

**Decade of Discovery
Opening Reception
Museum of Natural History and Science
1801 Mountain Road NW
Albuquerque, New Mexico
6:00 PM - 8:00 PM
Monday, May 24, 2010**

**Tuesday, May 25, 2010
Registration 8:00 AM
UPPER WEST FOYER
Albuquerque Convention Center**

**Welcome Plenary Session
Albuquerque Convention Center
Tuesday, May 25, 2010
9:00 AM**

BALLROOM C

10:40 Break	10:40 Break	10:40 Break
MANAGEMENT AND PLANNING Tuesday, May 25th SAN MIGUEL Moderator: Rick Hanks	ARCHAEOLOGY, HISTORY & TRIBAL CONNECTIONS Tuesday, May 25th PECOS Moderator: Matthew Zweifel	BIOLOGY, RESTORATION, & MONITORING Tuesday, May 25th RUIDOSO Moderator: Dustin Rooks
11:00 Brad Grenham What Part Art and What Part Science? The Legal Role of Science in National Landscape Conservation System Management	11:00 Cynthia Herhahn* and Ronald Towner Successful Collaboration in the El Malpais National Conservation Area, New Mexico	11:00 Jake F. Weltzin* Taking the Pulse of Our Planet: The USA National Phenology Network
11:20 Nada Culver* and Phil Hanceford Beyond Multiple Use: Conservation Highlights in Land Use Plans for the First BLM National Monuments	11:20 Brenda Wilkinson* and Andrew Duff Research Partnerships in Wilderness Study Areas: the Archaeology of Chaco Period Communities and the Challenges of Collaboration	11:20 CANCELLED
11:40 Dominick A. Dellasala* and Brian R. Barr CANCELLED Is Commercial Livestock Grazing Compatible with Protecting Objects of Biological Interest in the Cascade-Siskiyou National Monument, Southwest Oregon?	11:40 Brian Culpepper* The Long Gulch Mesa Archaeological Inventory Project: New Research on the Agua Fria National Monument	11:40 Christine M. Albano*, Ethan N. Aumack and Brett G. Dickson The Kane and Two Mile Ranches Program: Advancing the Conservation of Public Lands Through Research, Restoration, and Monitoring
12:00 Lunch	12:00 Lunch	12:00 Lunch
1:30 PM Michael Werner, David Kirk and Ken Mahoney Land Acquisition in the National Landscape Conservation System	1:30 PM David R. Abbott* and Christopher Watkins Persistent Connectivity across Central Arizona during the 14th Century: Evaluating the Verde Confederacy Model with Ceramics from Perry Mesa	1:30 PM Ronald Tiller*, Karen Simms, Daniel Quintana, and Gitajani Bodner Effectiveness Monitoring of Shrub Treatments and Grassland Restoration at the Las Cienegas National Conservation Area (LCNCA)
1:50 PM Kathy Sharum* and Larry Saslaw Endangered Species Management and Scientific Endeavors on the Carrizo Plain National Monument	1:50 PM Sharon J. Hall*, Jolene Trujillo, Dana Nakase and John Brigg Impacts of Prehistoric Land Use Intensity on Ecological Legacies in the Arid US Southwest	1:50 PM Wade Parsons* and Dustin Rooks The Native Plant Restoration Project - Grand Staircase-Escalante National Monument
2:10 PM Douglas Ouren*, Raymond Watts, Melissa Siders and Karen Tucker Off-Highway-Vehicle Use and its Impact on Wildlife in the Gunnison Gorge National Conservation Area and Surrounding Area	2:10 PM Michael Johnson* and Amy Sobiech Connecting Natural and Cultural Histories on the Las Cienegas National Conservation Area in Southern Arizona	2:10 PM Roger Rosentreter* Distribution, Ecology, and Monitoring of the Rare Bruneau River Phlox
2:30 PM LouAnn Jacobson* Protecting Cultural Landscapes and Managing Multiple Use on Canyons of the Ancients National Monument	2:30 PM Mark Boatwright and Jennifer Mohr Cultural Resource Management within the Red Rock Canyon National Conservation Area, Advancements and Updating the NCLS Grading for Cultural Resource Management within the NCA	2:30 PM Amber Hughes*, John Spence and Linda Whitham Escalante River Watershed Restoration
2:50 PM Break	2:50 PM Break	2:50 PM Break
3:10 PM Carolyn Z. Shelton and Melanie Boone-Reznick Past, Present and Future – Science on Grand Staircase Escalante National Monument	3:10 PM David S. Whitley* Paleodemography and Climate Change in the Carrizo Plain National Monument, California	3:10 PM Michael Scott*, Gregor Auble, Mark Dixon and Tammy Fancher Historical Cover Types and Riparian Management along the Missouri River in the Upper Missouri River Breaks National Monument

