

# SEAALAS Animal Bytes...no blood , just ones and zeroes....



Seaalas.org

Volume 13, Autumn Edition

November 2013

## Trade in your Protein Shakes for Zebra Fish...!!



Harvard researchers have used Zebrafish, a tropical freshwater fish, to develop a way to turn human stem cells into muscle tissue.

Led by Leonard I. Zon, a senior investigator and professor of stem cell and regenerative biology, the study developed a technique to screen for chemicals in the Zebrafish that could make tissues grow better in a dish. The researchers focused on muscle tissue, showing that certain chemicals can expand muscle cells in a dish.

“We were able to show that one of those chemicals would stimulate mouse adult muscle cells to divide, and that is very helpful for doing transplants,” Zon said. “And we were also able to find that in human muscle, we were able to take a human iPS cell, which is a stem cell line, and turn it into muscle

with three other chemicals that we found in our Zebrafish screen.”

Co-author Amy Wagers, also a professor of stem cell and regenerative biology, said that one of the goals of the research is to work towards treating muscular disorders.

“The bottom line really is that we have new ways of boosting regenerative cells for muscles—of growing new cells in a culture dish so that we can study muscle disease and hopefully sometime soon use them to support muscle generation in patients who need support for muscle repair,” Wagers said.

Research fellow and co-author Salvatore Iovino said that the use of the Zebrafish was crucial in the experiment.

“Zebrafish is an amazing organism suitable to study development processes and perform drug screenings,” Iovino said. “This is mainly due to the fact that these fishes are

very easy to keep and breed [and] they lay [approximately] 200 eggs every week, making them a very useful model for the study of the embryo development.”

Zon explained that the research is paving the way to create cells of any tissue in the body.

“We’re starting, with our Zebrafish system, to take apart every single type of tissue and develop a map of different chemicals that we can use to dial up a certain kind of tissue,” Zon said.

As for future studies, Wagers said that the lab is collaborating with other researchers “to use these new cells that we can isolate and do additional drug screening using diseased cells to see if we can get around the impairments in the cells that cause muscle disease.”

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Harvard University

### What’s New:

- **THANKSGIVING DINNER FACTS....**
- **CALLING ALL VOLUNTEERS FOR TECH TALKS...**
- **GETTING READY FOR SEAALAS AWARDS IN COLUMBIA, SC ...**

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## For the last time...2013 Officers and Committee Chairs...

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# SEAALAS

2014 Officer Election Results

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**Secretary: Kristy Weed, *Emory***

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**Director: Lisa Wilson, *UGA***

**Congratulations to our  
winners and all our  
nominees!**

**See you in Columbia, SC for the  
2014 Annual Meeting and Awards Banquet!**

Rebecca Hunter, LVT, RALAT  
Emory University  
2013 SEAALAS Nominations and Elections  
Committee Chair





