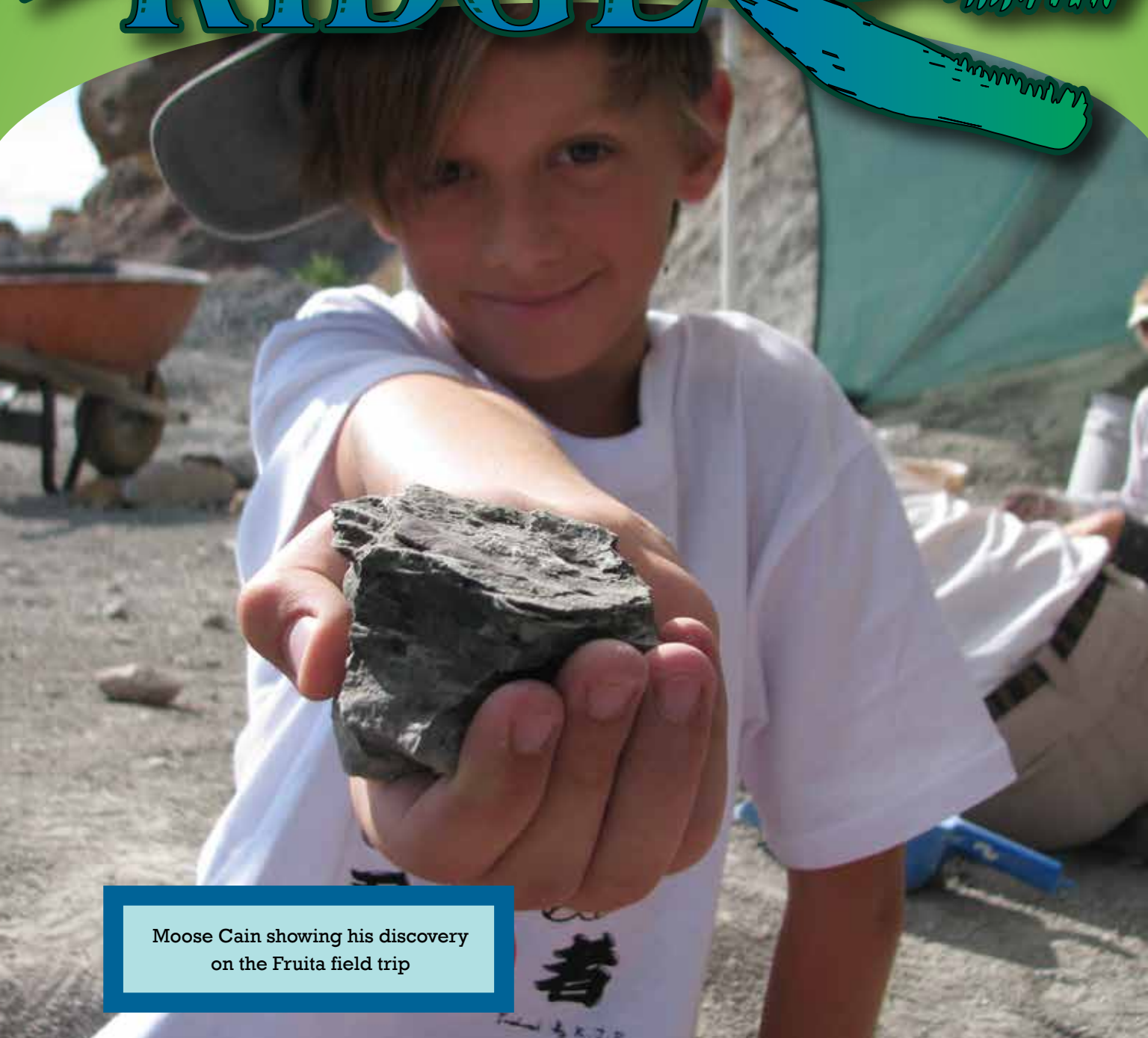


# DINOSAUR RIDGE



Moose Cain showing his discovery  
on the Fruita field trip

# FRIENDS OF DINOSAUR RIDGE SPRING 2013

## **Executive Committee:**

President	Kathleen McCoy, J.D.	Attorney
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John Ghist	Earth Science Teacher Park Co. School Dist.
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Judy Peterson	Paleo Artist
Robert Reynolds, Ph.D.	Geologist, Denver Museum of Nature & Science
Louis Taylor, Ph.D.	Paleontologist, Denver Museum of Nature & Science

The mission of Friends of Dinosaur Ridge is to preserve the paleontologic, geologic, and historic resources on Dinosaur Ridge, Triceratops Trail and the outlier sites in the Morrison - Golden Fossil Areas National Natural Landmark and to educate the public about these resources.

