (Y2Y) Initiative Gary M. Tabor, Founder, Center for Large Landscape Conservation

Linking protected areas with other conservation efforts, and then coordinating them across a vast extent of land, freshwater, and sea — this, for many thoughtful people, is the future of our work. Advocates of "connectivity conservation" see such landscape-scale efforts as the only way to combat the decline of biodiversity, the erosion of cultural landscapes, and the ravages of climate change. Two of the world's leading thinkers on connectivity conservation will join us to kick off GWS2017 with an overview of the field, where we stand today, where we are likely to go next, and what the prospects for success might be.

Harvey Locke is a recognized global leader in the field of parks, wilderness and large landscape conservation. He is a founder of the Yellowstone to Yukon Conservation Initiatibve, with the goal to create a continuous corridor for wildlife from Yellowstone National Park in the United States to the Yukon in Northern Canada. In 2013, he received the J.B. Harkin Medal for Conservation and the Queen Elizabeth II Diamond Jubilee Medal and in 2014 he was awarded the Fred M. Packard Award for outstanding service to protected areas by the IUCN World Commission on Protected Areas at the World Parks Congress in Sydney, Australia. Locke also received in 2014 the Gold Leaf Award from the Canadian Council on Ecological Areas for his lifetime of extraordinary commitment and vision to advance the cause of parks, wilderness, ecological integrity and landscape connectivity in North America and the world.



Dr. Gary M. Tabor is an ecologist and wildlife veterinarian based in Bozeman, Montana. In 2007, Gary founded the Center for Large Landscape Conservation to help people and institutions make better land use decisions at the scale at which nature functions. Gary has worked on behalf of large landscape conservation internationally for over 35 years with ten years of experience in Africa, South America and Australia and 12 years as a leader within the U.S. philanthropic community beginning with the Geraldine R. Dodge Foundation, the Henry P. Kendall Foundation, and finally the Yellowstone to Yukon Program Director for the Wilburforce Foundation. His work in philanthropy also includes the design of international conservation trusts for USAID, and the World Bank. Gary co-founded the Australia Environmental Grantmakers Association. Gary's conservation achievements include the establishment of Kibale National Park in Uganda; establishment of the World Bank's Mountain Gorilla Conservation Trust; co-founding the Yellowstone to Yukon Conservation Initiative; pioneering the field of Conservation Medicine and EcoHealth; co-founding Patagonia Company's Freedom to Roam wildlife corridor campaign; co-founding the Practitioners' Network for Large Landscape Conservation and the Roundtable of the Crown of the Continent – recent winner of the inaugural climate adaptation award by the US National Fish, Wildlife and Plants Climate Adaptation Strategy. Gary is a Henry Luce Scholar and recipient of the Australian American Fulbright Scholar award in Climate Change. Gary is Chair of the World Commission on Protected Areas' new Connectivity Conservation Specialist Group.



		10:00–10:20	10:20-10:40	10:40-11:00	11:00-11:20	11:20–11:40	11:40-12:00
Concurrent #1 Norfolk 5 6 (1st floor) Session format: Invited speakers	10775 • Integrating Coastal Climate Adaptation in National Parks I / Amanda Babson & Courtney Schupp, chairs	Sharing NPS guidance, strategies and examples through the Coastal Adapta- tion Strategies Handbook / Amanda Babson	Climate Change Adaptation Strategies: Case Studies from Coastal National Parks / Courtney Schupp	Lessons Learned: Evaluating the Effectiveness of Cultural Resource Management Ac- tions / Emily Greer	Sea level rise by the numbers / Maria Caffrey	Bringing Back Lost Coastal Habitats for Climate Adapta- tion / Cliff McCreedy	Q&A
G	We provide updates on the lates	t projects and case studies of coast	tal climate adaptation for nationa	l parks integrating across natural i	resources, cultural resources and fo	ncilities. (Part II is Concurrent #65)	
Concurrent #2 Marriott 1 2 3 (4th floor) Session format: Invited Speakers	10602 • People, Politics, and Place in the Historic Shaping of America's Western National Parks / Terence Young, chair	Why Are There No Mining Frontier Units in the National Park System? / Lary M. Dilsaver	"In the Wild Heart of America": Tourism, Gender and the Promotion of West- ern National Parks / Peter Blodgett	Frederick S. Dellenbaugh: Geographer, Explorer, and National Park Artist / Michael Pretes	Yosemite and the Origins of America's National Parks / Terence Young	Discussant: John H. Sprinkle, Jr.	Q&A
E	Our topic is the evolving underst	l anding of present and absent wes	l tern national parks. Historians an	l d historical geographers will prese	I	L edge research.	
Concurrent #3 Marriott 4 (4th floor)	10782 • Putting Culture First: Unpacking Toolkits for Large Landscape Preservation /	Uniting Communities across a L	andscape of Divisive History in F	Protect Culturally Important Land reedom's Frontier National Herita		n Doherty	
	Suzanne Copping, chair	Facilitating Mission Alignment	around Regional Conservation ar	ols to Preserve a Dynamic Landsca nong NGOs, Local Government ar hip and Protection of Battlefield L	nd Conservation Institutions / Dav	id Goldstein	
Session format: Panel Discussion	Suzanne Copping, chair	Facilitating Mission Alignment Using Military Terrain Analysis t	around Regional Conservation ar to Support Community Stewards	nong NGOs, Local Government an	d Conservation Institutions / Dav .andscapes / Kristen McMasters		
anel Discussion	Suzanne Copping, chair	Facilitating Mission Alignment Using Military Terrain Analysis t scape approaches that bound cult Mark Meyer, Visual Resource Sp Laura Rotegard, Superintenden Larry Garland, Cartographer, Aj Jalyn Cummings, Air & Water Q	around Regional Conservation ar to Support Community Stewards <i>ure, history and community, ident</i> vecialist, NPS Air Resources Division tt, Pictured Rocks National Lakesl	nong NGOs, Local Government an hip and Protection of Battlefield L <i>ify individual takeaways, and a co</i> on hore idoah National Park	d Conservation Institutions / Dav .andscapes / Kristen McMasters		
	Suzanne Copping, chair Participants evaluate large land: 10724 • Looking ahead: The future of visual resource management in the NPS / Susan Johnson & Melanie Peters, chairs	Facilitating Mission Alignment Using Military Terrain Analysis t scape approaches that bound cult Mark Meyer, Visual Resource Sp Laura Rotegard, Superintenden Larry Garland, Cartographer, Aj Jalyn Cummings, Air & Water Q Don Briggs, Superintendent, Po	around Regional Conservation ar to Support Community Stewards <i>ure, history and community, ident</i> vecialist, NPS Air Resources Division It, Pictured Rocks National Lakesl opalachian Mountain Club uality Program Manager, Shenar tomac Heritage National Scenic	nong NGOs, Local Government an hip and Protection of Battlefield L <i>ify individual takeaways, and a co</i> on hore idoah National Park	nd Conservation Institutions / Dav Landscapes / Kristen McMasters Ilective charge for advancing cultu		

		10:00-10:20	10:20-10:40	10:40-11:00	11:00-11:20	11:20-11:40	11:40-12:00
Concurrent #6 Hampton 4 (3rd floor) Session Format: Fasttrack presentations fol- lowed by workshop	10647 • Healthy Parks Healthy People: State of the Evidence and Paths to Improve the Science / B. Derrick Taff, chair	as Health Resources: Examples nature • Carena J. van Riper ties • Aaron Hipp Urban Park Forces Personnel, Veterans, and valuation of the health benefit: Parks Healthy People Criteria To	from Montana's Park and Trail Rx The influence of park soundscape is, Healthy People, and the Pursu Their Families • Matt Brownlee is of parks • Lynne Koontz Econ iol: Implementation in Gettysbur	th values and benefits of public la Program • Jennifer Thomsen es on health and wellbeing • Pete it of Environmental Justice • Vinio Research Regarding the Restor nomic value and benefits of physi g and Catoctin Mountain Nationa	Participatory mapping: a tool to e r Newman Physical activity an tce Jennings Understanding N ative Power for Armed Forces Pers cal activity/health benefit valuati I Parks • Derrick Taff	licit nonmaterial values and ider Id greenspace: state of the evider ature's Resiliency-Building and R sonnel, Veterans, and Their Famil	tify the health benefits of nce and geospatial opportuni estorative Power for Armed les • Kelly Bricker Economi
	After learning about the state of	f evidence, panelists and participal	nts will identify deficiencies and d	evelop strategies for advancing pa	rk-based health science.		
Concurrent #7 Hampton 5 (3rd floor) Session Format: Panel Discussion	10746 • Ocean Acidification: Clarifying and Enhancing NPS Effectiveness in Research and Monitoring / Lewis Sharman, chair	Jeremy Mathis, Director, NOAA Jeff Mow, Superintendent, Glac	, Southeast Alaska I&M Network,				
\bigcirc	NPS ocean acidification research	h/monitoring currently occur provin	ncially and bottom-up. Would high	her-level coordination improve qu	lity and effectiveness? If yes, how	could greater coordination be ach	ieved?
Concurrent #8 Hampton 6 7 8 (3rd floor) Session Format: Invited Papers	10748 • Landscape Conservation Cooperatives: Supporting an Ecologically Connected Network of Parks and Protected Areas / Janet Cakir, chair	Implementing the South Atlantic Landscape Conserva- tion Blueprint / Janet Cakir	Envisioning and Developing a Southeast Conservation Adaptation Strategy / Greg Wathen	Partnering to Develop and Implement a Northwest Boreal Landscape Design / Amanda Robertson	Landscape Conservation De- sign in the Pacific Northwest / Tim Miewald	Panel Discussion, prepared dis dialogue with attendees / Spea of protected area managers in	akers discuss the emerging ro
G	Demonstrate ways Landscape C	l	ported parks and protected areas	to implement the large landscape	l and longer timeline management	l needs identified in "Revisiting Lea	pold."
Concurrent #9 Chesapeake 1 2 (4th floor) Session Format: Contributed Papers	Connecting Visitor Perceptions with Visitor Understanding	10426 • Did you see that? How differences in attention and perception lead to differ- ences in experience / Nathan Shipley & Robert Bixler	10845 • Does the Timing of Educational Messaging Influence Compliance with Low-impact Hiking Recom- mendations? / Tian Guo & Jordan W. Smith	10742 • Public perception of timber harvesting for biodi- versity in a National Forest / Elizabeth Baldwin	10635 • Assessing the Cultural Context for Predator Conservation in/around Protected Areas: A Social Suitability Index / Kathleen Krafte et al.	10780 • Evaluating visitor support for restricting brown bear viewing at Katmai National Park & Preserve / Jeffrey Skibins & Ryan Sharp	Q&A
	Perceptions play a powerful role	e in determining how we understar	nd something. For protected area r	nanagers, the first step is knowing	how visitors perceive things.	ļ	
work orga	boration Sessions bring attend on a specific project. At the end nizers will give attendees the opp plete the project.	of the session, the	and, "Where do we wa	sk two questions: "Where are we ant to go?" These sessions ask the where we should go from here, le directions.	in on the progra	e Sessions bring attendees toge he latest developments with reg m, or issue. Attendees emerge fr p-to-date on the topic.	ard to an project,
ques the s	lenge Sessions ask members of tion their assumptions. Attendee ession with their critical thinking ged.	es emerge from	💦) that increase the capa	ands-on training opportunities city of attendees to solve a specif ave with new skills applicable to	c with in session	ack Sessions are fast-paced, exe dividual 5-minute presentations s's topic. The outcome is that aud way energized and intrigued to	on aspects of the ience members

Monday, A	pril 3 • 1:30	0–3:30p Co	oncurrent S	essions			
		1:30–1:50	1:50–2:10	2:10-2:30	2:30-2:50	2:50-3:10	3:10-3:30
Concurrent #10 Norfolk 5 6 (1st floor)	PENDING						
Session Format: Invited Speakers							
		•	•	•		•	
Concurrent #11 Marriott 1 2 3 (4th floor) Session Format: Fasttrack Sessions	Our presentation provides exam Princeton: A Reorientation of th Community • Elizabeth Vehmey Concurrent #11b • 2:30–3:00p Climate change is happening an Preparing the National Parks for		stakeholders to preserve battlefie 5 for Land Preservation • Kristen M ommunity • Kristen McMasters latural Disasters / Andrew Ferrell, verity of natural disasters. By bein d Badder Disasters • Resilient	elds, and the importance of grassro AcMasters Local Communities , chair ginformed we can prepare.	bots preservation to achieve permo Driving Preservation Change • Te	nent protection of battlefield land rence Christian Conflicting Pre	
Concurrent #12 Marriott 4 (4th floor) Session Format: Panel Discussion	10759 • International Pro- tected Area Management Priorities and Perspectives: Identifying Common Chal- lenges and Leveraging Shared Solutions / Nathan Reigner & Jenn Thomsen, chairs	Tim Badman, IUCN Jon Putnam, NPS Diane Matar Jeff Mow, NPS Nathan Reigner, RSG					
	Protected areas around the glob	e face common challenges and co	nstraints. Identifying shared solut.	ions can leverage expertise, impro	ve administrative efficiency, better	protect resources, and sustain ben	efits.
Concurrent #13 Marriott 5 6 7 (4th floor) Session Format: Invited Speakers	10586 • NPS and NASA: A Partnership to Address Resource Concerns Through Application of Geospatial Imagery / Don Weeks & Kenton Ross, chairs	Monitoring Snow and Ice Coverage in Intermountain Region Parks to Assess Vul- nerability of Archaeological Sites / Michael Brooke	Seeking Ancient Roadbeds Around Chaco Culture National Historical Park / Dashiell Cruz	Monitoring of Tropospheric Ozone Along the Appalachian National Scenic Trail / Jalyn Cummings	Monitoring Invasive Bromes in National Park Lands of the Northern Great Plains / Amanda Clayton	NASA DEVELOP Program: Ca- pacity Building through Earth Observations / Kenton Ross	Q&A
	A partnership to enhance under	standing of natural and cultural p	ark resources and responses to str	essors through credible science the	nt informs management decisions.	•	•
Concurrent #14 Hampton 1 2 3 (3rd floor) Session Format: Fasttrack Sessions	The USFS and NPS collaboration Setting the context: Federal lar Concurrent #14b • 2:30–3:00p Instead of talking at youth, this	10606 • Planning for resource in Brazil provides a novel approace nd management in Brazil • Rose V 10678 • Connecting with Cons program will create a space for con na Spady (all Urban Archaeology of	h to efficiently and strategically p. lerbos Developing approaches ervation: Youth Urban Archaeolo nference participants to listen to ti	lan for the future protection and u. 5 for public use in Brazilian conser gy Corps Participants Share their	se of conservation areas. rvation units • Susan McPartland		