3:30 PM Nikki Grant-Hoffman*, Jim Dollerschell and Terry Bridgman Incorporating Historic Data into Current Research: Practical Steps toward Science Based Management	3:30 PM C. David Johnson*, Erik Whiteman, William Rich and Matthew Steel Cultural Resources of the Headwaters Forest Reserve: Archaeological Traces of the Life and Times of Humans in the Old Growth Redwood Forest	3:30 PM David Fuller, Sam Flanagan, Brad Job and Sam Morrison Monitoring the Road to Recovery in Headwaters Forest Reserve
4:00 PM Marni E. Koopman* and Dominick A. Dellasala CANCELLED Planning for Climate Change in the NLCS	4:00 PM Glade V. Hadden*, A. Dudley Gardner and Carol Patterson The Lawhead Gulch Shelter: Archaeological Investigations at an Archaic Period Occupation in the Gunnison Gorge National Conservation Area	4:00 PM Lawrence E. Stevens*, Kathleen Harcksen, Emily Omana and Kelly J. Burke Pakoon Springs: Partnering for Restoration on the Arizona Strip
4:20 PM Spencer Phillips* Climate Change and Ecosystem Services: Contribution of Public Lands in the United States	4:20 PM Matthew Zweifel* Obsidian on Grand Staircase-Escalante National Monument: Who Broke the Glass on the Staircase?	4:20 PM Karen Simms*, Gitanjali Bodner, Jeff Simms and Ron Tiller Tracking Riparian Change in Response to Management Actions at Las Cienegas National Conservation Area

**POSTER SESSION 4:30 - 6:30
BALLROOM B
See below for titles**

**Keynote Speakers:
Robert V. Abbey - Director of the BLM
Carl Rountree - Director of the NLCS
Jesse Juen - Deputy State Director, New Mexico
Spencer Lucas, New Mexico Museum of Natural History and Science
6:30 PM
BALLROOM C**