## **Major Contributors:**

Harvey Family Foundation  
 Scientific & Cultural Facilities District (SCFD)  
 Jeffco Conservation Trust Funds  
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 Greater Denver Area Gem & Mineral Council  
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     Exhibits  
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 Marsha Barber and Jonna Gentry  
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Programs & Operations Director	Tom Moglestad
Program Coordinator	Erin LaCount
Volunteer Coordinator	Amber Cain
Membership Coordinator	Clare Marshall
Gift Shop Manager	Roger Bennett
Gift Shop Assistant	Barbara Davidson
G.S. Assistant/Computer Tech	Brian Davidson
Lead Guide/Birthdays/G.S. Clerk	Bobbi Kilgore
Maintenance	Jack Evans
Maintenance	Johnny Shockley
Educator/Tour Guide	Merlin Barnes
Guide/G.S. Clerk	Sue Kaberline

## **Tour Guides**

Dan Fanelli  
 Thornton Geise  
 Clair Tralles  
 Chenoa Ellinghaus  
 Kayla Sandoval  
 Kevin Thirouin  
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**Scientific & Cultural  
 Facilities District**

*Making It Possible.*

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## CHARITABLE GIVING

Please think about these tax-saving strategies to make a contribution to the Friends of Dinosaur Ridge:

**Tax-Free IRA Distributions to Dinosaur Ridge** — Qualified charitable distributions recently have been extended for the 2013 tax year. People over age 70½ can donate up to \$100,000 from their IRA directly to the Friends of Dinosaur Ridge without triggering any federal income taxes. Under the “Qualified Charitable Distributions” provision, when you request a distribution from your IRA to our investment firm, RBC Wealth Management, along with the name and address of the Friends of Dinosaur Ridge, 16831 West Alameda Parkway, Morrison, CO 80465, so they can send the funds directly to us. Please contact Lee DeRose at RBC Wealth Management at 303-595-1125.

**Gifting Appreciated Stock to Dinosaur Ridge** — If you donate stock to the Friends of Dinosaur Ridge you will receive the income tax charitable deduction for the full market value of the stock and not have to pay capital gains tax on the stock. Securities must have been held for at least one year before you can gift it. Your gift of appreciated stock is fully deductible up to 30% of your adjusted gross income.

# MANAGEMENT REPORTS

## FROM THE PRESIDENT “SPREADING THE WORD”

Fall is my favorite season at Dinosaur Ridge. After a hectic, busy summer, the vacationers go home, the pace slows down, and there is time to really see and experience what the Ridge has to offer. The cool, crisp days are perfect for a hike along the Ridge. It's also a great time to explore Triceratops Trail in Golden and enjoy a leisurely look at the fossils found there. But, if you prefer a more indoor experience, *Trek Through Time* has added several new exhibits over the last few months. It now includes replicas of *Triceratops*, *Brachiosaurus*, and *Allosaurus* skulls, and an *Allosaurus* model. When it is not on tour with outreach activities, a raptor model now also frequents the exhibit hall.

It's also not too soon to be thinking of holiday presents. Our gift shop is always stocking new items. Last autumn I did all of my seasonal shopping in just one afternoon at the Dinosaur Ridge Gift Shop. I found great gifts for nine family members and friends, including adults, teens, and kids down to my youngest nephew, then two. It made for a much less stressful holiday. So, come out and visit us this fall. Dinosaur Ridge offers the perfect respite from over-stressed lives, with a chance to stroll through deep time both indoors and out, and get a head start on the upcoming holidays. See you soon.



—KATHLEEN MCCOY

## FROM THE EXECUTIVE DIRECTOR



### **Cover over the Tracksite**

The model of the track cover has been modified by **Dave Jenne**. (See photograph above). We are working with architect **Dan O'Brien** to create a fabric roof that blends as much as possible into the backdrop of the track site. Also, we are exploring the idea of using three or four earth-tone fabrics to create a patchwork quilt cover that camouflages the track cover from the travelers on C470. Such a fabric would be as durable as the material used at DIA. This is still a work in progress.

### **The Discovery Center**

The architectural and engineering plans for the Discovery Center are complete and have been submitted to three building contractors for bid. Before we can apply for a building permit, we need to receive approval from Jefferson County for a “Minor Adjustment”

(MA). This MA is needed in order to expand the building to the north for a water tank room and to expand the building to the south for a covered porch. We also need to get a variance for the front porch because it will encroach on the 50' setback from the front property line by about 8'. All of these are minor requests and we expect to receive approval of the Minor Adjustment in November. We expect to break ground in December.



