



The Crash

Newsletter for rhino professionals

April 2014

President's Perspective:

Jane Kennedy

Welcome to spring! I'm sure we have all had winter long enough and are ready for some sunny news. Our Document of Good Faith has been signed by the Chester Zoo and IRKA board, confirming we are meeting in Chester England in June of 2015! We will meet in June to insure that their new exhibit is ready by our arrival. This timing may also make it easier for us to bring our families along, as school will be out in most parts of the US. See the article submitted by the Chester Zoo RKW team to learn more about our trip to England.

In this issue we also have an update on "Nepalorado" by Dave Johnson. Other updates include that both Sean Ramsdell and Mike Daniels (from last month's Crash) have travelled afar for rhino conservation. Sean just finished the "Running For Rhinos" marathon in England (see his article) and Mike Daniels is in his 4th week of Rhino Protection Unit training in South Africa. Mike hopes to be on patrol by the end of the month. Look for an article about his trip in our next issue of the "Crash."

Our next training articles are by Jason Pootoolal from African Lion Safari, Mike Connelly—Tulsa Zoo, and Carly Barron—Maryland Zoo. The first presents training used in both medical and reproductive management, while the second shows purpose and outcome that all of us are looking for in training, and the last gives us a step by step method for this behavior. All are great ways to further develop "blood draw" training at your facility. If you like this style of presenting training information, give us feedback for future articles!

Rhino Buddies was introduced to the IRKA last year. Its purpose was to help those from overseas who have been a part of the IRKA remain a part. We help others by sponsoring their membership fee; \$25 can be a fortune in some countries! It's a great program and a great way to get connected with a rhino keeper who will directly benefit from your support. Just Sunday I decided it was my time to put my \$25 where my mouth is and help another keeper from Africa. Read Sara's article to learn more about how you can help too.

If supporting the IRKA is something you want to do then the article by Jonnie Capiro about how to help fund the IRKA is for you. She details how we are now partnering with I Give and Amazon Smile to help raise money directly for the IRKA. This is another way for us to develop funding that directly benefits you as a member of the IRKA. Read about it and consider using these websites.

Finally I would like you all to take part in a short survey. We meet as your board at the Wilds next week. We will be discussing and directing the future of the IRKA. Please go to the following link to take a short (less than 10 question) survey about where YOU want the IRKA to focus its attention. Without your guidance we can only guess as to what you want us to do. Help us lead your organization to meet its fullest potential.

Are you celebrating Cinco de Rhino? We are in San Diego! We have arranged for a local Mexican restaurant (Hacienda de Vega) to help us raise money for in-situ rhino conservation. Remember all of the money you raise for CDR goes directly to RPUs for the IRF. Our goal is to raise \$10,000 nationally for RPUs. If you need ideas or help please contact us or visit the IRF website to see how you can help rhinos with a CDR celebration. Be sure to send your CDR pictures to Chris Bobko for use in our next issue of the "Crash."

Finally I would like you all to take part in a short survey. We meet as your board at the Wilds next week. We will be discussing and directing the future of the IRKA. Please go to the following link to take a short (less than 10 question) survey about where YOU want the IRKA to focus its attention. Without your guidance we can only guess as to what you want us to do. Help us lead your organization to meet its fullest potential. Since we are frugal we have opted for the free survey monkey which means only the first 100 responses will be tallied. (For free.) Please see the link to let us know what you would like the IRKA to do. Thank you and see you in England!

<https://surveymonkey.com/s/QZTHNG6>

Jane

Learn, Share, Save



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The New IRKA Training Committee: Joe Hauser, Buffalo Zoo

As the Training Committee has its first articles in the CRASH for the International Rhino Keeper Association, I would like to introduce everyone to the committee members.

- * Joe Hauser, Lead Rhino Keeper, Buffalo Zoo
- * Jane Kennedy, Lead CHS Mammal Keeper, San Diego Safari Park, and IRKA President
- * Jason Pootoolal, Hoofstock Supervisor/Head Rhino Keeper, African Lion Safari, Ontario
- * Mike Connolly, Zoological Manager -Pachyderms/Hoofstock, Tulsa Zoo
- * Carly Barron, Animal Keeper, at the Maryland Zoo in Baltimore

For the first articles of the Training Committee, Mike Connolly, Jason Pootoolal, and Carly Barron, wrote about how they were successful at training their Southern White rhinos to give voluntary blood draws. It explains a few different ways this behavior can be trained, as well as adding pictures to show how it was achieved. Being able to draw blood could be a very valuable behavior to train captive rhinos for a number of reasons. Hopefully by reading these articles, it will give you a good idea how to go about this with the rhinos under your care.

