

Cooking for Anteaters and Marmosets By Ron Glazier, Santa Ana Zoo Director, Retired

My wife enjoys the cooking channel on television and therefore I have watched a multitude of cooking shows—and, I might add, eaten many wonderfully delicious meals as a result. However, neither Rachael Ray, nor Emeril Lagasse, nor even the venerable Julia Childs have ever given one useful recipe for preparing a dish for an anteater or a marmoset. My wife, on the other hand, has prepared a meal for a patas monkey, but that's another story.

Animal nutrition is one of the most critical aspects of zoo animal management. Proper diets are paramount for normal growth, development, and health, but also are crucial for successful reproduction and maintaining natural behavior patterns. The key factor with respect to nutrition is a thorough understanding of the animal's natural diet and feeding behavior, which must as nearly possible, be recreated in the zoo. For many animals this is relatively easy; for example, grazing hoof stock, or seed-eating birds. When it comes to more specialized eaters, such as termite-eating anteaters or pygmy marmosets that feed on tree saps, among other things, the zookeeper's task is more challenging.

Some of the larger zoos even have animal nutritionists on staff, but most rely on the expertise of the zoo animal curator and zoo veterinarian to review and formulate diets. Diet information is also shared among zoo curators, veterinarians, and keepers. As a matter of fact, when animals are moved from one zoo to another, they are always accompanied by their diet sheets so the recipient zoo can maintain continuity in the animal's diet routine. The American Association of Zookeepers has published the *Zoo Infant Diet Book* to

share their collective knowledge on the subject.

There are also several national vendors that produce specialized animals' diets that have been formulated through extensive research in animal nutrition. For example, one diet called "flamingo fare" was designed for the unique filter feeding behavior of flamingos. It also includes the color pigment necessary for maintaining their brilliant pink color. In nature, this carotene-type pigment—that's the same pigment that gives carrots their characteristic color—is found in aquatic algae. That algae is consumed by small shellfish, which in turn are eaten by the flamingos, and the pigment then ultimately winds up in the feathers of the bird. Without that supplement the flamingos, and the zoo's scarlet ibises, would gradually fade to white or pale pink.

All of the food given to Santa Ana Zoo animals is fresh and fit for human consumption, with perhaps the exception of meal worms, mice, and rats—although in many places in the world such things are consumed by humans. Diets are prepared by the keepers specifically for each animal, and necessary vitamins and minerals are added as required. In some cases, medications are added to the diet under the direction of the zoo veterinarian.

Diets are varied periodically to take advantage of seasonal food items, to add interest and provide enrichment; that is, to prevent boredom or loss of appetite. In addition, food may be presented in a variety of ways to encourage natural foraging behavior, to reduce competition among animals in the same enclosure, or to stimulate mental and physical activities. Some examples are: placing individual



pieces of fruit throughout the monkey's exhibit rather than just putting it all in one pan, or putting meal worms in a PVC pipe that has holes drilled into it so that a monkey has to manipulate the pipe to shake out the worms.

Favorite food items may also be used to reward animals that are being trained to perform certain behaviors. Known as operant conditioning, food items are used to reward a series of successively refined behaviors until the animal successfully performs the required task. For example, a monkey may be trained to put its arm through a small opening in its enclosure so the veterinarian can give it an injection without having to sedate the monkey first.

Diets are weighed, measured, and recorded. On a regular schedule the animals are also weighed or measured to see if they are maintaining proper weight. If the animal's weight varies from the normal range, diets can be adjusted accordingly. Keepers also know the feeding behaviors of animals entrusted to their care and can often get early indications of impending health issues by noting changes in feeding behavior or the amount of food consumed. One of the reasons why the zoo restricts

Continued on back page.



1801 E. Chestnut Ave.
Santa Ana, CA 92701
www.santaanazoo.org

Time Sensitive Material



Cooking for Anteaters and Marmosets, continued.

the feeding of zoo animals by the public is that their food intake is closely monitored. Animals fed popcorn by the public, for example, may fail to eat the more nutritious food provided by the keepers. In addition, the animal may gain unnecessary weight. It is also possible for some diseases, such as colds or flu, to be transmitted from the public to the zoo animals, particularly primates, through food that is handled by the public.