Wednesday, May 26, 2010

PALEONTOLOGY Wednesday, May 26th SAN MIGUEL Moderator: Alan Titus	ARCHAEOLOGY, HISTORY, NATIONAL SCENIC AND HISTORIC TRAILS Wednesday, May 26th PECOS Moderator: LouAnn Jacobson	BIOLOGY, RESTORATION, MONITORING & VISUAL RESOURCES Wednesday, May 26th RUIDOSO Moderator: Gitanjali Bodner
8:30 Harley J. Armstrong *, Britta Nelson and Jason D. Robertson Fossil Discoveries and Potential of Some Colorado BLM NLCS Areas	8:30 Brian P. Storm* Archaic Peoples of Grand Staircase-Escalante National Monument	8:30 Paul Hosten*, Jena DeJulio, Dominic Dipaolo, Olivia Duren, Gene Hickman, Chamise Kramer, Frank Lang, Patricia Muir and Eric Pfaff A Summary of Lvestock Impact Studies on Objects of Biological Interest within the Cascade-Siskiyou National Monument, Southwest Oregon
8:50 Patricia M. Hester* New Mexico's Oldest to Newest NLCS Paleo Units: Developing Effective Science Strategies	8:50 Matthew Zweifel*, Derinna Kopp and Ronald Rood The Tommy Turf Site 42Ka6032; A Basketmaker II Burial from Kane County, UT	8:50 Gitanjali Bodner*, Karen Simms, Dave Gori and Ron Tiller Keys to Successful Rangeland Adaptive Management for the Las Cienegas National Conservation Area's Grassland Watershed: Focus, Commitment and Transparency
9:10 Alan Titus*, Scott Sampson, Randall Irmis, James Kirkland, L. Barry Albright and David Gillette Unfettered Science in the Public Service: A Decade of Paleontology Resource Management in Grand Staircase-Escalante National Monument	9:10 Marsha Holland* and Marietta Eaton The Southern Utah Oral History Project: A Record of Living with the Land	9:10 Paul Hosten*, Jena DeJulio, Dominic Dipaolo, Olivia Duren, Gene Hickman, Chamise Kramer, Frank Lang, Patricia Muir and Eric Pfaff General Assumptions about the Non-conifer Landscape Result in Poor Restoration Objectives within Southwest Oregon Chaparral and Woodlands
9:30 John K. Zancanella*, Scott Foss and Theodor Fremd 140 Years of Paleontology Research at Sutton Mountain, Wheeler County, Oregon	9:30 Edwin Singleton* and Floyd Pecos An Innovative Federal and Tribal NLCS Partnership: Kasha-Katuwe Tent Rocks NM, New Mexico	9:30 John L. Schnase*, Marietta Eaton, Neal Most and Roger Gill Preliminary Evaluation of the Invasive Species Forecasting System in Grand Staircase-Escalante National Monument
9:50 Jerry P. Macdonald*, Spencer G. Lucas, Allan J Lerner and Justin A. Spielmann The History of Prehistoric Trackways National Monument: Evolution of the Discovery and Recognition of a World Famous Fossil Deposit	9:50 Victoria Atkins Beyond NAGPRA: Native Voice Interpretation at the Anasazi Heritage Center and Canyons of the Ancients National Monument	9:50 John F. Wiens*, Mark A. Dimmitt and Thomas R. Van Devender Flora of the Ironwood Forest National Monument
10:10 Break	10:10 Break	10:10 Break
10:40 Lucas, Spencer G., * Allan J Lerner, Jerry P. Macdonald and Justin A. Spielmann Scientific Significance of Early Permian Trace Fossils, Prehistoric Trackways National Monument, New Mexico	10:40 Tamara Whitley* The Native Voice and Sacred Sites on Public Lands: Painted Rock of the Carrizo Plain National Monument	10:40 Mark A. Dimmitt*, Thomas R. Van Devender and John F. Wiens Monitoring the Invasion of Buffleggrass (Pennisetum ciliare) in Ironwood Forest National Monument

	<p>National Scenic and Historic Trails: Finding and Preserving Historic Trails in the Developing West Moderators: Sarah Schlanger, Diana Hawks, Jude Carino</p>	
<p>11:00 Justin A. Spielmann*, Spencer G. Lucas, Jerry P. Macdonald and Allan J. Lerner The Jerry MacDonald Paleozoic Trackways Collection from Prehistoric Trackways National Monument, Robledo Mountains, Southern New Mexico</p>	<p>11:00 Nancy Brown * Protecting National Historic Trails: Landscape Documentation and Section 106</p>	<p>11:00 Diego Johnson*, Chris Lowrey and Kathleen Longshore Survival of Pronghorn Fawns on the Carrizo Plain National Monument: Relationships between Predation, Birth Synchrony, and Habitat</p>