		1:30–1:50	1:50–2:10	2:10–2:30	2:30-2:50	2:50-3:10	3:10-3:30
Concurrent #15 Hampton 4 (3rd floor) Session Format: Contributed Papers	Collaborating with Citizens for Science, Resource Man- agement, and Stewardship	10632 • Bigger than a BioBlitz: Great Smoky Mountains ATBI—What to do with all that Data / Paul E. Super et al.	10655 • One Hundred Parks and Counting: Biodiversity Findings and Outreach Impacts from a Nationwide BioBlitz • Toni Lyn Morelli et al.	10398 • Turtle T.H.i.S. (Teens Helping in the Seashore) A Citizen Science Project / Susan Teel et al.	10707 • Citizen Science Acoustical Monitoring / Lisa Murphy	PENDING Petit de Mange	Q&A
E	For many parks, citizen science h	as enhanced the research and reso	ource management program. Pres	entations here delve focus on citize	n-led inventory and monitoring.		
Concurrent #16 Hampton 5 (3rd floor) Session Format: Contributed Papers	The Vegetation Component of Ecosystems: Disturbance, Monitoring, and Restoration	10457 • Forest Vegetation Following Natural Distur- bance Events on Preserved Lands / Douglas Manning et al.	10669 • Deer impacts to vegetation recovering from Superstorm Sandy in over- washes of Fire Island National Seashore / Chellby Kilheffer & H. Brian Underwood	10470 • Seasonal water use of Saguaro cacti (<i>Carnegiea gigantea</i>) and their nurses / Daniel Winkler et al.	10800 • The Southern Pine Beetle Attacks Fire Island National Seashore / Jordan Raphael	Q&A	
E	Vegetation is a critical part of eco	osystems and ecosystem functioni	ng. This session explores aspects o	f monitoring and restoration follo	wing disturbances.		
Concurrent #17 Hampton 6 7 8 (3rd floor) Session Format: nvited Speakers	10772 • Visitor-Use Manage- ment for Delaware Water Gap NRA's next 50 years: Next generation approaches and strategies / Jessica Fefer, chair	Applying Visitor Use Manage- ment Planning at Delaware Water Gap National Recre- ation Area / Rachel Collins	Emerging visitor-use trends at Delaware Water Gap National Recreation Area / Leslie Morlock	The new social scene: Social science for effective visitor- use planning at Delaware Water Gap NRA / Jeffrey Hallo	Recreation Ecology and Visitor Use Management: A Delaware Water Gap National Recreation Area Case Study / Jeffrey Marion	An extension of social science contributions: Problem-based solutions for sustainable park management / Jessica Fefer	Q&A
E) This session is a case study at De	l laware Water Gap NRA, updating	I the audience on next generation a	pproaches and strategies for effec	Live visitor-use management.	1	<u> </u>
Concurrent #18 Chesapeake 1 2 (4th floor) Session Format: nvited Speakers	10745 • Communicating coastal vulnerability and climate change adaptation strategies to varied audiences / Courtney Schupp & Amanda Babson, chairs	Picture This: Using Novel Elements to Provoke Climate Conversations / Larry Perez	Animating Outreach: Design- ing public texts that move audiences toward community resilience / Jamie Remillard	Communicating Place-Based Climate Change Adaptation in the Great Lakes: The Apostle Islands National Lakeshore Experience / Bob Krumenaker	Communicating Sea-Level Rise and Coastal Resource Impacts in the Pacific West / Amanda Schramm	Development of a Resource Stewardship Strategy Tool for the National Capitol Region / Simon Costanzo	Q&A
Ð	Clear, informative communicatio	n through various media and met	thods is crucial for garnering publi	c support of parks' adaptation to c	limate change and coastal vulner	ability.	
wor orga	laboration Sessions bring attend k on a specific project. At the end o anizers will give attendees the oppo plete the project.	f the session, the	and, "Where do we wa	k two questions: "Where are we? nt to go?" These sessions ask the where we should go from here, e directions.	in on the progra	e Sessions bring attendees toge he latest developments with rega m, or issue. Attendees emerge fro p-to-date on the topic.	rd to an project,
que the	Illenge Sessions ask members of t stion their assumptions. Attendees session with their critical thinking t aged.	s emerge from	💦) that increase the capac	nds-on training opportunities ity of attendees to solve a specifi ve with new skills applicable to	c with in session	ack Sessions are fast-paced, exc dividual 5-minute presentations /s topic. The outcome is that audi way energized and intrigued to lo	on aspects of the ence members

		4:00-4:20	4:20-4:40	4:40-5:00	5:00-5:20	5:20–5:40	5:40-6:00
Concurrent #19 Norfolk 5 6 (1st floor) Session Format: nvited Speakers	10616 • Planning for the Fu- ture of Resource Stewardship in the NPS / Patrick Gregerson & Carrie Miller, chairs	The New Planning Frame- work for the National Park System / Patrick Gregerson	Foundations for Planning and Management / Presenter TBA	Title TBA / Tamara Delaplane	Title TBA / Carrie Miller	Q&A	<u>I</u>
(\mathbf{F})	The NPS planning framework an	d System Plan are guiding the fut	ure of resource management at ev	 ery park unit and within the entire	national park system.	<u> </u>	
Concurrent #20 Marriott 1 2 3 (4th floor) Session Format: Panel Discussion	10641 • Making a global con- nection to cultural landscapes / Brenda Barrett & Elizabeth Brabec, chairs	Susan Dolan, WASO Program M William Pencek, Executive Direc	ter for Heritage and Society, and F lanager, Park Cultural Landscapes ctor, US ICOMOS ct Professor, University of Vermon	Program	pe Architecture and Regional Pla	nning	
G	Learn and share international tr	ends in international cultural lana	lscape practice an approach suited	to incorporate dynamic processes	as well as natural and cultural val	ues.	
Concurrent #21 Marriott 4 (4th floor) Session Format: nvited Speakers	10725 • Second Century Thinking: Research to Sup- port Interpretation, Educa- tion, and Engagement / Steve Lawson, chair	The Inspiring a New Genera- tion Summit: Findings from Census-building Workshops on Engaging Children with Parks / Matthew Browning	Influencing Youth Behavior and Nature Engagement Through Leave No Trace Education / Forrest Schwartz	Education and Interpretation in the Lab: Simulated Sound- scapes' Role on Memory, Attention, and Personal Reflection / Jacob Benfield	What Makes an Environ- mental Education Program Successful? Defining Success and Studying What Leads to It / Robert Powell	Evaluating the Effects of Crowding on Interpretive Experiences at Castillo de San Marcos National Monument / Alex Belensz	Q&A
G	The session will explore state-of	practice research designed to sup	port desired outcomes and enhand	ed effectiveness of interpretation,	education, and engagement prog	l rams.	
Concurrent #22 Marriott 5 6 7 (4th floor) Session Format: Fasttrack Sessions	This fast-paced session will expl. What is an MPA network, and v and communities for coastal an Concurrent #22b • 5:00–5:30p OA is a growing threat to coastal Monitoring ocean acidification	ore how Coastal Parks and Refuge why is it important? / Lauren Wen d marine conservation / TBD, USI 10785 • Perspectives from the resources in the NPS. Here, we de in the NCCN network • Steven Fra	uges as Part of Marine Protected , s are an integral part of MPA netw izel Making connections, I – b FWS Oceans are us – taking ne field: Monitoring ocean acidifica scribe tested methodologies for m idkin Monitoring ocean acidifi rtidal • Keith Lombardo The nu	orks through video, social media, l uilding ecological networks to ex ext steps for healthy oceans and c tion in the National Park Service / ponitoring ocean acidification and i cation at Cabrillo National Monur	ightning talks and discussion. pand our conservation impact / C ommunities / Gary Davis ^r Jonathan Jones, chair nterpreting climate change science nent / Jonathan Jones	2.	ions, II - connecting manag
Concurrent #23 Hampton 1 2 3 (3rd floor)	Connecting with Youth and Inspiring Them to Get Involved	10749 • Constructing Urban Youth Outreach Strategies in Urban-Proximate Parks / Cas- sidy Jones & Matt Brownlee	10841 • Effective Intergenera- tional Approaches for Parks / Shailyn Drukis	10701 • Evaluating Diverse Trail Projects Using Standard- ized Assessment Tools: Conservation Corps Example /	10590 • Pathways to Parks: Fostering the Next Genera- tion of Stewards / Scott Esser & Ben Baldwin	10767 • Friday in the park with students: a semester's teaching on parks and policy / Alison Beale	Q&A

		4:00-4:20	4:20-4:40	4:40-5:00	5:00-5:20	5:20-5:40	5:40-6:00
Concurrent #24 Hampton 4 (3rd floor) Session Format: Sharing Circle	10654 • Drowning in Controversy: How managing submerged lands promises to be messy, complex, and increasingly important / Chris Buczko & Bob Krumenaker, chairs	Chris Buczko, NEPA Coordina Julia Brunner, Policy and Re Bruce Huber, Associate Profe John Nagel, Professor of Law	gulatory Specialist, National Park So essor of Law, University of Notre Da	ervice me		l d lan de	
		r	intoversies, including supreme court				
Concurrent #25 Hampton 5 (3rd floor) Session Format: Panel Discussion	11422 • Pursuing parks and protected area careers in a changing political climate / Matthew Browning & Jen- nifer Thomsen, chairs	Panelists TBA					
	Our session offers lessons learne	and career advice for student	ts on how best to adapt to a shifting	political climate for parks and prot	tected areas.		
Concurrent #26 Hampton 6 7 8 (3rd floor) Session Format: Invited Speakers	10630 • Advancing the prac- tice and discourse of visitor capacity in parks / Ryan Sharp & Matt Brownlee, chairs	Title TBA / Jeff Marion	Title TBA / Robert Manning	Title TBA / Doug Whittaker	Q&A		
G	Past lessons learned will be app	lied to new forward thinking fr	ameworks on visitor use and visitor of	L	las.		
Concurrent #27 Chesapeake 1 2 (4th floor) Session Format: Café Conversation	Lessons on Truth, Reconcili- ation, and Healing for Parks and Cultural Sites / Anne Ketz, café conversation leader	10729 • Honoring Tribal Leg 10464 • Commemorating th	d Reconciliation for Parks and Cultu acies: An Epic Journey of Healing / F e 150th Anniversary of the 1868 Tre nunity Engagement Ambassador, U	Rose Honey eaty of Fort Laramie / Tom Baker &	& Maryann Neubert		
(F	Understanding the interests, cor	l ncerns, and frustrations — the	truths — held by the communities	with whom we work. What is trut	h, and whose truth are we tal	king about?	
wo org	llaboration Sessions bring attend rk on a specific project. At the end c anizers will give attendees the opp nplete the project.	of the session, the	and, "Where do we wa	sk two questions: "Where are we ant to go?" These sessions ask the where we should go from here, Jle directions.	e 😥 ir	pdate Sessions bring attend on the latest developments v rogram, or issue. Attendees e illy up-to-date on the topic.	vith regard to an project,
the	allenge Sessions ask members of estion their assumptions. Attendee ession with their critical thinking gaged.	s emerge from	(🔪) that increase the capa	ands-on training opportunities acity of attendees to solve a specif eave with new skills applicable to	fic 😧 w	asttrack Sessions are fast-pa ith individual 5-minute prese ession's topic. The outcome is t ome away energized and intrig	ntations on aspects of the hat audience members

Monday, April 3 • 6:00–10:00p | Evening Activities

Welcome to Norfolk! Reception (7:30-8:30p; Norfolk 3|4, 1st floor)

We welcome you to GWS0217 and to Tidewater Virginia with a reception featuring complimenary hors d'oeuvres and a cash bar. It's a great time to meet up with old friends and mingle with new ones. No ticket required, but you must wear your name tag for entry.

Decolonizing Conservation

(Hampton Ballroom 4|5, 3rd floor)

Jeff Corntassel, Professor and Director of Indigenous Governance, University of Victoria Respondent: Elizabeth Nanticoke, Elder and member of Mohawk Women's Singing Society, Akwesasne Mohawk Nation

The concept of decolonization does not only refer to the historic global movement, furthered by the United Nations. following World War II, in which former colonies became independent states. It also refers to the dismantling of entrenched attitudes and unexamined assumptions that serve to privilege powerful groups and their interests over others. In this sense, the concept has been referred to as "the decolonizing of the mind." The connection of the idea of decolonization to parks, protected areas, and cultural sites is that the conservation of these areas has developed within the larger context of entrenched attitudes and unexamined assumptions that decolonization is challenging. For example, decolonizing park science might involve not just using TEK (traditional ecological knowledge) to complement Western science, but in some cases to question how that scientific model is used. Just as ubiquitous climate change and other human-caused change has prompted conservationists to rethink the goals and purpose of protected areas—and indeed the very idea of nature itself—"decolonizing conservation" calls on park professionals, communities and practitioners to reconsider the social and biocultural framework in which their work takes place.

Jeff Corntassel (Cherokee Nation) received his Ph.D. in Political Science from the University of Arizona in 1998, and is currently Associate Professor and Director of Indigenous Governance at the University of Victoria. Corntassel's research and teaching interests include sustainable self-determination and Indigenous political mobilization. Jeff's research has been published in *Alternatives, Decolonization, Human Rights Quarterly,* and *Social Science Journal.* Jeff's first book, entitled *Forced Federalism: Contemporary Challenges to Indigenous Nationhood* (2008, University of Oklahoma Press), examines how Indigenous nations in the U.S. have mobilized politically as they encounter new threats to their governance from state policymakers. His next book is an edited volume in collaboration with Native Hawaiian professors in Indigenous Politics at the University of Hawai'i, Manoa, and is entitled *Everyday Acts of Resurgence: People, Places, Practices.*



Elizabeth Nanticoke bio to come.

FOLLOW-UP SESSION: For those who want to continue the conversation on decolonization, Professor Corntassel and Ms. Nanticoke will be taking part in an informal Sharing Circle discussion (Concurrent Session #34a; see below) from 10:00 to 11:30am in Hampton Ballroom 5.

BOOK SIGNING: Professor Corntassel will be signing copies of his book Forced Federalism in the Presidential Foyer at noon. Copies will be available for purchase.

