

President's Message

By: Sandy Flynn, President

Greetings Docents,

I hope all of you have enjoyed time at the zoo during this unseasonably warm weather. I've attached some updates and information from around the zoo and within our auxiliary.

Making Waves Update:

The estimate for the Making Waves campaign came in quite a bit above what the zoo had hoped for. The project will be downsized and redesigned and hopefully come in at a reasonable price. Making Waves will still be a world class project, but it will be somewhat changed from what was originally proposed.

Some of the changes are as follows. There will be no below grade hippo viewing, and nothing, not even the basement, of the old aquatics building will be saved. Demolition will start soon, but construction will probably be delayed for several months.

There will be views at eye level with the hippos when they are in the water. Instead of separate buildings for the hippos and penguins, there will be one building separated by a wall.

Stay tuned for more updates!!

Meet your Board of Directors:

Joan Adkins has taken on the role of DRC/Library Chair. This is Joan's second year as DRC Chair and her accomplishments are many. Some of those include:

- Remove wallpaper in bathroom, paint all surfaces and redo all baseboards
- New heavy duty carpet
- New kitchen faucet
- Replace front and back doors
- New ceiling fan
- New covers for computer and copier and new valances for windows
- We now have WiFi and internet in the DRC

There are many other renovations but these are the highlights.

Joan loves the zoo and says it always makes her smile. She is retiring March 1, 2017. She was a nurse at Penrose hospital for 41 years. She and her son would come to the zoo to walk and for exercise. One day she stopped Glenn and asked what a docent does. The rest is history!!

Ann Marie Jackson is the IE chair for this year. In this role Ann Marie presides at all IE meetings and ensures that IE needs are being met.

Ann Marie grew up in Ohio loving animals and considered becoming a zookeeper at a very young age, however Ann Marie is very creative and became an interior designer instead. She was a docent at Potter Park Zoo in Lansing, Michigan for seven years prior to moving to Colorado. And then, after living in Ft. Collins for a while, she and her husband relocated to Colorado Springs. Ann Marie looked into becoming a docent at Cheyenne Mountain Zoo even before relocating.

She loves our zoo and loves sharing her love of animals with others and introducing new animals or facts to our guests. She's also a Zoom docent and enjoys seeing people shed their fears by approaching a snake or tarantula for the first time. In her free time, Ann Marie does water color painting and has donated some of her pieces to Art on the Hoof.

Did you know?

Guest admissions for October were 76,732, thanks to unseasonably warm weather and Boo at the Zoo. That number is 15,000 more than last October (25% more). Year to date attendance is 1,800 higher than last year.

The attendance drove giraffe lettuce sales, carousel rides, the tram and concessions revenue higher than budget. QFC revenue also exceeded budget.

The Sky Ride brought in nearly \$40,000 this month, \$8,400 more than last October.

Auxiliary report to the CMZ Board of Directors:

Our numbers:

1. The total hours docents have contributed from June 1 to October 31, are 5,518 and include a combination of service hours and volunteer hours.

- Service hours are interactions with guests and volunteer hours are behind the scenes hours.
- 2. We were budgeted to generate \$26,000 revenue dollars this year for the zoo. To date we have generated \$37,359 which is \$11,359 over expected revenue with only 5 months into the year. I'm guessing we will double that number.
- 3. Our revenue came from tours and we've completed 25 tours so far this year.
- 4. We begin each year with a \$6500 budget from the zoo for operating expenses. We currently have \$4300 in that account. At the end of October, we had \$26,129 in our restricted account. Most money in this account is generated through King Soopers and Safeway cards.

The Financial Advisory Committee was featured at the board meeting and all members were impressed with the financial donations we have made to zoo staff and projects. I explained that the committee was set up in 2014 to recommend grants to zoo employees for education needs and to help the zoo with unbudgeted items they needed throughout the year.

Since 2014, the auxiliary has approved a total of \$17,569, in the form of grants to CMZ employees. Grants have ranged from \$250 to \$1000. Although most of the grants have gone to our zookeepers, we have also awarded some to Education, Veterinary and Guest Services. Almost all funds are used to support employees attending events such as workshops, AAZK conferences, field trips to Africa and other countries as well as care management workshops.

Our latest grant was for \$500 to support Dr. Liza's two projects on giraffe hoof care and stem cell therapy for giraffes. Many of our docents also contributed to this very worthwhile project individually.