11:20 Alan J. Lerner*, Spencer G. Lucas, Jerry P. Macdonald and Justin A. Spielmann A New Association of Early Permian Invertebrate Trace and Body Fossils from Prehistoric Trackways National Monument of South-Central New Mexico	11:20 Rebecca Schwendler* Documenting and Preserving Historic Trails in the National Landscape Conservation System	11:20 Michael Kochert* and Karen Steenhof Responses of Nesting Raptors to Habitat Alteration in the Morley Nelson Snake River Birds of Prey National Conservation Area
11:40 Brent H. Breithaupt*, Neffra A. Matthews, Patricia M. Hester and Spencer G. Lucas High-Tech Digital Photography of World-Class Fossil Footprints: Photogrammetric, Ichnological Documentation of the Prehistoric Trackways National Monument, New Mexico	11:40 Rob Sweeten* Visual Resource Inventory, Visual Resource Management, and the National Historic Trails	11:40 Janet M. Ruth* Ten Years of Research on Grassland Birds in Arizona, Including BLM's Las Cienegas National Conservation Area
12:00 Lunch	12:00 Lunch	12:00 Lunch Moderator: Karen Simms
1:30 PM Brent H. Breithaupt* and Neffra A. Matthews Fossil Tracks and Future Science: Paleontological Resources in the Vermilion Cliffs National Monument and Paria Canyon Vermilion Cliffs Wilderness	1:30 PM Coleen Sievers* and Karina Bryan Wyoming's National Historic Trails and Wind Energy Development	1:30 PM Robert J. Steidl*, Kelly Fleming and Karen Simms Effects of Grassland Restoration Efforts on Birds on Las Cienegas National Conservation Area, Arizona
1:50 PM Robert M. Sullivan* A Century of Dinosaur Collecting in the San Juan Basin, New Mexico: Historically and Paleontologically Important Discoveries from NLCS Lands of Ah-Shi-Sie-Pah WSA, Bisti/De-Na-Zin Wilderness, and the Fossil Forest Research Natural Area	1:50 PM Paul Ostapuk*, Mark Henderson and Diana Hawks Protecting the Old Spanish National Historic Trail	1:50 PM James Weigand*, Herrick Hanks, Diane Hichwa, Richard Kuehn and Ronald Lavalley Citizen Science for Managing Terrestrial Maritime Habitats on the California Coastal National Monument
2:10 PM Thomas Williamson* A Unique 10 Million Year Paleontological Record in the Bisti/De-Na-Zin Wilderness Area	2:10 PM Angie Krall* and Marilyn Martorano Tracking Down a Trail: Preliminary Inventory Results for a Portion of the East Fork of the North Branch of the Old Spanish Trail	2:10 PM Heidi Blasius*, Codey Carter, Robert Clarkson, Glen Knowles, Mary Richardson, Ross Timmons and David Ward Bonita Creek Native Fish Restoration
2:30 PM Alan Titus* and Scott Sampson The Rise of the Kaiparowits Basin as a Global Scientific Resource	2:30 PM Thomas Merlan*, John Roney and Michael Marshall The Camino Real in New Mexico: An Investigation	2:30 PM Allysia Angus* Presenting BLM's Guidelines for a Quality Built Environment
2:50 PM Break	2:50 PM Break	2:50 PM Break VISUAL RESOURCE MANAGEMENT Moderator: John McCarty
3:10 PM Bob Stevenson* and Neffra Matthews Seeing is Believing: Connecting People with Resources and Landscapes via Close-Range Photogrammetry	3:10 PM Jose Luis Punzo* and Rubén Durazo Identification and Challenges for the Conservation of Parts of the Camino Real de Tierra Adentro in the State of Durango, Mexico	3:10 PM John Mccarty* Visual Resource Management Policy and Stewardship
3:30 PM Neffra Matthews*, Tommy Noble, Alan Titus and Brent H. Breithaupt Tracking Technological Advancement: Close-Range Photogrammetry at the Twentymile Wash Dinosaur Tracksite, Then and Now	3:30 PM Judy Bittner* Iditarod Trail Centennial – An Opportunity for Collaboration	3:30 PM John Mccarty The Science behind the Scene
3:50 PM Sherrie C. Landon* and Leslie-lynn Sinkey Boots on the Ground—The Benefits of Paleontological Reconnaissance in Wilderness Areas	3:50 PM David Crowley* Constructed Roads and Traveled Trails: Rediscovering and Preserving the Oregon-California Trail through a Western Wyoming Gas Field	3:50 PM Bob Sullivan VRM Research for the Next Ten Years
4:10 PM McKinney Briske* and Lori Allen Prehistoric Trackways National Monument: From Scientific Journals into the Hearts of the Community	4:10 PM Discussion: National Scenic and Historic Trails	4:10 PM Bob Sullivan and Rob Sweeten VRM GIS and Computer Visualization Technology
4:30 PM Discussion: Paleontology		4:30 PM Discussion: VRM
5:00 PM Adjoin	5:00 PM Adjoin	5:00 PM Adjoin
Keynote Speaker: Dr. Scott Sampson Paleontologist and author of "Dinosaur Odyssey" 6:00 PM BALLROOM C		

