



Hosted by UFOP  
Castle Country Raptor Chapter.

**UFOP Annual Meeting**  
**Utah Friends of Paleontology**  
**April 14 -16, 2011**

**Thursday, April 14 Prehistoric Museum located at 155 Main St. Price UT**

- **8 - 9 am** Registration
- **9 am - 4 pm** Field trip to Cleveland Lloyd Dinosaur Quarry. Meet at the Museum; we will car pool to the site. A **box lunch** for those who purchased one on their registration form. \*You may provide your own lunch for the field trip if you wish.
- **6-9 pm** - Registration at the Museum
- **7-9 pm** - Social at the Museum **Light Snacks and Soft Drinks**

**Friday, April 15 Holiday Inn located at 838 Westwood Blvd. Price UT**

- **8 am** - Speakers, posters and art exhibits **Snacks and Soft Drinks**
- **10 am** - 15 Minute Break
- **Noon** - Lunch Break, **on your own for Lunch**
- **1 pm** - Speakers, posters and art exhibits
- **2:30 pm** - 15 Minute Break
- **4:30 pm** - Presentations Conclude - break for dinner
- **6 pm** - Buffet Dinner at Holiday Inn - Includes Beef, Chicken, and Pork  
**Don Burge, Guest Speaker**

**Saturday, April 16 Holiday Inn 838 Westwood Blvd. Price UT**

- **8 - 9:15 am** - Executive Board Meeting for state and chapter presidents and vice-presidents, state treasurer **Snacks and Soft Drinks**
- **9:30 - 10:30 am** – General Business Meeting **Snacks and Soft Drinks**
- **11:00 am** - Field Trip to the San Rafael Swell area

Utah Friends of Paleontology – Castle Valley “Raptor” Chapter  
2011 Field Trip – Annual Convention

Thursday – April 14<sup>th</sup>

- 9:00 a.m. Leave from the CEU Museum parking lot.  
Go south on Hwy 10 to Clawson, UT
- 10:00 – 11:00 a.m. Clawson ammonite beds – collecting permitted.  
(4WD is needed to drive into the area.)
- 11:00 – Noon Travel north to Huntington and then east into the Swell to  
Cleveland-Lloyd Dinosaur Quarry.
- 12:00 – 1:30 p.m. Eat Lunch in the picnic area, tour visitor center and quarry.
- 1:30 – 3:00 p.m. Tour of track sites and seldom seen bone sites. This is a somewhat  
strenuous hike. Participants must be able to hike up and down hills.

Saturday – April 16<sup>th</sup>

- 11:00 a.m. Leave from Price, follow Hwy 10 South.
- 11:40 a.m. Turn east into the Swell, travel to the Wedge Overlook.
- 12:30 – 1:15 p.m. Eat Lunch at the Wedge Overlook.
- 1:15 – 2:00 p.m. Go to the head of Buckhorn. Collect fossils from Carmel  
Formation, visit the Buckhorn Track.
- 2:00 p.m. Travel to the Carol Site. The type specimens for the Eolambia and  
the Animantarx were excavated from this site. (A short hike is  
required to visit this site.)

If time and conditions permit we may visit other sites in the area.

All field trip activities are “weather dependent”.