Once again, the board asked me to thank all of you for the fantastic work we are doing to contribute to the zoo's success. .Happy trails around the zoo!!!!

Sandy Flynn

2016–2017 CMZ Auxiliary Calendar

Meeting Times are 9:30 AM

Training Times are 9:00 AM - 4:00 PM approximately Education Committee Meetings are held the 4th Wednesday every month at 930 in Safari Lodge Bolded items - date or location has been changed

Dec 2014

No meetings

Holiday Party 2-5PM Marie Poyzer

Jan 2017

Safari Lodge **Board Meeting**

14	TE Meeting IE Meeting	Safari Lodge Library
14	Training Begins	Safari Lodge
21	Training	Safari Lodge
28	Training	Safari Lodge

SOCIAL EVENTS **HOLIDAY PARTY**

Our Holiday Party will be held on Saturday, December 3, from 2:00-5:00 P.M. at Marie Poyzer's home.

We are asking those attending to bring either dessert or appetizer to share. Coffee, cider, and water will be provided, please BYOB for any alcoholic beverages.

DIRECTIONS TO 541 VISTA GRANDE DR. FROM SOUTHBOUND I-25...

Take exit 141 (Hwy 24 and Cimarron)

L at the light – Cimarron St (Hwy 24)

Follow Cimarron west bound for 1.5 miles to 21st St. then L on 21st St.

FROM 21st ST. AND CIMMARON (HWY 24)

Turn South (toward zoo)

R at 4th light (Argus) about 1.5 miles

Pass entrance to Bear Creek Park

Come to T intersection (Orion)

R on Orion-go up a hill and over 2 large speed bumps

Vista Grande is the 4th left after the 2nd speed bump-about 1 mile from Argus and 21st

L on Vista Grande

541 is the 6th mailbox on the left, it is a flag lot with a 300 ft. driveway, but an easy walk

Look for balloons on the mailbox

In case you can't find it call: 576-2664

Deana and Gayle

January Programs

IE Program: To be announced.

TE Program: We will have a speaker from the Colorado

Division of Parks and Wildlife.

2017 TRAINING SCHEDULE

Morning teaching session = 1 CEC Afternoon teaching session = 1 CEC

Session 1 January 14, 2107

9:00 - 9:30- Introductions: Sandy Flynn (President of CMZ Auxiliary) Stacey Graham (Director of EdVenture)

9:30 – 10:00 - Overview of docent training

10:00 - 10:55- Manuals, Requirements (Nancy Hochman)

10:55 - 11:10- Break

11:10 – 12:00 –History of the Zoo (Kaiti Poehlmann)

12:00 - 12:30- Sack Lunch, sign up for treats, Q &A,

Information, Announcements (Susan & Sue)

12:30 - 1:30- Teaching Session-

Evolution/Taxonomy (Nancy Hochman)

