



**President’s Message – Marsha Fogarty**

African Penguin Awareness Day was a lot of fun. Loved the rubber ducky race! I know docents enjoyed working the event. Next, we have **BOO AT THE ZOO!** We never have a dull moment, including while we waited breathlessly for a new baby giraffe. Welcome, little girl! I am also enjoying going back to work as a tour docent and Zoopeteer. One thing I hardly realized I needed to know was how to react appropriately if approached by an influencer or a media person. Rachel Wright, at the IE and TE meetings, provided important information about how to respond appropriately. She also emphasized why we **Do Not** want to spill the beans with new information on zoo animals before the zoo has a chance to send out the appropriate message. The sensitive handling when we recently lost two animals made me realize how important it is to have a well-thought-out message. The zoo handled that beautifully and sensitively. “No comment” IS a comment. We need to say, “I am not the best person to answer this question, let me call the PR Department to speak with you.” They will have information for you.



The November TE Meeting will be when we provide lunch for our wonderful keepers and let them know we appreciate them. In addition—at both the IE and TE meetings—we will be voting on the proposed bylaws’ change to make the Ad Hoc Financial Advisory Committee into a Standing Committee. You have the actual language of the change that was sent to you in October. I will have copies available at the meeting and we will be happy to answer questions. Essentially, we will always want to provide funding for keepers to do special training, go to important meetings, etc. The committee that evaluates these requests needs to be permanent as the need will not go away.

I want to announce that the board also approved a new status that will be added to Rules and Policies—Legacy Docent. A docent who has contributed **significantly** to the Auxiliary may request, or have someone request on their behalf, that the board approve an ongoing exemption to the work requirements based on need. Legacy Docent will be an honor given to docents who have contributed years and many hours of work for the Auxiliary but who are no longer able to meet the demands of an Active Docent. Once approved by the board, the president will send a letter to the docent announcing we are recognizing them as a Legacy Docent. We have members who can still contribute, just not as actively as they once did. We have a docent who now makes popcorn once a month—for several hours. That is a tremendous service, but other docent jobs would be too much now. If you can think of a member who should be conferred the title of Legacy Docent, please let me know who it is with their permission, and I will present it to the board. A person can also nominate themselves to be a Legacy Docent. *(Continued – page 2)*

**DATES TO KNOW**

*Meetings start at 9:30 a.m.*

- Nov 2..... Board Meeting ... Safari Lodge
- Nov 9..... TE Meeting and Staff Lunch
- Lodge at Moose Lake**
- Nov 12.... IE Meeting ..... Safari Lodge
- Nov 16.... Education Mtg. ... Safari Lodge
- Dec 3 ..... Holiday Party at Marie Poyzer’s from 2:00-5:00 pm
- No meetings in December*
- Jan 4 ..... Board Meeting ... Safari Lodge
- Jan 11 ..... TE Meeting ..... Safari Lodge
- Jan 14 ..... IE Meeting ..... **LML**
- Jan 25 ..... Education Mtg ... Safari Lodge

**CECs and Training**

**CECs 9:30 AM in the Safari Lodge**

- Nov 19..... Topic TBA
- Jan 7 ..... Docent Class of 2023 Training begins on Saturdays

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**Vision Statement**

*“ Every Kid, Every Time, Goosebumps! Every kid, of any age, will have an experience for a lifetime with every visit. ”*

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## President's Message – *continued*

It seems like the Auxiliary is really getting back to a more normal schedule. The schools are contacting us for tours and safaris, and for Zoopeteers. Special events are happening, Zoom is putting in lots of hours. We all can be glad to be back at our happy place. Continue the good work and be kind to each other and to the busy staff at the zoo!

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## Marsha

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### Monthly Program Information

#### IE Meeting on November 12 – Safari Lodge

We will meet in Safari Lodge to begin our meeting. First, we'll have announcements and some social time with coffee and snacks. After that, Pat Urban, our IE Program Chair, put together our first on-grounds field trip of the year. Have you ever wondered how the hippo and penguin pools are supplied with the wonderful water they need to survive? We will divide into two groups and head to Water's Edge: Africa. Since space is limited, one group will head to the basement for the tour. The second group will share water conservation messages that are important to pass on to our guests. At the midway point, the groups will rotate. Hopefully, weather permitting, we'll be able to talk about these conservation points near the hippo statues. If not, we'll choose an inside space on the day of the meeting. Travis Snyder and the maintenance team will show us how the pools are supplied and maintained. They will guide us through an amazing complex of pumps, valves, pipes, and gadgets. They'll enlighten us about water conservation techniques and give us some great info to share with guests. Don't miss this exciting on-grounds field trip to one of those unseen areas that are so important to our Zoo on the mountain.