White Rhino Blood draws at the African Lion Safari: Jason Pootoolal

African Lion Safari has a crash of 2.3 southern white rhinos. These rhinos are exhibited in a 60 acre mixed species display and are brought into a large heated barn nightly. This daily routine of going in and out of the barn necessitates a good amount of time of keepers working directly with the rhinos and provides the opportunity to enable valuable research.

All pens in the barn share a common hall, which is equipped with a hydraulic restrainer. Our rhinos pass through this every day to move pen to pen and also to enter the outdoor paddocks. The rhinos were then offered their daily pelleted diet along with treats when they stopped in the restrainer. Building on this positive association we gradually closed the doors around the rhino, holding the rhino for longer and longer periods of time. The rhinos have come to accept the restrainer as it is where they are fed their daily diet supplemented by treats and positive keeper attention (rubs!).

We were ultrasounding our female rhinos on a regular basis and correlating the images observed with behavior in the field and to hormonal analysis of fecal samples collected. We then decided to condition the rhinos for blood collection so we could monitor the hormones using serum, as well as being able to use blood in diagnosing health concerns. Storing and shipping samples was also easier.

The first method we used was collecting blood from their ear veins. Since we had already used tactile stimulation all over their head during training as a form of positive interaction, holding and manipulating the ear was simple. We began washing their ears with a hot wet washcloth and would hold it on their ear to raise the veins. From this point we stuck the vein with a 23 or 21 gauge butterfly winged infusion set. The rhinos did not display any negative reactions to this stimulus. Being able to hold and manipulate the ear allowed us to collect the blood without the apparatus coming out due to 'ear waving' by the rhino. Blood was collected by connecting a syringe to the butterfly and drawing back in a slow and uniform speed to protect the ear vein.

During this time we were working on producing a white rhino calf using artificial insemination. As part of this procedure the ear was being used repeatedly for the standing sedations induced to inseminate the rhinos. We decided it would be prudent to condition the rhinos for blood collection from the front leg.

As with the ear we were already rubbing our rhinos down in the restrainer. We began using the same hot water and washcloth method to clean the site on the leg and hold it to the injection location. Desensitizing the rhinos to the initial prick was accomplished with a blunted needle pushed firmly to the site. Once the rhinos were tolerating this we began using a 21 gauge butterfly winged infusion set and syringe to collect blood.



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Rhino Conditioned blood draw at the Tulsa Zoo: by Mike Connelly

By now, many of us know the value of being able to obtain blood samples from the animals we care for. The ability to obtain blood samples from animals without the need for sedation is even more valuable and is becoming more and more common with animals that are more challenging to sedate. Here at the Tulsa Zoo, we have been fortunate enough to obtain blood samples from our 1.1 rhinos for approximately the past 10 years. This ability first surfaced when we were presented with a research protocol seeking blood samples from our two rhinos. Staff immediately began brainstorming on how to condition our rhinos for blood sampling and below is a general outline on how we accomplished this.

First we needed to decide where we were going to draw blood from and where we were going to attempt the blood draws. After discussion with our veterinary services department, we decided we would target ear veins with our rhinos. Our facility is dated and does not allow for a great deal of flexibility and access to ears was generally easier than the legs. Not to mention, the ears were usually a bit cleaner. Therefore, we decided to initially condition this behavior in the rhino's regular indoor stalls with them either presenting their heads through the bollards or perpendicular adjacent to horizontal pipes. Every rhino is different but ours are fairly calm and cooperative overall and take most of what we present to them in stride.



Next we needed to determine what supplies were needed. Since many of us had familiarity drawing elephant blood, we adopted a similar approach. Our list of needed materials included, 4x4 gauze, dilute chlorhexidine, collection vials, syringes, and 23 gauge butterfly needles with catheter tubing. Combine this with a dedicated and patient staff and forgiving patients, we were ready to proceed.