*New FODR Discovery Center entry sign*

We have raised approximately \$93,000 for the renovation of the Discovery Center and need to raise about \$60,000 more. We have applied to various foundations, corporations, and individuals for the additional funds and are awaiting their responses. If you wish to contribute, please contact Joe Tempel at 720-971-9649.



— JOE TEMPEL

# MANAGEMENT REPORTS

## PROGRAM DIRECTOR'S REPORT

### Visitation, Attendance, and Sales

Visitation, attendance, and sales are up for 2013. Attendance for Dinosaur Discovery Days is well above last year's attendance, as is the number of people who see traveling exhibits. Total sales are approaching the \$400,000 level.

PROGRAM	2012 (YTD)	2013 (YTD)	CHANGE
Visitors to Ridge (1)	77,262	81,959	+6%
Walkers on Ridge	35,086	36,019	+3%
Visitors -- Triceratops Trail (2)	?	215	
Tours (Total Attendance) (3)	38,721	41,843	+8%
Trek Through Time (4)	19,340	19,216	-1%
Dinosaur Discovery Days (5)	2,900	4,200	+45%
Traveling Exhibits Visitors	11,000	17,000	+55%
Sales (6)	\$323,675	\$387,588	+20%

1. Includes walkers, tour attendance, and self-guided tours. Does not include bicyclists.
2. Visitors counted with new electronic counter from 9/18 through 9/30.
3. Includes attendance for guided school tours, shuttle bus tours, school outreach, "Walk with a Geologist," birthday parties, TriceraTots, summer camps, field trips, and teacher classes.
4. Admission price increase began 9/1/12
5. Five events through the 3<sup>rd</sup> quarter of 2012, and four events through the 3<sup>rd</sup> quarter of 2013.
6. Includes receipts from the gift shop, shuttle buses, *Trek Through Time*, school tours, birthday parties, "Walk with a Geologist," teacher classes, field trips, summer camps, TriceraTOTS, facilities rental, sluice mining, geode cracking, and Stegosaurus Snack Shack.



—TOM MOKLESTAD

## THE GIFT SHOP

### Ready for Holiday Shopping

The Dinosaur Ridge Gift Shop had a great summer with sales significantly exceeding last year's sales (See Program Director's Report above). We continue to have new items for sale including the sand paintings highlighted in the last Ridge Report. These paintings came out in the 60's, but are now much improved and make great gifts.

Come out to the Ridge and see the wonderful items we have that make great holiday gifts for adults, as well as children.

The holiday season will be here before we realize it.

— ROGER BENNETT

# RECENT ACTIVITIES

## DINOSAUR DISCOVERY DAYS

### Reptile Day August 10<sup>th</sup>, 2013

Reptile Day 2013 was moved to August from the July time slot it held in previous years. Perfect weather drew nearly 1,000 visitors to the festivities. The popular “**Mr. Bones**” entertained and visitors spent time at booths organized by the following organizations:

**Rocky Mountain Bird Observatory (RMBO)**

**Canyon Critters** (live reptiles)

**Wild Wings** (live birds)

**Denver Zoo** (live reptiles)

**Morrison Natural History Museum** (live reptiles)

**Western Interior paleontological Society (WIPS)**  
(fossils)

FODR thanks all of these groups, their staff, and their volunteers.

During Reptile Day this year a few FODR staff members and volunteers operated a booth at **Bandimere Speedway** during the **KBPI Car Show**. Several hundred car enthusiasts stopped by to see T, our new raptor model, and a Jurassic Park Jeep replica provided by **Kevin Henry** from **Colorado Movie Cars**.



### Geohazards Day September 14<sup>th</sup>, 2013

Geohazards Day saw a break in what was perhaps the rainiest week in Colorado history. Despite media pleas for people to stay home because of flooding, 400 visitors came to the timely event where the Visitor Center was fortunately high and dry. Some partners, including **West Metro Fire** and the **Jeffco IMT**, who were engaged with search and rescue and emergency communications, were unable to attend. However, others, including **O.M.E.G.A.**, **Ready Colorado**, “**Mr. Bones**” and **WIPS** were in attendance. O.M.E.G.A. applied moulage (faux wounds) to enthusiastic kids and Ready Colorado (a department of the Colorado State Office of Emergency Preparedness) dispensed volumes of information to an interested crowd. Thanks to the following FODR volunteers for manning booths on geohazards: **Sam Bartlett** (rockfalls), **Andy Anderson** (earthquakes), **Don Bounds** and **Mike Sullivan** (volcanic ash), **Norb Cygan** (radioactivity), and **Richard Kerr** (wild fires and dendrochronology).