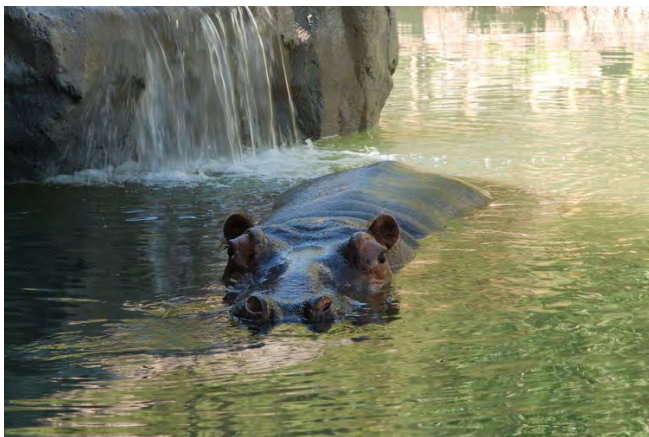


Photo courtesy of CMZ website

Charlotte Greene, IE Chair, and Your IE Team  
(Pat U., Pat D., Ann Marie, Linnea, Vickie P.,  
Anne W., Doris, and Joan)

#### TE Meeting on November 9 – Lodge at Moose Lake

The November 9 TE meeting is the **annual staff luncheon**. I hope you will come and celebrate Cheyenne Mountain Zoo's amazing staff. The meeting will begin at 9:30 am **in the Lodge at Moose Lake** with our speaker being Jeff Baughman from the Conservation Barn. He will be speaking on the latest about black-footed ferrets and Wyoming toads. Jeff Halter will also be there to give an animal update. The staff will begin trickling in around 11:00 am with the bulk coming around 12:15 pm. I hope you will attend and spend some time with our incredible staff. A good time will be had by all!

*Jeanie Baratono, President-Elect*

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#### CEC Corner

October was a flurry of activity for continuing education, as we wrapped up the Fall Recall and held the Colorado Life Zones and Zoogeography classroom CEC refreshers. There were 60 people or so who attended the CLZ refresher and 24 TEs who certified on the CLZ tour/safari. Nearly 30 people signed up for Zoogeography, with 10 certifying on the ZG tour/safari. Everyone did a great job. We've noted that three hours is a bit long for a CEC and will make adjustments for future sessions. The in-class activity was a big hit—a team-building exercise and refresher rolled into one.

Just a reminder that both the CLZ and ZG tours and safaris were both revised this summer: you can copy the latest tour and safari information from the DRC computer to a USB drive. These have been emailed out to everyone who is currently certified.

A big, big shout-out to our refresher presenters: Marianne Brooks, Cate Kelly, Nancy Hochman, Jean McKanna, and Mac McPherson. A super shout-out to some of the newer docents who were brought in as ringers for Zoogeography: Rylee Fortenberry, Barb Haldorson, Madalyn Kae, Shauna Naous, and Michael Stein. They really helped instill confidence that anyone can (and should!) lead this tour. If you missed the Zoogeography CEC, we will be holding another on Wednesday, February 15; the signup is available now, so grab your seat. Huge thanks to the IE docents who attended and all the seasoned docents who lent their expertise to the folks who certified.

The Education Committee has resolved that tour refresher CECs will be held on Wednesdays and Saturdays to accommodate as many TEs as possible. The general CECs are to be held on Saturdays only.

I am reading *The Cougar Conundrum: Sharing the World with a Successful Predator*, by Mark Elbroch.



We have lions in the Americas—the most successful large carnivore in the western hemisphere! Elbroch demolishes myths about our backyard lion and presents a fascinating vision for co-existing with mountain lions, pumas, cougars—whatever you choose to call them.

See you at the November 19 CEC class—an experience for all, not a tour refresher. This CEC will test your knowledge of our zoo and our animals in a unique team-building exercise. Look for the signup coming soon!

Always be learning,  
*Cris Stoddard, CEC Chair*

### November Enrichment

We're making more cannolis for RMW! The keepers thought more animals would like that.

