

America's Antiquities: 100 Years of Managing Fossils on Federal Lands
Seventh Federal Fossil Resource Conference
Albuquerque, New Mexico
Monday May 22-Wednesday May 24, 2006

All meeting activities are in the **meeting rooms at the MCM Elegante Hotel** unless otherwise indicated.

MONDAY May 22, 2006

7:00am-(all day)	Registration
7:00am-(all day)	Posters
8:00-10:00am	Plenary session
10:20am-12:00pm	America's Antiquities—Paleontological Resource Inventory Strategies Session
12:00-1:20pm	Lunch
1:20-3:00pm	America's Antiquities—Paleontological Resource Partnerships Session
3:20-4:40pm	America's Antiquities—Panel Discussion [concurrent session]
3:20-4:40pm	America's Antiquities—Paleontological Resource Science and Research Session
6:15pm	Buses depart MCM Elegante for New Mexico Museum of Natural History and Science (NMMNHS)
7:00-9:00pm	Museum exhibit and collection open house (food and drink provided) at NMMNHS
9:30pm	Buses depart NMMNHS to return to MCM Elegante

TUESDAY May 23, 2006

8:00am-(all day)	Posters
8:00-10:20am	America's Antiquities—Paleontological Resource Management Session
8:45-12:00pm	Current Research on Late Cretaceous vertebrates from the Western Interior
10:40am-12:20pm	America's Antiquities—Paleontological Resource Interpretation Session
12:20-1:40pm	Lunch
1:40-3:40pm	America's Antiquities—Paleontological Resource Protection Session
2:00-5:20pm	Current Research on Late Cretaceous vertebrates from the Western Interior
3:40-5:00pm	Poster presenters at posters
6:00-7:00pm	Pre-banquet cocktail party at MCM Elegante (cash bar)
7:00-9:30pm	Banquet (at MCM Elegante)

WEDNESDAY May 24, 2006

Fieldtrips will depart from the MCM Elegante Hotel front entrance at 7:00 AM.

MONDAY May 22, 2006

FEDERAL FOSSIL RESOURCE CONFERENCE

Conveners-Patricia M. Hester, Jason P. Kenworthy and Vincent L. Santucci

***denotes speaker**

Plenary Session

- 8:00am **Welcome** —*Conference planning committee*
- 8:10am **Keynote Speaker**
The Antiquities Act and paleontology —*R. W. Sellars*
- 8:40am **Fossils, objects of antiquity, and the Antiquities Act (1906)** —*V. L. Santucci*
- 9:00am **Preserving America's fossil heritage** —*J. Hatcher*
- 9:20am **What is our mandate to manage fossil resources on federal lands?** —*S. Foss*
- 9:40am **Paleontological permitting on Bureau of Land Management administered lands in Utah** —*S. Foss*
- 10:00am **BREAK**

America's Antiquities—Paleontological Resource Inventory Strategies Session

- 10:20am **“Peetrified” Resources: National Park Service fossils found in cultural resource contexts** —*J. P. Kenworthy* and V. L. Santucci*
- 10:40am **A preliminary inventory of fossil fish from National Park Service units** —*R. K. Hunt*, V. L. Santucci and J. P. Kenworthy*
- 11:00am **Paleontological resource inventory of California's Jurassic trackways** —*R. E. Reynolds*
- 11:20am **Paleontological resource inventory of Miocene (Barstovian) trackways at Owl Canyon Campground, Barstow, California** —*R. E. Reynolds*
- 11:40am **Implementing inventory-monitoring, research, and interpretive plans for El Bosque Paleontologico Piedra Chamana in the northern Andes of Peru** —*H. W. Meyer*, D. Woodcock, J. Young, W. McIntosh, N. Dunbar, L. Lutz-Ryan and K. Sikoryak*
- 12:00-1:20pm **LUNCH**

