

Volume 23, Number 3

# DINOSAUR RIDGE



Ridge Report – Winter 2011

**Friends of Dinosaur Ridge**  
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The mission of the 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 Area National Natural Landmark and to educate the public about these resources.

### Major Contributors:

- \* Rocky Mountain Association of Geologists (RMAG)
- \* Greater Denver Area Gem & Mineral Council
- \* Jeffco Conservation Trust Funds
- \* Scientific & Cultural Facilities District (SCFD)
- \* Golden Civic Foundation
- \* Dan & Mac Turner Estates
- \* Xcel Energy Foundation
- \*Western Interior Paleontological Society (WIPS)



**Scientific & Cultural  
 Facilities District**

*Making It Possible.*

Cover Photo: 18-month-old Aven Bern checks out Dinosaur Footprints at the Hawk Nest site. She and her parents were on a field trip with Association for Women Geoscientists.

# FRIENDS OF DINOSAUR RIDGE 2010

## Executive Committee:

President	Sam Bartlett	Bureau of Recl. (Ret.)
Vice-President	Kathleen McCoy	Lawyer
Secretary	Beth Simmons	MSCD Geo. Instructor
Treasurer	Keith Meakins	Accountant
Norb Cygan	Geologist (Ret.)	
Pete Martin	U.S. Bureau of Reclamation	

## Board of Directors:

Marsha Barber	Science Coordinator Jeffco Schools (Ret.)
Chris Carroll	Colorado Geological Survey
Tim Connors	National Park Service
Harald Drewes	Geologist (Ret.)
DuWayne Ebertowski	Trans. Planner (Ret.)
John Ghist	High School Earth Science Teacher
Jonna Gentry	High School Earth Science Teacher
Martin Lockley	University of Colorado, Denver (Ret.)
Marj MacLachlan	Geologist (Ret.)
Judy Peterson	Paleo Artist
Betty Rall	Geologist (Ret.)
Robert Reynolds	Denver Museum of Nature & Science
Kermit Shields	Geologist (Ret.)
Lou Taylor	Denver Museum of Nature & Science

## Committee Chairs:

Sub Committee Chairs:

### **Beth Simmons**

- Martin Lockley
- Lou Taylor
- Clare Marshall
- Tom Moklestad
- Marsha Barber

### **Kermit Shields**

- Tom Moklestad

### **Clare Marshall**

### **Joe Tempel**

- Pete Martin
- Robert Reynolds
- Keith Meakins

### **Sam Bartlett**

### **Tom Moklestad**

### **Joe Tempel**

## Committees:

Sub Committees:

### **Education**

- Publications
- Curation/Ridge Report Editor
- Exhibits
- Tours, Events, Brochures, Posters, Signs
- K-12 Education

### **Volunteers**

- Community Outreach

### **Membership**

### **Finance**

- Budget
- Investments
- Accounting

### **Preservation & Long Range Planning**

### **Marketing**

### **Development**

## Staff - Friends of Dinosaur Ridge:

Executive Director	Joe Tempel
Programs & Operations Director	Tom Moklestad
Education Programs Coordinator	Erin Fair
Visitor Center Manager	Roger Bennett
Visitor Center Assistant	Barbara Davidson
VC Assistant and Computer Tech	Brian Davidson
Driver/Birthdays/Visitors Center	Bobbi Kilgore
Membership/Exhibits	Clare Marshall
Maintenance	Jack Evans
Program Assistant	Amber Cain
Driver/Visitors Center	Sue Kaberline
Driver	Dan Fanelli
Driver	Thornton Geise
Docent (Sat/Sun)	Merlin Barnes

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*Jake Cringan hefts the sun after a long, cold Dinosaur Discovery Day. He and his brother Robert helped in both setting up and breaking down the canopies and tables for our very snowy Girl Scout and Astronomy Day. They are the sons of Linda Vachalek, a helper in the garden and who works on many special events.*

# MANAGEMENT REPORTS

## PRESIDENT'S MESSAGE

Within the last year or so, there has been a fundamental change in the way that we do business at Dinosaur Ridge. The extremely rapid growth of Dinosaur Ridge has resulted in many of the tasks formerly carried out by volunteers becoming staff responsibilities. I remember when I started out as a volunteer, Karen Hester was the only full-time employee of the Friends of Dinosaur Ridge. Also, there were only three part-time employees, the magnificent Davidsons, managing the gift shop. Now we have at least three fulltime employees, it seems like a full time Executive Director, a hard working Store Manager, and many part-time employees.