A special thank you to Ellie Solomon, JoAnne Warren, and Linnea McDonald for helping with cannolis last month. We have a saint among us! JoAnne Warren not only brought in bags of peanuts; she also brought in Cheerios, pasta, and fruit!!!



We'll be making cannolis after the IE meeting on Saturday, Nov. 12. Let me know if you would like to help. Keep saving those paper towel rolls!! I'll have a bag to collect them at the TE and IE meetings.

*Jean Bennett, Enrichment Chair*

### 2023 Training Manual Orders

I will be taking orders for the 2023 Docent Training Manual in November at the Board meeting, the TE meeting, and the IE meeting.

The manuals cost \$15.00. Please have the correct change or a check made out to CMZ when you sign up. You may also contact me if you are unable to be at any of the November meetings at [mmbrooks1988@gmail.com](mailto:mmbrooks1988@gmail.com). Thank you!

*Marianne Brooks, 1st VP*

### Cart Coordinator Updates

A question was recently brought to my attention concerning docents using biofacts within view of our CMZoo animals. I was fortunate to have had Ashley Arimborgo, Animal Department Registrar, coordinate the inputs from the lead animal keepers. The keepers reviewed the current listing of cart biofacts and provided input as to whether biofacts can be displayed within view of their animals.

### For guest perception, do not present or show any biofact directly TO any animal at any time!

All docents should be aware that certain biofacts that are currently located in our carts may cause a negative response from some of our animals. *The biofacts listed below are not to be used in visual proximity to any animal:*

#### Lion Kit (DRC)

Item	OK in front of exhibit?
CMZ-13-001, African Lion Pelt–male	<b>NO</b>

#### Primate World

Item	OK in front of exhibit?
97-151, Orangutan Skull–female	<b>NO</b>
CMZ-105, Lion-tailed Macaque Skull	<b>NO</b>
CMZ-13-011, Golden Lion Tamarin Pelt	<b>NO</b>
D-024, Human Skull (clone)	<b>NO</b>
D-131, Gorilla Skull–male	<b>NO</b>
D-132, Gorilla Skull–female	<b>NO</b>
D-187, African Mole-Rat Skull	<b>NO</b>
D-194, Golden-headed Tamarin Skull	<b>NO</b>
D-206, Siamang Skull	<b>NO</b>
D-211, Orangutan Borneo Skull–male	<b>NO</b>
D-212, Orangutan Sumatra Skull–male	<b>NO</b>

#### Giraffes

Item	OK in front of exhibit?
95-020, Giraffe Pelt piece	<b>Maybe –</b> <b>YES, if small (less than 4'x4')</b> <b>NO (if large, watch for giraffe response)</b>

If you have any questions regarding the display of any biofact, please don't hesitate to contact me at (719) 237-1927 or [norwich1977@comcast.net](mailto:norwich1977@comcast.net).

I am pleased to announce you all have been diligent in the protection of our pelts! Please remember all pelts are to be folded with the fur side in and the skin side out, as best you can. This is to protect the pelt biofact for future use and it increases its lifespan.

When you sign in for cart IE hours, please be sure your name is legible and that you use the name you listed in the Docent Directory. I have had some instances where the name was illegible, or the docent used a different iteration of their name. I had to go to the biofact sign-out sheet to find out who the person was who signed in or I guessed! So far, I have been lucky in figuring out who recorded their hours. Also, please make sure your hours are clearly entered so you get the proper credit.

Please remember to only write your name once for each sheet per month (once for days 1-15 and once for days 16-30/31). In addition, if you are working Penguins & Pelicans, **DO NOT** sign in using the Water's Edge; Africa book. The Penguins & Pelicans exhibit has its own dedicated book to record hours.

An updated Biofact Usage Form will soon replace the old form, removing the words "Removed from Cart Yes/No," which are not necessary. This should make the form more effective and accurate and easier to use. See Attachment 1 for a view of the new form.

As always, if you have any questions or concerns, please feel free to reach out to me. Thank you again for all your support and see you at the Zoo!

*Michael Stein, Cart Coordinator*  
(719) 237-1927 [norwich1977@comcast.net](mailto:norwich1977@comcast.net)

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## **AZADV CONFERENCE 2022**

*Enjoy, inspire, educate, act*

After a two-year hiatus, the annual AZADV Conference was held in Toledo, Ohio. Cheyenne Mountain Zoo was well represented, including several docents and two delegates (see photo below). Hospitality provided by the group from Toledo Zoo & Aquarium did not disappoint.