After deciding where and with what, we needed to focus our attention on the how. Again, we adopted a similar approach as to our elephants since we also use ear veins on two of our three elephants. We began by getting our rhinos to respond to their names and station in a specific area. Once they were in the desired location, we hand fed them their regular daily diet of Mazuri ADF-16. Soon thereafter, we began working in a second person whose role would be to desensitize the rhinos to having their ears touched and manipulated. This step took a while as the rhinos required some time getting use to having their ears messed with. Throughout the process we more or less utilized continuous reinforcement in the form of their grain for them accepting tactile desensitization. At this point in time, we took the opportunity to clean/wipe down their ears with dilute chlorhexidine. It was our experience that once the rhinos began eating, they became focused on their grain and more accepting of additional steps as we progressed.

Once the rhinos accepted tactile desensitization and manipulation of their ears, we began applying increased levels of pressure to the ear doing our best to holding off the vein in question. Soon thereafter we began pinching and pricking the ear with fingernails and introducing minor levels of discomfort doing our best to mimic sticking them with a butterfly needle. We were especially careful to minimize any unnecessary accessories like the catheter tubing from touching their ears as this would often cause them to fling their ears. Surprisingly we found that our rhinos progressed through the blood draw process fairly rapidly and were quite forgiving. As you can imagine, the first several days that initial sticks were made, they did react negatively (changing position/posture, flinging ears, leaving station) but after a few incidents of this nature they began accepting needle insertion as well as could be expected.



Multiple sticks and repositioning of the needle were kept to a minimum. We are proud to say that to this day, we continue to obtain routine blood samples from Buzbie and Jeannie and that the entire team can successfully obtain blood from them. During periods of extreme cold, it has been challenging to get blood from their ears as the veins are not as obvious. It has also been problematic for this behavior to be passed on to others outside the pachyderm team, such as the veterinarian department, due to less familiarity with the rhinos.

With behaviors of this nature, safety for the animals and the staff are paramount. We pay close attention to any changes in body language and listen acutely for any sounds of frustration/anxiousness from the rhinos. Both are usually precursors to any charges and changes in body positioning, etc. We also always utilize two staff when drawing blood and know our escape routes. We always have a vertical pipe between us and the rhino's horn just in case they choose to turn on the person drawing the blood. We also try to set them and us up for success. As mentioned earlier, we try to keep this behavior strong and established with those who know the animals best as well as who the animals know best. Also, if a vein is not noticeable or we are not able to get a vein to stand up, we do not attempt drawing blood and instead wait until another date and time.

Successfully drawing blood from our rhinos has been a great husbandry component of rhino management. On multiple occasions we have sent blood away when our rhinos were acting "off". We routinely collect blood from our rhinos for banking purposes and our veterinary services department analyzes samples at least twice per year. We have also been able to participate in any and all research related to rhinos requesting blood. Conditioned blood draws are also great behaviors to help build rapport between rhinos and staff as well as boosting confidence levels with staff when they are able to reach milestones such as this with the animals they care for. Buzbie and Jeannie have and continue to teach us a lot and we are thankful for the opportunities they provide us with.



1.1 Southern White Rhino Training Protocol -- Voluntary blood collection from inner front leg without a chute - by Carly Barron, Maryland Zoo

Number of trainers: 2

2° trainer: Veterinarian

Bridge: Clicker

Reinforcers: Alfalfa cubes, hay, tactile (brushing, horn filing)

Training Materials: bucket (with nolvasan solution), sponge, blunt needle, target, clicker, alfalfa cubes, brush, file/rasp

Medical Materials: 21 3/4 gauge butterfly needle, 5-8 collection tubes, dilute nolvasan solution

1. Use "target" and "move up" (hand target) behaviors to position rhino parallel to pen bars with left side to bars.
2. Use "target" and "move up" to encourage rhino to position front left leg ahead of front right (allowing for access to inner front right leg.)
3. Utilize "steady" behavior to keep rhino still throughout collection.
4. Begin desensitization process with 1° trainer at head and 2° trainer at front legs. Position rhino properly at pen bars with all materials in place in keeper aisle way. Repeat throughout multiple sessions until positioning reliably.
5. With 1° trainer at head keeping animal still*, 2° trainer begins desensitization to washing leg with sponge and nolvasan solution. 1° trainer reinforces rhino for standing still (no steps backward or forward or breaking away from session.)
6. Over subsequent sessions, 2° trainer begins lightly poking inner right leg with finger(s), feeling for vein.
7. Using small approximations over multiple sessions, light finger palpations gradually increase to a single centralized, forceful finger poke. 1° trainer reinforces rhino for remaining still.
8. Once comfortable with previous step, begin to follow finger palpation (to find vein and best spot for collection) with light blunt needle pokes (replacing single finger poke), building up over multiple sessions to hard sticks reminiscent of real stick. 1° trainer continues to reinforce non-movement.
9. Once rhino consistently remains steady for fake sticks with blunt needle, blood collection is attempted using butterfly needle.
10. Final behavior consists of the rhino standing still for washing of the inner front right leg with sponge and nolvasan solution, feeling for best collection site with finger, and collection using butterfly needle.