With our success, the role of volunteers at Dinosaur Ridge has also fundamentally changed. When I first started at the Ridge, the Friends of Dinosaur Ridge was almost an entirely volunteer run organization. All of the programs and special events were envisioned, planned, organized, set up, manned, and torn down by the volunteers. Now, most of the programs and special events are run from inception by the staff with the help of the volunteers. In fact, we have come so far that Joe Tempel no longer has to mow the weeds prior to every DD day. When setting up for the ever-expanding DD days, the burden of the volunteers have been taken over by the staff.

In spite of this fundamental shift in responsibilities, members and volunteers remain the heart and soul of the Friends of Dinosaur Ridge. We still depend upon the members and volunteers to supply many of the efforts and ideas and to keep Dinosaur Ridge a "World Class" venue.

Over the last year, as a result of growth and changes, the Board of Directors of the Friends of Dinosaur Ridge has realized that we are no longer the functional "doers" at Dinosaur Ridge. Instead, the Board is now the group that must spend more time as thinkers, visionaries for the future, and providers of the policies and guidance for the Executive Director and his staff. To keep up with these fundamental changes, the FODR Board of Directors is in the process of implementing our "Change for Success" initiative. In September the Board voted unanimously to adopt a new operating structure for the FODR Board of Directors and approved the necessary bylaw changes required to implement those structural changes. This vital change in structure will allow the Board of Directors to better concentrate on policy and procedures, better manage change, and pay more attention to the future directions of the Friends of Dinosaur Ridge. As an added bonus, these changes will put the Friends of Dinosaur Ridge in line with the more successful Colorado non-profits in the political realm and better able to compete for ever more scarce funding.

As much as we have changed and will change in the future, we must constantly look back to our roots for guidance and vision for the future. The goal is to meet the challenges of the future successfully while keeping the Friends of Dinosaur Ridge as the organization that we all have come to know and love and the place that we all (volunteers and staff) are passionate about.

— SAM BARTLETT

# MANAGEMENT REPORTS

## PROGRAM DIRECTOR'S REPORT

THIRD QUARTER, 2011

Program	2010	2011	Change
Visitors to Visitor Center	44,396	50,347	+13%
Tours (Total Attendance)*	31,654	32,433	+ 2%
Trek Through Time	17,641	19,482	+10%
Dino Discovery Days-May-Sept	4,150	5,550	+34%
Fireside Chats, Field Trips	177	97	-45%
Traveling Exhibit Visitors	2,200	2,700	+23%
Off Season Exhibits/Events (2)	NA	342	---
Sales (\$)***	\$ 231,673	\$ 267,875	+16%

\* includes attendance for guided school tours, shuttle bus tours, school outreach and "Walk with a Geologist."

\*\* includes receipts from Gift Shop, Shuttle Bus, Trek Through Time, School Tours, Birthday Parties, Walk with a Geologist, Teacher Classes, and Facilities Rental.

Tour attendance is up only 2% in general, despite significant increases at birthday parties, *Walk with a Geologist*, teacher classes, and shuttle bus tours. This is primarily because of a dip in school tours in September. Some schools are cutting back on field trips while others are shifting the teaching of earth science from winter to spring.

Sales are up 16%, with increases by the gift shop, shuttle tours, *Trek Through Time*, birthday parties, *Walk with a Geologist*, teacher classes, and facilities rental.

### DDD – Geocaching, August 13, 2011

The weather was perfect for the 800 visitors who attended. For the first time this season we had no damage to our tents.

Thanks to event partner **Geocaching Colorado** who introduced geocaching to an enthusiastic crowd. Thanks to the **USGS** for loaning us 20 GPS units for the event. **Greg Katz** and a crew of volunteers from the **Lookout Mountain Nature Center** manned their booth at the Dakota Ridge Trail crossing and introduced letterboxing to visitors. We were short volunteers at the visitor center, but **Doris Meakins** (a heretofore retired volunteer), **Ben Geller** (our first driver in

2008 but who now hails from Texas), and **Shawna Saeed-ian** (one of our bookkeepers) helped out. Plus, the new geode-cracking booth brought in \$260. Thanks to **Boy Scout Troop 537** for preparing food for visitors and volunteers. Thanks to **Barb Melby** for representing the event sponsor, **Greater Denver Area Gem and Mineral Council**, and for providing a free mineral specimen to each visiting child.