Diet is so important that FOSAZ is embarking on a major fundraising campaign to build a new animal commissary. The commissary is the building that houses the animal kitchen, dry food storage, and refrigerators and freezers. The new kitchen will replace the one currently housed in one of the Zoo's original buildings built in the early 1950's. The current facility has been updated several times, but the Zoo's continuing growth and anticipated future developments require an improved and expanded facility. New energy-efficient food coolers and freezers will save on energy costs and ensure less spoilage. Stainless steel appliances and work counters with impervious wall and floor surfaces will enhance cleanliness and sanitation. Rodent- and vermin-proof food storage will reduce disease transmission, food spoilage, and unwanted rodent populations on the Zoo grounds.

As a member of FOSAZ, you can make a big difference by making a contribution to our ANIMAL COMMISSARY CONSTRUCTION FUND. You can provide the best meals for our animals by donating the price of a meal for your family! \$10 \$15 \$20 \$25 Whatever you can afford to give will make for happy animal tummies!! Thank you for continuing to support your Zoo!

Zoo Info:

HOURS:

Gates Open 10 AM
Gates Close 4 PM
Grounds Close..... 5 PM

The Santa Ana Zoo is open daily except Christmas Day and New Year's Day.

ADMISSION:

Adults (13+)\$8.
Children (3-12)\$5.
Seniors (60+).....\$5.
FOSAZ members and children under 2 are FREE.
Train Rides.....\$3.
Carrousel Rides.....\$3.

11 AM-2 PM Every Day (\$5 Combo Tickets for Train & Carrousel available) Subject to change without notice. Call for further information (714) 836-4000.

TELEPHONE NUMBERS:

Recorded Zoo Info:
(714) 835-7484

Education Dept.:
(714) 647-6575

Gift Shop:
(714) 542-9650

Friends of Santa Ana Zoo:
(714) 953- 8555

WEB SITE:

www.santaanazoo.org

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TO INSTILL A PASSION FOR THE NATURAL WORLD THROUGH RECREATION, CONSERVATION AND EDUCATION

Animal Tales

A
LOOK
AT
WHAT'S
INSIDE



Animal Trading Card
Do they really have red hands?



Zoofari 2009
Thank you for making the Funky Monkey a success!



Rheas
More coming soon to the Pampas

Fall 2009 - Volume 11, Issue 3

Special Events 2009

EVERY SECOND TUESDAY of the month: FREE admission for Santa Ana Residents Day. \$1 Train & Carrousel Discount Day (2nd Tuesday only).

September 26
Membership Appreciation Day — Members get FREE train rides, crafts and extra discounts: 11-2 PM.

October 11
National Chemistry Week/ Chemistry Day — Chemistry displays sponsored by the American Chemical Society: 11 AM-3 PM. FREE with price of admission.

October 17, 18, 24, 25, 30
Boo at the Zoo — Halloween family festival with trick-or-treating, costumes, lights and decorations, nocturnal animal presentations, train and carrousel rides: 5:30-8 PM.

November 21-22
University of California Master Gardeners — Fun activities and helpful information for the gardening enthusiast: 11 AM to 3 PM. FREE with price of admission.

December 19 & 26
Holidays with the Critters: Holiday family event with music, holiday crafts, lights, and decorations: 6-8 PM.

- **"Dreamnight" 12/18:** special invitation only for children living with life threatening conditions.
- **City of Santa Ana and Seniors Night 12/19:** City residents, employees, and seniors get in FREE.
- **Member Appreciation Night 12/26:** Members get in FREE.

Spring 2010
Tierra de las Pampas Grand Opening! — Grand opening of the new exhibit. Open to the public. 11am – 2pm.

Dates are tentative and subject to change. For additional information on any event, please contact the Friends of Santa Ana Zoo at (714) 953-855 x12.

Boo at the Zoo 2009



The ghosts are bringing the pumpkins, the monkeys have picked out the candy, and once again the Santa Ana Zoo is excited to present another "merry not scary" Boo at the Zoo. These howling good times will take place on Saturday, October 17; Sunday, October 18; Saturday, October 24; Sunday, October 25; and Friday, October 30, from 5:30 to 8:00 PM. For the 18th consecutive year the Zoo will be filled with decorations, treats, games, music, and Halloween Cheer! Boo at the Zoo is an annual tradition held throughout the Zoo and is fun for ghosts and goblins of all ages.