		10:00-10:20	10:20–10:40	10:40-11:00	11:00-11:20	11:20–11:40	11:40-12:00
Concurrent #28 Vorfolk 5 6 (1st floor) Gession Format: nvited Speakers	10819 • Gnarly problems: examining natural resource climate change adaptation in the NPS through the policy lens / Gregor Schuurman & Cat Hawkins Hoffman, chairs	Managing wet meadow systems at Sequoia and Kings Canyon National Parks in a changing climate / Marie Denn	Adapting to wildlife range and distribution shifts in response to climate change: the Desert Tortoise / Tanya Shenk	Fuels management and shift- ing fire regimes / Gregory Eckert	Infectious disease manage- ment in wildlife in the climate change context / Danielle Buttke	'Take home' messages – grounding policy evolution for an era of continuous change / Gregor Schuurman	Q&A
\bigcirc	Here we showcase an NPS effort	that analyzes current policy regard	ding adaptation, identifies where	further guidance is needed, and p	rovides a foundation for policy evo	lution.	
Concurrent #29 Marriott 1 2 3 (4th floor) Gession Format: nvited Speakers	10795+10619 • Managing Human Uses and Impacts in Ocean Parks: The Byzantine Marine Scene / chair TBA	Relative Roles of State and Federal Jurisdiction in Managing Coastal Parks / Stephen Simon	Creating a Marine Reserve in Dry Tortugas National Park: Science, People, and Process / Tracy A. Ziegler	Implementing a Partnership Strategy to Increase Marine Resource Protection, Enjoy- ment and Adaptive Manage- ment in Everglades National Park / Fred Herling	Dispersed Fishing Use Monitoring Using GPS: Proof of Concept at Fire Island National Seashore / Karl Brookins	10619 • Establishment of a transboundary MPA network between Grenada and St. Vincent and the Grenadines / Orisha Joseph	Q&A
B	Participants will explore how me	nitoring, application of policy and	l planning, and diligent outreach	and communication can address u	ser impacts in this new discipline.	<u>I</u>	I
Concurrent #30 Marriott 4 (4th floor) Session Format: nvited Speakers	10706 • Breakthroughs Bring Bison Restoration a Bit Closer / Peter Dratch, chair	Looking forward: using popu- lation viability analyses to inform science-based bison metapopulation manage- ment strategies / Amanda Hardy	Title TBA / Jennifer Barfield	American Icons in Metropoli- tan Grasslands: Bison Social Science Breakthroughs on Colorado's Front Range and Beyond / Rebecca Garvoille	Transforming Interior Bison: From Livestock to Wildlife / Peter Dratch	Q&A	
(\mathbf{G})	Important developments in the	l biological and social science of bise	n, are both exciting to the public	l and bring ecological restoration of	the species closer.	<u> </u>	
Concurrent #31 Marriott 5 6 7 (4th floor) Gession Format: Panel Discussion	10640 • Keeping Our Secrets: Sharing and Protecting Sensi- tive Resource Information in the Era of Open Data / David Gadsby & Anne Vawser, chairs	"Open-ish": Finding Balance be Confidentiality: Who Decides? / To Share, or Not to Share? Persp	Julia Brunner	Accessibility at the State Level / Jo Sensitive Information / Kristen L			
	Speakers with diverse perspectiv	 /es will explore creative solutions fo	or sharing/restricting confidential	information on natural and cultur	al resources.		
oncurrent #32 lampton 1 2 3 (3rd floor) ession Format: nvited Speakers	10781 • The effects of trans- portation related noise on experiential and ecological conditions in parks / Peter Newman et al., chairs	Overflights and Parks: An Update / Adam Becco	The effects of natural and anthropogenic noise on climber experiences in Grand Teton National Park / Lauren C. Abbott	Effects of anthropogenic noise on wildlife: Synthesis and case studies / Emma Brown	The significance of sound- scapes in coupling biodiver- sity, psychological ecosystem services and conservation in National Parks / Peter Newman	New tool to measure and minimize transportation noise / Kathryn Nuessly	Q&A

		10:00-10:20	10:20-10:40	10:40-11:00	11:00-11:20	11:20–11:40	11:40-12:00
Concurrent #33 Hampton 4 (3rd floor) Session Format: Invited Speakers	10680 • Leveraging GPS tracking for improved decision-making: Innovative analyses and expanded visitor and resource management applications / Susan Irizarry & Ashley D'Antonio, chairs	Spatial analysis of visitor use to inform interagency fee revenue sharing at Sequoia- Kings National Park / Susan Irizarry	Improving predictability in visitor use and natural resource management using agent-based models of hiker movement / Ashley D'Antonio	A spatial classification of vehicular behavior patterns of visitors in Grand Teton National Park / Abigail Kidd	Monitoring use without direct observation: Clas- sifying pack stock behaviors and distributions with GPS tracking / Chelsey Walden- Schreiner et al.	Utilizing crowd-harvested GPS data to manage special events and general use of public lands / Jeremy Wimpey	Q&A
	1 11		into visitor use management, enco	1			
Concurrent #34 Hampton 5 (3rd floor) Session Format: Sharing Circle + Fasttrack Session	with Jeff Corntassel & Elizabeth	a Decolonizing Conservation Nanticoke / TBA chair	: continuing the Conversation	with tribes / Valerie Grussing, c TCL can increase appreciation fo stronger voice in shaping its futu Characterizing Tribal Cultural Li standing Place Through Indiger	hair r past and present indigenous inte ure. andscapes: Framework / David B nous Voice and Practice / Eirik The	dscapes: Documenting culturally i erests in the national landscape, ar all Confederated Tribes of Gran orsgard Confederated Tribes of s Changing the Federal Landsco	d give original stewards a d Ronde Case Study: Under- Grand Ronde Case Study:
	Combining a Sharing Circle (10:0	00–11:30a) and Fasttrack present	ations (11:30a—12:00p), this sess	ion will continue exploring the cor	ncepts around "Decolonizing Conse	ervation."	
Concurrent #35 Hampton 6 7 8 (3rd floor) Session Format: Invited Speakers	10672 • NPS Strategic Invasive Animal Science Workshop / Elaine F. Leslie & Kent Redford, chairs	Title TBA / Jeff Walters	Title TBA / Russ Galipeau	Title TBA / Hilary Smith	Title TBA / Ryan Monello	Title TBA / Elaine Leslie	Q&A
	Invasive species are the second n	nost significant threat to biodivers	sity, after habitat loss. Help the NP.	s determine a strategic servicewid	e approach to this pervasive issue		<u>I</u>
Concurrent #36 Chesapeake 1 2 (4th floor) Session Format: Café Conversation	10648 • The Goldilocks Syndrome and Park-based Science—Brokering outreach opportunities that are just right	Café conversation leader: Martha Merson, Project Directo	or, iSWOOP at TERC				
(H)	Guidelines: setting expectations	l so that park-based researchers' w	ork builds staff resource knowledg	e and increases the visibility of th	e park as a research setting.		
work organ	boration Sessions bring attend on a specific project. At the end o nizers will give attendees the oppo lete the project.	f the session, the	and, "Where do we wa	k two questions: "Where are we? nt to go?" These sessions ask the where we should go from here, le directions.	in on t progra	te Sessions bring attendees toge he latest developments with rega m, or issue. Attendees emerge fr p-to-date on the topic.	rd to an project,
quest the se	lenge Sessions ask members of ion their assumptions. Attendee: assion with their critical thinking ged.	s emerge from	💦) that increase the capac	nds-on training opportunities ity of attendees to solve a specifi ave with new skills applicable to	c with in session	rack Sessions are fast-paced, exc ndividual 5-minute presentations n's topic. The outcome is that audi away energized and intrigued to l	on aspects of the ence members

		1:30–1:50	1:50-2:10	2:10-2:30	2:30-2:50	2:50-3:10	3:10-3:30					
Concurrent #37 Norfolk 5 6 (1st floor) Session Format: Panel Discussion	10855 • Advancing Nature- Culture Connections / NoraIUCN Perspective on the importance of interlinkages of nature and culture for conservation / Tim Badman ICOMOS Perspective on the importance of interlinkages of nature and culture for conservation / Bill Pencek NPS Perspective on the importance of interlinkages of nature and culture for conservation / Stephanie Toothman Case study 1: Interlinkages of nature and culture in landscape/seascape: Experience from the Pacific Islands / Melia Lane-Kamahele Case study 2: Linking nature-culture in World Heritage: Belize Barrier Reef Reserve System and Sian Ka'an Biosphere Reserve / Jessica Brown Case Study 3: Nature-Culture connections in conservation of Hortobágy National Park and World Heritage Site, Hungary / Nora Mitchell Case Study 4 from Mesoamerica (invited) • Strengthening the Intersection of Conservation, Sustainability and Human Rights / Kristen Walker Painemilla											
	Emerging initiatives recognize t	Emerging initiatives recognize that natural and cultural heritage are bound together in many landscapes and seek to identify next steps to advance integration in conservation.										
Concurrent #38 Marriott 1 2 3 (4th floor) Session Format: Contributed Papers	Wilderness Stewardship	10766 • The State of Unconfined Recreation in the National Wilderness Preserva- tion System / Carol Griffin	10714 • Wilderness Character Monitoring Continues on Na- tional Wildlife Refuges / Peter Dratch & Marissa Edwards	10844 • Backcountry Use Concentrated within Denali National Park Wilder- ness / Lorraine Stamberger & Carena van Riper	10600 • Novel Approaches for Monitoring Solitude in Urban-Proximate Wilderness Areas / Henry Lilly et al.	10454 • Mining Claims in Selected Wilderness Areas of the Greater Yellowstone Ecosystem / Craig Shafer	10611 • A Preservation Paradox: Reconciling the Wilderness Act and Cultural Resource Protection Mandates in Wilderness Management / Karen Mudar & Laura Kirn					
	Designated wilderness continue	es to be a highly visible, and somet	me controversial, part of the world	's protected area estate. Wilderne	ss stewardship is evolving.	Λ.						
Concurrent #39 Marriott 4 (4th floor) Session Format: Panel Discussion	10747+10847 • The Promise and Challenge of New Parks and Protected Areas: Perspec- tives from Canada and the United States / Rebecca Stan- field McCown et al., chairs	Rebecca Stanfield McCown Jennifer Jewiss Kevin McNamee										
\bigcirc	Bringing together practitioners	and researchers to identify promis	ing practices in establishing and m	anaging new units allows for kno	wledge sharing that improves pra	ctice and fosters connections.						
Concurrent #40 Marriott 5 6 7 (4th floor) Session Format: Invited Papers	10459 • Enhancing the Sustainability of Visitor Use Management through the Application of Recreation Ecology Research / Jeffrey Marion	Recreation Ecology Research and Geospatial Applications to Enhance the Sustainability of Trails / Jeremy Wimpey	Recreation Ecology Research to Enhance the Sustain- ability of Primitive Camping / Johanna Arredondo	Recreation Ecology Research to Enhance the Sustainability of Rock Climbing / Chris Carr	Successful Applications of Recreation Ecology Science in Enhancing the Sustainability of Park Visitation / Jeffrey Marion	Q&A						
Ð	Participants will learn the lates	t recreation ecology research findin	gs and their implications for the s	ı ıstainable management of park v	isitation.	1						
Concurrent #41 Hampton 1 2 3 (3rd floor) Session Format: Panel Discussion	10402 • Return of the Buffalo: A discussion of the impacts of federal buffalo on receiving tribes / Kristine Reed & Jim Stone, chairs	Ervin Carlson, ITBC President, B Delbert Chisholm, ITBC Region Mike Faith, ITBC Vice President,	lackfeet Nation 4 Director, Taos Pueblo	oine & Sioux Tribes								

		1:30–1:50	1:50-2:10	2:10-2:30	2:30-2:50	2:50-3:10	3:10-3:30
Concurrent #42 Hampton 4 (3rd floor) Session Format: Workshop	10684 • Expanded Col- laboration Between Cultural Resources and Interpretation/ Education: Challenges and Opportunities	Emily Button Kambic, Public Ou Joy Beasley, Deputy Associate I Lu Ann Jones, Acting Chief Hist Linda Lutz-Ryan, Chief of Interp Paul Ollig, Chief, Interpretation	Director, Park Programs and Natic orian, NPS pretation, National Capital Region and Education, National Mall an	ources, National Park Service Nati onal Heritage Areas, NPS n, NPS d Memorial Parks, Washington, D	c		
	Participants of the workshop wi	ll work together to identify and di	scuss the challenges and opportur	nities of collaboration between Cul	tural Resources and Interpretation	/Education.	
Concurrent #43 Hampton 5 (3rd floor) Session Format: Contributed Papers	Investing in the Park Work- force of Today, and Tomorrow: Professionalization and Capacity Development / David Reynolds, chair	10852 • World Ranger Congress 2016: Facilitating International Collaboration for the Front-line Guardians of Protected Areas / Claire Shields	10438 • Undergraduate Park Management Education: Missing the Mark On Indige- neity? / Chance Finegan	10662 • Building a NPS Workforce of Young Leaders in the Second Century / Lisa Norby et al.	10667 • Crafting Internships: Setting Your Interns Up for Success / Paloma Bolasny	11045 • Reimagining the Preservation Workforce, Public Engagement, and Technical Education / Stephen Spaulding	Q&A
P)	I	1	I	1	1	I
Concurrent #44 Hampton 6 7 8 (3rd floor) Session Format: Invited Papers	10690 • Native Wildlife and Ecosystem Health: What are the Facts About Impacts from Feral Cats? / Elaine F. Leslie & Kent Redford, chairs	Title TBA • Jeff Watters	Title TBA • Danielle Buttke	Title TBA • Nicole Paquette	Title TBA • Darcy Hu	Title TBA • Presenter TBA	Q&A
$\mathbf{\mathbf{\mathcal{G}}}$	Without many precedents and w	I vith a volatile topic among stakeho	l olders and employees, the NPS is a	Interpting to deal with feral dome	I sticated cat-wildlife interface issu	l 25.	
Concurrent #45 Chesapeake 1 2 (4th floor) Session Format: Café Conversation	10762 • Developing Effective Communities of Practice: Us- ing COAST as an Example	Café conversation leaders: Eva DiDonato, Chief, Ocean and Tracy Ziegler, Marine Ecologist,	l Coastal Resources Branch, Natio National Park Service	nal Park Service			
Ŕ	We will brainstorm and discuss w	what can make communities of pr	actice successful as a communicat	ion tool to develop knowledge and	shared experience for resource m	inagement.	
world orga	aboration Sessions bring attend k on a specific project. At the end o inizers will give attendees the opp plete the project.	f the session, the	and, "Where do we wa	sk two questions: "Where are we? int to go?" These sessions ask the where we should go from here, le directions.	in on t progra	e Sessions bring attendees toge he latest developments with rega m, or issue. Attendees emerge fro p-to-date on the topic.	rd to an project,
ques the	llenge Sessions ask members of stion their assumptions. Attendee: session with their critical thinking aged.	s emerge from	that increase the capao	inds-on training opportunities city of attendees to solve a specifi ave with new skills applicable to	c with ir session	ack Sessions are fast-paced, exc dividual 5-minute presentations /s topic. The outcome is that audi way energized and intrigued to l	on aspects of the ence members