### DDD – Reading Really Rocks, September 10, 2011

A crowd of 750 enjoyed a beautiful late summer day. Attendance was boosted by a pilgrimage of 250 visitors, who crossed the Ridge and enjoyed the talks on their way to the Mother Cabrini Shrine. Thanks to **Martin Lockley**, representing **Dino Designs**, for conducting a geology and paleontology book sale. Thanks also to **Jennifer Hayden**, children's librarian at the **Arvada Public Library**, for providing dinosaur story time for the youngsters. And thanks to the **Greater Denver Area Gem and Mineral Council** for providing a new free booklet on fossils. It was popular with the visitors, and timely, as this DDD was just a few days before the Denver Gem & Mineral Show. Thanks again to **Boy Scout Troop 537**, who prepared food for visitors and our volunteers. Thanks to our 45 volunteers who worked this event.

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# MANAGEMENT REPORTS

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## Bus Ridership at 64% of Total Capacity in July

In July we scheduled three drivers for seven days a week and attempted to run all three buses on an hourly schedule with 20 minutes of offset between buses. Total riders for July was 5,936 passengers (nearly 200 riders per day), which was an average 64% of capacity. Operating thusly allowed for enough capacity to accommodate large crowds on Saturdays and Sundays, and during random occurrences of high volume. Unseasonably warm weather in the fall required our continuation of running two buses on weekends throughout September and into October, making for a very successful year for the Shuttle Bus Program.

—TOM MOKLESTAD

## DDD – Girl Scout Day/National Fossil Day, October 8, 2011

For DDD-GSA it rained and snowed the night before, let up during set up in the morning, snowed and rained during the event, and then let up during tear down so that the sun was shining by 4 p.m. The Girl Scouts pre-registered 479 scouts and family members, of which 335 attended. Another 78 Girl Scouts showed up at the check-in table. Total attendance, including the general public, was estimated at 600. Both the Gift Shop and *Trek Through Time* did well as visitors ducked indoors to get warm and dry.

Thanks to 88 volunteers, **Women in Mining, Legendary Ladies**, the **National Park Service**, and **Mr. Bones** for showing up and making the best of the situation. Our soaked volunteers came down off of the Ridge at about 12:30, but our very experienced shuttle bus drivers continued the program by taking scouts on bus tours of the bones and tracks sites. Thanks to the **Rocky Mountain Association of Geologists** and the **Association for Women Geoscientists** for sponsoring this soggy event.



*Mr. Bones helped at all six of our Dinosaur Discovery Days this year. He thrilled visitors by making his Allosaurus head pretend to bite the heads off of unsuspecting children. A wonderful, kind, helpful gentleman, Mr. Bones has been a positive attribute to many adventurous summer days.*

# CALENDAR OF EVENTS

## **January 21st-January 29th: National Nuclear Science Week**

Small exhibits in Trek Through Time will include dating the ash layer, uranium in the dinosaur bones, and radon as a geologic hazard.

## **March 21st: Annual Meeting and Volunteer Awards Dinner**

The annual business meeting with election of board members, a presentation of volunteer awards and a short talk will follow dinner. Time and location TBA.

## **May 12th: Dinosaur Discovery Day: Boy Scout Day!**

Geology exhibits and hands-on dinosaur and rockhounding activities at the Visitor Center. Expert guides at stops on the Dinosaur Ridge Trail. Activities suitable for scouts to earn the belt loop, academic pin, or Geology Merit Badge. 9AM-3PM. Scouts must register. Public is welcome.