You can trick-or-treat your way through the Zoo, wearing your favorite costume, and then join in the nightly costume parade led by Count SAZOO (the Zoo's monkey mascot)! You will also be able to meet and learn about some of our interesting and beautiful nocturnal animal friends with live encounters and frightfully fun educational programs. Plus, there is no better place to listen to ghoulishly good Halloween tales than in the big red barn of our

Crean Family Farm. General Admission is \$10 per person ages 2 and up, and \$5 per Zoo Member ages 2 and up. Children under the age of 2 are free. The Zoo's train, the "Boo" fari Express, will be making its way around the haunted tracks for \$3 per ride; and join us for a spin on the Carrousel for \$3 per ride or a combo ticket for both for \$5. Snacks and drinks will also be available for purchase each night.

For those who are a little older and a little more adventurous, the Zoo will have a haunted house in a separate area (included in the regular price of admission) that is sure to provide chills and thrills for those who dare to enter.

To avoid the lines, tickets will be available online after October 1 at www.santaanazoo.org (valid any night of the event, nonrefundable – bring receipt to Will Call on the night of the event). You may also purchase tickets at the main gate on the night you attend. For more information please call (714) 953-8555 x12.

See you at BOO!

Animal Trading Card



Common Name:
Red-handed tamarin

Scientific Name:
Saguinus midas

Distinguishing Characteristics:

The red-handed tamarin is a New World monkey named for the reddish-golden hair on their hands and feet. They have long tails that can be wrapped around branches. Unlike other primates, they have claws instead of nails on all their digits with the exception of their big toes.

Habitat: Red-handed tamarins can be found in Northern Brazil, Guyana, French Guiana and Surinam. They are arboreal and prefer small- crowned trees.

Wild Diet: Red-handed tamarins are omnivorous and will feed on fruits, flowers, insects, small frogs, and lizards. They will also eat sap, resin and nectar from trees.

Facts: Red-handed tamarins are highly endangered due to the loss of their tropical rainforest habitat. Tamarins live in groups of four to 15 members. All adult members of the group take care of the young. Red-handed tamarins are heavy sleepers, and they sleep together as a group.



Friends of Santa Ana Zoo Welcomes New Board Members



Kelly Michel

Kelly Michel is the Senior Vice President of the Institutional Sales and Business Development Group for Transamerica Retirement Services, based in Los Angeles, CA.

Ms. Michel joined Transamerica Retirement Services in 1998. In her current role, she is responsible for the strategic management of three distinct teams including the Business Development Group, TPA Services and Special Markets. Her focus is on building, maintaining, and strengthening key partnerships and distribution relationships for their corporate retirement plan

products and solutions.

Further, Ms. Michel also is the US representative for the AEGON Global Pensions. This organization's main objective is to generate business from multinationals eager for a different, more cross-border approach to pension management.

She is an active member of ASPPA, and the National Association of Professional Employer Organizations. She has authored several articles for industry publications on retirement plans and the value of participating in Multiple Employer Plans.

She received her Bachelor of Science in Business Management from Pepperdine University in Malibu, CA. She is a registered representative and principal with the FINRA and is a licensed insurance agent. She holds the AIF® designation from the Center for Fiduciary Studies, affiliated with the Katz Graduate School of Business, University of Pittsburgh. She resides in North Tustin with her husband and son.

Monica Kim is the owner and principal designer of Jolie Interiors Design Service.

In addition to learning about interior design throughout the US and Europe, she has studied Political Science and Chemistry while attending Austin Peay State University, and has a Masters Degree



Monica Kim

in history.

She and her family are avid animal lovers – with the exception of their dog Winston, who really does not care for either cats or coyotes - and they would have two or three of just about every animal if they could manage it. Since that isn't an option, they spend a lot of time at the Zoo instead. You will probably be able to find them on the train or carousel, or in the bird sanctuary looking at the turtles on any given weekend.

Huge Success at Zoofari 2009 – Thank You!

Funky Monkey, was the theme of this year's Zoofari, held on August 22 here at the Santa Ana Zoo. Zoofari has become one of the most enchanting, exciting, and entertaining fundraising events in Orange County, all thanks to you!

Zoofari proceeds from this year are being used to upgrade our Zoo's commissary, where the food for the animals is prepared, along with other important Zoo upgrades in preparation for our upcoming AZA inspection.

We'd like to thank our Co-Chairs Ed Arnold and Sandy Segerstrom Daniels as well as our Master of Ceremonies Chuck Dreyer. This year, we honored Lana Chandler, the Del Oro Pacific Railroad Club, and the Santa Ana Elks Lodge No. 794.