		4:00-4:20	4:20-4:40	4:40-5:00	5:00-5:20	5:20-5:40	5:40-6:00
Concurrent #46 Norfolk 5 6 (1st floor) Session Format: Contributed Papers	Wildlife Management	10526 • A Genetically-Medi- ated Trophic Cascade / Rolf Peterson & John A. Vucetich	10739 • Avoidance of whales by large ships, with implica- tions of varying ship speed and whale behavior / Scott Gende et al.	10668 • Marine Wildlife in the National Park Service / Nicole Brandt & Elaine F. Leslie	10769 • The Science and Politics of Restoring the Black Bear in Big South Fork NRRA / Tom Blount	Q&A	
(\mathbf{z})	Current practice in wildlife man	I agement — including genetic and	l d acoustical analyses — are explo	l red in this session.	<u> </u>	<u> </u>	
Concurrent #47 Marriott 1 2 3 (4th floor) Session Format: Day-Capper	10911 • Kontiwennenhá:wi: Women Carrying Words / Elizabeth Nanticoke, chair	Day-Capper format: Live dancir	ng and singing; discussion of Kani	ienkeha:ka (Mohawk) language a	nd culture.		
	You'll be introduced to social so	ngs and dances of the Kanienkeha:	ka (Mohawk) Nation, their role in	the community, and how they sup	port the Mohawk language.		
Concurrent #48 Marriott 4 (4th floor) Session Format: Invited Papers	10686 • Multi-Scalar Approaches to Addressing Climate Change Impacts on Cultural Heritage / Lauren Meyer & Marcy Rockman, chairs	Zoom Out: Cultural Resources and Climate Change at the National and Global Scale / Marcy Rockman	Navigating Cultural Landscapes in the Era of Climate Change: Lessons from Western National Parks / Robert Melnick	Climate Change Vulnerability and Risk Assessment Frame- work for Cultural Resources in NPS Intermountain Region / Brooks Jeffery and Laura Jensen	Climate Change Impacts on Cultural Materials / Andy Ferrell	A Future for Fort Union: Preserving Adobe Ruins in an Age of Climate Change / Frank Matero	Q&A
G	This session will bring together	NPS programs and partner institut	tions to discuss ongoing scaled-app	proaches to assess climate change	impacts on cultural heritage.		
Concurrent #49 Marriott 5 6 7 (4th floor) Session Format: Contributed Papers	Spatial Analysis of Visitor- related Information	10720 • Spatial Temporal Dynamics of Visitor Stopping Behavior Along a Rustic Park Road / Jennifer Newton et al.	10721 • Effects of landscape attributes on visitor spatial behaviors in protected area settings / Robin Graham	10789 • Geospatial Analytics for Park & Protected Area Decision Support / Stacy Supak et al.	10637 • Recreational Suit- ability Mapping to address Recreational Conflict / Ben Kraja & Matthew Brownlee	10625 • Does use level influence visitors' off-trail behavior in ways that are socially and ecologically im- portant? / Ashley D'Antonio & Christopher Monz	10740 • Scenic Views: Inven tory is the First Step Toward Protection / Ksienya Taylor & Melanie Peters
	Social science research on park	visitors is increasingly being preser	nted and analyzed spatially, giving	managers another place-specific	tool to work with.		
Concurrent #50 Hampton 1 2 3 (3rd floor) Session Format: Invited Papers	10560 • Water—Where did it Come From? Where is it Going? What is it Doing? / Ann Gallagher	Headwaters, Water in a Mountainous Park / Stepha- nie Uriostegui	Flowing Streams, Descrip- tions and Trends / Margie Shaffer	Water at the Margins, Chang- ing or Sustaining / Cindy Palinkas	Coastal Waters, Surging and Rising / Maria Caffrey	Sea Levels Rise, Change / Sam Sheline	Q&A

		4:00-4:20	4:20-4:40	4:40-5:00	5:00-5:20	5:20-5:40	5:40-6:00
Concurrent #51 Hampton 4 (3rd floor) Session Format: Contributed Papers	Engaging with Indigenous Peoples	10862 • A Good Beginning – Working With Indigenous Peoples for New National Parks in Northern Canada / David Murray	10846 • Indigenous Consulta- tion in the Era of Sustainable Development: The Ojibway Peoples of Canada / Gabriela Corbera	10737 • Guidance for Improved Tribal Use of Sacred Sites within the National Park Service Intermountain Region / Dorothy FireCloud & Jhon Goes In Center	10595 • Changing Climate, Changing Policy: Subsistence Use and Wilderness Values in Gates of the Arctic / Chris Dunn	10752 • Reverberations in Soundscapes at the Interface Between Indigenous Peoples and National Parks in South- west USA / Barbara Long	Q&A
B	As protected area agencies' relat	tions with Indigenous peoples and	nations continue to evolve, metho	ds of engagement are being explo	red that go well beyond pro form	a consultation.	
oncurrent #52 lampton 5 (3rd floor) ession Format: anel Discussion	10543 • GWS Student Sum- mit Reflections: Challenges and Opportunities Facing Protected Areas over the Next Century / Jennifer Thomsen, chair	Brian Peterson, PhD Student, U		hD Student, University of Montan wski, PhD Student, University of L			
	This session offers reflections on	where we have been and where w	ve are going in protected area man	agement from the inaugural GWS	Student Summit.		
ioncurrent #53 lampton 6 7 8 (3rd floor) ession Format: iontributed Papers	Mobilizing Data for Manage- ment Decisionmaking	10670 • Trend Analysis for Complex Survey Designs / Leigh Ann Starcevich et al.	10666 • SDrawNPS: A Graphical User Interface for GRTS Sampling and Analysis / Leigh Ann Starcevich et al.	10697 • The Public Lands Flora: Building informatics systems to manage biodiver- sity in protected areas / Steve Buckley	10713 • A Ten Step Program that Links Monitoring to Managment / Peter Dratch	10824 • Measuring the whole night sky, and why it matters / Li-Wei Hung	Q&A
(\mathbf{F})	The data firehose shows no sign:	s of being turned off at the spigot.	Managers are learning that they i	leed to not just sift through inform	ation — they have to proactively	plan for finding and using it.	<u> </u>
Concurrent #54 Chesapeake 1 2 (4th floor) Session Format: Café Conversation	10756 • Addressing biological resource stewardship needs through community steward- ship	Kiersten Jarvis, Community Ste	wardship Program Project Manag	rk Service Biological Resources Di Jer, National Park Service Biologic ational Park Service Biological Re:	al Resources Division		
E	Explore opportunities for commu	nity stewardship of biological res	ources, share stories of challenges	and successes, and discuss approp	riate metrics and strategies for ad	dressing park needs.	
work organ	boration Sessions bring attend on a specific project. At the end o izers will give attendees the opp lete the project.	of the session, the	and, "Where do we wa	k two questions: "Where are we?" nt to go?" These sessions ask the where we should go from here, e directions.	in on the progra	e Sessions bring attendees toge ne latest developments with rega m, or issue. Attendees emerge fro -to-date on the topic.	rd to an project,
quest the se	enge Sessions ask members of ion their assumptions. Attendee: ession with their critical thinking ged.	s emerge from	💦) that increase the capac	nds-on training opportunities ity of attendees to solve a specific ave with new skills applicable to	: with in session	ack Sessions are fast-paced, exc dividual 5-minute presentations 's topic. The outcome is that audi way energized and intrigued to lo	on aspects of the ence members

Tuesday, A	pril 4 • 6:00	D-10:00p	Evening Bus	siness Meet	ings & Act	tivities	
More details to come.							
Concurrent #55 Hampton 1 2 3 (3rd floor) Session Format:	OPEN	8:00–9:30p	1	1			<u></u>
Concurrent #56 Hampton 4 (3rd floor) Session Format: Business Meeting	10831 • Update on U.S. World Heritage Program / Jonathan Putnam, chair	8:00—9:30p Speakers: Status of & Future Plans for U.S National Park Service Office of		n Morris, Chief, National Park Serv	vice Office of International Af	airs; and Jonathan Putnam, Interna	tional Cooperation Specialist,
	Will be of particular value to ma	nagers of U.S. World Heritage site	es, those on the Tentative List, and	those interested in becoming World	d Heritage sites. OPEN TO ALL.		
Concurrent #57 Hampton 5 (3rd floor) Session Format: Workshop	10551 • The Use of New Digital Technology to Convey Science Concepts through Animation	Workshop leaders: Ann Gallagher, Science Educati Megan Nortrup	ion Coordinator, National Park Ser	vice			
	Participants will contribute to a	l set of guidelines or a checklist of v	what-needs-to-be-done and what	needs-to-be-avoided to ensure co	mprehensible, science-educat	ion, animated videos are created for p	parks.
Concurrent #58 Hampton 6 7 8 (3rd floor) Session Format: Workshop	Meeting of IUCN World Com- mission on Protected Areas North American Section	Workshop leaders: David Reynolds, WCPA-NA Mer Mike Wong, WCPA-NA Vice Cha					
work o organiz comple (Maile questio the ses	oration Sessions bring attende n a specific project. At the end of zers will give attendees the oppore ete the project. Inge Sessions ask members of the n their assumptions. Attendees sion with their critical thinking fa	the session, the rtunity to help ne audience to emerge from	and, "Where do we wan audience to reflect on w with a range of possible Skills Sessions are han that increase the capacit problem. Attendees leav	two questions: "Where are we?" t to go?" These sessions ask the here we should go from here, directions. ds-on training opportunities y of attendees to solve a specific e with new skills applicable to	in on program fully	ate Sessions bring attendees toget the latest developments with regar ram, or issue. Attendees emerge fro up-to-date on the topic. track Sessions are fast-paced, exci- individual 5-minute presentations of box's topic. The outcome is that audie	d to an project, m the session ing overviews, n aspects of the nce members
comple Challe questio	ete the project. nge Sessions ask members of the set	ne audience to emerge from	with a range of possible Skills Sessions are han that increase the capacit	directions. ds-on training opportunities y of attendees to solve a specific	Fast with sessi	up-to-date on the topic. t rack Sessions are fast-paced, exci individual 5-minute presentations o	ting overviews, on aspects of the nce members

Natureful Cities for All

Timothy Beatley, Teresa Heinz Professor of Sustainable Communities, and Chair of the Department of Urban and Environmental Planning, School of Architecture at the University of Virginia Audrey Peterman, President of Earthwise Productions Inc.; author and activist

What if our cities were places where nature is front and center? Where natural areas are in close proximity to large numbers of urbanites who value, protect and actively restore their biodiversity? Where there are abundant opportunities to be outside and to enjoy nature through strolling, hiking, bicycling, exploring? Where all these benefits are available to everyone, regardless of race, ethnicity, income, or social status?

Drawing on E.O. Wilson's concept of biophilia (a inborn affinity for nature), Professor Tim Beatley has imagined and written about such biophilic, natureful cities. In this session you will learn

about what makes a city natureful, and then hear from one of America's foremost activists for inclusivity, Audrey Peterman, about what needs to be done to make sure our cities are full or nature for everyone.

Timothy Beatley is the Teresa Heinz Professor of Sustainable Communities, and Chair of the Department of Urban and Environmental Planning, School of Architecture at the University of Virginia, where he has taught for the last twenty-eight years. Beatley is the author or co-author of more than fifteen books, including *Biophilic Cities: Integrating Nature Into Urban Design and Planning, Blue Urbanism: Connecting Oceans and Cities,* and most-recently *Handbook of Biophilic City Planning and Design.* Beatley also writes a column for *Planning Magazine* called Ever Green, which has appeared every other month since 2008, and is a regular contributor to the Nature of Cities collective blog. Beatley founded and directs the Biophilic Cities Project at UVA (http://biophiliccities.org/), and recently helped to launch a global Biophilic Cities Network. He also co-founder and co-director, with Reuben Rainey, of UVA's Center for Design and Health, within the School of Architecture. He has been the recipient of the All-University Teaching Award at UVA, and also received the Outstanding Faculty Award, the state's highest award for faculty at its public universities (awarded by the State Council of Higher Education for Virginia). Beatley holds a PhD in City and Regional Planning from the University of North Carolina at Chapel Hill, an MA in Political Science from UNC, a Masters of Urban Planning from the University of Oregon, and a Bachelors of City Planning from UVA.

Audrey Peterman is President of Earthwise Productions Inc., the environmental consulting firm she and her husband Frank founded in 1995 to help connect the public lands system to urban populations. She co-founded the Diverse Environmental Leaders Speakers Bureau (www.delnsb.com) in 2014 to provide one stop access to the breadth of talent in communities of color, including solo circumnavigators, mountaineers, authors and climate/lands experts. She blogs about the National Parks and public lands system at the Huffington Post, and co-author of *Legacy on the Land: A Black Couple Discovers Our National Inheritance and Tells Why Every American Should Care* (2009.) Her travel guide to the national parks, *Our True Nature: Finding A Zest for Life in the National Park System* (2012), features 59 of 179 units she has vised. Mrs. Peterman's repertoire includes the broad range of experience gained from serving on the boards of diverse entities including the National Parks Conservation Association; the Association of Partners for Public Lands (renamed Public Lands Alliance) the National Parks Tourism Promotion Council; the advisory board of Delaware North Parks and Resorts concessionaires, and multiple community based organizations that she helped establish. Her passion for the public lands system and her determination to uphold their sacred place in our lives grows ever stronger.