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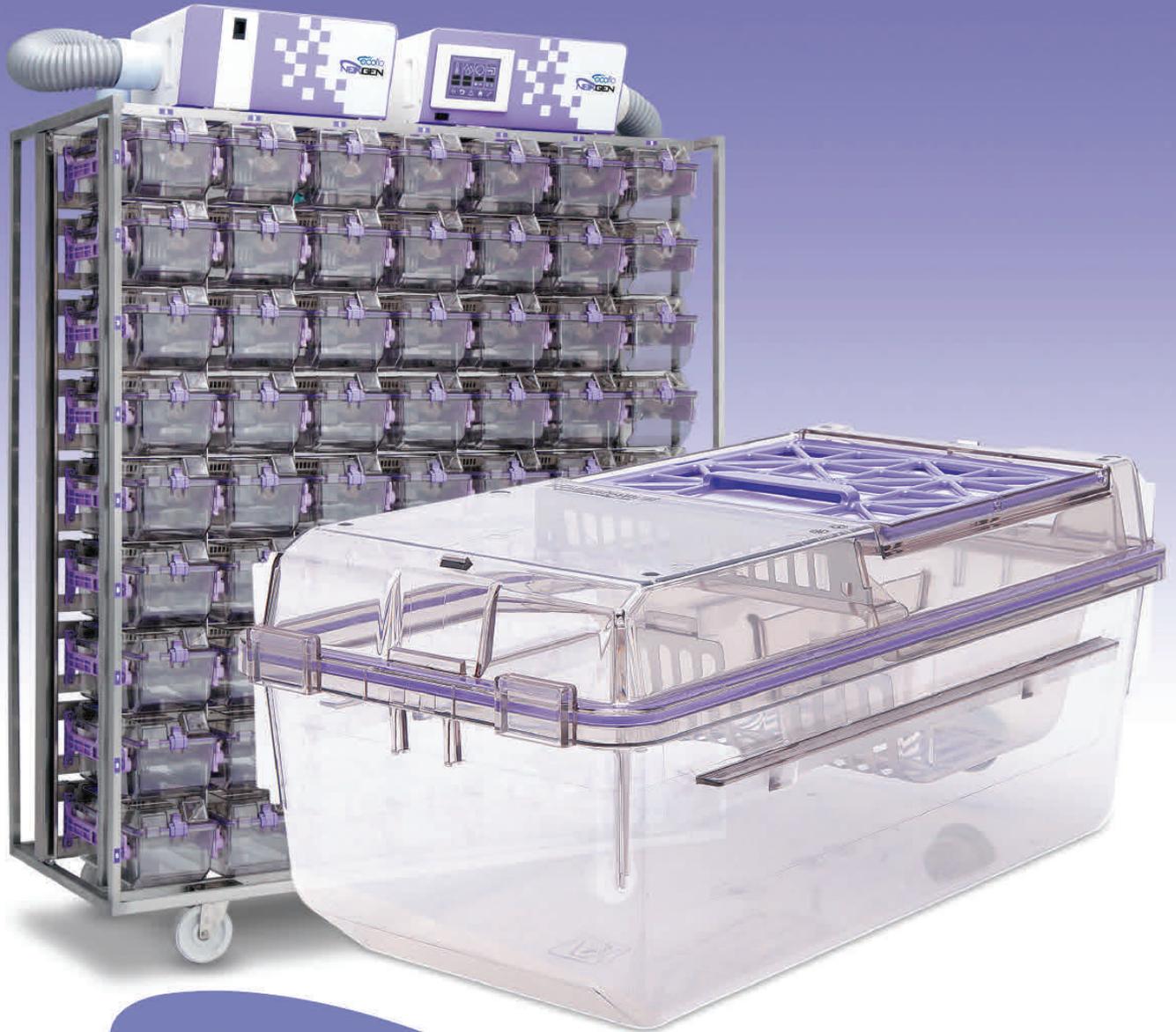
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## What's for Dinner on Thursday...!!!

### How the Turkey Got Its Name...

There are a number of explanations for the origin of the name of Thanksgiving's favorite dinner guest. Some believe Christopher Columbus thought that the land he discovered was connected to India, and believed the bird he discovered (the turkey) was a type of peacock. He therefore called it 'tuka,' which is 'peacock' in Tamil, an Indian language.

Though the turkey is actually a type of pheasant, one can't blame the explorer for trying.

The Native American name for turkey is 'firkee'; some say this is how turkeys got their name. Simple facts, however, sometimes produce the best answers—when a turkey is scared, it makes a "turk, turk, turk" noise.

At one time, the turkey and the bald eagle were each considered as the national symbol of America. Benjamin Frank-

lin was one of those who argued passionately on behalf of the turkey. Franklin felt the turkey, although "vain and silly", was a better choice than the bald eagle, whom he felt was "a coward".

According to the U.S. Department of Agriculture, more than 45 million turkeys are cooked and eaten in the U.S. at Thanksgiving—that's one sixth of all turkeys sold in the U.S. each year. American per capita consumption of turkeys has soared from 8.3 pounds in 1975 to 18.5 pounds in 1997. Ten years later, the number dropped in 2007 to 13.8 pounds.

In 2011, more than 248 million turkeys were expected to be raised with an average liveweight per bird of 28 pounds with nearly 6 billion pounds of turkey processed. By contrast, in 1970, only 105 million birds were raised with an average liveweight of 17 pounds and 1.5 billion pounds processed. The turkeys produced in 2010 together weighed 7.11 billion pounds and were valued at \$4.37

billion.

In 2002, retail sales of turkey was approximately \$3.6 billion. In 2010, sales reached \$4.37 billion.

Age is a determining factor in taste. Old, large males are preferable to young toms (males) as tom meat is stringy. The opposite is true for females: old hens are tougher birds.

A turkey under sixteen weeks of age is called a *fryer*, while a young *roaster* is five to seven months old.