Also, we must mention the incredible



amount of work a very creative and dedicated Zoofari committee put into making this event happen. The Santa Ana Zoo at Prentice Park could not continue its development into one of the premier small zoos in the country without the support of its generous donors, Friends of Santa Ana Zoo (FOSAZ) and its board of

directors, and the substantial investment from the City of Santa Ana in providing the Zoo's operating budget. The Parks, Recreation and Community Services Agency (PRCSA) also provides extensive operational support through its Administration/Design Division and Park Services Maintenance Division. The Zoo is proving to be a model of private and public collaboration for providing top-quality care for the animals we maintain, outstanding educational and conservation programs, as well as a beautiful zoological and botanical garden for our community to enjoy.

There is still much more to be done, as the possibilities are endless and exciting. With the outstanding success of Zoofari 2009, we are already planning for an even better Santa Ana Zoo. Thank YOU for your support.

Animals Updates – Summer 2009

A record number of monkey births continues this year with the arrivals of a baby owl monkey and a baby saki monkey. The baby owl monkey, whose sex is yet to be determined, was discovered on May 4 and the baby saki monkey was discovered on May 18. It appears the saki monkey is a boy because the fur on his face is beginning to turn pale white. White-faced sakis are a dimorphic species meaning males and females look different, with the males possessing a bright white face.

Animal acquisitions for the Tierra de las Pampas exhibit continue, and the Zoo is currently in the process of acquiring additional rheas. Rheas, the largest birds in the Americas and relatives of the ostrich, are found foraging throughout the grasslands of Southern South America in search



Owl Monkey

of their favorite foods: roots, fruits, seeds, and leaves. The giant anteaters continue to do well and live off-exhibit while the construction of their new home wraps up. Anteaters enjoy water and take daily



Anteater

baths in the kiddie pools we provide for them in their temporary home. During bath time the anteaters splash and make sure they comb all parts of their fur by using their large claws.

Zoo News from Kent Yamaguchi

I'd like to introduce myself as the new director of the Santa Ana Zoo. While I've only held that position since March, I've been involved with the Santa Ana Zoo much longer.

Growing up just three miles from the Zoo, I came with my parents to the "Prentice Park Zoo" on a fairly regular basis. My favorite TV show back then was "Mutual of Omaha's Wild Kingdom". I loved watching Jim Fowler (assistant to the host, Marlin Perkins) wrestle snakes and all forms of creatures with dangerous teeth and horns. Coming to the Zoo was a fascinating way to interact with the wild animals I saw on TV. On these Zoo visits I remember seeing all of the monkeys grooming one another, the alligator staying so still it looked dead, bears standing up on their hind legs, and a fox smelling like

a skunk. These are fun family memories that I will always remember.

Being allergic to fur and feathers, I never dreamed of working at the Zoo. However, my high school youth pastor used to tell stories of his unusual experiences working at the Los Angeles Zoo before he had become our youth pastor. He often said that working with zoo animals prepared him for working with high school students. Even though his stories were always fascinating, I could never figure out what would drive someone to work at a zoo. It seemed so strenuous, messy, and allergen-filled.

To my surprise in the summer of 1987 I got a job at the Santa Ana Zoo. I had been working with the Orange County Department of Education as an outdoor instructor and was offered a summer job

teaching at the Zoo Camp. That is when I learned of the many conservation programs in which the Zoo is involved and the remarkable impact the Zoo has on young people. I got hooked and have been working at the Santa Ana Zoo ever since.

The Zoo's animal collection is amazing, and it's fun for me to just wander around the grounds, but the thing that impresses me the most about our Zoo is seeing the impact that the staff has on the lives of our visitors and volunteers. The staff is committed to providing the best possible experiences for our animals as well as for the people who visit them. I have thoroughly enjoyed the last 22 years here at my various Zoo jobs and look forward to many more productive years in my new position as the Zoo director.

Family Adventure Classes

A variety of natural science workshops are offered to the public on the weekends. All sessions are geared to a variety of ages and provide an exciting opportunity to learn about animals and nature firsthand. Call the Zoo Education office at 714-647-6562 for information. **Reservations and payment must be made in advance.**

Breakfast with the Beasts

Join us early Saturday morning for a light breakfast of cereal, muffins, fruits, and juice. In the new Crean Family Farm everyone lends a hand feeding the animals their breakfasts – all before the Zoo opens to the public. This single-session workshop is designed for both adults and children of all ages. Workshop meets from 8:30 – 10 AM. Fee is \$8 per FOSAZ member (\$12 per person non-member). Children two and under are free. Fee includes Zoo admission. Reservations must be made in advance.