1:30 - 1:45- Break

1:45 - 2:45 Teaching Session – Basic Mammology	1:25 – 2:10 - Teaching Session – Characteristics of			
(Nancy Hochman)	Mustelidae and Mephitidae (Nona			
2:45 – 3:30 Practical Application Regarding Mammal Information – Visit lions &	Hentschel) 2:10 - 2:20 Break			
giraffes (Susan, Sue & Nancy)	2:20 - 2:40 - Teaching Session -Characteristics of			
3:30 - Hand out review sheets, information	Procyonidae & Herpestidae (Nona			
for next week, etc.	Hentschel)			
G	2:40 – 3:50 - ARV Safari and tour overview, Baobab			
Session 2 January 21, 2017	Tree, Maasai, difference between ARV and AM tours (Marie Poyzer)			
9:00 – 9:15 - Information, Announcements, Hand in	3:55 - Hand out review sheets			
Review sheets	Session 5 February 11, 2017			
9:15 – 10:15 - Teaching Session – Adaptations &				
Niche (Nancy Hochman)	9:00 – 9:20 - Information, announcements, review			
10:15 – 10:30 - Break 10:30 – 11:15- Teaching Session – Ungulate	sheets, collect uniform orders 9:30 – 10:00 - Keeper talk at monkey house			
characteristics (Jean McKanna)	10:15 – 10:45 - Teaching Session – Characteristics of			
11:30 – 12:00- Keeper – Giraffes	Primates (Glenn Carson)			
12:00 – 12:30 - Lunch	10:45 - 11:20 - Teaching Session - Characteristics of			
	Prosimii, Callitrichidae (Dennis			
12:30 – 1:30 Teaching Session –	Akkola) 11:20 - 11:50 - Lunch			
Artiodactyl/Perissodactyl /Elephants (Jean McKanna) 1:30 – 1:45 - Break	11:20 - 11:30 - Lunch			
1:45 – 2:45 - Overview of AM safari and tour,				
certification for AM & AMS (Dona McBride)	11:50 – 12:35 - Teaching Session – Characteristics of			
2:45 - 3:15 - Practice AM tour (get to elephant barn by	Old World and New World Monkeys			
3:15)	(Art Schwall)			
3:15 – 3:45 - Visit Elephant Barn 3:45 - Hand out review sheets	12:35–12:50 - Break 12:50 – 1:50 - Teaching Session – Characteristics of			
5.45 - Hand Out Teview sheets	Lesser and Greater Apes (Art Schwall)			
Session 3 January 28, 2017	1:50 – 2:05 - Break,			
	2:05 – 2:45 - Preliminaries to tours and safaris			
9:00 – 9:45 Loft (Dennis Akkola)-	(contacting teacher, tour chair, calling			
10:00 -10:15 Information, questions, hand in review sheets 10:15 - 11:05 - Teaching Session - Introduction to	docents if you are tour chair, etc.) (Becky Poole)			
Carnivora (Judy De Groot)	2:45 – 3:45 - Panel discussion with experienced docents.			
11:05 - 11:20 - Break	(Glenn Carson + 2)			
11:20 – 12:00- Keeper – Lions	3:45 Hand out review sheets			
12:00 – 12:30 - Lunch	Session 6 February 18, 2017			
	· · · · · · · · · · · · · · · · · · ·			
12:30 - 1:10 - Teaching Session – Characteristics of	9:00 – 9:15 - Information, Announcements, etc.			
Felines (Dawn Brizendine) 1:10 – 1:25 -Break	9:15 – 10:15 - Teaching Session – Ecology			
1:10 – 1:25 - Break 1:25 – 2:25 - Teaching Session – Characteristics of	vocabulary, definitions, biomes, ECO systems, CMZ ECO Environments,			
Canids and Ursus (Jeannie Phillips)	Human Ecosystems (Nancy Hochman)			
2:25 – 2:55 - Introduction to Carts (Don Heinz)	10:15 – 10:30 - Break			
2:55 – 3:10 - Break	10:30 – 11:30- Teaching Session – Ecology Concepts			
3:10-3:45 - Cart talks, demo of cart presentation to	(Nancy Hochman)			
guest (Sue Mayher) 3:45 – 4:00 - Uniform Information (Sue Switzer) &	11:30 – 11:45 - Break 11:45 – 12:15 - Teaching Session – Food Chain and Food			
hand out review sheets				
	Webs (Nancy Hochman) 12:15 – 12:45 - Lunch			
Session 4 February 4, 2017	Webs (Nancy Hochman) 12:15 – 12:45 - Lunch ====================================			
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Session 4 February 4, 2017 9:00 - Meet mentors at the Lodge at Moose Lake for joint	Webs (Nancy Hochman) 12:15 – 12:45 - Lunch ===================================			
Session 4 February 4, 2017 9:00 - Meet mentors at the Lodge at Moose Lake for joint TE/IE meeting and potluck	Webs (Nancy Hochman) 12:15 – 12:45 – Lunch ===================================			
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3:10 - 3:30	Teaching Session – Characteristics /				
3:30 -	ecology of Marsupials(Don Heinz) Hand out review sheets				
Session 7 February 25, 2017					
9:00 – 9:15	- Information, announcements, etc.				
9:15 – 10:10	- Teaching Session – Physiological Systems (Patsy McAteer)				
10:10 - 10:25 10:25 - 11:10-7	- Break Feaching Session – Characteristics/Ecology				
11:10 – 11:55	of Invertebrates (Ron Capen) - Teaching Session – Characteristics/Ecology of Fish (Susie				
11:55 – 1:00	Potterat) - Brown Bag Lunch & Sign up for safaris –				
1:00 – 1:50	Teaching session –Ecology of Birds (Jean McKanna)				
2:00-2:40	- Keeper – Hornbill visit				
2:40 - 2:50 2:50 - 3:45	- Break - Sign up for tours				
3:45	- Hand out review sheets				
Session 8 Mare	ch 4, 2017				
9:00 – 9:15	- Information, announcements, etc.				
9:15 – 10:05	-Teaching Session – Characteristics/ Ecology of Amphibians and Reptiles (Pat Gray)				
10:05 - 10:20	- Break				
10:20 – 10:45	Zoom (Pat Gray) and Zoopeteers (Marie Poyzer)				
11:00 - 11:30	- Keeper talk at Primate World				
11:45 - 12:35	- Teaching Session - Ecology of				
12:35 – 1:10	Primates (Ron Capen) - Lunch (photos for directory)				
1:10 – 2:05 - Te	eaching Session – Ecology of Ungulates (Jean McKanna)				
2:05 - 2:20 - B					
2:20 – 3:00 - Ec	cology safari & overview of ECO, differences between AM & ECO (Jeanie Baratono)				
3:00 - 3:40 - Ke	eeper talk - Gorillas				
3:40 -	Hand out review sheets				
Session 9 March 11, 2017					
9:00 – 9:15 9:15 – 10:25	Information, Announcements, etc Teaching Session – Ecology of Canidae (AnnMarie Jackson)				
10:25 - 10:40	- Break				
10:40 – 11:55	- Teaching Session – Ecology of Small Mammals (Jim Hunter)				
11:30 – 12:20- Teaching Session – Ecology of Ursidae					