Thursday May 27, 2010

<p align="center">GEOLOGY Thursday, May 27th</p> <p align="center">SAN MIGUEL Moderator: Marjorie Chan</p>	<p align="center">WILDERNESS & WILD AND SCENIC RIVERS Thursday, May 27th</p> <p align="center">PECOS Moderator: Joe Ashor</p>	<p align="center">RECREATION Thursday, May 27th</p> <p align="center">RUIDOSO Moderator: Pam Foti</p>
<p>8:30 P. J. Boston*</p> <p>Snowy River: Walking Hand in Hand with Beauty and Science</p>	<p>8:30 Chris Roholt*, Mark Conley, Jay Watson, Daphne Greene and James Weigand</p> <p>Restoration and Management of Wilderness and Wilderness Study Areas on BLM Managed Lands in California with the Student Conservation Association (SCA) WILDCORPS Youth Crews</p>	<p>8:30 Steven W. Burr*</p> <p>Front Country Visitor Study for Grand Staircase-Escalante National Monument</p>
<p>8:50 Lewis Land*, Victor Polyak and Talon Newton</p> <p>World's Longest Speleothem: New results From Radiometric Dating and Hydrologic Observations</p>	<p>8:50 Georgia L. Foster*</p> <p>CANCELLED</p> <p>Trespass Reclamation in Wilderness Study Areas</p>	<p>8:50 Tim Casey*, Justin Gollob and Chris Ham</p> <p>Generating Useable Recreation Customer Assessment Results</p>
<p>9:10 Diana E. Northup*, Amelia Clement and Kaitlyn J. Hughes</p> <p>Microbial Communities of Fort Stanton Cave, New Mexico: Clues to Geological Processes and Human Impact</p>	<p>9:10 Sherrie C. Landon*</p> <p>Wilderness and Research: A Peaceful Coexistence</p>	<p>9:10 Pam Foti*</p> <p>It's All About Asking Questions Part 1: Recreation Impact Inquiries in the Backcountry on BLM Managed Lands</p>
<p>9:30 Dick Grauch*, Michele Tuttle, John Elliott, Geneva Chong, Juli Fahy, Karen Tucker, Eric Livo, Jim Ferguson, Dennis Murphy, Allen Merewether and Amanda Clements</p> <p>Mancos Shale Landscapes: Science and Management of Black Shale Terrains - Gunnison Gorge National Conservation Area</p>	<p>9:30 Peter Landres*</p> <p>The Contribution of Wilderness Character to Understanding Wilderness in the NLCS</p>	<p>9:30 Pam Foti*</p> <p>It's All About Asking Questions Part 2: Recreation Impact Inquiries in Dispersed Recreation on BLM Managed Lands</p>
<p>9:50 David Loope*, Richard Kettler and Karrie Weber</p> <p>Concretions in Sandstones Provide Clues to Landscape Development During Uplift of the Colorado Plateau</p>	<p>9:50 Henry Mottl* and Brian Wachs</p> <p>Citizen – Student Monitoring of a Wild and Scenic River</p>	<p>9:50 Jennifer Hoger Russell* and Victoria Josupait</p> <p>Annual Visitor Satisfaction Survey Results and Implications for the NLCS</p>
<p>10:10 Break</p>	<p>10:10 Break</p>	<p>10:10 Break</p>
<p>10:30 Marjorie A. Chan*</p> <p>Red Rocks, Concretions, and Weathering Analogs from Earth to Mars</p>	<p>10:30 Elijah Waters*</p> <p>Outstandingly Remarkable Value Based Science on a National Wild River: The Gulkana River, Alaska</p>	<p>10:30 S. D. Jamison*</p> <p>A Physical and Social Study of Mountain Bike Use on Five Segments of the Continental Divide National Scenic Trail in Colorado</p>
<p>10:50</p> <p>TBD</p>	<p>10:50</p> <p>Panel: A New Framework for Evaluating Proposals for Science Activities inside Wilderness: Improving Communication to Allow Science and Preserve Wilderness Character</p>	<p>10:50 Haley Peckett* and Jenni West</p> <p>Alternative Transportation Systems Inventory for BLM: Potential to Enhance the Visitor Experience and Preserve Resources</p> <p>11:10 Michelle Haetele*</p> <p>National Monuments in a Regional Economic Context: Case Study of the Carrizo Plain National Monument</p> <p>11:30</p> <p>Discussion: Recreation and Social Science</p>
<p>12:00 Lunch</p>	<p>12:00 Lunch</p>	<p>12:00 Lunch</p>
<p align="center">1:30 - 5:00 PM BALLROOM C PANELS & DISCUSSION: What is the future for the NLCS and Science? Lynn Scarlett Former Deputy Secretary of the Interior Kit Muller BLM Strategic Planner Peter Landres Aldo Leopold Wilderness Research Institute Jeff Jarvis Division Chief National Landscape Conservation System</p>		
<p align="center">6:00 PM BALLROOM C KEYNOTE SPEAKER: Barbara Pahl National Trust for Historic Preservation</p>		
<p align="center">Friday, May 28 and Saturday, May 29, 2010 Field Trips</p>		