America's Antiquities—Paleontological Resource Partnerships Session

- 1:20pm **Volunteers and partnerships: Effective management of fossil resources on National Forest System lands** —*B. A. Schumacher* and V. Tidwell*
- 1:40pm **A Bureau of Land Management Paleontological Site Stewardship Program for Washington County, southwestern Utah: The beginning of a nationwide program?** —*A. R. C. Milner*, D. Ferris-Rowley and J. I. Kirkland*
- 2:00pm **Utah Geological Survey: A valuable partner in the management of federal fossil resources** —*J. I. Kirkland*, D. D. DeBlieux and M. Hayden*

- 2:20pm **Initial results of a five year cooperative interagency paleontological survey, Grand Staircase-Escalante National Monument, Utah and surrounding area: The proof is in the pooling (of resources)** —*A. L. Titus*, S. S. Sampson, J. I. Kirkland, D. D. DeBlieux, D. D. Gillette, L. B. Albright and M. A. Getty*
- 2:40pm **The Friends of the Florissant Fossil Beds: Partnership support of education and research in geology and paleontology** —*S. W. Veatch*
- 3:00pm **BREAK**

The Following Sessions are Held Concurrently

America's Antiquities—Panel Discussion

- 3:20-4:40pm **Managing federal paleontological collections** —*Panelists:*
Rachel Benton, Paleontologist, Badlands National Park, NPS
Brent Breithaupt, Director, University of Wyoming Geological Museum
Dale Hanson, Regional Paleontologist, Wyoming State Office, BLM
Lucia Kuizon, Paleontology Program Manager, USFS, USDA
Carolyn McCellen, Group Manager, Division of Cultural, Paleontological Resources and Tribal Consultation, BLM
Mary Thompson, Curator of Collections, Idaho Museum of Natural History
Ron Wilson, Museum Program Curator, Office of Property and Acquisition Management, Department of the Interior

America's Antiquities—Paleontological Resource Science and Research Session

- 3:20pm **Correlation of a rare plant species with fossil sites on the Grand River National Grassland** —*K. Hansen*
- 3:40pm **Fossiliferous nodules from New York Gateway beaches** —*J. A. Chamberlain, Jr.*, P. W. Stoffer, R. A. Scal and P. Messina*
- 4:00pm **A New Middle Miocene terrestrial fauna from the Temblor Formation of central California** —*J. D. Stewart*, E. Zaborsky and M. Hakel*
- 4:20pm **Rare earth element fingerprinting of vertebrate fossils from the Eocene-Oligocene White River Group, Toadstool Geologic Park, Crawford, Nebraska** —*D. O. Terry* and D. Grandstaff*

TUESDAY May 23, 2006

* denotes speaker

America's Antiquities—Paleontological Resource Management Session

- 8:00am **Management of significant paleontological localities: Intragency and interagency** —*T. J. Fremd*
- 8:20am **Use of Geographic Information Systems in managing fossils on federal lands: The U.S. Department of Agriculture Fossil Yield Potential Classification (FYPC) System** —*B. Beasley*
- 8:40am **The application of photogrammetry, remote sensing, and Geographic Information Systems to fossil resource management** —*N. A. Matthews*, T. A. Noble and B. H. Breithaupt*
- 9:00am **Preserving the past: Geologic mapping and paleontologic investigation, Las Vegas Formation, North Las Vegas** —*K. Springer*, J. C. Sagebiel, C. Manker and E. Scott*

9:20am	Mowry Shale ichnofossils: Management of a unique fossil tracksite in an off-highway vehicle recreation park — <i>D. A. Hanson* and M. Connely</i>
9:40am	Mitigation of fossil resources during oil and gas development — <i>S. Landon*</i>
10:00am	Good data vs. bad data: The importance of quality data management in paleontology — <i>R. Benton* and R. Hargrave</i>
10:20am	BREAK