BOOK SIGNING: Timothy Beatley and Audrey Peterman will be signing copies of their books in the Presidential Foyer immediately following the Plenary. Professor Beatley will be signing his brand-new title *Handbook of Biophilic City Planning and Design*, and Mrs. Peterman will be signing her books *Legacy on the Land* and *Our True Nature*. Copies will be available for purchase.





a Guide the R rk Service B rg ways to embed the p 744 • National Park V aning: Canadian an Perspectives S re R ential collaborative betv ence to Support H Resilience post- andy / Amanda N air n	Bob Ratcliffe, Chief, Outdoor Red principles of the Urban Agenda to Workshop leaders: Kevin McNamee, Director, Prote Stephen Morris, Chief, Office of I	ector, National Park Service Stew creation & Conservation, Nationa throughout the Park Service, this s ected Areas Establishment, Parks International Affairs, National Pa update or revise their respective no Toward Understanding Resilience: Measuring and Modeling Hurricane Sandy Impacts and Recovery at Fire	al Park Service ession will illuminate the potentia Canada ırk Service	l of NPS to impact communities. I of NPS to impact and gener- alities from looking across a range of coastal marshes / Jim Morris	Tracking Change and Recov- ery: Metrics of Resilience / Andrea Spahn	Modelling Groundwater Response to Sea Level Rise Beneath Barrier Islands at
'44 • National Park V 'aning: Canadian K an Perspectives S re S ential collaborative between the second	Workshop leaders: Kevin McNamee, Director, Prote Stephen Morris, Chief, Office of <i>ween NPS and Parks Canada to u</i> Hurricane Sandy's Silver-lining: Science-based Management for the Wilder- ness Breach at Fire Island NS /	ected Areas Establishment, Parks International Affairs, National Pa <i>update or revise their respective no</i> Toward Understanding Resilience: Measuring and Modeling Hurricane Sandy	Canada ark Service ational park system plans. Post-Sandy Research Projects to Understand and Manage Social-Ecological Resilience	Lessons learned and gener- alities from looking across a range of coastal marshes /	ery: Metrics of Resilience /	Response to Sea Level Rise
nning: Canadian K an Perspectives S re ential collaborative betw ence to Support H Resilience post- S andy / Amanda N sir n n	Kevin McNamee, Director, Prote Stephen Morris, Chief, Office of <i>ween NPS and Parks Canada to u</i> Hurricane Sandy's Silver-lining: Science-based Management for the Wilder- ness Breach at Fire Island NS /	International Affairs, National Pa update or revise their respective no Toward Understanding Resilience: Measuring and Modeling Hurricane Sandy	ational park system plans. Post-Sandy Research Projects to Understand and Manage Social-Ecological Resilience	alities from looking across a range of coastal marshes /	ery: Metrics of Resilience /	Response to Sea Level Rise
ence to Support H Resilience post-S andy / Amanda M nir n	Hurricane Sandy's Silver-lining: Science-based Management for the Wilder- ness Breach at Fire Island NS /	Toward Understanding Resilience: Measuring and Modeling Hurricane Sandy	Post-Sandy Research Projects to Understand and Manage Social-Ecological Resilience	alities from looking across a range of coastal marshes /	ery: Metrics of Resilience /	Response to Sea Level Rise
Resilience post-Sandy / Amanda N air n	Silver-lining: Science-based Management for the Wilder- ness Breach at Fire Island NS /	Resilience: Measuring and Modeling Hurricane Sandy	to Understand and Manage Social-Ecological Resilience	alities from looking across a range of coastal marshes /	ery: Metrics of Resilience /	Response to Sea Level Rise
		Island / Erike Lentz	Patrick			Three National Seashores / Mat Pajerowski
ghts of the extensive re	esearch on ecosystem resilience u	undertaken in parks post-Hurrican	ne Sandy.			
e: Maps, Apps, and D	Denali National Park and	10801 • Find your park online: An analysis of social media and the National Park Service Centennial / Scott Ogletree & Ingrid Nyakabwa	10689 • Virtual Visitors: Social Media in Yellowstone National Park / Zachary Miller & Wayne Freimund	10790 • Engaging citizens through technology in the field: An overview of iNatu- ralist in Colorado's State Parks / Matt Schulz	10771 • Using social media data to identify valued rec- reation resources and inform climate change adaptation planning / Allie McCreary et al.	10621 • On the road to capacities : Registration sys- tems, redistribution, and the "self-limitation" ideal / Doug Whittaker & Bo Shelby
rs now navigate life prir	imarily through their smartphon	l ne or other mobile device. To engage	l ge with these folks, maps, apps, ar	l nd social media are no longer add-	ons — they are the name of the g	J game.
al, and Cultural R	Raymond Sauvajot, Associate Di	irector, Natural Resource Steward	dship and Science, National Park	Service		
	sitors and Volun- : Maps, Apps, and a s now navigate life pr serving Ecologi- al, and Cultural e Next Century of te Management / et al., chairs	sitors and Volun- 10582 • Visitor Science in Maps, Apps, and a Denali National Park and Preserve / Heather Fischer s now navigate life primarily through their smartphor serving Ecologi- al, and Cultural e Next Century of te Management / et al., chairs	sitors and Volun- : Maps, Apps, and a10582 • Visitor Science in Denali National Park and Preserve / Heather Fischer10801 • Find your park online: An analysis of social media and the National Park Service Centennial / Scott Ogletree & Ingrid Nyakabwas now navigate life primarily through their smartphone or other mobile device. To engage serving Ecologi- al, and Cultural e Next Century of te Management / et al., chairsStephanie Toothman, Associate Director, Natural Resource Steward Julia Washburn, Associate Director for Interpretation, Education, Education, Education, Education, Education,	Maps, Apps, and aDenali National Park and Preserve / Heather FischerAn analysis of social media and the National Park Service Centennial / Scott Ogletree & Ingrid NyakabwaSocial Media in Yellowstone National Park / Zachary Miller & Wayne Freimundss now navigate life primarily through their smartphone or other mobile device. To engage with these folks, maps, apps, and serving Ecologi- al, and Cultural e Next Century of te Management / et al., chairsStephanie Toothman, Associate Director, Cultural Resources, Partnerships, and Science, National Park Service te al., chairs	sitors and Volun- : Maps, Apps, and a10582 • Visitor Science in Denali National Park and Preserve / Heather Fischer10801 • Find your park online: An analysis of social media and the National Park Service Centennial / Scott Ogletree & Ingrid Nyakabwa10689 • Virtual Visitors: Social Media in Yellowstone National Park / Zachary Miller & Wayne Freimund10790 • Engaging citizens through technology in the field: An overview of iNatu- ralist in Colorado's State Parks / Matt Schulzs now navigate life primarily through their smartphone or other mobile device. To engage with these folks, maps, apps, and social media are no longer add- Raymond Sauvajot, Associate Director, Cultural Resources, Partnerships, and Science, National Park Service Baymond Sauvajot, Associate Director for Interpretation, Education, and Volunteers, National Park Service Julia Washburn, Associate Director for Interpretation, Education, and Volunteers, National Park Service	sitors and Volun- : Maps, Apps, and a10582 • Visitor Science in Denali National Park and Preserve / Heather Fischer10801 • Find your park online: An analysis of social media and the National Park Service Centennial / Scott Ogletree & Ingrid Nyakabwa10689 • Virtual Visitors: Social Media in Yellowstone National Park / Zachary Miller & Wayne Freimund10790 • Engaging citizens through technology in the field: An overview of iNatu- ralist in Colorado's State Parks / Matt Schulz10771 • Using social media data to identify valued rec- reation resources and inform climate change adaptation planning / Allie McCreary et al.s now navigate life primarily through their smartphone or other mobile device. To engage with these folks, maps, apps, and social media are no longer add-ons — they are the name of the g serving Ecologi- al, and Cultural e Next Century of e Management /Stephanie Toothman, Associate Director, Cultural Resources, Partnerships, and Science, National Park Service ServiceStephanie Toothman, Associate Director, Ratural Resources, National Park Service serving Ecologi- al, and Cultural e Next Century of te Management /Stephanie Toothman, Associate Director for Interpretation, Education, and Volunteers, National Park ServicePark Service service

		10:00-10:20	10:20–10:40	10:40-11:00	11:00-11:20	11:20–11:40	11:40-12:00
Concurrent #64 Hampton 4 (3rd floor) Session Format: Contributed Papers	Understanding Aquatic & Riparian Invasive Species and Outbreak Events	10705 - Adopting molecular techniques in wilderness management and restoration in Yosemite National Park / Colleen Kamoroff & Caren Goldberg	10817 • Harmful Algal Blooms and Our National Parks: Developing Plans and Partnerships / Tracy Ziegler	10822 • Aquatic Invasive Species: Challenges and Solutions Across Boundaries / John Wullschleger	10788 • Human dimen- sions of aquatic invasive species management in Texas protected areas / Kenneth Wallen	10815 - Developing a Gate- way for Future Land Stewards through Education and Resource Protection / Heather Whitesides	Q&A
	Invasive species are especially de	evastating to aquatic and riparian	ecosystems. This session examine	es a range of challenges and solution	ons.		
Concurrent #65 Hampton 5 (3rd floor) Session Format: Contributed Papers	Climate Change	10553 • Investigating the early snowmelt of 2015 in the Cascade Mountains using new snowmelt timing maps / Donal O'Leary et al.	10814 • 'Resilience' — it's everywhere, but what does it mean in a climate change adaptation context? / Gregor Schuurman et al.	10783 • Climate Driven Extent Changes in Perennial Snowfields in Gates of the Arctic National Park, Alaska / Molly Tedesche et al.	10585 • Dinosaurs of Alaska's National Parks and a regional perspective of their ecosys- tems and climate / Anthony Fiorillo & Paul McCarthy	Q&A	
	Prioritizing historically designate	ed structures for adaptation treatment	nents necessitates continued delik	beration of how to best integrate a	spects of vulnerability, significanc	e and use potential.	
Concurrent #66 Hampton 6 7 8 (3rd floor) Session Format: Panel Discussion	10609 • Indigenous Cultural Landscapes: From Concept to Research, Results, Rewards, and the Future / Deanna Beacham, chair	Chesapeake Bay Priorities Research Tribal Cultural Landscapes and	arch and the Rappahannock Rive Studies in the Western United Sta	ke Bay: 2010-2016 / Suzanne Copp er Indigenous Cultural Landscape / ates / Eirik Thorsgard tives and Established Preservation	/ Julia A. King		
G	Since the concept's 2010 introdu	Left ction, research on the Indigenous	Cultural Landscape has resulted in	n increased indigenous involvemen	t, intriguing findings, and expana	ed perspectives. What comes next	,
Concurrent #67 Norfolk 5 6 (1st floor) Session Format: Café conversation	PENDING 10940 • Developing a Sustainable Recreation Research Agenda for Public Lands	Conversation leader: Francisco	/alenzuela (Director of Recreatio	n, Heritage & Wilderness, USDA Fo	orest Service Southwestern Regio	n)	
M) We want you to contribute your	l thoughts and ideas toward Develo	ping a Sustainable Recreation Re	search Agenda for Public Lands.			
wo org	laboration Sessions bring attend 'k on a specific project. At the end o anizers will give attendees the oppo- plete the project.	of the session, the	and, "Where do we wa	sk two questions: "Where are we? int to go?" These sessions ask the where we should go from here, le directions.	in on t progra	e Sessions bring attendees toge ne latest developments with rega m, or issue. Attendees emerge fro p-to-date on the topic.	rd to an project,
(🎦) que	allenge Sessions ask members of stion their assumptions. Attendee session with their critical thinking	s emerge from	💦) that increase the capac	inds-on training opportunities city of attendees to solve a specifi ave with new skills applicable to	c 🛛 🥻 🖬 🕻 🕻 c	ack Sessions are fast-paced, exc dividual 5-minute presentations 's topic. The outcome is that audi	on aspects of the