# UFOP 2011 Annual Meeting Program

- 8:00 a.m. *Welcome*  
Barb Benson, Castle Valley Chapter President  
David Cassidy, State President and Moderator  
Joe Piccolo, Mayor
- 8:15 a.m. *The Cambrian of Utah* • Val and Glade Gunther
- 9:00 a.m. *Comparing Jurassic Dinosaur Lagerstätten: What Do the Bone Deposits Tell Us About the Past?* • Kenneth Carpenter
- 9:45 a.m. *Possible Origins of the Cleveland-Lloyd Dinosaur Quarry: A Review of the Evidence* • Mark Loewen
- 10:30 a.m. *Break/Snack*
- 10:45 a.m. *Poster Exhibits*  
Jim Kirkland
- *New Dinosaur Sites in the Basal Yellow Cat Member of the Cedar Mountain Formation (Early Cretaceous) of Utah*
  - *Developing a Pilot Paleontological Resource Monitoring Program for the National Park Service at Glen Canyon National Recreation Area, Utah*
  - *Newly Recovered Skeletal Elements of the Late Jurassic Dinosaur *Mymoorapleto mayisi* from its Type Locality in the Morrison Formation Permits Reevaluation of Ankylosaur Phylogeny*
- Kevin Bylund
- *Coniacian (Late Cretaceous) Ammonoid Fauna of Eastern Utah, US*
  - *Early Triassic Ammonoids from the Pahvant Range, Utah, USA*
  - *Late Cretaceous Nautiloids from Eastern Utah, USA*
- Kenneth Carpenter
- *Taphonomy of the Douglass Quarry, Dinosaur National Monument, Utah*
- 11:15 a.m. *A Lacustrine Lagerstätte by the Qilianshan: the Early Cretaceous Xiagou Biota of Gansu Province, China* • Jerry Harris
- Noon *Lunch on your own*
- 1:00 p.m. *The Horse Mountain Gryposaur Quarry: A Small Lagerstätten in the Kaiparowits Formation of Grand Staircase-Escalante* • Mike Getty
- 1:45 p.m. *Tropical Wyoming: Using Early Eocene Leaves from Fossil Lake to Infer Climate* • Arvid Aase

- 2:30 p.m.     *One Million Bones and Counting: The Marine Middle Miocene Sharktooth Hill Bonebed* • Randall Irmis
- 3:15 p.m.     *Break/Snacks*
- 3:30 p.m.     *Milestones in U.S. Government Paleontology* • Scott Foss
- 6:00 p.m.     Banquet Dinner
- 6:45 p.m.     *History of the CEU Prehistoric Museum* • Don Burge, Founding Director

## About our Speakers

**Arvid Aase** earned an associate degree from Ricks College in 1991, B.S. in geology from BYU-Provo in 1993, and an M.S. in geology from The University of Kansas in 1998. His thesis interpreted the life habits of the early Ordovician trilobite genus *Pseudocybele*. He still has a love of trilobites and goes collecting several times a year. Arvid is in his 14<sup>th</sup> year as Museum Curator/paleontologist at Fossil Butte National Monument.

**Don Burge** holds a B.A. in Physical Geology from the University of Southern California, and an M.S. in Economic Geology and Mineralogy from BYU. He served as director and curator of paleontology of the College of Eastern Utah Prehistoric Museum from 1961-2004. Don has received many awards throughout his life for his contributions to science. Among those awards are an honorary doctorate from CEU in 2004 and a medal for science and technology from Governor Leavitt in 2000. He has been instrumental in discovering several new species of dinosaurs including an armored dinosaur, *Gastonia burgi*, named in his honor.

**Kevin Bylund** has collected fossils, mostly cephalopods, for nearly 40 years. For the last few years he has been working with Dan Stephen from UVU on some of Utah's cephalopods. In collaboration with Dan Stephen, Jim Jenks, Arnaud Brayard from CNRS in France, and researchers from the University of Zurich, Kevin has been studying Early Triassic Ammonoids and other organisms that lived just after the Permian/Triassic extinction event. Kevin was recently honored by having an ammonoid species, *Kazakhoceras bylundii*, named after him by Dieter Korn and Alan Titus for his work in helping to collect Mississippian ammonoids in western Utah.

**Kenneth Carpenter** received his B.S. and Ph.D. from the University of Colorado. Before coming to Utah to become the Director and Curator of Paleontology at the USU/CEU Prehistoric Museum, he was Curator of Lower Vertebrate Paleontology and Chief Preparator for the Denver Museum of Nature & Science from 1989-2010. Ken has served as scientific advisor to the National Geographic Society, BBC (British Broadcasting), and NHK (Japanese Broadcasting Corporation). He has appeared in over 30 television programs on dinosaurs and other prehistoric animals. Ken has over 200 scientific and popular publications to his credit, and his research interests include dinosaurs of the Cedar Mountain Formation, biomechanics of dinosaurs, paleopathology, dinosaur reproduction, and dinosaur systematics.