11. Rhinos are most reactive to initial stick, and are selectively tolerant of repositioning of needle if blood is not hit on the first try. Once blood is hit, 1° trainer is responsible for keeping the rhino occupied (through training or food/tactile reinforcement) for full collection (typically about 5 tubes) and holding off of the vein following collection.

***Individual rhino characteristics:**

-1.0 White Rhino “Stubby” is fairly easy to position for blood draw, but is very reactive. He requires distraction through the use of other behaviors (“up,” “open,” “move up,” etc.) to keep him focused and to deter him from taking a step forward or back, or breaking away from session. Use of “steady” is effective.

-0.1 White Rhino “Daisy” requires less constant attention to ensure that she stands still during collection. However, she is much more challenging to get into initial position. She is very smart and fairly suspicious, refusing to step with the proper foot to allow for access of inner right leg. Once in proper position, she stands solidly if given hay or alfalfa cubes, is brushed, or has her horn filed.



Conservation Corner: The Land of Narayani: Dave Johnson, Denver Zoo



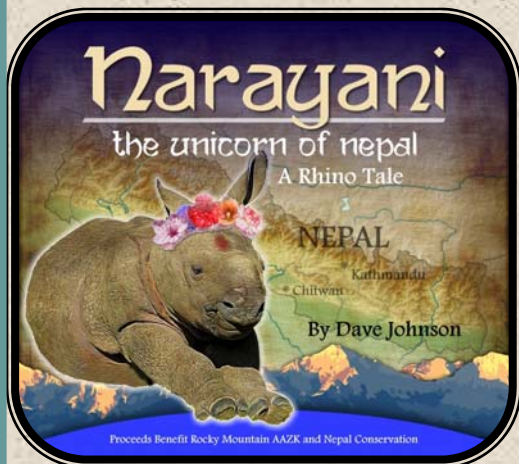
In November of last year I led a group of excited animal nerds back to a place that I have become quite fond of. This was my fifth trip to the wonderful land of Nepal. With me, I had zoo volunteers, zookeepers, interns, and other Denver community members. There were sixteen of us, including a three person documentary team working on a rhino film. We were thrown together on a mission of passion, and spent two weeks together experiencing all that this country, culture, and wildlife had to offer.

“Team Nepalorado”, and just as the name is a fusion of our two countries, we consider our mission a fusion of cultures in the name of conservation. We wanted to highlight the creation of a new Asian area in Denver. This exhibit would house Asian elephant and Greater one-horned rhino. The latter would be living in Denver for the first time in our history. Our new pachyderm exhibit at the zoo was opened in 2012, and was named Toyota Elephant Passage. Our team created some excitement about a new home for pachyderms, and continues to take our people on incredible journeys to unite them with conservation practices on a global scale. Our partnership does not seem to be slowing down any, but instead is gaining popularity and adding excitement to our zoo.

We got to see fourteen wild rhino this year, a few wild elephant, and a leopard, plus the amazing supporting cast of animals that abound in the terai. One of the rhinos actually swam across the boundary river to the national park and was grazing behind our lodge restaurant in Sauraha. We got to sit and watch him for hours as we drank our Everest beer and basked in our good fortune. Instead of leaving us after a few days and heading to India, the documentary film team stayed with us for the entire two weeks. The ninety minute film is due out sometime late summer and is called “The Price”. Our portion of the story is a feel good look at rhino conservation and the positive direction that we can head together. After two years of filming in Africa and documenting the struggles with rhino poaching as it escalates there, it was a nice change of pace for their team to be with us in Nepal. The energy and enthusiasm were contagious and continues on today. Just last month it was worldly recognized that Nepal had another year free from poaching. We were so excited for our global teammates. At a time when South Africa was losing 1004 rhino, Nepal was protecting all of their rhino, elephant, and tiger populations. Other countries should take notice.