	1:30–1:50	1:50-2:10	2:10-2:30	2:30-2:50	2:50-3:10	3:10-3:30
10850 • Inventories 2.0: Shaping the Next Generation of Baseline Inventories of NPS Natural Resources	Workshop leader: Joe DeVivo, Deputy Chief for Sc	ience, Inventory & Monitoring Div	vision, National Park Service			
The timing and audience at GWS	ו ה provide an opportunity to engag	e a broad array of park stakeholde	rs on future needs for NPS Natural	Resource Inventories.		
10791 • Reaching Out on Scaling Up: Lessons from Landscape Scale Conservation / Brent Mitchell, chair	National Parks and the Scaling Title TBA / Emily Bateson & Sha	Up Imperative / Raymond Sauvaj awn Johnson	ot			
This session will focus on the diff	l ficult realities of landscape-scale c	onservation. Participants will shar	re lessons learned and yet-to-be le	arned about networked governal	осе.	
10735 • Science and the BIG Picture for National Park Resources / Melanie Peters, chair	Clean Air and Clear Views Are we there yet? / John Vimont	This place rocks! Digging into the geologic foundation of national parks / Rebecca Port	Climate Change and Our National Parks / Patrick Gonzalez	Advances in Managing for Natural Soundscapes and Lightscapes / Frank Turina	Getting a Grip on Invasive Plants / Terri Hogan	Q&A
Ever wonder how the natural res	cource conditions in your area fit ir	nto the bigger picture? Come learn	what NPS knows about resources of	across the US.		
10833 • The Important Intersection of Natural and Cultural Resources in Con- servation and Preservation / Elaine Leslie, chair	Title TBA / William Kelso	Title TBA / Jim Horn	Title TBA / Jonathan Connolly	Title TBA / Dave Frederick	Title TBA / Jon Meade	Q&A
A look at the intersection of natu	ı ıral resources in the restoration an	l nd preservation of our cultural histo	I pry and landscapes.	I	1	
10548 • Developing the Process: Initiation, Admin- istration and Delivery of the Inaugural Social Science Park Break Experience / Rose Verbos et al., chairs	Understanding and Informing Decision Making in the NPS: Social Science Initiatives, Planning, and Park Break / Rachel Collins et al.	Great Sand Dunes National Park and Preserve Research Themes and post-Park Break Perspectives / Katlin Bur- roughs et al.	International Transference from Park Break: Integrat- ing Social Science in Parks, Protected Areas, and Cultural Sites / Katlin Burroughs et al.	Q&A		
	Shaping the Next Generation of Baseline Inventories of NPS Natural Resources <i>The timing and audience at GWS</i> 10791 - Reaching Out on Scaling Up: Lessons from Landscape Scale Conservation / Brent Mitchell, chair <i>This session will focus on the diff</i> 10735 - Science and the BIG Picture for National Park Resources / Melanie Peters, chair <i>Ever wonder how the natural res</i> 10833 - The Important Intersection of Natural and Cultural Resources in Con- servation and Preservation / Elaine Leslie, chair <i>A look at the intersection of natu</i> 10548 - Developing the Process: Initiation, Admin- istration and Delivery of the Inaugural Social Science Park Break Experience / Rose	10850 • Inventories 2.0: Shaping the Next Generation of Baseline Inventories of NPS Natural ResourcesWorkshop leader: Joe DeVivo, Deputy Chief for Sc of Devivo, Deputy Chief for Sc Overview: Opportunity to engage Develops the Scale Conservation of Scaling Up: Lessons from Laine Leslie, ChairOverview: Opportunities and Clear Cultural Resources in Con- servation and Preservation / Elaine Leslie, chairClean Air and Clear Views Are we there yet? / John Vimont10548 - Developing the Process: Initiation, Admin- istration and Delivery of the Inaugural Social Science Park Break Experience / RoseUnderstanding and Informing Decision Making in the NPS: Social Science Initiatives, Planning, and Park Break / Rachel Collins et al.	10850 - Inventories 2.0: Shaping the Next Generation of Baseline Inventories of NPS Natural ResourcesWorkshop leader: Joe DeVivo, Deputy Chief for Science, Inventory & Monitoring Die DeVivo, Deputy Chief for Science, Inventory & Monitoring Die definition of Baseline Inventories of NPS Natural ResourcesThe timing and audience at GWS provide an opportunity to engage a broad array of park stakeholde10791 - Reaching Out on Scaling Up: Lessons from Landscape Scale Conservation / Brent Mitchell, chairOverview: Opportunities and Challenges for Scaling Up from a N National Parks and the Scaling Up Imperative / Raymond Sauvaj Title TBA / Emily Bateson & Shawn Johnson Chesapeake: A Network of Conservationists Across 64,000 Squar Title TBA / Christina Marts10735 - Science and the BIG Picture for National Park, ChairClean Air and Clear Views Are we there yet? / John VimontThis place rocks! Digging into This place rocks! Digging into Nisplace rocks! Digging into Nimont10833 - The Important Intersection of Natural and Cultural Resources in Con- servation and Preservation / Elaine Leslie, chairTitle TBA / William KelsoTitle TBA / Jim Horn10548 - Developing the Process: Initiation, Admin- istration and Delivery of the Inaugural Social Science Park Break Experience / RoseUnderstanding and Informing Derk Sreak Sna Plancing, and Park Break / Park Break Experience / RoseGreat Sand Dunes National Park Are Reserve Research Themes and post-Park Break Planning, and Park Break / Rachel Collins et al.Great Sand Dunes National Park and Preserve Research Themes and post-Park Break Plancing, and Park Break / Park Break Experience / Rose	10850 - Inventories 2.0: Shaping the Next Generation of Baseline Inventories of NPS Natural Resources Workshop leader: Joe DeVivo, Deputy Chief for Science, Inventory & Monitoring Division, National Park Service <i>The timing and audience at GWS provide an opportunity to engage a broad array of park stakeholders on future needs for NPS Natural</i> 10791 - Reaching Out on Scaling Up: Lessons from Landscape Scale Conservation / Brent Mitchell, chair Overview: Opportunities and Challenges for Scaling Up from a Networked Governance Perspectiv National Parks and the Scaling Up Imperative / Raymond Sauvajot Trite TBA / Emily Bateson & Shawn Johnson Chespapake: Network of Conservationists Across 64,000 Square Miles / Jonathan Doherty & Suz Trite TBA / Christina Marts <i>This session will focus on the diffcult realities of landscape-scale conservation.</i> Pricture for National Park Resources / Melanie Peters, Chair Clean Air and Clear Views This place rocks! Digging into Vimont Climate Change and Our National Parks / Patrick Gonzalez <i>Ever wonder how the natural resource conditions in your area fit into the bigger picture? Come learn what NPS knows about resources</i> 10833 - The Important Intersection of Natural and Cultural Resources in Con- servation and Preservation / Baine Leslie, chair Title TBA / William Kelso Title TBA / Jim Horn Title TBA / Jonathan Connolly Intersection of Natural and Cultural Resources in Intersection of natural resources in the restoration and preservation of our cultural history and landscapes. 10548 - Developing the Process: Initiation, Admin- Istation and Delivery of the Park Break Experience / Rose, Panhong, and Park Break, / Rachel Collins et al. Great Sand Dunes National Park and Preserve Reseach Themes and post-Park Break Pe	Image: Constraint of the second se	Longton Image: Control of the product of the produ

		1:30–1:50	1:50–2:10	2:10-2:30	2:30-2:50	2:50-3:10	3:10-3:30
Concurrent #73 Hampton 4 (3rd floor) Session Format: Contributed Papers	Working Where the People Are: Understanding and Man- aging Urban and Regional Parks / Lynn Wilson, chair	10754 • A Delicate Balance: Public Access and Healthy Ecological Function / John Roberts	10584 • Opening a near-wil- derness regional park close to Victoria, British Columbia, Canada / Lynn Wilson	10804 • Equitable engage- ment?: Constraints and place attachment of diverse groups in Portland parks / Jaclyn Rushing & Mark Needham	10718 • Assessing Park-Based Urban Sustainability within East Africa Community / Bernard Kitheka	10732 • #NatureForAll: Parks at the heart of a global movement to inspire a love of nature / Pascale van der Leest et al.	10818 • Urban Opportunity A Multi-method Evaluation of the National Park Service Urban Agenda's Multi- dimensional Resilience / Elizabeth Perry
	Over 75% of the world now lives	s in cities, yet urban and regional p	arks often take a backseat to the	so-called "crown jewel" iconic natu	ral-area parks. This session puts t	he focus where the people are.	
Concurrent #74 Hampton 5 (3rd floor) Session Format: Invited Speakers	10760 • Integrating Coastal Climate Adaptation in National Parks II / Amanda Babson & Courtney Schupp, chairs	Scenario Planning to Adap- tive Management: A Case Study from Saint Croix Island International Historic Site / Dan Odess	Perspectives of place: Stakeholder sentiments about adaptation strategies for historic buildings at Cape Lookout National Seashore / Erin Seekamp	Piloting an Integrated Vulnerability Assessment at Colonial National Historical Park Across Key Resources and Infrastructure / Dorothy Geyer	Bringing Historical Perspec- tives on Climate into Current Adaptation Practices / Alanna Casey	Developing adaptation planning through detailed, asset-level vulnerability assessment in coastal parks / Rob Young	Q&A
Ð	We provide updates on the lates	I trojects and case studies of coast	I tal climate adaptation for nationa	I parks integrating across natural r	I resources, cultural resources and fo	I acilities. (Part I is Concurrent #1)	
Hampton 6 7 8 (3rd floor) Session Format:							
	10647 • Healthy Parks Healthy People: State of	as Health Resources: Examples	from Montana's Park and Trail Rx	h values and benefits of public la Program • Jennifer Thomsen F	Participatory mapping: a tool to e		tify the health benefits of
Concurrent #76 Norfolk 5 6 (1st floor) Gession Format: Gasttrack presentations fol- owed by workshop	the Evidence and Paths to Improve the Science / B. Derrick Taff, chair	ties • Aaron Hipp Urban Park Forces Personnel, Veterans, and valuation of the health benefits Parks Healthy People Criteria To	cs, Healthy People, and the Pursu I Their Families • Matt Brownlee s of parks • Lynne Koontz Econ sol: Implementation in Gettysbur	it of Environmental Justice • Vinie Research Regarding the Restora omic value and benefits of physic g and Catoctin Mountain Nationa	cce Jennings Understanding N ative Power for Armed Forces Pers cal activity/health benefit valuati I Parks • Derrick Taff	ature's Resiliency-Building and R connel, Veterans, and Their Famili	estorative Power for Armed es • Kelly Bricker Econom
lorfolk 5 6 (1st floor) iession Format: iasttrack presentations fol- owed by workshop	Improve the Science / B. Derrick Taff, chair After learning about the state of	ties • Aaron Hipp Urban Park Forces Personnel, Veterans, and valuation of the health benefits Parks Healthy People Criteria To fevidence, panelists and participan	cs, Healthy People, and the Pursu I Their Families • Matt Brownlee s of parks • Lynne Koontz Econ sol: Implementation in Gettysbur nts will identify deficiencies and defic	it of Environmental Justice • Vinie Research Regarding the Restora omic value and benefits of physic g and Catoctin Mountain Nationa evelop strategies for advancing pa	cce Jennings Understanding N ative Power for Armed Forces Pers cal activity/health benefit valuati I Parks • Derrick Taff rk-based health science.	ature's Resiliency-Building and R sonnel, Veterans, and Their Famili on in our parks: A case study • Le:	estorative Power for Armed es • Kelly Bricker Econom Slie Richardson Healthy
Norfolk 5 6 (1st floor) Session Format: Sasttrack presentations fol- owed by workshop Sector	Improve the Science / B. Derrick Taff, chair	ties • Aaron Hipp Urban Park Forces Personnel, Veterans, and valuation of the health benefits Parks Healthy People Criteria To f evidence, panelists and participan lees together to of the session, the	cs, Healthy People, and the Pursu I Their Families • Matt Brownlee s of parks • Lynne Koontz Econ nol: Implementation in Gettysbur nts will identify deficiencies and du Compass Sessions as and, "Where do we wa	it of Environmental Justice • Vinie Research Regarding the Restora omic value and benefits of physic g and Catoctin Mountain Nationa <i>evelop strategies for advancing pa</i> k two questions: "Where are we? nt to go?" These sessions ask the where we should go from here,	ree Jennings Understanding N ative Power for Armed Forces Pers cal activity/health benefit valuati I Parks • Derrick Taff <i>rk-based health science.</i> Updat in on th program	ature's Resiliency-Building and R connel, Veterans, and Their Famili	estorative Power for Armed es • Kelly Bricker Econom slie Richardson Healthy ther to fill them rd to an project,

		4:00-4:15	4:15-4:30	4:30-4:45	4:45–5:00	5:00-5:15	5:15–5:30
Focus Session I Hampton 1 2 3 (3rd floor) Session Format: Invited Speakers	10830 • A Framework for Visitor Use Management on Federal Lands and Waters / Kerri Cahill	Introducing the Visitor Use Management Framework from the Interagency Visitor Use Management Council / Kerri Cahill	Applying the VUM Frame- work at Zion National Park / Susan McPartland	Applying the VUM Framework to re-envision visitor use at Glacier Bay National Park & Preserve / Rachel Collins	Application of VUM on the Pike National Forest / Carin Vadala	Applying the VUM Frame- work to address camping on the Bridger-Teton National Forest / Linda Merigliano	Q&A
(\mathbf{E})	This session introduces the newl	y released IVUMC Visitor Use Mand	agement Framework, and will disc	uss framework application by the c	agencies involved in the council.		
Focus Session II Hampton 4 (3rd floor) Session Format: Panel Discussion	10878 • Engaging Youth in 21st Century Resource Stewardship • Shaun Eyring & Stephanie Toothman, chairs	Bob Page & Celina Illuzzi, Olms David Goldstein, Urban Fellow,	rrces Youth Program Coordinator, ted Center for Landscape Preserv Detroit, National Park Service I Schnee, Kat Slocum, Lorin Brac	ation, National Park Service			
(\mathbf{G})	The audience will benefit from a	l critical examination of signature l	NPS resource stewardship youth p	rograms, their challenges and oppo	ortunities, and how to measure s	uccess.	
Focus Session III Hampton 5 (3rd floor) Session Format: Panel presentation followed by open discussion	10908 • The Rabbit in the Mouth of the Coyote: Indigenous Employees in the Service of Government • Peter Larivière, chair	PANELISTS: Peter Larivière, Parks Canada / Melia Lane-Kamahele, Nationa	Anishinaabe I Park Service / Native Hawaiian				
Ŕ	Indigenous audience members v	ı vill have the chance to explore the	delicate topic of divided loyalties;	non-Indigenous participants hope	fully will come away sensitized t	o the issue.	
Focus Session IV Hampton 6 7 8 (3rd floor) Session Format: Panel Discussion	11007 • Positioning for Success in a World of Continu- ous Change / Raymond M. Sauvajot, chair	PANELISTS TBA					
	This session will invite discussion	n and address key concerns about t	the future of park resource steward	dship in a world of continuous and	accelerating change.		
work orga	aboration Sessions bring attend s on a specific project. At the end c nizers will give attendees the opp plete the project.	of the session, the	and, "Where do we wa	k two questions: "Where are we?" nt to go?" These sessions ask the where we should go from here, le directions.	in on progr	te Sessions bring attendees toge the latest developments with rega am, or issue. Attendees emerge fr Ip-to-date on the topic.	rd to an project,
ques the s	llenge Sessions ask members of tion their assumptions. Attendee ession with their critical thinking 19ed.	s emerge from	💦) that increase the capac	nds-on training opportunities city of attendees to solve a specific ave with new skills applicable to	: with i sessio	rack Sessions are fast-paced, exe ndividual 5-minute presentations n's topic. The outcome is that audi away energized and intrigued to l	on aspects of the ence members

Wednesda	y, April 5 • (5:00–10:00p	Evening	Sessions &	Activitie	25	
More details to come.							
Concurrent #77 Hampton 1 2 3 (3rd floor) Session Format: Business Meeting	10928 • GWS Student Chapters Meeting / Gina Depper, Chair	8:00–9:30p					
	Meeting to discuss organization	and governance of George Wright Socie	ety student chapters. OPEN 1	O ALL.			
Concurrent #78 Hampton 4 (3rd floor) Session Format: Business Meeting	10816 • Natural Sounds Advisory Group Organiza- tional Meeting / Jim Barborak et al., chairs	8:00–9:30p					
	The IUCN Natural Sounds Adviso	ry Group business meeting will build on	n momentum gained at the 2	016 World Conservation Congress,	co-create objectives, and	identify new leadership.	
Concurrent #79 Hampton 5 (3rd floor) Session Format:	OPEN						
Concurrent #80 Hampton 6 7 8 (3rd floor) Session Format: Workshop	10755 • Decision support for cultural resources climate adaptation planning: Advancing an optimization model piloted at Cape Lookout National Seashore	Workshop leader: Erin Seekamp, Associate Professor, N Sandra Fatoric, Research Associate, N					
	Prioritizing historically designat	ed structures for adaptation treatments	s necessitates continued delib	eration of how to best integrate a		· ·	
work o organi compl	boration Sessions bring attende on a specific project. At the end of izers will give attendees the oppo ete the project.	f the session, the rtunity to help	and, "Where do we war audience to reflect on v with a range of possible		G	Update Sessions bring attendees toge in on the latest developments with rega program, or issue. Attendees emerge fr fully up-to-date on the topic.	ard to an project, rom the session
(🔊 questi	enge Sessions ask members of t on their assumptions. Attendees ssion with their critical thinking f ed.	emerge from (💦) that increase the capaci	ds-on training opportunities ty of attendees to solve a specific ve with new skills applicable to		Fasttrack Sessions are fast-paced, exe with individual 5-minute presentations session's topic. The outcome is that aud come away energized and intrigued to	on aspects of the ience members