The three-day event included a delegate meeting, photo contest, silent auction, a variety of educational talks, a scavenger hunt, and a visit to their wonderful zoo. If you were lucky enough to win from a drawing at the Icebreaker, you got to participate in a "behind-the-scenes" access! Optional pre- and post-conference trips to the Detroit Zoo, the Cleveland Metroparks Zoo, and the Columbus Zoo were offered.



*Left to right: Ron and Ellie Solomon, Nancy Hochman, Barbara Kalbli, Charlotte Greene and Marianne Brooks*

Keynote speaker, Dr. Matt Cross, provided valuable information on the Sturgeon Reintroduction Program on the Maumee River. Attendees had the opportunity to participate in a sturgeon release the following morning.

Minutes from the delegate meeting indicate the challenges that AZADV is facing. An officer reported that there are currently 853 members, 50 active organizations, and 20 organizations that have yet to renew. Since the pandemic, membership has seen a steady decline. If you are not already a member, please consider supporting this worthwhile organization. Yearly dues include a quarterly newsletter (Symbiosis), a reciprocal admissions program to many zoos and aquariums, and educational articles submitted by industry professionals. AZADV can be found online at [www.azadv.org](http://www.azadv.org).

Next year's meeting will be hosted by the Oklahoma City Zoo. This will be the first meeting that is totally planned and managed by the AZADV Planning Committee. At this time, a location for the 2024 Conference is being sought.

By far, the most rewarding aspect was visiting with other docents from across the United States. CMZ is widely recognized and respected for our mission. Very few folks have the opportunities we experience. I realize just how lucky we are to have the support of CMZ leadership and each other!

*Barbara Kalbli, Past President*

Note: Please enjoy the following photos from our trip!



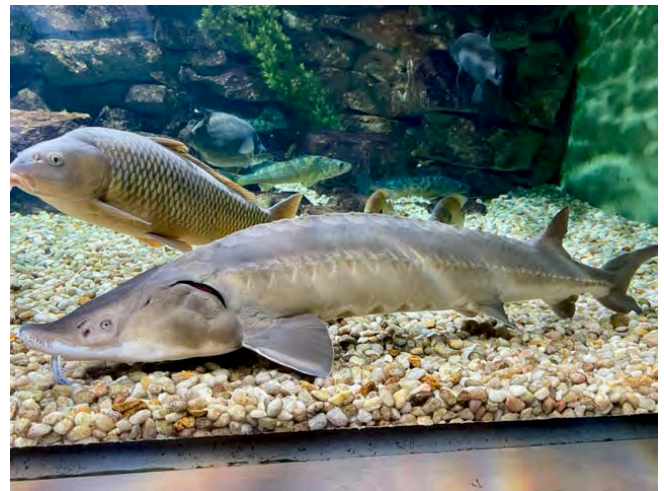
*An alligator turtle at the Toledo Zoo  
(photo credit, Barbara Kalbli)*



*Barbara Kalbli with an Epaulette shark at the Toledo Zoo  
(photo credit, Marianne Brooks)*



*An electric eel at the Toledo Zoo  
(photo credit, Barbara Kalbli)*



*A sturgeon at the Toledo Zoo — the Toledo Zoo conducts surgeon releases each year (photo credit, Marianne Brooks)*



*A dromedary camel at the Toledo Zoo  
(photo credit, Barbara Kalbli)*



*Barbara and a dromedary camel  
(photo credit, Marianne Brooks)*

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## November Bookshelf

Excerpt from *The Rise and Reign of the Mammals* by Steve Brusatte. *A sweeping and revelatory history of mammals, illuminating the lost story of the extraordinary family tree that led to us.*



"The first Paleocene rocks present a dire scene. There is a fossil locality dated to approximately 25,000 years after the asteroid hit, called the z-line quarry. It reeks of death. Not only are all the dinosaurs gone, but most of the mammals are, too. There are only seven species, all of them represented by tiny teeth that you need a microscope to see properly. Three of them one multituberculate and one eutherian are exceptionally common. They are 'disaster' species. They are the types of animals that revel in chaos, the mammalian equivalents of cockroaches that prosper in the darkness and filth. These three mammals or their immediate ancestors were all survivors, which managed to endure the heat pulse, the wildfires and scalding rains, the nuclear winter and global warming. They carried the torch of mammalness through the long night of the end-Cretaceous extinction. But make no mistake, their proliferation in the earliest Paleocene was not a sign of recovery. It was a sign that ecosystems were unhealthy and unbalanced.