## **June 9th: Dinosaur Discovery Day: National Get Outdoors Day!**

Geology exhibits and hands-on dinosaur and rockhounding activities at the Visitor Center. Expert guides stationed along the Ridge Trail. Hike at your own pace or take the shuttle bus (\$3, age 4-5 \$1.50, 3 and under free). 10AM-2PM

## **July 14th: Dinosaur Discovery Day: Reptile Day!**

Live reptiles and birds on display and hands-on dinosaur and rockhounding activities at the Visitor Center. Expert guides stationed along the Ridge Trail. Hike free or take the shuttle ((\$3, age 4-5 \$1.50, 3 and under free). 10AM-2PM

## **August 11th: Dinosaur Discovery Day: Geocaching Day!**

Geology Exhibits and hands-on dinosaur and rockhounding activities at the Visitor Center. Expert guides stationed along the Ridge Trail. Hike free or take the shuttle ((\$3, age 4-5 \$1.50, 3 and under free). 10AM-2PM

## **September 8th: Dinosaur Discovery Day: Geologic Hazards and Preparedness!**

For National Preparedness Month learn about hazards, preparedness and response, as well as hands-on dinosaur and rockhounding activities, at the Visitor Center. Expert guides stationed along the Ridge Trail. Hike free or take the shuttle ((\$3, age 4-5 \$1.50, 3 and under free). 10AM-2PM

## **October 13th: Dinosaur Discovery Day: Girl Scout Celebrate National Fossil Day!**

Geology exhibits and hands-on dinosaur rockhounding activities at the Visitor Center. Expert guides stationed along the Ridge Trail. Activities suitable for scouts to earn patches and other awards. 10AM-3PM. Scouts must register. Public is welcome.

# RECENT ACTIVITIES

## THE HONOR GOES TO ...

On the evening of October 20th, I represented the Friends of Dinosaur Ridge at a ceremony for the Scientific and Cultural Facilities District (SCFD) award dispersion ceremony. People from SCFD lined up with papers in hand, and as organization names were announced, representatives stepped forward to receive a check. Each representative went down the line and shook the hands of all the SCFD and county officials, who had kind words for each of us.

As I passed through the line, representatives said (not exact quotes!): “My family just went to Dinosaur Ridge - it was great!” “Thanks for preserving the fossils.” “My son attended Scout Day and got his merit badge.” “Your work is very important.” “Keep up the good work.”

This year SCFD awarded a total of \$40.2 million, of which FODR received its largest grant to date -- **\$84,439.35** (\$28,000 more than in 2010).

All of us earned the check, working together with a common

mission. I was honored to represent FODR, but we all deserve the credit for our work in education and preservation.

The Scientific and Cultural Facilities District, founded in 1988, is funded by a 0.1% sales tax in seven Denver Metro Area counties. Approximately \$40 million is dispersed each year. Tier I groups receive 65.5% of the funds, Tier II, 22% and Tier III 13.5%.

FODR, a Tier III organization, is one of approximately 300 organizations that received funding this year. Many of the Tier III organizations are small music, dance, art, or drama groups. Some, like us, are scientific, environmental, or natural sites or groups. Overall, SCFD has made the Denver metropolitan area a world-class cultural center.

Most of the funds FODR received will help us provide tours of Dinosaur Ridge and Triceratops Trail. Some funds are general operating support, and a portion supports the Arthur Lakes Video that approximately 20 volunteers are currently creating. We are grateful to the taxpayers of the Denver Metro Area and the SCFD administrators for their support.

— CLARE MARSHALL

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## DINOSAUR RIDGE REPRESENTED AT UNIVERSITY OF UC DENVER CEREMONY

FODR was well represented at a significant Signing Ceremony held on October 25, 2011, at the University of Colorado Denver (UCD). The ceremony was a celebration of the completion of a Memorandum of Understanding between the University and the National Research Institute of Cultural Heritage (NRICH), Republic of Korea. The MOU is the beginning of a collaborative project to study Cretaceous track sites in Utah and western Colorado and compare them with Korean track sites, which are all Cretaceous. Dr. Martin Lockley, long-time FODR board member and advisor, will lead the project on behalf of the University.

### Representing the National Research Institute of Cultural Heritage:

Dr. Young-Won Kim, Director, National Research Institute of Cultural Heritage

Dr. Jong-Deock Lim, Chief Curator, National Research

Institute of Cultural Heritage

Dr. Kyung-Soo Kim, Professor, Dept. Science Education, Chonju National University of Education

Mr. Tae-Hyeoung Kim, Researcher National Research Institute of Cultural Heritage

### Representing the University of Colorado Denver:

Dr. Daniel J. Howard, Dean of the College of Liberal Arts and Sciences

Dr. Mary Coussons-Read, Assoc. Vice Chancellor for Research, UCD Anschutz Medical Campus