		8:00-8:20	8:20-8:40	8:40-9:00	9:00–9:20	9:20-9:40	9:40–10:00
oncurrent #81 orfolk 3 4 (1st floor) ession Format: ontributed Papers	Understanding through Planning	10863 • Experiences from the field: Linking community and conservation through ecotourism in Nepalese National Park / Smritee Panta & Brijesh Thapa	10777 • Mapping the spatial dynamics of values among visitors to Denali National Park and Preserve / Clinton Lum and Carena van Riper	10794 • Monitoring and Evaluating Indicators of Rec- reation Quality on the White Mountain National Forest / William Valliere et al.	10825 • Grand Canyon Na- tional Park and Neighboring Development: Stakeholder conflict and potential resolu- tions / Challie Facemire	10591 • Unplanned trail creation in Gatineau Park, Canada: engaging users in finding a sustainable solution / Catherine Verreault et al.	10447 • In Pursuit of Hap- piness: Three Centuries of American Park Design by Washington, Olmsted and Disney / Lucy Lawliss
S	Planning is where all the variety	of park-related management disc	iplines come together. This session	n offers case studies on how the pla	nnning process feeds back to bette	r understanding of parks.	
ioncurrent #82 Marriott 1 2 3 (4th floor) ession Format: nvited Speakers	10763 • Shifting Seasons in Protected Areas: Science and Engagement in the New Century / Alyssa Rosemartin, chair	AT Seasons: Partnering to Understand Phenology Across 11 Degrees of Latitude / Georgia Murray	Science in the Parks: Phenol- ogy for Climate Change Engagement at the Grand Canyon National Park / AJ Lapre	Citizen Science for Climate Adaptation: Integrated Phenology Research at Acadia National Park / Abraham Miller-Rushing	Spring Onset Advancing at the National Park Service / Katharine Gerst	Q&A	
	We will build on our shared inte	rests and experiences to strengther	hthe role of phenology in science,	engagement, and conservation in	the new century.	<u> </u>	
oncurrent #83	OPEN						
larriott 4 (4th floor)	OPEN						
ioncurrent #83 Marriott 4 (4th floor) ession Format: ioncurrent #84 Marriott 5 6 7 (4th floor) ession Format: asttrack Sessions	Concurrent #84a • 8:00–8:30a Collaboration between NASA an Reconstructing Algal Productivi	10731 • Utilizing NASA Earth O Id park managers to foster use of Ea ity and Clarity of Alpine Lakes in Ro n Big Bend National Park, Valles Cal OPEN	<i>arth observations while providing</i> ocky Mountain National Park / Sa	unique capacity building opportun rah Carroll Assessing Snow Cov	nities for the future natural resour er Distribution and Persistence Ch	<i>ce management workforce.</i> Janges in the Sky Islands of Sagua	

		8:00-8:20	8:20-8:40	8:40-9:00	9:00-9:20	9:20-9:40	9:40—10:00
Concurrent #86 Hampton 4 (3rd floor) Session Format: Contributed Papers	Communication and Educa- tion / Robert Dvorak, chair	10692 • Using ecosystem services to develop narratives relating ecosystem responses to public values / Michael Bell et al.	10437 • Making SPACE / PT Lathrop	10653 • The Impact of Infor- mal Interpretation / Doug Knapp & Brian Forist	10551 • The Use of New Digital Technology to Convey Science Concepts through Animation / Ann Gallagher & Megan Nortrup	10574 • Current and Future Stewards: Strategies for Com- municating Wilderness Values / Robert Dvorak et al.	Q&A
Ð	In the park context, communicat	l tion and education is not just abou	I	bout exchanging values.	<u> </u>	<u> </u>	<u> </u>
Concurrent #87 Hampton 5 (3rd floor) Session Format: Invited Speakers	10685 • Either Leave No Traceor no trace of this park will be left / Forrest Schwartz & Ben Lawhon, chairs	ls dispersed pristine- site camping effective? Evaluating a Wilderness Therapy program in Grand Staircase-Escalante National Monument / Jeff Marion	Special events on public lands: Understanding participants' attitudes so we can mitigate impacts / Derrick Taff	Diffusion of the Leave No Trace Visitor Education Program in Two U.S. National Parks / Wade M. Vagias	Strategies for understanding off-trail travel in an open- space environment: Pairing observation and self-report data / Ben Lawhon	Will they 'leave what they find'? Efficacy of a Leave No Trace program for youth / Forrest Schwartz	Q&A
\bigcirc) This session will examine state-	of-knowledge of Leave No Trace re	search, sharing lessons learned ar	nd practical implications for managed	gement and directions for future re	esearch.	
Concurrent #88 Hampton 6 7 8 (3rd floor) Session Format: Panel Discussion	10658 • Visitor use manage- ment: Innovative approaches that inform management so- lutions / Matthew Brownlee & Ryan Sharp, chairs	Exploring new methods and te Re-Evaluating Carrying Capacit Monitoring multiple visitor use	chnologies in trail use and impac y and Visitor Use Management a indicators in diverse recreation s	ntial elements of long-distance h at monitoring for protected areas t Waterfall-Based Parks in Tennes settings in the White Mountains N at Katmai National Park and Prese	/ Yu-Fai Leung et al. see / Margaret McGuinness et al. lational Forest / Nathan Reigner e	et al.	
\bigcirc	Audience members will leave th	is organized session with understa	nding the innovative approaches	being used to confront complex m	anagement challenges and inform	contemporary management solut	tions.
Concurrent #89 Norfolk 5 6 (1st floor) Session Format: Fasttrack Sessions	In this session, we will examine to Climate Change Training Needs Self-Paced Climate Change Train Concurrent #89b • 9:00–9:30a To provide context for how and Establishing a decision space: i	10612 • Evaluating a Blended three different models of climate ch Assessment and Strategy / Larry F ning / Ryan Stubblebine 10802 • Social Science and Pla why the National Park Service inco dentifying planning issues, projec ntifying what is needed and in wh	ange workforce training, with an Perez The Earth to Sky Partner nning: Applications in the Natio rporates social science research in tt scope, and research questions	exploration of relative benefits and ship / Anita Davis Interpreting nal Park Service / Susan McPartlan to Visitor Use Management planni / Susan McPartland Civic enga	Climate Change Virtual Course / N nd, chair <i>ng.</i> gement: beyond involvement an	d into social science information /	' Rose Verbos
wor orga	aboration Sessions bring attend k on a specific project. At the end c anizers will give attendees the opp plete the project.	lees together to of the session, the	Compass Sessions as and, "Where do we wa	sk two questions: "Where are we? Int to go?" These sessions ask the where we should go from here,	" Updat in on t progra	The Sessions bring attendees toge he latest developments with rega m, or issue. Attendees emerge fro p-to-date on the topic.	rd to an project,
(that the the the the the the the the the th	llenge Sessions ask members of stion their assumptions. Attendee session with their critical thinking aged.	es emerge from	Skills Sessions are had that increase the capa	inds-on training opportunities city of attendees to solve a specifi ave with new skills applicable to	c Fastur session	ack Sessions are fast-paced, exc dividual 5-minute presentations n's topic. The outcome is that audi way energized and intrigued to lo	on aspects of the ence members

lardial 34 (1st floor) the Thinking Phase to an implementation Plain for a landscape Approach to fair and Marine Mammals and BR / Arthur Middleton Partnerschipe 1: Bloon Restoration Booebind's to 64 Jurdies Hote age Through California Conder Astronation Plain for a landscape Approach to Conservation / Jaine F. Leile, du'i How date MPS, other agencies, and private land managers, partners, and neighbors contribute to a National Conservation Strategy- we connect resources at scale. How date MPS, other agencies, and private land managers, partners, and neighbors contribute to a National Conservation Strategy- we connect resources at scale. noncurrent PJ Toroit BW / Burdies Conservation Conder Strategy- we connect resources at scale. Toroit BW / Burdies Conder BW / Burdies Co			10:30–10:50	10:50–11:10	11:10–11:30	11:30–11:50	11:50–12:10	12:10-12:30
Incurrent #91 Inde3 - Is wilderness being forgot examples of Law, University of California, Berkeley arritott 1[2]3 (4th floor) Erieg or Schurman, Adaptation Ecologist, MPS Climate Change Response Program forgot en awe plan for gimate change adaptation; between the profession format: Inde3 - Is wilderness being forgot en awe plan for gimate change adaptation; between the profession format: Index of NPS Wilderness Coord Law, University of California, Berkeley mark Entre, Wilderness descalation, Working Wilderness Research Institute Mark Fincher, Wilderness Stewardship responses to climate change. working arrive the potential top-down solutions to challenges that agency decision makers face when considering wilderness stewardship responses to climate change. working arrive the second of the profession of arrive the potential top-down solutions to challenges that agency decision makers face when considering wilderness stewardship responses to climate change. working arrive the second of the profession of arrive the potential top-down solutions to challenges that agency decision makers face when considering wilderness stewardship responses to climate change. working arrive the second of the profession of arrive the potential top-down solutions to challenges that agency decision makers face when considering wilderness stewardship responses to climate change. working arrive the potential top-down solutions to challenges that agency decision makers face when considering wilderness stewardship responses to climate change. working arrive the potential top-down solutions to challenge	floor) the Think Implement a Landsca conservati	king Phase to an entation Plan for cape Approach to	Ecosystem and the Critical Core Migration of Deer and	Partnerships I: Bison Restora- tion Across Many Nations /	nerships II: Bison Restoration Across Many Nations / Glenn	Shorebirds to Sea Turtles and Marine Mammals and Migration Corridors / Nicole	Heritage Through California Condor Restoration / Dave	Q&A
arriott 1]2]3 (4th floor) forgotten as we plan for climate change adaptation? / Beth Hahn & Peter Landes, chairs Etc Biber, Professor of Law, University of California, Berkeley David Cole, Emeritus Scientist, Aldo Leopold Wilderness Research Institute MARK fincher, Wilderness Specialist, Yosen Research Institute MARK fincher, Holmen Research Institute MARK fincher, Holmen Research Institute MARK fincher, Wilderness Adversearch Research Institute MARK fincher, Holmen Research Institute Research Institute Mark fincher, Holmen Research Institute 	How do th	the NPS, other agencies,	and private land managers, partr	ners, and neighbors contribute to a	n National Conservation Strategy -	we connect resources at scale.		
we want to explore three patentials to provide solution is obtained by the density decision makes are were torisateling whete hoss sewards in prepares to chindre change. oncurrent #92 farriot 4 (4th floor) ession Format: ontributed Papers Visitarion to national Parks / Park visitors are becoming more diverse and knowledgeable, and managing their experiences and impacts more complex. Cases in this session provide a demonstration. Oncurrent #93 farriot 5[6]7 (4th floor) ession Format: oncurrent #93 farriot 5[6]7 (4th floor) ession Format: astraction 51000000000000000000000000000000000000	Hth floor) forgotten climate cl / Beth Ha chairs	en as we plan for change adaptation?	Eric Biber, Professor of Law, Uni David Cole, Emeritus Scientist, A Mark Fincher, Wilderness Specia	versity of California, Berkeley Aldo Leopold Wilderness Research alist, Yosemite NP	n Institute	ief of Resources		
larrioit 4 (4th floor) Public Awareness of and Transportation Safety at the National Parks / Elizabeth Perry, et al. at Coupled Human-Natural Systems to Achieve Reduced Impacts to the Acoustic Resource / Ashley Pipkin et al. Tourism to National Parks : A Case Study in West Yellow- stone / Jennifer Thomsen <i>Park visitors are becoming more diverse and knowledgeable, and managing their experiences and impacts more complex. Cases in this session provide a demonstration.</i> oncurrent #93 Concurrent #93a - 10:30 – 11:00a 10676 - Go Tell it on the Nountain: Civil Rights History and the NPS in Washington, DC / Dean Herrin, chair This session will explore why the history of civil rights is important and provide examples of how to research that history. "Education	We want	t to explore three potenti	al top-down solutions to challeng	es that agency decision makers fa	ice when considering wilderness st	ewardship responses to climate ch	ange.	
oncurrent #93 Aarriott 5 6 7 (4th floor) ession Format: asttrack Sessions Image: Concurrent #93b • 11:30a - 12:00p 0PEN	loor) ers	Ĵ	Public Awareness of and Visitation to National Parks /	Transportation Safety at the National Park Service / Elissa	at Coupled Human-Natural Systems to Achieve Reduced Impacts to the Acoustic	Tourism to National Parks: A Case Study in West Yellow-	Q&A	
Marriott 5 6 7 (4th floor) This session will explore why the history of civil rights is important and provide examples of how to research that history. "Educationmeans emancipation": Freedpeople's Schools after the Civil War / Dean Herrin Breaking Jim Crow: Segregation and National Park Service Golf Courses in Washington, DC / Patti Kuhn Babin Riots and Recreation: The 1968 DC Riots and the NPS Summer in the Parks Programs / Noel Lopez Outing LGBTQ History: The Kameny House in Washington, DC / Kathryn Smith Concurrent #93b • 11:30a-12:00p OPEN	Park visit	itors are becoming more c	diverse and knowledgeable, and n	nanaging their experiences and in	I npacts more complex. Cases in this	session provide a demonstration.		
	Ith floor) This session "Education Riots and	<i>ion will explore why the h</i> ionmeans emancipatio d Recreation: The 1968 [history of civil rights is important a n": Freedpeople's Schools after th DC Riots and the NPS Summer in	and provide examples of how to res ne Civil War / Dean Herrin Brea	<i>earch that history.</i> king Jim Crow: Segregation and N	ational Park Service Golf Courses		bin
Concurrent #9410910 • Traditional Science:Sharing Circle facilitators:Hampton 1 2 3 (3rd floor)What is its Place in Protected Area Management Today?Peter Larivière, Parks Canada Melia Lane-Kamahele, US National Park Service	(3rd floor) What is it Area Man	its Place in Protected		onal Park Service				