(Jim Hunter)

- Lunch

12:20 - 12:50

12:50 – 1:35 - Teaching Session – Ecology of Feline			
Families (Jim Hunter)			
1:35 - 1:55 - Break, walk to Asian Highlands			
2:00 - 2:30 - Natural behavior Snow Leopard Show			
2:45 – 3:35 -Plant/Animal Relationships (Lynne Stefonik)			
3:35 - 3:50 Q &A : CMZ structure, parking, IE hours,			
cart talks, special events, special tours,			
private tours			
3:50 - Hand out final review sheet			

Session 10 March 18, 2017

Debbion 10 mai	Session 10 Water 10, 2017					
9:00 - 9:15	- Information, Announcements, Hand in					
	final review sheet					
9:15 - 9:45	- Animal manager talk: Responsibilities					
	of keepers, trainers, managers.					
9:45 - 10:00	- Complete evaluations, distribute					
	uniforms					
10:00 - 11:30	- Official follow of Ecology tour					
	(Experienced docents lead ECO tours, no					
	more than 5 trainees per group)					
11:30	- Potluck with mentors and presenters					

March 25 - Make up day, if needed

OCTOBER FINANCIAL REPORT

Restricted Account: In October we spent \$1350 from King Soopers profits to send three staff personnel to various training workshops. Jenyva received \$109.50, the remaining money from Scavenge for Vultures, for IVAD. We earned \$581.25 in grocery card reloads. Ending balance in the Restricted Account \$26,129.48.

<u>Budget Account</u>: \$49.05 was spent on the copier. \$447.18 was spent to reimburse Sandy, our AZAD delegate, for her expenses and \$69.06 was spent on supplies. Operating Budget ending balance was \$4,341.08

If you wish greater detail of the October report, email me and I will send it to you.

Nancy Hochman

SPECIAL EVENTS

We had busy days at Boo and I thank everyone who showed up and worked their shift. Unfortunately there were some no shows and a few people were left to work on their own. I did send out an email to those who signed up with the day and location they were scheduled to work. I know there have been issues with some people and emails but none bounced back so I assumed they were received and days, dates and locations were correct.

It's important that we either be in the station we are signed up for or a substitute has been arranged by that docent to cover.

In our rules and policies, it states that no shows will be docked hours. We all know emergencies can and do happen, and we are always open to go case by case.

Now the fun starts! It's Electric Safari coming our way. I have no information yet except the dates. They are a

December 9^{th} to 23^{rd} and December 25^{th} to January 1^{st} . There will be lots of opportunities to get hours and have fun!

Jeanie Baratono has graciously offered to take over this event. I am having surgery on November 22^{nd} will be out of commission for a while. Look for emails that will make things clearer.

Once again, thank you so much for doing so much. What a special group you are! *Judy Schlei*

EDVENTURE UPDATES

Meet the EdVenture Office Animals!