America's Antiquities—Paleontological Resource Interpretation Session

10:40am	Cleveland-Lloyd Dinosaur Quarry: Restabilization and interpretation; Successes and pitfalls — <i>M. Leschin</i>
11:00am	The Red Gulch Dinosaur Tracksite: Public participation in the conservation and management of a world-class paleontological site — <i>B. H. Breithaupt*, E. H. Southwell, T. Adams and N. A. Matthews</i>
11:20am	Developing scientifically accurate paleontology exhibits for the National Park Service — <i>T. J. Fremd</i>
11:40am	Innovative strategies to develop interpretive media for paleontological sites at Curecanti National Recreation Area, Colorado — <i>A. L. Koch* and P. J. Zichterman</i>
12:00pm	Planning for the future: A program for preserving and interpreting paleontology and geology in Joshua Tree National Park — <i>E. Scott*, K. Springer, J. C. Sagebiel and C. R. Manker</i>
12:20-1:40pm	LUNCH

America's Antiquities—Paleontological Resource Protection Session

1:40pm	Investigating fossil theft from National Forest System lands — <i>S. Ruppert and B. Schultz*</i>
2:20pm	Appraisal of fossil resources and specimens — <i>L. Kuizon</i>
2:40pm	Theft and vandalism of <i>in situ</i> fossil vertebrate tracksites — <i>V. L. Santucci</i>
3:00pm	Paleontological resource damage from “poor science”: Examples from Petrified Forest National Park — <i>W. G. Parker* and K. A. Dorn</i>
3:20pm	Historical Resources Act designation of the Grande Cache Dinosaur Tracksite (Lower Cretaceous; Albian), Grande Cache, Alberta, Canada — <i>D. N. Spivak*, D. E. Wetzel and J. Caillaiu</i>

TUESDAY May 23, 2006

**CURRENT RESEARCH ON LATE CRETACEOUS VERTEBRATES
FROM THE WESTERN INTERIOR**

Conveners- Robert M. Sullivan and Spencer G. Lucas

*denotes speaker

Morning Session

- 8:45am **Welcome** —Adrian P. Hunt, Director, New Mexico Museum of Natural History and Science; Spencer G. Lucas
- 9:00am **Lithostratigraphy and biostratigraphy of the Fruitland Formation (Upper Cretaceous) of the San Juan Basin, New Mexico** —S. G. Lucas*, A. P. Hunt and R. M. Sullivan
- 9:20am **Kirtlandian land-vertebrate “age”— Faunal composition, temporal position and biostratigraphic correlation in the nonmarine Upper Cretaceous of western North America** —R. M. Sullivan* and S. G. Lucas
- 9:40am **Dynamosaurus imperiosus and the earliest discoveries of Tyrannosaurus rex in Wyoming and the West** —B. H. Breithaupt*, E. H. Southwell and N. A. Matthews
- 10:00am **BREAK**
- 10:20am **Tetrapod ichnofacies of the Cretaceous** —A. P. Hunt* and S. G. Lucas
- 10:40am **Tetrapod footprints from the Cretaceous Dakota Group of the Western Interior** —M. Lockley
- 11:00am **Theropod dinosaur tracks from the Late Cretaceous (Turonian) Moreno Hill Formation of New Mexico** —D. Wolfe
- 11:20am **Duckbill dinosaur chin skin scales: Ups, downs, and arounds of surficial morphology of Upper Cretaceous Lance Formation dinosaur skin** —M. D. Wegweiser*, S. A. Hartman and D. M. Lovelace
- 11:40am **Cenomanian bonebed faunas from the northeastern margin, Western Interior Seaway, Canada** —S. Cumbaa, C. Schröder-Adams, R. G. Day and A. J. Phillips*
- 12:00-2:00pm **LUNCH**

Afternoon Session

- 2:00pm **Investigation of the ichthyofauna of the Mowry Shale (early Cenomanian) of Wyoming** —J. D. Stewart* and M. E. Hakel
- 2:20pm **The nonmammalian vertebrate microfossil assemblages of the Mesaverde Formation (Upper Cretaceous, Campanian) of the Wind River and Bighorn basins, Wyoming** —D. DeMar* and B. H. Breithaupt
- 2:40pm **Nonmarine turtles from the Cerro del Pueblo Formation (Campanian), Coahuila State, Mexico** —D. Brinkman* and R. Rodriguez de la Rosa
- 3:00pm **The giant crocodylian *Deinosuchus* from the Upper Cretaceous of the San Juan Basin, New Mexico** —S. G. Lucas, R. M. Sullivan and J. A. Spielmann*