-TOM MOKLESTAD



# ARTICLES

## FODR MEMBERS HAVE FUN AND LEARN ON FIELD TRIPS

### **Kenneth Carpenter, John Foster, Steve Miller, and Louis Taylor Lead Trips**

This year, Dinosaur Ridge volunteers traveled 2811 miles on five amazing field trips. Thanks to FODR board member **Dr. Louis Taylor**, **Dr. Kenneth Carpenter**, Director of the Utah State University Eastern Prehistoric Museum in Price, Utah, **Dr. John Foster** of Dinosaur Journey and the Museum of Western Colorado, **Steve Miller**, WIPS president, and **Dr. Bruce Schumacher**, US Forest Service paleontologist at Comanche National Grasslands, near La Junta, Colorado for leading such exciting trips.

### **Red Rock Canyon Colorado Springs, CO May 12, 2013**



*Greg Rodenfels puts his hand on an ankylosaur track in Red Rock Canyon.*

The first trip of the year was a 162-mile adventure that allowed us to walk through Front Range rocks from the Pennsylvanian Fountain Formation to the Cretaceous Niobrara Formation without crossing a road.

Lou Taylor led Charles Meyer, Gerry McDaniel, Bill Danley, Diane Rogers-Bischoff, Ed and Lorie Mihelich, Greg Rodenfels and me through the section.

As we exited the vehicle in the parking lot, we were immediately faced with faulting in the Fountain Formation. The Lyons Formation was my favorite because near midday we were in the midst of an old sandstone quarry, complete with possible burrows filled with calcite. There were a few remnants of the Lykins Formation in which we could see stromatolites.



*The group views the Fountain Formation on the trail in Red Rock Canyon.*

The Morrison Formation was poorly exposed, however Sharon Milito, working for the city of Colorado Springs, found dinosaur bones here in 2008. The Dakota Sandstone did not disappoint with its wealth of fossils. Dinosaur tracks, tree impressions, and leaves were visible not far from the main trail. Within the Benton Shale layer we were able to see a white ash layer and tiny fish fossils. We had to use hand lenses to see the bone and scale impressions.

The Codell Sandstone Member of the Niobrara Formation had numerous ammonite impressions and *Inoceramus* (mollusk) shells, along with a few shark (*Squalicorax*) and fish teeth.

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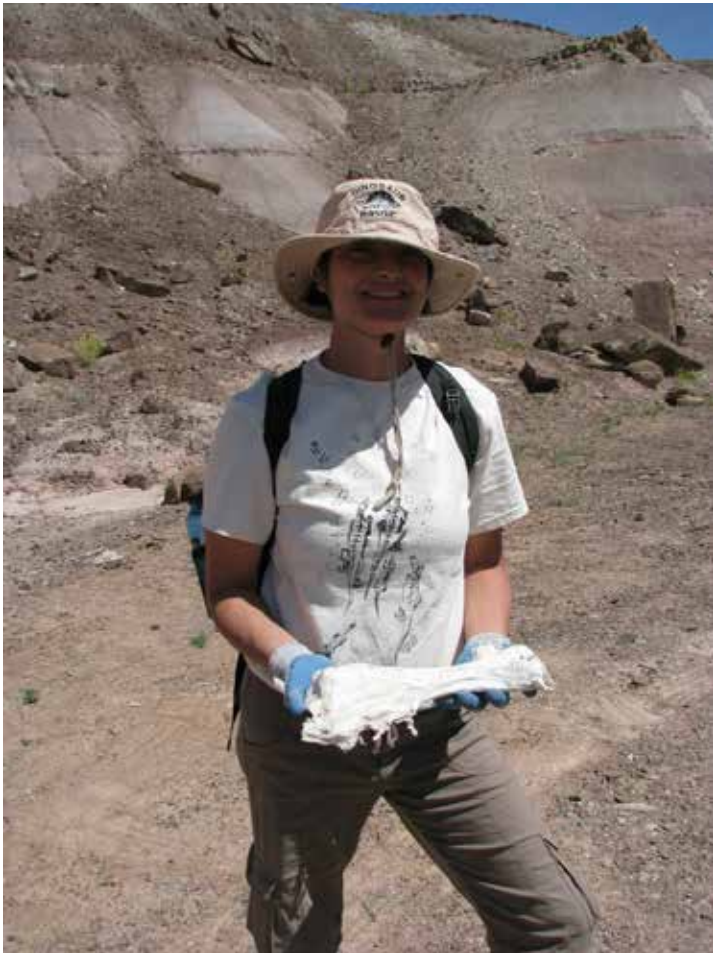
# ARTICLES

## Utah Dinosaur Dig May 19-25, 2013

A small group of FODR members traveled 1031 miles to have Ken Carpenter teach us about dinosaurs and how to collect them.