Dr. Carolyn North, Assoc. Vice Chancellor of the Office of International Affairs

Dr. Laura Argys, Assoc. Dean for Research and Creative Activities, college of Liberal Arts and Sciences

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# RECENT ACTIVITIES

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Dr. Martin Lockley, Director, Dinosaur Tracks Museum

Dr. Karen Houck, Research Professor, Dinosaur Tracks Museum

Ms. Carol Achiger, Grants Development Coordinator, UC Denver

Mr. Chris Casey

In addition to the official representatives of the institutions, others included in the program were Louis Taylor, Brent Breithaupt, and Timothy Connors. Lou, an FODR board member, represented FODR. Tim, who represented the U.S. National Park Service, is an FODR board member and Brent, who represented the U.S. Bureau of Land Management, has been involved in mapping the Dinosaur Ridge track site. He also will be this year's Rock Out For The Ridge auctioneer.

The text of Martin's introductory comments:

It is a great pleasure to welcome Dr. Young-Won Kim and her delegation from the National Research of Cultural Heritage (NRICH) to the University of Colorado Denver on this memorable occasion. I would also like to thank our Korean friends for their initiative in proposing to support a joint project planned for 2012-2014. To commemorate this occasion I would like to take a few minutes to tell you about the long history of collaboration between paleontological researchers from Colorado and Korea. 2012 will be the 30<sup>th</sup> anniversary of the discovery of dinosaur tracks in Korea, and it is the 25<sup>th</sup> anniversary of our first research collaborations. 2012 will also begin with the publication of two special issues, dedicated exclusively Korean fossil dinosaur, pterosaur, and bird footprints, in an international journal with a high science citation index. Dr. Jong-Deock Lim and Dr. Kyung-Soo Kim are important co-contributors this volume, along with colleagues from our Dinosaur Tracks Museum.

In the 1980s the study of dinosaur tracks in Korea and Colorado was still developing, and mostly of local interest. However, moving quickly forward in time we see that things have changed dramatically in recent years. There are now four research groups working on

dinosaur tracks and other fossil footprints in Korea, and collaborating with Colorado researchers. In fact, together our researchers have published about 100 scientific publications in national and international journals. Equally notable are the many sites in Korea that have been turned into national Natural Monuments. These measures are the result of the important conservation work of the National Research Institute of Cultural Heritage. (The acronym NRICH is so appropriate, as it has such significant meaning in English). While Korea has made this great progress, Colorado has also transformed many track sites into National Natural landmarks and other protected areas. These research and conservation activities reached a culmination two years ago when four of the major Korean sites were nominated for World Heritage inscription. It is unprecedented in the history of paleontology to give this level of attention to fossil footprint sites, and we must thank NRICH and Korean researchers for the initiative and hard work in making these historic scientific developments possible.

It is therefore with sincere gratitude that I thank our Korean colleagues for their initiative in proposing to continue these many collaborations on Korean soil with a new project on American soil. Following the traditions of productivity already established I wish these future collaborations great success, and look forward to them with great enthusiasm.

Thank you.



*(L-R) Drs. Martin Lockley, Jong-Deock Lim, Young-Won Kim, Daniel J Howard, and Kyung-Soo Kim at the Korean National Institute of Cultural Heritage and UC Denver MOU Signing Ceremony.*

# COMMITTEE REPORTS

## LONG RANGE PLANNING COMMITTEE

We have received the National Natural Landmark plaque for installation at Triceratops Trail. We will be planning a dedication ceremony for the near future.

The new MOU governing Dinosaur Ridge, especially the roadway, has gone into effect, and the Jefferson County assistant administrator has agreed to start working on a lease agreement between Jefferson County and FODR. She has received input from the county commissioners and is ready to restart negotiations. We received a questionnaire to verify

## PRESERVATION COMMITTEE

In spite of what we see in the movies and on TV, gravity is a basic law of physics that we cannot defy, at least not for long, which explains the rockfall problem on Dinosaur Ridge.

Late last spring we experienced the fall of two desk-sized boulders from the north wall of the road cut through the Ridge. We examined this slope immediately after the rockfalls and determined that there was no imminent danger of additional serious rockfalls. However, we have long been aware that the inconsistent fracture patterns and unfavorable rock structure in this road cut represent a continuing problem

the use and preservation of the Ridge and the future goals of FODR. We will present our responses to Jefferson County Open Space on November 7, 2011.