Our group got to help with the purchase of anti-poaching motor-bikes for their military. We got to help build a solar-powered electric fence that now protects a border village from marauding elephant and rhino neighbors. My first book raised money for scholarships for the children who travel throughout the country doing street dramas about conservation. "Elephants of Denver" helped us send over seventeen thousand dollars to Nepal. We began to look into the possibility of building a new veterinary hospital for Chitwan National Park. This hospital would be taking care of the orphaned Greater one-horned rhino that we keep encountering during our travels. We have met four of these baby rhino and want to help keep them healthy and get them back into the wild. Narayani and Biru are two of these orphans who we get to see every year at the Central Zoo in Kathmandu. They survived and are now ambassadors for their recovering species. Narayani is now four years old this spring. She was named after the river from which she was found, injured and alone, and only a few months of age.



My second book just came out in December of 2013. It is called "Narayani: The Unicorn of Nepal". It is being sold in the zoo gift shop in Denver for ten dollars. We took copies of it to the Central Zoo, and made sure everyone got copies and the digital version to print out if needed. All the money made from this book goes to our AAZK chapter and into the zoo's Nepal account. We are hoping to continue the fundraising for the vet hospital and see if we can get this project going this year. This would benefit all the wild animals in Chitwan, especially the baby rhino. We are also planning on helping with the translocation of rhino from Chitwan to Bardia National Park and getting radio collars on the individuals who get moved west. Bardia has less than thirty rhino, and the country is wanting to re-establish numbers there now that protection is in place.

In our community I am hoping to create a new wave of passionate animal nerds. My book can be used as a fundraiser by schools, scouts, sports teams, or ambitious animal lovers. For each book sold as a fundraiser I will evenly split the profits. So you can make \$5 per book for your cause and \$5 for our Nepal rhino account. This is so much better than having kids out selling donuts, candy bars, or cookie dough. It's a great message for a great cause, and a rhino book lasts much longer and leaves a better impression than a chocolate bar. I am spending my weekends teaching in schools, doing power point presentations, and reading the book aloud to anyone who will listen. There are now children selling the books here, in Alabama, in Arizona, in North Carolina, and others. I hope to get these out to children in every state. My masses of helpers are now my "rhino warriors", doing their part to preserve an amazing species on our planet.

We have fourteen more people to take over to Nepal this October. I hope to have many more books sold and begin implementing the vet hospital plans with our zoo and our rhino colleagues overseas. We are creating some amazing rhino warriors on many levels and in many ways. The excitement we create is going global. Get in touch with me if you have some ideas about our partnership, if you want to become involved, or if you would like to purchase a rhino conservation book. We only have one small opportunity during our careers to make such a huge impact in the world. We need to all work together for the future of the rhinos that we all love so much! rhinokeeperdave@gmail.com



IRKA Fundraising Opportunities:

We have an exciting, easy opportunity for you and your friends and family to raise funds for the IRKA every time you shop online. We have accounts registered with both iGive and Amazon Smile, and every time you shop as a guest on these sites, they will donate a portion of your purchase to the IRKA.

It's super easy!

Here's how it works:

- Visit iGive.com, create an account, then install the iGive button.
- Shop online as you usually would there are tons of stores that participate with iGive, and the iGive button will recognize your account and automatically donate the funds.
- Anytime you would regularly shop on Amazon, shop on Amazon Smile instead, and select "International Rhino Keeper Association" as your charity. Start shopping.
- Please use social media to promote these campaigns and invite your friends and family to support IRKA as they shop online as well.

If you have an Amazon Prime membership, that will be recognized by the Amazon Smile website!

Thanks for your support in this ongoing fundraising endeavor for the IRKA and happy shopping!



Running for Rhinos Update:

Hello again, just a quick update on Running for Rhinos.

My name is Sean Ramsdell and I am a rhino keeper at Busch Gardens in Tampa, FL. At the most recent IRKA workshop in San Diego, I met Cathy Dean, the Director of Save the Rhino International, and it was during her presentation that I heard about Save the Rhino's London Marathon team. It is their organization's largest fundraiser every year. Needless to say, it took little thought to commit myself to this cause.