Several other fossil sites in Montana reveal what was happening during the next 100,000 to 200,000 years. It is only by observing this broader span that we can appreciate the true destruction of the asteroid. If you pull together all the mammal fossils from this time, there are 23 species. Nine of those are multituberculates, meaning they suffered a modest extinction. Only one, however, is a metatherian: these marsupial line mammals, so abundant and diverse in the Cretaceous, were very nearly wiped out, saved locally by one single species that managed to hold on. Taking their place were eutherians: these previously marginal placental-line mammals increased from their Cretaceous roster of eight species to 13 in the earliest Paleocene.

One of these Paleocene eutherians would have been our ancestor. Maybe it was one of the Montana species, or maybe it was living elsewhere.

All told, if you compare the Cretaceous and the Paleocene mammals of Montana, the numbers are grim. Three out of every four species living in the latest Cretaceous disappeared, either failing to make it through the environmental destruction themselves or failing to leave any descendants. If you consider all Cretaceous and Paleocene fossil sites from Western North America, the statistics get worse. A mere 7% of mammal species survived. This number is even more

devastating than it seems because it takes into account migrants.

This begs the question: what allowed some mammals to endure? The answer is apparent when looking at the victims and survivors. The Paleocene survivors were smaller than most of the Cretaceous mammals, and their teeth indicate they had a generalist, omnivorous diet. The victims, on the other hand, were larger species with more specialist carnivorous or herbivorous diets. They were supremely adapted to the latest Cretaceous world, but when the asteroid threw everything into anarchy, these adaptations became handicaps. The smaller generalists, however, were able to take advantage of their flexible palette to eat whatever was on offer, probably a little more than seeds, decaying vegetation, and rotting flesh. It also seems like species that lived across broader areas in the Cretaceous, and which were more abundant in their ecosystems, had a better chance of survival."

Steve Brusatte, PhD, is an American paleontologist who teaches at the University of Edinburgh, in Scotland. He is the author of the international bestseller *The Rise and Fall of the Dinosaurs*. The paleontology advisor on the Jurassic World film franchise, Brusatte has named more than fifteen new species, including the tyrannosaur "Pinocchio rex" (*Qianzhousaurus*), the raptor *Zhenyuanlong*, and several ancient mammals. His research and writing have been featured in *Science*, the *New York Times*, *Scientific American*, and many other publications.

*Torrie Smith, Docent*

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## Corral Bluffs Field Trip

Fifteen docents and friends (see photos below) braved the wind and tumbleweeds at Corral Bluffs on Sunday, October 23. The four-mile hike and tour took the group through the park, which is only open to the public with a tour guide. We learned how to spot concretions that might have a fossil and the many ways scientists date fossils.

*Kathleen O'Donnell, Field Trip Coordinator*





Concretions, which might have a fossil  
(photo credit, Diane Brewner)



Leaf fossil (photo credit, Diane Brewner)



Palm frond fossil (photo credit, Diane Brewner)

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### Articles and Information of Interest

- **Message from Diane Brewner:** It is the season to have our thermostats set for heat. I know we may still have some days when it will feel warm in the DRC but please leave the thermostat alone. The last thing we need to happen is frozen or broken pipes. I was at the DRC on October 24 and noticed an open window. If you open windows, please make sure you close them. Thank you!
- 9 local animals that “don’t belong” in Colorado: <https://bit.ly/3TsWrln>
- The 9 weirdest animals found around Colorado: <https://bit.ly/3zc9XBR>
- How animal hybrids happen, from ligers to zorses: <https://on.natgeo.com/3TMEKgl> (note: you may need to enter your email address to view this article – National Geographic allows visitors to view three free articles per month)
- March of the Flamingos: <https://bit.ly/3VOMTrr>
- These Trees Are Spreading North in Alaska. That’s Not Good: <https://bit.ly/3WflKcq>

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### CMZA Zooline Information

Please send all submissions – information, articles, pictures, etc. to:

[cmza.zooline@yahoo.com](mailto:cmza.zooline@yahoo.com).