		10:30–10:50	10:50-11:10	11:10-11:30	11:30–11:50	11:50–12:10	12:10-12:30
Concurrent #95 Hampton 4 (3rd floor) Session Format: Contributed Papers	10596 • Innovative Strategies for Inventory and Monitoring of National Park Service Paleontological Resources / Vincent Santucci, chair	Integration of Paleobiological Data into All Taxa Biodiversity Inventories: A Temporal Perspective / Vincent L. Santucci	The Paleontology Synthesis Project: Data Management and the National Park Service's Fossil Record / Justin Tweet	Quantifying and Assessing Vulnerability of National Park Service Paleontological Resources / Anne Miller	Paleontological Resource Monitoring of Coastal Areas at Point Reyes National Seashore, California / Lillian Kennedy Pearson	Photogrammetric Applica- tions Supporting Paleonto- logical Resource Inventory, Monitoring and Research / John "Jack" Wood	Q&A
	Paleontological Resources Preser	vation Act (2009) specifically mar	ndates paleontological resource in	ventory and monitoring. This sessi	on shares new and effective strate	gies and methods for managemen	nt of fossils.
Concurrent #96 Hampton 5 (3rd floor) Session Format: Panel Discussion	10708 • Making nature- culture connections by broadening metropolitan conservation alliances / Ted Trzyna & David Goldstein, chairs	Mark Bouman, Chicago Design	Zoo Association rban Conservation Strategies Spe	cialist Group; Project Director, Na of Natural History / Chicago Wild iance / Desert Botanical Gardens			
	Bringing cultural heritage toget	her with natural heritage on equal	terms has many benefits. How ca	n metropolitan conservation parti	nerships move in this direction?		
Concurrent #97 Hampton 6 7 8 (3rd floor) Session Format: Contributed Papers	What We Think, What We See, What We Think We See: Values and Perceptions	10699 • Transmission of environment values: Who are the most influential sources and how effective are they? / Gina Depper	10810 • Water-Based Outdoor Recreation Users' Attitudes Towards Potential Offshore Wind Energy Development in the Great Lakes / Michael Ferguson	10834 • Integrating multiple values and environmental behavior reported by visitors to Denali National Park and Preserve / Carena van Riper et al.	10664 • Linking nature-based recreation and pro-environ- mental behavior: empirical support for the Conservation- Recreation Model / Lincoln Larson & Caren B. Cooper	10659 • Assessing public per- ception of the value of long- term ecological monitoring / Christopher Sergeant et al.	Q&A
	What we think we see, and how	we value that experience, strongly	<i>i</i> influences how we think about a	topic or a place. Social science is p	lumbing the explicit connections b	etween values and perceptions.	
Concurrent #98 Norfolk 5 6 (1st floor) Session Format: Contributed Papers	Technology's Role in Resource Understanding and Protec- tion	10694 • Dispersed Fishing Use Monitoring Using GPS: Proof of Concept / Karl Brookins	10728 • Put it on a map! With inventory data scenic views are more than pretty pictures / Melanie Peters et al.	10757 • The Application of Drones to Applied Science and Management in U.S. National Parks / Everette Newton & Julian Dale	10681 • Using digital point- intercept and sub-meter navigation to assess vegeta- tion recovery in Fire Island's wilderness / Chellby Kilheffer et al.	10779 • Connectivity from space: NASA programs in sup- port of parks and protected areas / Keith Gaddis et al.	10813 • CAPSTONE CAM- PAIGN: Exploring the Deep Reaches of Our Pacific Ocean Marine Protected Areas / Frank Cantelas & Kelley Elliott
	Case studies in this session upda	te us on innovative uses of GPS, G	I IS, drones, remote sensing, and ma	I Dre.	<u>.</u>	<u>.</u>	I
work organ	boration Sessions bring attend on a specific project. At the end o nizers will give attendees the oppo lete the project.	f the session, the	and, "Where do we wa	k two questions: "Where are we? nt to go?" These sessions ask the where we should go from here, e directions.	in on the program	e Sessions bring attendees toge ne latest developments with rega n, or issue. Attendees emerge fro -to-date on the topic.	rd to an project,
(SI) quest	lenge Sessions ask members of tion their assumptions. Attendees ession with their critical thinking t ged.	s emerge from	💦) that increase the capac	nds-on training opportunities ity of attendees to solve a specifi ave with new skills applicable to	c with in session	ack Sessions are fast-paced, exc dividual 5-minute presentations 's topic. The outcome is that audi way energized and intrigued to lo	on aspects of the ence members

		2:00-2:20	2:20-2:40	2:40-3:00	3:00-3:20	3:20-3:40	3:40-4:00			
Concurrent #99 Vorfolk 3 4 (1st floor) Session Format: Panel Discussion	10828 • The State of Alaska's National Parks in a Rap- idly Changing Arctic / Scott Gende, chair	National Parks in a Rap- idly Changing Arctic / Scott Gende, chair Research and monitoring to address rapidly changing Arctic park resources / James Lawler Climate change and subsistence harvest of wildlife in Alaska's Arctic parks and preserves / Dave Payer								
	This session will update attende	es on the issues faced by the NPS i	n the Arctic through a series of pre	sentations on park challenges, rese	earch and monitoring, and emergi	ng opportunities.				
Concurrent #100 Marriott 1 2 3 (4th floor) Gession Format: Norkshop	10688 • Cooperative Ecosystem Studies Units: Accomplishments and Future Directions / Brendan Moynahan, chair	If not for the CESU Program /	PWR Science Strategy / Chris Lau	·						
\bigcirc	NPS annually allocates ~ \$40 m	illion through CESUs for technical d	echnical assistance, research, and education projects. This session will help NPS clarify and improve services.							
Concurrent #101 Marriott 4 (4th floor) Gession Format: Contributed Papers	Looking to the Past to Chart the Way Forward in Cultural Resource Management and Documentation / Shaun Eyring, chair	10723 • Fifty Years of Preser- vation in the Parks / Kathryn Smith	10710 • National Colonial Farm in Piscataway Park: Green History, Farming, and the Quest for Relevance / Lisa Hayes	10866 • Letting the Landscape Speak: Values and Challenges of "Primitive Area" Design at Fort Bowie NHS / Robin Pinto	10764 • Traveling through our past: Documenting historic resources on National Trails and Parkways / Bethany Serafine et al.	10709 • Creating Connections through Predictive Modeling and Cultural Resources Research / Lindsey Cochran et al.	Q&A			
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{5}}}}$	The past, William Faulkner fame	iam Faulkner famously said, "is never dead. It's not even past." This session shows how the ever-present living past can inform how we manage cultural heritage.								
Concurrent #102 Marriott 5 6 7 (4th floor) Session Format: Norkshop	10642 • Next-Gen Park Interpretation: Giving Visitors More Than They Expect	Workshop leaders: Rebecca Conard, Co-editor, The John Sprinkle, National Park Se Tom Medema, National Park Se	ervice Bureau Historian (WASO)	r emeritus, Middle Tennessee Stat	e University					
(M)	Attendees will work on the scop	Attendees will work on the scope and content of a theme issue of The George Wright Forum on history and interpretation in national parks								
oncurrent #103 ampton 1 2 3 (3rd floor) ession Format: ontributed Papers	Sustainable Tourism & Recreation	10823 • Ecotourism impacts on conservation and local livelihoods: A case study of Ranthambore National Park, India / Devyani Singh et al.	10868 • Impacts of com- munity based ecotourism on Tharu indigenous community in Nepal / Smritee Panta & Brijesh Thapa	10916 • Building capacity for sustainable tourism in protected areas of the Brazil- ian Amazon / James Barborak & Ryan Finchum	10691 • Benefit of Ecotour- ism Development of two National Parks in West Africa on neighboring communi- ties / Arowosafe Folusade &	10620 • Recreation habitat vs. ecological habitat in riparian areas: Managing for both in Yosemite Valley / Doug Whittaker	Q&A			

		2:00-2:20	2:20-2:40	2:40-3:00	3:00-3:20	3:20-3:40	3:40-4:00				
Concurrent #104 Hampton 4 (3rd floor) Session Format: Invited Speakers	10770 • Conserving Climate Change Refugia as a Climate Adaptation Strategy / Toni Lyn Morelli, chair	Managing Climate Change Refugia for Biodiversity Con- servation / Toni Lyn Morelli	Climate change refugia for cold water fisheries / Jeff Mow	Remote sensing approaches to identify drought refugia / Jennifer Cartwright	Soda Springs Meadow as a Climate Change Refugium / Deanna Dulen	Title TBA / Alexander Nelson	Q&A with presenters + Johr Gross				
	We will showcase the latest scien	We will showcase the latest science on climate change refugia and how NPS managers are focusing on them to improve resource management and conservation.									
Concurrent #105 Hampton 5 (3rd floor) Session Format: Invited Speakers	10832 • Looking Back and Creating a Vision: Natural Resource Science, Steward- ship, and Leadership Beyond the NPS Centennial / Elaine Leslie, chair	Title TBA / Mike Soukup	Title TBA / Bert Frost	Title TBA / Ray Sauvajot	Title TBA / Mary Foley	Title TBA / Sherri Fields	Q&A				
	What does it mean to our focus for science and stewardship and DO-100 implementation?										
Concurrent #106 Hampton 6 7 8 (3rd floor) Session Format: Invited Speakers	10820 • The Contextual Land- scape Values of Werowoco- moco and Captain John Smith Chesapeake NHT through different vantage points / Cherilyn Widell et al.	Spiritual Values of the Land- scape: Engaging indigenous communities / Chief Stephen Adkins	The View from the Water: The Virginia Colony arriving in North America in 1607 / Robert Kelly	Identifying the Character Defining Features in the cultural landscape context of Werowocomoco / Suzanne Copping	Indigenous Cultural Landscape Predictive Model- ing: Using Data and GIS to identify Cultural and Natural Resources / James Rush	Q&A					
	Challenge participants to see the many layers of values found in extraordinary places like Werowocomoco and the Captain John Smith Chesapeake Historic Trail.										
Concurrent #107 Norfolk 5 6 (1st floor) Session Format: Day-Capper	10631 • Chanties for Change: Day-Capper format: Musical performance The Combustion of Science and Art / Tavio del Rio, chair										
(\mathbf{G})	Find innovative ways to spread l	I NPS messages and stay current in t	the global community. Creative pl	latform development keeps our pul	blic engaged.						
work orga	aboration Sessions bring attend c on a specific project. At the end c nizers will give attendees the opp plete the project.	of the session, the	() and, "Where do we wa	sk two questions: "Where are we? ant to go?" These sessions ask the where we should go from here, le directions.	in on t progra	te Sessions bring attendees toge he latest developments with rega m, or issue. Attendees emerge fr p-to-date on the topic.	ard to an project,				
ques the s	llenge Sessions ask members of tion their assumptions. Attendee session with their critical thinking aged.	s emerge from	💦) that increase the capa	ands-on training opportunities city of attendees to solve a specifi vave with new skills applicable to	c with in session	ack Sessions are fast-paced, exe Idividual 5-minute presentations Is topic. The outcome is that aud away energized and intrigued to l	on aspects of the ence members				

Focus Session V Hampton 1 2 3 (3rd floor) Session Format: Panel Discussion	10936+10858 • Huika`i `Õlelo o Hawai`i: Lessons from the 2016 IUCN World Conservation Congress / Melia Lane-Kamahele & Nora Mitchell, co-chairs	Hawai'i Holds Many Lessons for the World / Melia Lane-Kamahele, Manager, Pacific Islands Office, US National Park Service Brief Perspective on the WCC, the Ever-evolving Global Conservation Agenda, and Protected Area Governance / Brent Mitchell, Specialist Group on Privately Protected Areas and Nature Steward- ship, IUCN World Commission on Protected Areas Connecting Nature-Culture for More Effective Conservation / Tim Badman, IUCN World Heritage Programme ra Connecting Nature-Culture for More Effective Conservation / Bill Pencek US/ICOMOS								
	This session will connect participants to outcomes of the largest global conservation event ever convened in the United States, highlighting case studies that illustrate nature-culture connections.									
Focus Session VI Hampton 4 (3rd floor) Gession Format: Panel Discussion	10792 • New NPS Guidance: Planning for a Changing Cli- mate / Cat Hawkins Hoffman & Don Wojcik, chairs	lanning for a Changing Cli- hate / Cat Hawkins Hoffman How "Planning for a Changing Climate" Differs from Traditional Planning Approaches / Gregor Schuurman								
	Session attendees will learn about recently-developed NPS planning guidance that integrates climate change adaptation into interdisciplinary planning processes and considers multiple plausible climate futures.									
Focus Session VII Hampton 5 (3rd floor) Session Format:	PARKS CANADA AGENCY	TBA								
ocus Session VIII	10627 • National Parks as Part	Sara Melena, National Park Ser	vice							
Hampton 6 7 8 (3rd floor) Session Format: Panel Discussion	of a Broad National "Learning Ecosystem" / Julia Washburn, chair	Tim Watkins, National Park Ser Barbara Little, National Park Se	vice							
	Participants will be inspired to c] collaborate within and outside the	NPS to extend the contribution o	f NPS science and history to the learnin	ng ecosystem.					
B						data Cassiana huina attandasa ta				
wor orga	aboration Sessions bring attend k on a specific project. At the end c inizers will give attendees the opp plete the project.	of the session, the	and, "Where do we w	ask two questions: "Where are we?" ant to go?" These sessions ask the a where we should go from here, ble directions.	in o pro	date Sessions bring attendees to on the latest developments with re gram, or issue. Attendees emerge y up-to-date on the topic.	egard to an project,			

Thursday, April 6 • 7:00-9:30p | GWS Awards Dinner (ticketed event)

Details to come.

Friday, April 7 • 8:00a–4:30p | Field Trips (ticketed events) | Floor Plan

Richmond National Battlefield Park: Resource Protection, Management and Interpretation in a Quickly Growing Park (8:00a-4:30p)

Participants will visit two recently expanded and very different Civil War battlefield landscapes hosting a variety of resources and values. At both units, the trip will highlight the path the NPS has taken to preserve, document, and manage the sites, and the work it has left to do. Participants hear about the history of each site and will be taken on guided tours of each landscape. Both stops will highlight partnerships and various management tools that enabled much of our work there.

Great Dismal Swamp National Wildlife Refuge Details forthcoming.

Colonial National Historical Park Details forthcoming.

Fort Monroe National Monument Details forthcoming.