I am now days away from heading to London to run my first marathon and I am very excited. I have raised about \$1,800 – 66% of my goal – and I am confident I can reach it before the deadline. I also have awesome Running for Rhinos t-shirts for sale! Every cent of what I raise will go to Save the Rhino International, which supports many sustainable projects in Africa and Asia. I was featured on a local news station this week and have an interview with another one coming up, so that should definitely help me and the rhinos out. Currently, I am running what is called "the taper" – no it's not that one ;-)- where the distance one runs for training purposes dwindles down in order to allow the body to recover before the big race. It is a weird feeling, but a welcome one. For the past four months, it has felt as if I had a second job. Be sure to check out RunningForRhinos.com to hear all about my trip, or the Running for Rhino's Facebook page for timelier (and possibly shorter) updates.





International Rhino Keeper Association

Chester Zoo



15th to the 18th June 2015



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2015 Rhino Keeper Workshop Information

Chester Zoo is set to host the 2015 International Rhino Keeper Workshop which will be held on the 15th-18th of June. We are in the middle of planning what we hope will be an exciting and engaging few days for all involved!

Chester is one of Britain's great heritage cities, founded by the Romans it has an extensive and captivating history, signs of which can still be seen today. Chester boasts the most complete city walls in Britain dating back 2,000 years, the remains of a Roman amphitheatre and a 1,000 year old cathedral with the finest medieval carvings in Europe. What makes Chester city centre unique are the 700 year old mediaeval Rows which house a multitude of diverse shops, cafés, restaurants and bars, so there's plenty to keep you entertained during your spare time.



Chester Rows in the City Centre

Queens Hotel

This grand hotel will be providing the BBQ icebreaker in its Italian style garden, the conference rooms for the workshop, and the glamorous gala dinner on the final night. The Queens will also be on our list of the recommended accommodation options for workshop attendees.



Queens Hotel



Chester's main attraction is of course our fantastic zoo, with 11,000 animals, currently including 10 Black and 3 Greater one horned rhinos, in 110 acres of award-winning zoological gardens we're not only the UK's most popular zoo but one of the top 15 in the world. We plan to have a full day trip to the zoo followed by a safari BBQ to round off the evening. The opening of Islands, our new development for which building is currently underway, will be due to coincide with the workshop, so IRKA attendees will be among the first to see this exciting new development up and running. As well as being a first class tourist destination we are also a highly respected centre for global conservation and research, and passionate campaigners for wildlife. We support a multitude of projects worldwide, one of which focuses solely on Eastern black rhino conservation in Kenya and Tanzania and our very own general director Mark Pilgrim holds the stud book for black rhinos. These are just a couple of the many reasons we are so delighted to be hosting the 2015 international Rhino Keeper Workshop!



“Rhino Buddies”

Sponsor an IRKA Professional Membership for an International Rhino Keeper!

For \$25 a year, you can sponsor a Rhino Keeper from around the World whom may not have the means to pay for their own IRKA Membership. If you sponsor a Rhino Keeper, you will be connected to the Rhino Keeper you are sponsoring via email so you can keep in touch, share ideas, learn about other countries and cultures, and in particular, learn about each other’s rhinos!

If you are interested in Sponsoring a Rhino Keeper, please email Sara Wunder Steward at Sara.Wunder@BuschGardens.com with your name, email address, institution, and species of rhino you care for.

*Note: Please be aware that English may not be your sponsored Rhino Keeper’s first language! If you do speak a language other than English, please let us know. Otherwise, please be understanding of the language barriers and remember- you are both share a passion for RHINOS!



Belgium Rhino and Elephant Workshop

On February 19th-21st, a Rhino and Elephant Workshop was held at the Planckendael Zoo, Belgium. The Workshop was put on by the Harpy Foundation and Parc Zoologique d’Amiens, France. There were 52+ participant from several countries, such as; Belgium, Netherlands, Germany, Austria, Italia, and France. It was the first meeting conducted in two languages- French and English. Besides medical training videos, some of the topics of rhino discussion were:

- “EEP Whites Rhinos”, Lars Versteegen, Curator, Safaripark of Beekse Bergen, Netherlands and EEP Coordinator White Rhinos
- “Skin problems in Black Rhinos in Pont-Scorff Zoo”, Pierre Cammas, Zookeeper in Pont-Scorff Zoo, France and Dr. Florence Olivet-Courtois, Veterinary
- “Foot problems in rhinos”, Dr. Willem Schaftenaar, Veterinary at Rotterdam Zoo, Netherlands



Correspondence Updates

The IRKA sends our deepest condolences to the following institutions:

- Lee Richardson Zoo: Black rhino male “Howdie”
- Oklahoma City Zoo: Black rhino female “Marsha”
- Denver Zoo : Black rhino female “Shy-anne”
- Cincinnati Zoo : Sumatran rhino female “Suci”