Turkeys are the only breed of poultry native to the Western Hemisphere.

Turkeys have great hearing, but no external ears. They can also see in color, and have excellent visual acuity and a wide field of vision (about 270 degrees), which makes sneaking up on them difficult. However, turkeys have a poor sense of smell (what's cooking?), but an excellent sense of taste.

Domesticated turkeys cannot fly. Wild turkeys, however, can fly for short distances at speeds up to

55 miles per hour. They can also reach speeds of 25 miles per hour on the ground.

Turkeys sometimes spend the night in trees.

Turkeys can have heart attacks: turkeys in fields near the Air Force test areas over which the sound barrier was broken were known to drop dead from the shock of passing jets.

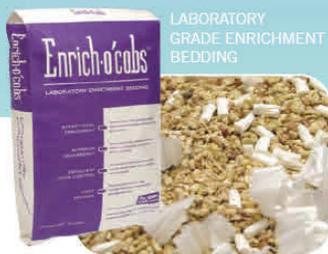
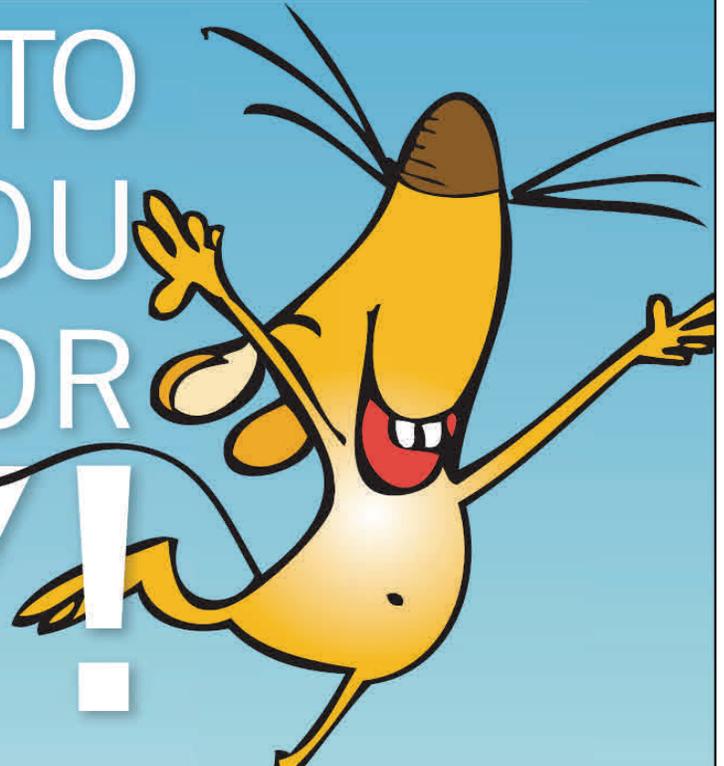
The ballroom dance known as the Turkey Trot was named for the short, jerky steps a turkey makes.

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## WHO'S NUTZ? Institutional News and Updates...



### Georgia State University

Hello SEAALAS,  
As I sit here waiting for my cars 135000 mile service to be completed, I figured I'd take the time to tell you of or recent changes here at GSU.

First, we said a sad farewell to two of our technicians: Venus Barnes and David James. Venus has moved to Childrens' Hospital of Philadelphia where she is now managing mouse breeding colonies. Good luck, Venus! David has returned to his roots to continue cutting hair, but he'll be back to help us part time. To replace them, we've hired Jared Holloway and Nikki Chotas as our new Lab Animal Technicians. Welcome to the team! Congratulations are due

to Mike Morrison, who has been promoted Facility Supervisor. We're sure you'll do a great job. We'd also like to congratulate Evan Hutto on the birth of his first child, little Kinsley. Another of our technicians has a baby on the way, Miss Ancilla Titus-Scotland; she'll be taking maternity leave in August, good luck and congratulations! Our biggest facility will be undergoing some renovations, to relocate and expand our BSL2 facility

and also to add a BSL3 facility. Renovations should hopefully be done by early next year. Another building is going up next door, which will add some procedural space for animal users and allow us to occupy several small housing rooms which have been used for behavioral testing. As you can see, GSU is going strong. Have a happy fall!

Respectfully submitted,  
Matt Davis  
Senior Administrative Coordinator-



### Dept. of HHS, CDC

This year has been busy so far for the laboratory animal program at the Centers for Disease Control and Prevention.