Before this trip, I don't think any of us knew what a therizinosaur was. By Day 3, it seemed like we had found enough of one to put together a skeleton. We also found some awesome nodosaur scutes, possibly from *Nodosaurus gastoni*.

This trip was not for the faint of heart: Charles Meyer, Sue and Dave Jenne, Kathy Wolf, Kermit Shields, Louise Bloch, Diane Rogers-Bischoff and I braved the 30 minute one-way, four wheel drive roads only to reach the beginning of the



*Diane Rogers-Bischoff holds a freshly plastered dinosaur femur.*

*Continued from previous page*

uphill trail to a quarry discovered by the Suarez sisters in the Cretaceous Cedar Mountain Formation south of Green River. We were with Ken, his field director, John Bird (now retired), intrepid museum volunteer, Barb, and student intern TyRee.

The word of the trip was definitely “stabilize”. Every time a bone was uncovered, we had to ensure it wouldn't crumble or break, so we became quite intimate with Butvar® and Paleobond™, materials used to penetrate and stabilize bone.

We saw a few scorpions but fortunately Charlie the rattlesnake never emerged.

**“I think I found a bone.”**

**...bones were everywhere!**

The quarry we reached has been very productive over the years. During the dig we got to see the 2000<sup>th</sup> bone be collected, labeled, and sketched.



*Covering dinosaur bones in plaster to ready them for transit from the quarry to the museum.*

During our stay, Ken led small groups of us through the desert looking for other bone sites. There was one possibly illegal site that he was aware of and wanted to check out so we followed him. With his GPS leading the way, we found our way to the top of a ridge where dinosaur rib bones were protruding from the outcrop. We dug around a bit but didn't find anything else.

*Continued on next page*



# ARTICLES



*Dr. Carpenter explaining the geology of the San Rafael Swell.*

On our way back to the car, Ken had us spread out along a sloped hillside looking for dinosaur bones. After walking for a bit Kathy called out, “I think I found a bone.” We all began heading her direction and once we got there, we saw that the bones were everywhere! – in the outcrop, loose on the ground, and scattered about. Ken looked around, recorded the GPS coordinators and named the previously unknown site Kathy’s Quarry. It most likely contains bones of a sauropod dinosaur.



*The way vertebrate paleontology is supposed to be – a group effort.*

*Continued from previous page*

After the days of digging, we headed for Price. On the way Ken led us on a geology tour through the San Rafael Swell, where not only did we see amazing geology, but also saw dinosaur tracks, petroglyphs, and pictographs.

The Prehistoric Museum in Price contained exhibits of not only the local paleontology, but also archaeology. Because Ken was in the process of rebuilding the dinosaur skeletons to have them include as much real bone as possible, we got to see the scattered pieces of what seemed like a large 3-D dinosaur puzzle with more puzzle pieces (okay, bones) than most of us could put together.



*At the Cleveland-Lloyd Quarry seeing the largest collection of Allosaurus bones.*



*Left: Amber's foot compared to a dinosaur track in the San Rafael Swell in Utah.*

*Right: Reconfiguring dinosaurs skeletons to contain more real bones at the Prehistoric Museum in Price, Utah.*

On the last day, we saw the museum’s collection with John Bird and TyRee showing us many impressive drawers full of bones.

We headed south to the last stop of the trip, the still active Cleveland-Lloyd Dinosaur Quarry where the largest collection of Jurassic bones has been recovered. The main dinosaur bones found here belong to the *Allosaurus*. If we are lucky enough to run this trip again, this one is not to be missed!

*Continued on next page*

# ARTICLES

## Western Interior Seaway Comanche National Grasslands, Colorado June 22, 2013



*Our leader, Steve Miller, with his hand on his chin, contemplates our next move.*

This 484-mile long trip, led by WIPS President Steve Miller with the able assistance of U.S. Forest Service paleontologist Dr. Bruce Schumacher, was the first event in what we hope will be an ongoing relationship between FODR and WIPS. We got a sneak preview of a field trip that Steve led for the Geological Society of America at its annual meeting in October.



*Dinosaur track in Comanche National Grasslands.*

*Continued from previous page*

Also, an article about this trip was featured in the last issue of the *Ridge Report*.