* presenter

**Decade of Discovery
Poster Session
Tuesday May 25
4:30 - 6:30PM
BALLROOM A**

GEOLOGY

1

Richard Grauch*, Michele Tuttle, John Elliott, Geneva Chong, Juli Fahy, Karen Tucker, Eric Livo, Jim Ferguson, Dennis Murphy, Allen Merewether and Amanda Clements

Mancos Shale Landscapes: Science and Management Of Black Shale Terrains - Gunnison Gorge National Conservation Area

2

Geneva Chong, Donald Carpenter, Richard Grauch*, Michele Tuttle and Jayne Belnap

Tools to Manage Soil Erosion: Lab Measures Of Chlorophyll *a* Indicate Biological Soil Crust Presence and the Field Slake Test Indicates Soil Aggregate Stability

3

Michael Spilde, Ara Kooser, Diana Northup, Penelope J. Boston, Paula Provencio and Victor Polyak

Mineralogical Studies in Snowy River Passage, Fort Stanton Cave, New Mexico

PALEONTOLOGY

4

Neffra Matthews*, Alan Titus and Brent H. Breithaupt

Tracking Dinosaurs through the Middle Jurassic Dunes: An Overview of the Twentymile Wash Dinosaur Tracksite, Grand Staircase-Escalante National Monument, UT

5

Patricia M. Hester*

Contributions by the General Public to the Management of NLCS Paleontological Resources

6

Leslie-lynn Sinkey* and Sherrie C. Landon

Minimum Tool: A Blackhawk Helicopter? Excavation and Retrieval of the "Bisti Beast"

BIOLOGY

7 John Paul Roccaforte*, Peter Z. Fulé and W. Wallace Covington

Monitoring Landscape-Scale Ponderosa Pine Restoration Treatment Implementation and Effectiveness

8 Darlene Southworth*, Kelly McDonald, Jason Pennell and Jonathan Frank

Belowground Secrets to Survival: Ectomycorrhizas of Mountain Mahogany

9 Anne Cox, Cheryl Peterson, Juliet Rynear* and Faye Winters

Augmentation to Increase Genetic Diversity of Four-Petal Pawpaw (*Asimina Tetramera*) and to Test the Viability of Tissue Culture Propagated Plantlets as Source Material for Future Introductions

10 Ann Debolt and Faye Winters*

Cladonia Perforata Transplants at The Bureau Of Land Management Jupiter Inlet Lighthouse Outstanding Natural Area