We look upon this exercise as an opportunity to let the commissioners know our goals and intentions for the Ridge. Also, it is allowing us to put our thoughts and ideas together and to get a head start on a five-year strategic plan for FODR. We also look upon this as a positive experience in that the county officials are truly interested in the long-term health of Dinosaur Ridge.

— SAM BARTLETT

that could lead to potential rockfall issues. We also realized that no amount of scaling would make this slope completely safe and could even lead to further instability and potentially harmful rockfalls. As a result of these realities, and with the concurrence of a consultant, we decided to leave the slope “as-is” for the time being, but to monitor the amount of rockfall at the base of the slope. We also planned to install a split-rail fence, after receiving approval by Jefferson County, along the north side of the roadway to keep pedestrians away from the slope.

This seemed like a reasonable approach until early this fall when we noticed another desk-sized boulder in the same

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*The most recent Dinosaur Ridge rockfall. Right view shows rock perched on ledge. Left view is a close-up of the rock, ready to fall farther down the slope. Photos by Clare Marshall*

# RECENT ACTIVITIES

*Continued from previous page*

place from which the others fell last spring. However, this latest boulder has not fallen down the slope. It remains perched on a narrow shale ledge where it is in imminent danger of falling farther down the slope. As we experience more freeze/thaw cycles this fall, compounded by periodic rain and snow, this boulder surely will fall down the slope and onto the roadway.

Without waiting for this inevitability, **we have instigated several safety precautions to keep visitors and staff away from the immediate area of danger.** We have painted crosswalks to permanently move pedestrian traffic to the south side of the roadway, away from the immediate danger area. At this point, we still need to install more signage to improve the safety of these crossings. We have moved the tour bus travel routes over to the south side of the road and onto the south shoulder to keep visitors out of harm's way. We have also instituted a daily early morning inspection of the rock fall area and the perched boulder to assess the safety of bus operations for the day. In addition, **Mic Muller of Yenter Construction Co.** has reviewed the site. He will offer advice and present a bid for a day's worth of scaling for the north and south slopes of the road cut.

In addition to the rock falls from the north side of the roadway, small rocks are starting to again spall off the south slopes of the road cut. This has not happened since we had this area scaled several years ago as part of the ash bed remediation program. **Hence, both sides of the road cut need immediate attention.**

A long-term safety precaution to mitigate the potential for rockfalls will be to install a series of Jersey barriers along the north side of the roadway to contain the smaller spalls from the north wall. It has also been recommended that we install a chain-link fence on top of the Jersey barrier to trap or slow down the larger blocks that we have seen recently. We will consult with Jefferson County about the danger to the public that this situation imposes. We are hopeful that they will install the Jersey barrier and chain-link fence for us. We hope by the time that you read this article we will have mitigated the safety concerns and operations will be back to normal.

Such is the nature of dealing with steep rock slopes and manmade rock cuts. They require constant vigilance. But even then, there are no guarantees of what Mother Nature has in store.

— SAM BARTLETT

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## DEVELOPMENT COMMITTEE

### **Grants and Donations Received from Organizations and Individuals.**

Web Camera: **Marjorie MacLachlan** donated \$2,000 for the purchase of a web cam. Thank you Marge!

Subsidized School Tours: We received \$1,170 from the **Colorado School of Mines** for **Marsha Barber's** class teaching teachers for the Turner fund for school tours. Thank you Marsha! We received \$2,500 from the **Kinder Morgan Foundation**. We received \$1,000 from **Kermit Shields**. Thank you Kermit!

- Subtotal for School Tours: \$4,670

Jurassic Improvements: \$120 was donated to the **John Kelly Memorial Fund** by a relative of John's. Thank you!

Track Site Improvements: \$9,500 was promised from the **National Park Service**. \$5,000 was earned at the **Silent Auction**.

- Subtotal for Track Site Improvements: \$14,500

### **Undesignated Donations:**

Kermit Shields gave \$1,000. Thanks again, Kermit.

Employee donation checks from **Halliburton Giving Choice** for a total of \$180.

Donation from GivingFirst Foundation for \$100 for services provided. Thanks to **Clare Marshall** and **Tom Moglestad**.