I cannot tell you how many times I have pulled out my map of Colorado when looking for new places to explore and would run across Comanche National Grasslands and immediately say, “Nope! Why would anyone want to visit grasslands? To watch grass grow?” Wow - have I been missing out!

Arroyos brimming with fossils, canyons with dinosaur tracks on the rim, and even tarantulas: they’re all here.

The main topic of the trip was the Greenhorn Cyclothem. Cyclothem is alternating stratigraphic sequences of marine and nonmarine sediments. In Comanche National Grasslands, the cyclothem is exemplified through alternating layers of limestone, shale, and sandstone that illustrate the waxing and waning of the Western Interior Seaway during the Cretaceous.

Steve has been doing a survey of the area studying the vast biostratigraphic record preserved here. The fossils were impressive. We saw dinosaur footprints, ammonites, clams, and fish coprolites.

An added feature of the trip was that John McDonald, Don Bounds, Charles Meyer, Kathy Wolf, Greg Rodenfels and I were all able to collect fossils for our own collections.

*Continued on next page*



*An ammonite — Kathy Wolf's discovery at Comanche National Grasslands.*

# ARTICLES

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For the last stop at the end of the day, Bruce took us to see a vertebrate fossil he had discovered. As we wandering around the site, Kathy found an ammonite piece, and then she began to see whole ammonites. Steve and Bruce got really excited because these were the first ammonites from this rock layer they had ever seen.

Steve took a loose hand sample and labeled it KZW6-22-13 for Kathy. This was her second discovery of the summer. She now has two fossil localities named after her.

If you want to see some amazing Cretaceous stratigraphy, Comanche National Grasslands is the place to go! We had planned to extend our trip to see the famous Purgatoire dinosaur tracks in the Picketwire Canyon Tracksite, however the Federal government shutdown thwarted this effort. This trip will definitely be run again.

## Fruita Fossil Dinosaur Dig

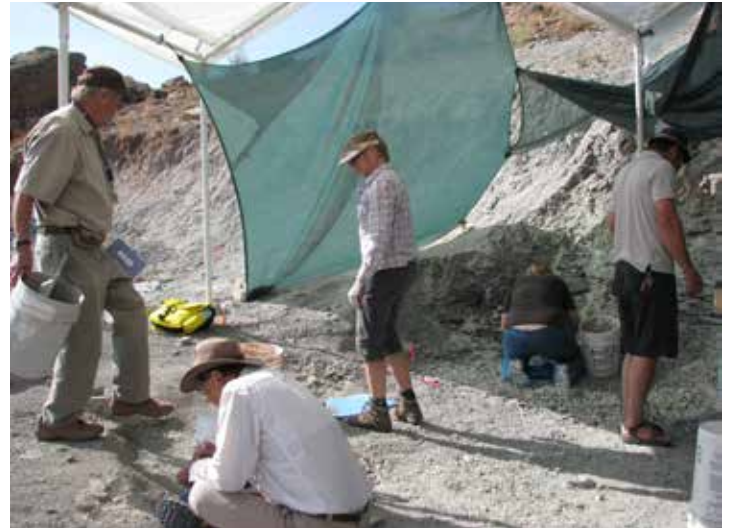
Fruita, Colorado

August 22-24, 2013

When FODR Programs Coordinator Erin LaCount was a teenager, she borrowed her grandparents' car and headed to Fruita on her first road trip to dig dinosaurs with Dr. John Foster.

Over the years Erin has returned to the Fruita area quite a few times, so it seemed logical to include Fruita as a FODR field trip destination.

John, paleontologist at the Museum of Western Colorado and Dinosaur Journey, led the way as the excited group of Alan Founie, Charles Meyer, Richard Kerr, Cindy Smith, Barry Smith, Erin LaCount, and my son Moose and I had the chance to dig dinosaurs practically in our own backyard.



We met Tom Temme, Field Director for the museum, who drove us to the last exit on I-70 before it enters Utah. This is the beginning of the *Trail Through Time* trail, and where the Museum of Western Colorado's quarry is located.

With the interstate highway in view, we gathered supplies and began digging.



# ARTICLES

*Continued from previous page*

In a neighboring quarry, John and his museum volunteers were using power tools to remove a six-foot long leg bone, a three-foot wide pelvis, and another large bone.



Our bones were smaller, but still amazingly cool. Digging through the quarry rock was interesting because we kept coming across small black waxy bits of plants. Unlike the arid Jurassic time of Dinosaur Ridge, the Jurassic of western Colorado was full of plant life.

Erin and Charles found small bones all along the quarry wall, Richard found a coprolite, and Moose found what looked like a sauropod tooth.