11 Scott R. Abella*, E. Cayenne Engel and Christina L. Lund

Early Revegetation Recovery on a Heavily Visited Mojave Burn: Red Rock Canyon NCA

12 Cayenne Engle* and Scott R. Abella

Post-Fire Seeding Effectiveness in Mojave Desert Communities Within Red Rock Canyon National Conservation Area, Southern NV

13 Alexis A. Suazo*, Donovan J. Craig and Scott R. Abella

Seed Removal by Granivorous Ants and Rodents in Burned and Unburned Mojave Desert Habitats: Implication for Revegetation

14 Wade Parsons* and Dustin Rooks

Native Plant Restoration Project – Kanab High School and Grand Staircase-Escalante National Monument

15 Dustin Rooks*

A Promising Approach to Fire Rehabilitation in a Southern Utah Pinyon-Juniper Woodland

16 Christine M. Albano* and Kate Watters

Engaging Citizen Stewards in Restoration Partnerships: A Case Study of the Paria River

17 David Fuller*, Sam Flanagan, Brad Job and Sam Morrison

Post-Treatment Erosion of Excavated Stream Crossings in Headwaters Forest Reserve, California

18 Christopher M. McGlone*, Carolyn H. Sieg and Thomas E. Kolb
Invasive Resistance and Persistence: Established Plants Win, Even with Disturbance and High Propagule Pressure

19 Gregor Aubel*, Michael Scott, Michael Merigliano and Chad Krause
Monitoring of Cottonwood Seedling Demography in the Missouri Breaks National Monument

20 Laura Prugh*, Justin Brashares and Kathy Sharum
Cattle vs Endangered Kangaroo Rats: Optimizing Multi-Use Management in the Carrizo Plain National Monument, California

21 Gitanjali Bodner* and Jeff Simms
The Power to See Change: designing more effective, more efficient monitoring for population trends in the endangered Gila topminnow

22 Karen Simms*, Linda Kennedy and Christine Hass
What Happens When the Cows Come Off? A Unique Opportunity for Collaboration and Research

HYDROLOGY

24 Tim Flood*
Water Science on the Agua Fria National Monument

25 James Holland* and Chris O'dell
Investigations into Water Quality Issues in Calf Creek, Garfield County, UT

ARCHAEOLOGY

27 Natalie Fast and Linda Farnsworth*
Canyons of the Ancients National Monument Cultural Landscapes

28 Sally Cole, Mona Charles, Marvin Rowe and Linda Farnsworth*
Lead, Murals, and Pottery: Tracing Technologies and Peoples of Lowry Pueblo Great House, Southwest Colorado

29 David R. Wilcox*
Changing Patterns of Resistance and Conflict in West-Central Arizona, AD 1100-1425

30 Doug McFadden and Rick Moore*
Recent Investigation on the Paria Plateau, Vermilion Cliffs National Monument

31 Dan Martin, Derrick Baldwin, Jeanne Moe and Neffra Matthews
Archaeological Informaiton Technology [Computing] in BLM's NLCS, throughout BLM and Beyond

EDUCATION

23 Karen Simms*, Gail Corkill and Netzin Steklis
Wild About The Grasslands! At The Historic Empire Ranch, Las Cienegas NCA

RECREATION

32 Bill Overbaugh*
Recreation Research in BLM Alaska's NLCS Units

NLCS

33 Jim Mahoney*, Heather Swanson, Marcia Radke and Paul A. Brown
The San Pedro Riparian National Conservation Area

FIRE

26 Linda Farnsworth* and Allen Farnsworth
Wildland Urban Interface – A Strategy for Reducing Fire Risk in the Canyons of the Ancients National Monument

VISUAL RESOURCES

34 Kate Schwarzler *, John McCarty and Tom Lahti
The Use of Color and Camouflage to Mitigate Visual Impacts

WILDERNESS

35 Jerry Magee and Dave Harmon*
Wilderness: An unexpected second chance

36 Jerry Magee, Nick Teague and Bob Wick, presenter Rick Hanks
Rocks, Islands, and Isolation: Challenges and Success