We recently received a docent scholarship to purchase a mini fridge to store food for our office animals- but do you know just who we house down here? We have a snake, a bullfrog, and two different species of millipedes that currently live in the EdVenture offices. These animals are all part of our regular animal collection, but they live in the offices due to several different reasons. Here are some photos and fun things about each animal:Rosie O'Froggle is a Giant African Bullfrog. You might notice that she is much smaller than Jenny and Gump (the two that currently live in Aquatics), female African Bullfrogs tend to be much smaller- so it is believed that Gump and Jenny might be males. Rosie used to live in the ARV basement and was one of their meet and greet animals, but they gave her to us so she could wow more people both on zoo grounds and off. Rosie lives in the office mainly because she is an amphibian, and not a "touch" animal- so we can keep her safe and healthy in the offices without having to worry too much about being touched. In the future, the Loft will house fewer amphibians for this very reason (but we will still have them for Zoom!)



Jambazi is a Kenyan Sand Boa. Jambazi means "Bandit" in Swahili. She also lived in the ARV basement with Rosie, but was also given to us to meet more people. Jambazi used to live in the Loft, but we moved her to the office for two reasons. 1.) She is impossible to see in her enclosure as she is always buried in her sand (so the tank always looks empty!), 2.) She was used to being in the quiet basement and not around loud noises and vibrations, so she stopped eating in the Loft. When we moved her down to the office and made several adjustments to her lifestyle- she is now eating more regularly and get more accustomed to meeting lots of

people! Jambazi now lives right next to Rosie in the EdVenture office.

Reba is a Mystery Millipede. Reba was donated to us by a High School teacher who thought he had about 8 Giant African Millipedes- but once they arrived, we quickly realized that they were not the same species. We housed them in EdVenture because we were not sure what species they were and could not house them with our current Giant African Millipede population. Most of these mystery millipedes died within a couple days of their arrival, but one made it through and is still with us almost a year later. It is believed that these might be millipedes from Texas- and Texas is known for a lot of things, country music being one of them- hence Reba, after Reba McEntire. Reba lives on Stacey's desk in the Edventure offices.



Giant African Millipedes. As you can see from the two pictures, there is an obvious difference between our mystery millipede and our Giant African Millipedes. These millipedes are the newest residents of the EdVenture offices. We recently counted our millipedes in the Loft and found that we had quite a few young ones that needed time to grow before they could be safely handled. They were separated from the larger ones and moved into their own tank in the EdVenture offices. As they grow we will swap out the two tanks so that the ones in the Loft can get a break from being handled, and continue to swap them out every couple of months- everyone needs a vacation! These millipedes also live in Stacey's office.



Reba the mystery Millepede



Giant African Millepede

As you can see, we have several mouths to feed in the office, and that refrigerator makes it A LOT easier! You are always welcome to visit these animals, and if you are a Loft/ZOOM docent, you can also get trained on handling these critters as well. Stop by anytime! *Stacey Graham*



Jenny Diaz with Tawny Frogmouth, Kirra, at the November TE meeting (photo by Ron Capen)



Hi, Mister!

CROWDFUNDING FOR GIRAFFE MEDICINE

Liza Dadone, VMD

I want to extend a sincere thank you to the entire docent group for your help last month. Thanks to your support to both our crowdfunding campaigns, we now have full funding for both our giraffe projects. Additionally, we won extra prizes, totaling \$1,250, by having the largest number of individual backers for our projects. I think this is an exciting example of how working together can make such a difference for animals and our world.

These projects came out of Cheyenne Mountain Zoo's desire to do even more for the health of our herd, especially as they age. Arthritis is very common in zoo giraffe, so management of that condition is a common health concern. Thanks to our Animal Department's award-wining training program that gives us unprecedented access to a large number of giraffe, we have been able to x-ray and do hoof work on our entire herd. This has allowed us to better understand their age-related issues and to find some ways to manage those issues better. We have started to share some of this work with the greater zoo community in publications and national presentations, too. Additionally, for the past two years, we have hosted a Giraffe Care Workshop to share our findings and training techniques with giraffe professionals from around the world.

Because of our Zoo's increased profile related to our publications and presentations, we were contacted by a crowdfunding organization called Experiment.com to see if we would like to raise funds for additional giraffe medicine research. Crowdfunding is a way to raise funds on-line from ones social circle, and ideally beyond. The organization Experiment.com is a platform that tries to popularize scientific research by raising general interest and funding for new scientific research. As Bill Gates states, "This solution helps close the gap for potential and promising, but unfunded projects."