After a full day of digging, a late afternoon thunderstorm forced us to close up for the day. We headed to the museum for a tour of the fossil lab to see recently recovered fossils they are currently preparing.

The next day, after we got some information about an Eocene Green River Formation fossil site, we packed up and headed north a bit toward Douglas Pass where we found and collected insect and leaf fossils about 35 million years old.

## **Cretaceous-Paleogene Boundary Trinidad, Colorado September 8, 2013**



*Memorial to those who died in the Ludlow Massacre in 1914.*

Lou Taylor took us on a 473-mile long trip to the K-Pg Boundary sites near Trinidad.

Charles Meyer, Libby Prueher, Alan Founie, Kathy Wolf, Larry Jankowski, Beth Simmons, Sam and Pam Allen, Greg Rodenfels, Richard Kerr, Chris Carroll and I traveled to the K-Pg boundary (formerly the K-T boundary) which is preserved in the iridium-enriched layer that resulted from the asteroid that struck the Earth and may have led to the demise of the dinosaurs.

Driving south with so many geologists in our group made for a most interesting and informative drive. Our first stop was

# ARTICLES

Huerfano Butte just off to the east from I-25 at the Huerfano, CO, exit. The butte looks like a volcanic cone but actually is a portion of a dike radiating from the nearby Spanish Peaks.

We then headed to Ludlow, CO, where we passed an amazing location of coal and coke ovens on our way to the main attraction, the K-Pg boundary. A thin gray white layer, no bigger than a few centimeters is made up of material resulting from the event that may very well have been responsible for changing the fauna and flora of the day and resulting in death for the dinosaurs that we all love so much. Every time I touched the clay at the boundary, I imagined squishing a *Triceratops*.

We had a picnic lunch at the memorial to the Ludlow Massacre, during which 13 people died when the Colorado National Guard and the Colorado Fuel and Iron Company attacked the striking coal miners and their families in the tent city where they were living.

After lunch, we headed further south to Trinidad Lake State Park to see a few more localities that contain the K-Pg boundary deposits. I imagined squishing a *Tyrannosaurus rex* when I touched the K-Pg boundary clay.

Again, FODR thanks everyone who made these great field trips possible. I had an amazing time with all of the trip participants and I hope to help arrange and travel on more amazing trips in 2014.

-AMBER CAIN

**Recent changes by the International Stratigraphic Committee resulted in elimination of the Tertiary as a formal geological time unit. Consequently the Cretaceous-Tertiary boundary is now the Cretaceous-Paleogene boundary.**



*Kathy Wolf at the head of the short trail to the K-Pg boundary — the thin white layer in the photo to the right.*



**Every time I touched the clay at the boundary, I imagined squishing a *Triceratops*.**

# ARTICLES

## PRESERVATION CONTINUES AT DINOSAUR RIDGE AND TRICERTOPS TRAIL

### **Rockfall issues and vandalism at Dinosaur Ridge**

Periodic slope inspections following the September rains found that a lot of rock came down the slopes as a result of the rains. Fortunately most of it followed existing routes down and did not result in serious stability issues. Other areas along the Ridge that the Preservation Committee continues to monitor closely include the bone site, the south side of the bend at the top of the Ridge, and the “Brontosaur Bulges.”

Vandalism continues to plague the Ridge. The ash bed near bend at the top of the road has been vandalized. More surprising and more significant, however, is the mess made when an uninformed person or persons tried to make a plaster cast of the theropod track between the Bulges and the Bone site. In their ignorance they poured thin plaster directly onto the track. Of course they were unsuccessful. The plaster ran down the rock, leaving a layer of plaster on the track and the rocks beneath it. **Sam Bartlett**, Preservation Committee chair, after getting some good advice from **Reece Livingstone**, was able to remove all of the plaster on the surface. Only minor amounts of plaster in cracks remain.

While working on this thankless task during the Girl Scout DDD, Sam was able to use his efforts as a teaching tool to impress the girls with the need to protect nature’s treasures. He also used the opportunity to tell them about tommyknockers.

### **Triceratops Trail Preservation**

Mud flowing down the wall during the recent rains has again partially obscured the beetle tracks preserved there. This is a nuisance, but not yet seriously damaging. Remedy is on the way.

The rains had more impact in the Hadrosaur Pit. This area was flooded to the level of the large “*T. rex*” foot prints. One of the tracks came loose from the wall and fell down and was extensively damaged. Inspection revealed that the tow with the “claw” was badly fractured and that the track could not be moved without further breakage. **Dr. Martin Lockley** tried to stabilize the toe with Super Glue™ and made a new mold of the track that includes a few new features revealed during the damage.