- Grand Total: \$22,570

# COMMITTEE REPORTS

## EDUCATION COMMITTEE, PUBLICATIONS SUBCOMMITTEE

### Arthur Lakes: Discovering Colorado's Dinosaurs Production Continues

The filming of the Arthur Lakes movie is nearly complete. The last major shoot will be the lecture scene on November 9th at Morrison Old Town Hall. The addition of narration has begun. It's unfortunate that in a newsletter you can't hear the sonorous voices of Doug Rouse, Fred Olsen, John Ghist and Richard Kerr. John Townrow will prove to be a perfect Brit with his charming accent and fabulous reading!

— BETH SIMMONS



*The “hammock scene” from the Arthur Lakes movie footage. George Daggett (a.k.a. Arthur Lakes) in the hammock, with David Long (a.k.a. George Cannon) and Jim Budd (a student) on the bedstead. Isn't it cozy? Photo by Marjie Long.*

## VOLUNTEER COMMITTEE

### Volunteer Notes

We have great resources for prospective volunteers, “rookie” volunteers, and even those volunteers who have been around for many years. In September, 23 of you attended our fall training session, which was focused on the Cretaceous (east) side of the Ridge. Thanks for attending. If you were unable to attend, but would like to see the notes and handouts from the session, please let me know. Also, we can provide some digital notes about various Ridge topics, and the FODR library has a lot of good dinosaur books that you are welcome to borrow.

Thanks to all of the volunteers who made our Dinosaur Discovery Days a great success this year. Don't let the bad weather at the October DDD keep you from coming back next spring; we really need that big group of volunteers for those busy Saturdays.

Volunteering your time and your talent is not only good for our guests, you'll find that it is good for you too! Thanks to those of you who volunteered this year and we welcome those of you who want to join us in the future.

### Tour Guide Corner

**Timing is everything:** Timing during our tours is a critical element to them running smoothly. There are many things that can go wrong to derail our timing: late buses, long restroom stops, sick kids, and bad weather, to name a few. However, there are a number of things we do to improve our tours.

At the beginning of each tour, we make sure that all of the guides know the time constraints of the group. Sometimes the bus drivers seem to know those constraints better than the teachers.

When different tours are running on the same day, we have plans to avoid conflicts.

On a multi-guide tour, we make sure that we all agree about when the buses should be moving and when we should be switching groups. For large mega-tours, this timing communication is even more critical.

We assign an adult in the group to be the time-keeper since when we are talking time flies and it is easy to lose track.

With a very limited amount of time for each stop, it is best if we have a few key points to make and leave time for questions.

We have a plan, but we remain flexible.

And, most importantly, we have a good time, even while watching the time.

— KERMIT SHIELDS

# COMMITTEE REPORTS

## MARKETING COMMITTEE

This quarter Dinosaur Ridge placed ads in four local newspapers. The ads ran in special issues for the *USA Pro Cycling Challenge*. DinoSam was featured on the website of the cycling magazine *Velo*. We also advertised in an ad for the Dinosaur Ridge Gift Shop in the *Peak to Peak Guide*, a publication that reaches people from Estes Park to Golden.

Dinosaur Ridge was featured in articles in *Your Hub* in Golden and Lakewood, *City and Mountain Views* magazine, and the *Denver Post*.

The Ridge will be included on 100,000 maps that will be distributed at four Marriott hotels in Golden and Littleton.

Activities with marketing partners included continuing programs with Douglas and Jefferson County libraries, and booths at DDDs by the National Park Service and Lookout Mountain Nature Center.

Volunteers **Karen Eberhardt** and **Cindy Barnes** have worked hard getting Dinosaur Ridge exposure on Channel 8 Lakewood and Channel 8 Arvada. They also are developing hotlinks to various website calendars. **Thanks Karen and Cindy!**

We have had about 177 vouchers from the Groupon.com program redeemed for discounted family memberships, and we now have 632 fans on our Facebook page.

—TOM MOKLESTAD & ERIN FAIR

## DINOSAUR RIDGE GIFT SHOP

Our monthly sales continue to beat the same months of 2010. Of course the number of visitors is starting to drop off, as expected for this time of year. Customers continue to comment on our low prices beating other places they have visited that carry some of the same type of merchandise.