We quickly identified two giraffe medicine projects that we hoped would benefit both our Zoo's giraffe but also potentially many giraffe in human care. Based on discussions with Experiment.com, we decided to submit both for crowdfunding. Each project needed \$4,200 to be fully funded.

The first project is "Help us pioneer stem cell therapy for giraffe." Stem cell therapy is increasingly used to better manage arthritis, sometimes infections, and other medical conditions. Stem cells can now be grown from blood. As some of our giraffe are already trained for voluntary blood collection for health screens, we would not even need to do general anesthesia to collect samples. A regenerative medicine lab at the Colorado State Veterinary College has

developed techniques to grow stem cells for multiple species, and was willing to partner with us. This study would help us develop the technique to grow stem cells from giraffe blood, then use those cells in a giraffe with advanced arthritis. This would give us a new treatment option for giraffes who are already getting all the standard arthritis treatments but continue to have intermittent arthritic problems. As far as I know, with this study we will be the first to grow stem cells for giraffe.

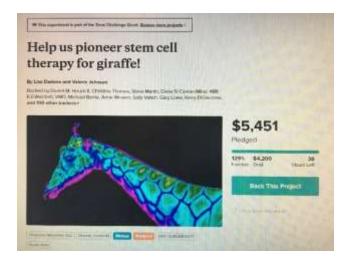
Our second project is "Fancy footwork: How different are the feet of zoo and wild giraffe?" Our goal with this project was to systematically compare the foot shape and x-rays of zoo giraffe with those of wild giraffe in Namibia. This has never been done before, but when I helped with a giraffe translocation in Uganda earlier this year, even without taking x-rays it looked like there were some major differences. To do this project, we would partner with the Giraffe Conservation Foundation (based in Namibia) to look at wild giraffe feet. This would be both by measuring and hopefully x-raying giraffe feet when animals are immobilized for radio-collar placement, opportunistic study of the feet from deceased giraffe that are found in the wild. The project would cover travel expenses for myself and our master farrier (who has been key to developing our giraffe hoofcare program). By comparing the zoo and wild feet, we hope to better understand how common arthritis is in wild giraffe and identify if there are hoof trim or other husbandry practices that we should modify for zoo giraffe to help keep them healthy.

Our projects launched November 1, 2016. The first few days we had minimal support, and it was clear we had a big challenge ahead of us. But over the next week, we started to see a swell of support for our projects. The CMZoo docents pledged \$500 for our 2nd project, which helped us significantly with our Fancy footwork funding. We knew there was also the opportunity to win additional prizes by having the largest number of supporters; \$1,000 for 1st place and \$250 each for 2nd or 3rd. Getting the largest number of backers, even with \$1 pledges, seemed like a good strategy to get to full funding. The docents were a huge supporter for this, with many of you pledging \$1 (sometimes more) to both projects.

Thanks to your incredible support and helping spread the word for our projects, we got to full funding. In fact, our projects shocked both me and the Experiment.com team, for the number of supporters and funds raised. Our campaigns close tomorrow (Dec 1), but at current count we are doing exceptionally well. Our 1st project (stem cells), is 129% funded (\$5,451 thanks to 121 backers). Our 2nd project (fancy footwork), is now 247% funded (\$10,406 with 260 backers). We will be starting as soon as possible with both

projects, and the additional funds will be carefully allocated towards work related to each project (most likely towards travel costs to present our findings at national/international conferences and for journal publication fees). As we look around us at the extinction crisis, I can't help but wonder if lessons learned from this medicine research crowdfunding could be key to helping our Zoo and other conservation organizations do effective conservation work and get broader public engagement. I feel the crowdfunding concept is similar in many ways to our Quarters for Conservation program: small change, pooled together, can make a difference. I'm so grateful to our Docents for individually and as a group helping make this giraffe medicine research happen, and hope that we can together figure out a way to make an even bigger difference for the natural world.

A very happy holiday season to all, *Liza*







CMZ Auxiliary Zooline December 2016

Lovice Riffe, Editor Cheyenne Mountain Zoological Society 4250 Cheyenne Mt. Zoo Road Colorado Springs, CO 80906