3:20pm	BREAK
3:40pm	On a hadrosauromorph (Dinosauria: Ornithopoda) from the Moreno Hill Formation (Cretaceous, Turonian) of New Mexico — <i>A. T. McDonald*, D. G. Wolfe, and J. I. Kirkland</i>
4:00pm	Large hadrosaurine dinosaur from the latest Campanian of Coahuila, Mexico — <i>J. I. Kirkland*, R. Hernández-Rivera, G. S. Paul, S. Nesbitt, C. I. Serrano-Brañas and J. P. García-de la Garza</i>
4:20pm	Responses of Late Cretaceous vertebrate paleocommunities to climate change in southern North America (Big Bend National Park, Texas) — <i>J. Sankey</i>
4:40pm	Mammals from Cedar Canyon, Upper Cretaceous, southwestern Utah — <i>J. G. Eaton</i>
5:00pm	Concluding Remarks

POSTERS

Posters will be up all day on both Monday and Tuesday; Authors will be present Tuesday 3:40-5:00 pm

Using a relational geodatabase to manage paleontological resources at Florissant Fossil Beds National Monument —*M. A. Barton, B. Frakes and H. W. Meyer*

Results of a three-year paleontology inventory at Hagerman Fossil Beds National Monument, southern Idaho —*P. Gensler and M. C. Carpenter*

Stratigraphic positions of marine reptile and dinosaur specimens in the Moreno Formation, in the Tumey Hills and Panoche Hills, Fresno County, California —*K. W. Ford*

Cooperative agreements, tools for partnership management of public fossil resources: One example —*P. M. Hester*

Paleosensitivity map for New Mexico: A tool for land use planning —*P. M. Hester and D. Simmons*

Legislative and regulatory history of paleontological resources —*L. Kuizon*

The diversity and stratigraphic distribution of pre-dinosaurian communities from the Triassic Moenkopi Formation, Capitol Reef National Park and Glen Canyon National Recreation Area, Utah —*D. L. Mickelson*

Subaqueous Tetrapod swim tracks from the Middle Jurassic: Bighorn Canyon National Recreation Area, Wyoming U.S.A. —*D. L. Mickelson, M. R. King, P. Getty and K. A. Mickelson*

Dinosaur tracks from the Upper Cretaceous Iron Springs Formation, Iron County, Utah —*A. R. C. Milner, G. S. Vice, J. D. Harris and M. G. Lockley*

Federal, state, and volunteer cooperation on vertebrate paleontology projects on federal land: Examples from Pleistocene sites in New Mexico —*G. S. Morgan, P. M. Hester, B. A. Schumacher and L. Gore*

Draft paleontology resource management plan for Glen Canyon National Recreation Area, southern Utah and northern Arizona —*L. Newcomb and D. D. Gillette*

Late Cretaceous marine reptiles (Mosasauridae And Plesiosauria) from New Mexico and their biostratigraphic distribution —*J. A. Spielmann and S. G. Lucas*

Establishing a future for fossils in the National Park Service: The development of a Servicewide guidebook and paleontological database —*C. C. Visaggi, V. L. Santucci, J. P. Kenworthy, A. L. Koch and T. B. Connors*

Paleowildfire characteristics and behavior: Diagenic changes occurring in vascular bone during cremation by wildfire reveal ancient fire behavior —*M. D. Wegweiser*

A pachycephalosaurine pachycephalosaur from the Dinosaur Park Formation, Alberta —*T. Williamson and T. Carr*

Transfer of UALP San Juan Basin vertebrate collection to the New Mexico Museum of Natural History and Science —*T. E. Williamson, P. M. Hester, and S. P. Bednarski*