So, if you haven't visited us lately, please check us out. Remember, Christmas is coming and those youngsters really love dinosaurs, dino books, and other related dino items. We also have items that would make great gifts for parents and grandparents. This includes some very fine dinosaur replicas, as well as a real fossil fish from Wyoming. One in particular is a large *Diplomystus* about 15" long, about as long as any found from that area. We also have many fine mineral specimens for the more advanced collector and some beautiful sets of Peruvian butterflies.

If all this doesn't whet your appetite, nothing will.

—ROGER BENNETT

## MEMBERSHIP COMMITTEE

FODR received 74 new and 5 renewal members between September 7 and October 10. Current membership stands at 405.

Members who have provided us with their e-mail addresses received two *E-Tracks!* e-mails in September. If you want to receive up-to-date news via this electronic publication, send your e-mail to Clare Marshall at [dinodiscovery@dinoridge.org](mailto:dinodiscovery@dinoridge.org).

— CLARE MARSHALL

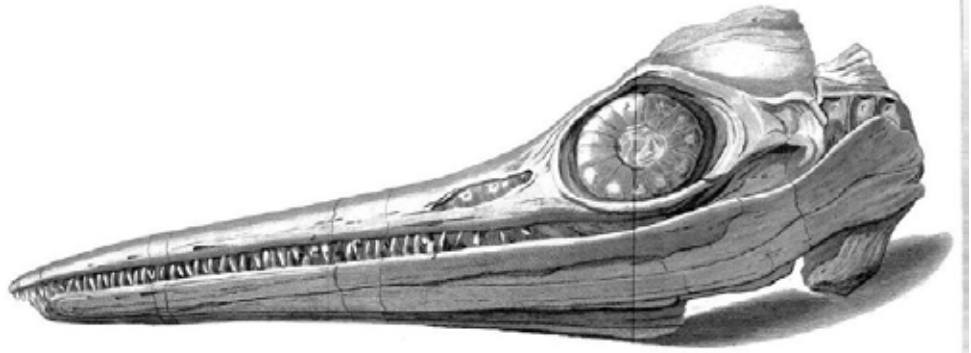


*A Diplomystuys from the Eocene of Wyoming Credit: Ra'ike from Wikipedia commons*

# ARTICLES

## REMARKABLE CREATURES, A BOOK REVIEW

For all of the fossil hunters out there, this book is a real find. But it's also a book of interest for anyone who likes a great story set in a time when paleontology was just getting started, long before women had a place outside the home. Set in the early 1800s on the cliffs of the south coast of England, the book describes how Mary Anning had a gift for finding fossils not only along the beach, but also in the rocks lining the coast. As a child, Mary befriended Elizabeth Philpott, a spinster who had recently moved to Lyme Regis from London. Together they enjoy collecting fossils along the beach and Elizabeth helps protect and represents Mary's greatest find—the large fossilized skull of an unknown animal, which at the time was identified as a crocodile. This most famous fossil is eventually called an ichthyosaur—the first ever found in the world. Ms. Philpott helps Mary get credit for this fossil find with the newly formed Geologic Society of London, which did not allow women members at the time. *Remarkable Creatures* takes the reader on an adventure into the world of fossil hunting, class issues, and friendships.



*Mary Anning's first ichthyosaur skull. Source: Home (1814) via Wikipedia.com*

Editor's Note: Ichthyosaurs were swimming reptiles that lived from about 245 to 90 million years ago. These creatures had a body shape similar to that of porpoises of today. They were collected from the Oxford Clay of southern England, but are also found in Germany, Norway, Argentina, and in the United States and Canada.

Recently, an ichthyosaur embryo was found in the Sundance Formation in Wyoming. The Sundance Formation underlies the Morrison Formation in Wyoming. The Morrison Formation contains the dinosaur bones seen on the west side of Dinosaur Ridge.

— SUBMITTED BY MARSHA BARBER

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## COLORADO GIVES DAY --- DECEMBER 6, 2011 -- 12:00 AM TO 12:00 PM

This is a day set aside for citizens of Colorado to donate to local charities. Friends of Dinosaur Ridge is included in the list of charities.

To donate to FODR go to [www.givingfirst.org](http://www.givingfirst.org) and type in Friends of Dinosaur Ridge in the menu on the left and click on "GO" (see example, top right). This takes you to a page (see example, bottom right) on which you will see our name and the opportunity to click on "Donate Now."

From this point it is like making an online purchase. You simply type in the amount you wish to donate and follow directions.

# COLORING PAGE



**TRICERATOPS**

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