**Scott Foss** holds degrees in biological sciences (PhD) and geology (BS) and completed additional graduate work in veterinary sciences. In addition to working for federal land management agencies he has taught comparative vertebrate anatomy, human anatomy, and ecological and geological sciences. His research focus is the *paleobiology of Tertiary mammalian faunas* and his professional focus is *paleontology and public*

*policy*. Scott worked for 14 years as a field paleontologist and museum curator for the National Park Service before joining the Bureau of Land Management in 2005.

**Mike Getty** is a native of Alberta, Canada and received both his B.S. and M.S. from the University of Calgary. He worked for the Royal Tyrrell Museum of Paleontology for five years before coming to Utah to become Collections Manager of Paleontology at the Utah Museum of Natural History. Mike has been the field manager for the UMNH Kaiparowits Basin project since its initiation in 2000. Recently a new species of ceratopsian, *Utahceratops gettyi*, was named after him in honor of his contributions to the UMNH paleontology field program.

**Glade Gunther** is the third generation of amateur paleontologists in the Gunther family, and has been collecting for 30 years. Along with other family members, he has made major contributions to science. Glade and his family have nearly 20 species named in their honor.

**Val Gunther** is a second generation amateur paleontologist, and has been collecting fossils for 54 years. He was honored as the first recipient of the Harrell Strimple award given by the Paleontological Society of America to recognize outstanding contributions to science by amateurs. Val has authored several books and articles mostly related to the Cambrian fossils of Utah.

**Jerry Harris** is the Director of Paleontology and Associate Professor at Dixie State College, as well as the Scientific Advisor to the St. George Dinosaur Discovery Site at Johnson Farm. He was born in Chicago and has, since then, bounced around the country (schlepping a keen interest in dinosaurs with him), living in Colorado Springs, Boulder, Denver, Dallas, Albuquerque, and Philadelphia before landing in St. George. He received his B.A. in Geoscience from the University of Colorado, M.S. from Southern Methodist University, and Ph.D. from the University of Pennsylvania. Jerry is currently involved in research on fossils from China, Argentina, and (of course!) St. George.

**Randall Irmis** received his B.S. in Geology with emphasis in Paleontology from Northern Arizona University and has a PhD in Integrative Biology from University of California – Berkeley. Beginning 2 years ago, he is Curator of Paleontology at the Utah Museum of Natural History and Assistant Professor in the Department of Geology & Geophysics, University of Utah. Randy is broadly interested in the evolution of terrestrial ecosystems through geologic time, particularly in response to paleoenvironmental change and other external contingencies. Much of my work has focused on vertebrate fossil assemblages from the early Mesozoic, including examining the rise of dinosaurs. He also works on understanding the quality of the fossil record, and this interest is what led him to the project on the Miocene Sharktooth Hill bonebed.

**James Kirkland** is the state paleontologist for the Utah Geological Survey. An expert on the Mesozoic Period, his career includes the discoveries of numerous new dinosaurs, including one of the more notable, Utahraptor. Kirkland was born in Weymouth, Mass., on Aug. 24, 1954. He graduated in 1977 from the New Mexico Institute of Mining and Technology in Socorro, N.M., with a bachelor's degree in geology. He earned a master's degree in geology at Northern Arizona University in Flagstaff, and his doctorate in geology at the University of Colorado in Boulder.

**Mark Loewen** holds a master's degree in paleontology from Loma Linda University and a doctoral degree in Geology from the University of Utah. He specializes in Jurassic and Cretaceous dinosaurs with an emphasis on the evolution and dispersal of allosaurs, tyrannosaurs and ceratopsians. He is currently Adjunct Assistant Professor of Geology and Geophysics at the University of Utah and Research Associate at the Utah Museum of Natural History.