We send our congratulations and celebrate with the following institutions:

- The Wilds



2014 New and Renewing Members to IRKA

Jonathan Moss	Knowsley Safari Park, UK	Tina Fess	Seneca Park Zoo
Susan Hoss		Dave Clawson	The Wilds
Robert Olmstead	Tanganyika Wildlife Park	Paul Reinhart	Cincinnati Zoo & Botanical Garden
Cydney Peterson		Randy Pairan	Cincinnati Zoo & Botanical Garden
Maggie West	Fort Worth Zoo	Marjorie Barthel	Cincinnati Zoo & Botanical Garden
Tess Stevens		Renee Carpenter	Cincinnati Zoo & Botanical Garden
Alissa Gottfreid	Racine Zoo	Lissa Browning	Cincinnati Zoo & Botanical Garden
Lindsey Kocincki	Los Angeles Zoo	Steve Yelverton	Cincinnati Zoo & Botanical Garden
Diana Villafuerte	Lincoln Park Zoo	Libby Krouskop	Cincinnati Zoo & Botanical Garden
Jacqueline Ziegler		Lisa Fitzgerald	Dallas Zoo
Daniel Ziegler	Rhino Resource Center	Lara Metrione	
Arief Rubianto	Sumatran Rhino Sanctuary	Christine Bobko	Denver Zoo
Vickie Steele	WOCC	John D. Armstrong	Toronto Zoo
Stacey Williams		Linda Reifschneider	President, Asian Elephant Support
Joe Jerome		Judy Stephens	Detroit Zoo
Paige McNickle	Phoenix Zoo		
Dorothy Forman	Oklahoma City Zoo		
Laura McGlothlin	Columbus Zoo		
Harry Peachey	Columbus Zoo		
Adam Felts	Columbus Zoo		
Mindi Scott	Columbus Zoo		
Aaron Kazmierczak	Columbus Zoo		
Matt Davis	Columbus Zoo		
Matt Frohlich	Columbus Zoo		
Wendy Shaffstall	Cincinnati Zoo & Botanical Garden		
Stacy Strother	Disney Animal Kingdom		
Susy Turner (Gene)	Peoria Zoo		
Daniel Dembiec	Jacksonville Zoo		
Kathleen Suthard	Pittsburgh Zoo		
Joseph Nappi	Bronx Zoo		
Celia Falzone	Ellen Trout Zoo		
Julie McGilvray	San Francisco Zoo		
Amber Berndt	Indianapolis Zoo		
David L Curtis			
Peter Hnath			
Jillian Huwe	Kansas City Zoo		
Erica Tilbury			
Mike Kerr	Little Rock Zoo		

Renewing institutions:

- International Rhino Foundation (IRF)
- Zoological Society Of SD
- Brian Caldwell (Highland Way Productions)
- Lowry Park Zoo
- Oregon Zoo
- Potter Park Zoo
- Cameron Park Zoo
- Austin Savanna
- Busch Gardens
- Oklahoma City Zoo
- Taronga Zoo
- Taronga Western Plains Zoo
- Audubon Zoo
- Buffalo Zoo
- Henry Vilas Park Zoo
- Columbus Zoo and Aquarium
- The Wilds
- Chicago Zoological Society- NEW
- Cincinnati Zoo & Bot. Gar.
- Tanganyika Wildlife Park- NEW



Institutional Supporters

The Supporting Institutional Membership is for any conservation organization, or zoological institution which supports rhino conservation in accordance with the objectives and purpose of the IRKA. These memberships are available for \$100, \$500 and \$2000. Why should your zoo be interested in joining on this level? If your institution contributes on the \$500 level then all rhino keepers membership fees at your zoo are waived! It is important that as the IRKA grows that we continue to garner the support from all facilities that are responsible for the protection and management of all species of rhinoceros. We would like to extend our appreciation for this substantial support to the following institutions, and hopefully we can add your zoo to this growing list! If you have questions about institutional memberships or any other questions please contact us at

internationalrhinokeeperassoc@gmail.com.

Partners



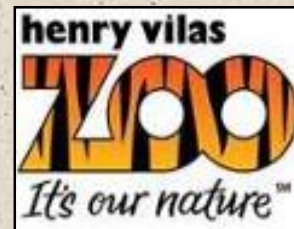
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