Saturday, October 31
Saturday, December 12

Scout Patch Program

Designed for Scout groups, this program combines a variety of nature topics such as animal classification, endangered species, and conservation. Topics are chosen to help fulfill requirements for various badges and Try-Its for Cub Scouts and Brownies. Program includes an animal presentation, paper and pencil scavenger hunt, notebook, and embroidered patch for the Scouts. Program is offered on select Saturday afternoons from 2-4:30 PM. Fee is \$10 per Scout and \$8 per adult and includes Zoo admission. Advance reservations are required.

Saturday, October 10
Saturday, November 14
Saturday, December 5

Conservation Education Theater



While visiting the Zoo, please stop by and enjoy the animal presentations in our Conservation Education Theater. These presentations are free with Zoo admission. The first weekend of every month will be our "special themes" weekend.

Weekends 12:00 and 2:30 PM

September 5, 6 & 7

In celebration of Labor Day we will focus on some of the hard-working tasks that animals do.

October 3 & 4

National Boss' Day is Friday, October 16 – Let's talk about hierarchy in the animals' workplace.

November 7 & 8

November is all about giving thanks – for some it is getting a good meal. We will talk about animal diets and who eats what!

December 5 & 6

Our education animals will be showing off the colors of the holidays: Hanukkah, Christmas and Kwanzaa.

Family Adventures Reservation Form

Parent Name _____

Child(s) Name(s) _____ Age(s) _____

Child(s) Name(s) _____ Age(s) _____

Complete Mailing Address / Street / Apt.# _____

City / State / Zip Code _____

Home Phone Number(s) — very important _____

Name and Date of Workshop _____

Number of Spaces Reserved _____

Total Amount of Check: \$ _____
Make Check Payable to
CITY OF SANTA ANA

Please mail Reservation Form and Payment to:

Education Department
Santa Ana Zoo at Prentice Park
1801 E. Chestnut Avenue
Santa Ana, CA 92701

KIDS ZONE Zoo Fable #18 The Red-handed Tamarins and the Wagon Ride

One day at the Santa Ana Zoo, the red-handed tamarin children wanted to play. So, after looking around their enclosure, their father put together some leaves and branches and made a makeshift wagon for the children.

The children shouted with glee over their new toy and could hardly wait for their father to pull them along for a wagon ride. "Patience," he told them, "for I must first eat the wonderful meal prepared for me by the zookeepers at the commissary to give me some strength."

Finally, he was ready and the children climbed onto the wagon. The father pulled them around and around in the enclosure. Then they came to a rough spot and the children started to complain and cry out. "Stop your noise!" cried the father. "What have you to cry about when the one who is drawing all the weight remains silent?"

Zoo Moral: Those who cry the loudest are rarely the most hurt.

WORD SCRAMBLE From Zoo Fable

1. **HEATRF** (who pulled the wagon)



2. **NATEPICE** (first spoken word in the story)



BONUS:

Now unscramble the letters circled above to discover this Santa Ana Zoo animal!



Hint: This animal can be found in the "Animal Updates" section of this newsletter.

Kids, send your Zoo art (along with your name and age) to:

Tom Decker, Friends of Santa Ana Zoo,
1801 E. Chestnut, Santa Ana CA 92701
or e-mail artwork to tdecker@fosaz.org.

Wish List for the Santa Ana Zoo

The Santa Ana Zoo is always looking for useful donations that can help our wonderful animals. So, while you're cleaning out your house or replacing old items, kindly keep your local Zoo in mind.

Current items of need:

Wire Cutters, 26" Hand Saw, Post Hole Digger, Vise Grips, 24" push broom.

Portable pressure washer, 2600 psi

Extension cords, towels, pruners, hedgers, exacto knives, poop scoops, leaf rakes, spade shovels

If you'd like to help out, but you don't have any extra items lying around, you can also help by purchasing the items new from the website [Wish List at: http://www.santaanazoo.org/supportus.php?cat=wishlist](http://www.santaanazoo.org/supportus.php?cat=wishlist)



Linda Ivanov accepts the FOSAZ "Star Award" from Rip Ribble, FOSAZ President, and Randy Schultz, Santa Ana College Professor of TV-Video Communications, for all of her hard work on the "Volunteer Recruitment" Video.



Clip and Save

Animal Trading Card