**Johnny Shockley** and **Jack Evans** have been working on the continuous repairs at Triceratops Trail. Also, thanks to the efforts of **T Caneer**, a Boy Scout project will add railings along the walkway down into the Hadrosaur Pit. FODR is grateful for T’s help.



*Front view of the “*T. rex*” track that came detached from the Hadrosaur Pit wall.*

-SAM BARTLETT

# ARTICLES

## ARTHUR LAKES MOVIE AWARDED AS THE BEST DOCUMENTARY OF 2013

### FODR Honored by Colorado International Film Festival

*Arthur Lakes: Discovering Dinosaurs*, the hour-long movie made by an all Dinosaur Ridge volunteer cast and crew of about 50 people in 2011-2012, recently won the Colorado International Film Festival "Best Documentary Feature" for 2013!

The film festival competition put this "home-made" movie in the limelight; it had to compete with professional productions from around the world.

Written and directed by FODR board secretary **Dr. Beth Simmons**, edited by **Marjie Payne**, and starring FODR board member **George Daggett** as Arthur Lakes, the movie depicts the true story of the discovery of dinosaur specimens between 1870 and 1880.

As you watch the spell-binding movie, look for people you know well and see frequently at rock and mineral events in the Denver area. If you haven't already purchased your copy, pick one up at the Dinosaur Ridge Gift Shop for only \$19.95.

-BETH SIMMONS

# CALENDAR OF EVENTS

### November 20, 2013 at 7:00 PM – Living Dinosaurs Presentation at DMNS

Dr. Julia Clarke, associate professor and John A. Wilson Fellow in vertebrate paleontology at the University of Texas at Austin, will present recent research and discoveries being used to paint a vibrant new picture of dinosaurs and the origin of birds. Co-sponsored by the Rocky Mountain Bird Observatory. Ricketson Auditorium, Denver Museum of Nature & Science

### December 13-15 – Flatirons Mineral Club rock & Mineral Show

Hours are 10AM to 6PM Fri.; 9AM to 5PM Sat.; and 10AM to 5PM Sun. Admission charge. For more information go to <http://bcn.boulder.co.us/community/fmc/fmshow.htm>

### December 14<sup>th</sup> from 10AM to 1PM – Dinosaur Discovery Day: Walking with Dinosaurs

Dress to stay warm for the national Walking with Dinosaurs Day promoting the 20th Century Fox's new movie of the same name. Guides will be stationed at the main sites on Dinosaur Ridge. Shuttle buses (\$4) will take you to the Bone Site or you may walk for free. Visit *Trek Through Time*, free to kids and free to everyone if the outdoor program is cancelled. Register to win movie tickets and door prizes.

### December 14, 2013 from 6:30 – 10:00PM Western Interior Paleontological Society (WIPS) Holiday Auction and Potluck.

Silent and verbal auctions. Forms for donation available at the event. Items available include donations from the Black Hills Institute, Warfield Fossils, LarsonPaleo, Triebold Paleontology, and PaleoBond. Potluck dishes welcome.

Lutheran church of the Master, 14099 W. Jewell Ave (NE corner of W. Alameda parkway and Bear Creek Road – 1.6 miles east of Dinosaur Ridge C-470 exit).

For more information contact Dan Winester at 303-709-4585 or e-mail [deadfishrman@aim.com](mailto:deadfishrman@aim.com).

### January 17, 2014

Deadline for submission of articles, photographs, or other items for Volume 25, Number 4 of the *Ridge Report*. This is the 2013 Annual Report issue.

Friends of Dinosaur Ridge  
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## **FRIENDS OF DINOSAUR RIDGE MEMBERSHIP LEVELS AND BENEFITS**

**Junior Membership** -- \$10.00 -- Junior Paleontologist Activity Book, and *e-Tracks* newsletter

**Individual Membership** -- \$35.00 -- 10% discount in FODR gift Shop, *Ridge Report*, and *e-Trax* newsletter

**Family or Group Membership** -- \$60.00 -- Individual benefits plus free bus tours, and free admission to *Trek Through Time* for up to four people per visit

**Sponsor Membership** -- \$100 - \$249 -- Family or Group benefits for up to ten people per visit and recognition on a plaque in the exhibit hall

**Tyrannosaurus Membership** -- \$250 - \$499 -- Sponsor benefits plus one ticket to the annual *Rock Out for the Ridge* fundraising dinner

**Apatosaurus Sponsorship** -- \$500 - \$999 -- *Tyrannosaurus* benefits plus one additional ticket to the annual *Rock Out for the Ridge* fundraising dinner

**Life Membership** -- \$1,500 -- All of the benefits above