**Tuesday, November 22** is the deadline for the December issue. Thank you!



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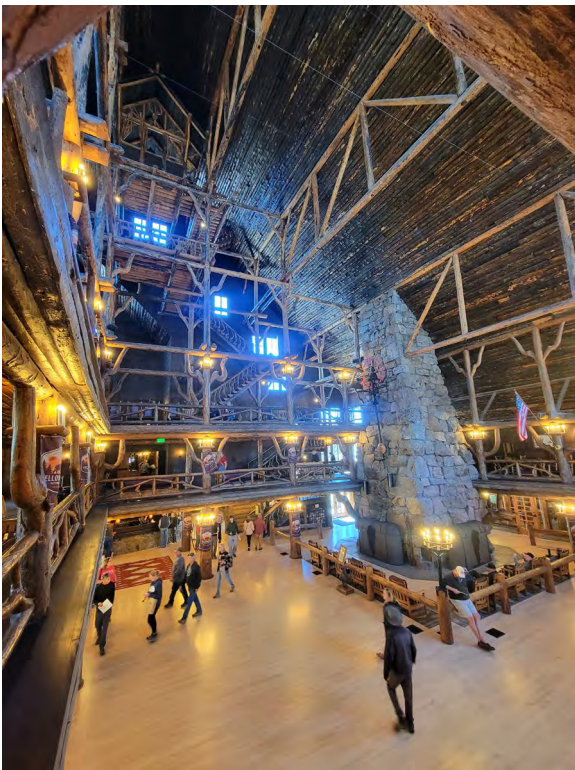
**Pictures from Docent Yellowstone Field Trip**



*"Bobby-sox" trees; dead trees absorbing minerals from the bottom up at Fountain Paint Pots (photo credit, Jim Hunter)*



*Old Faithful Geyser erupting (photo credit, Jim Hunter)*



*Interior of Old Faithful Inn (photo credit, Jim Hunter)*



*Wolf at Grizzly and Wolf Discovery Center, West Yellowstone, MT (photo credit, Jim Hunter)*





*Rim of the Upper Falls, Grand Canyon of the Yellowstone  
(photo credit, Jim Hunter)*



*Lower Falls, Grand Canyon of the Yellowstone  
(photo credit, Jim Hunter)*



*Lower Falls, Grand Canyon of the Yellowstone – taken at  
Artist's Point (photo credit, Jim Hunter)*



*Opal Pool in the Midway Geyser Basin  
(photo credit, Jim Hunter)*



*Elk resting on Palette Hot Spring  
(photo credit, Linnea McDonald)*

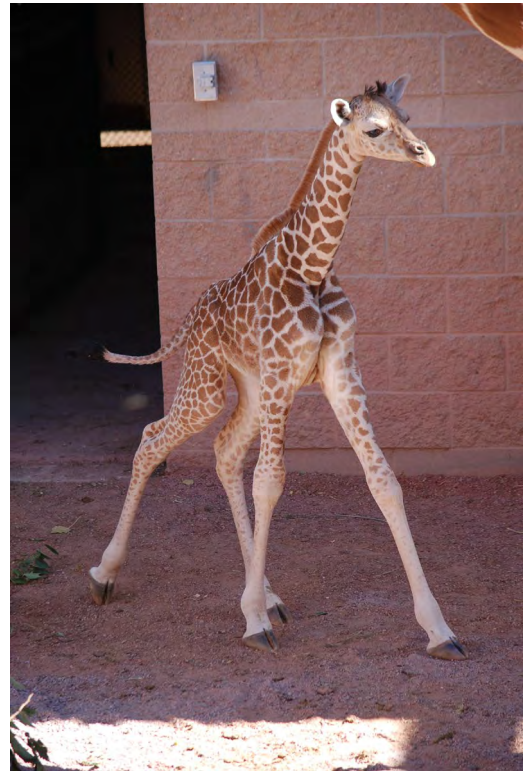


*Yellowstone Grizzly enrichment  
(photo credit, Linnea McDonald)*

### **Pictures from CMZ**



*Hubble in training (photo credit, Susan Hoxie)*



*Bailey's new baby on her second day outside  
(photo credit, Susan Hoxie)*



*Bailey and her new baby on her second day outside  
(photo credit, Susan Hoxie)*



*Zucchini and Acorn, our new beavers  
(photo credit, Susan Hoxie)*



*Diego the Degu (photo credit, Alia Cooper)*



*Padfoot the skunk (photo credit, Alia Cooper)*



*Omo and Zambezi (photo credit, Susan Hoxie)*