We had a successful AAALAC site visit and received our letter for continued accreditation in March.

Our animal care staff members are working hard to achieve their lab animal certifications. I would like to congratulate Patrese Muller (LAT), Kaja King (LATg) and Laterrence Johnson (ALAT) on their certifications. We have several folks studying now for ALAT, LAT, LATg, CMAR and CPIA certifications!

I would also like to congratulate our veterinary residents Drs. Ai Tsuiki and Jessica Ayers on passing the ACLAM board certification exam. Our "class of 2009" residents Drs. Crystal Johnson and Jessica Ayers will be completing their residen-

cies this fall. Dr. Crystal Johnson has accepted a position as Assistant Professor in the Center for Comparative Medicine and Surgery and will be head of Translational Veterinary Medicine and Director of the Program for Behavioral Enrichment at Mt. Sinai School of Medicine in New York, NY.

Dr. Jessica Ayers has accepted the position of Associate Director for Laboratory Animal Resources at Colorado State University in Fort Collins, CO.

They are both amazing veterinarians and we will miss them greatly.

We are looking forward to participating in the SEAALAS meeting in South Carolina this year! Hoping to see you all there!

Stephanie Gumbis, CDC



# WHO'S NUTZ? Institutional News and Updates...cont'd.



## University of Georgia

UGA Animal Resources is growing, changing and thriving! The Life Sciences team welcomes Kun Lu and his research. The Coverdell Rodent Vivarium welcomes Houjian Cai, Takahiro Ito, and Boris Striepen and all the research opportunities they bring! We always look forward to meeting new people and being able to be a part of new research projects. Other than welcoming

new PI's UGA has also had some important staff changes. We sadly said our goodbyes as Tina Tornambe the previous IACUC Coordinator left UGA and is now the IACUC Coordinator at Clemson University. In her place we now welcome and congratulate Stephanie Gavrielides who is now our new IACUC Coordinator and recently passed the CPIA exam. Lisa Kelly has recently accepted a position as the Research Compliance Training Coordinator, responsible for all research compliance. The Animal care team at UGA's Veterinary facility said their goodbyes to Alena Strelchik and Jonathan Lane who have moved on to further their careers. UGA says thanks to all the staff that has been working diligently during

all the staff changes. New positions have opened up in our department, the Administrative Specialist position as well as the IACUC Compliance Associate position. Qualified candidates are encouraged to apply.

Many of our technicians continue to further their careers in the animal care field. Congratulations to Robin Johnston, Chelsea Elliott, Chris Lozo, and Lauren Lipcsei for passing ALAT exams and receiving certification! We also congratulate Lisa Wilson who has diligently studied and passed her CMAR exam.

A dedication was held in memory of a very dedicated worker, Keith Hamm on August 27<sup>th</sup> 2013. He worked for UGA for 13 years, dedi-

cated to his job working hard in the washroom. He learned all the little idiosyncrasies of the cage washers and could tell immediately if anything was wrong. He developed many friendships with the Steris technicians, keeping them on their toes to keep the washers running smoothly. He passed away on 7/9/12 and has been greatly missed. So in his memory, we hosted a ceremony donating a bench in his honor. We are all appreciative to those who helped us honor him.

Special thanks to all those who contributed to UGA's news: Vicki Ellis, Missy Waters, and Lisa Kelly.

Nichole Snell

Animal Care Tech III, UGA



# WHO'S NUTZ? Institutional News and Updates...cont'd.



## Georgia Tech University

Hey everyone!

I hope you all had a great summer and looking forward to cooler weather. Things are going well here at Ga Tech with not much new excitement to report. We are still in the process of planning/building a new facility and we all know that this nightmare will

go on for awhile. This time next year they should be done, but I am not crossing my fingers. It amazes me how many de-

isions are made without consulting our group. Problem is we are the ones that will be actually working in this place for years to come. I know I am preaching to the choir with all of this. We have definitely utilized the **Compmed** and **Techlink** listserves during this time. It is so nice to know there are people out there that are willing to help just because they want you to succeed. If you are

a Manager, Supervisor or Technician and are not on these AALAS listserves, I would recommend signing up. Not all post will pertain to your facility, but it is very interesting to see all the questions that go around.

Over the past few months we sent Ogeda Blue to the Charles River Short Course in Boston and Josh Scarbrough to the Enrichment Extravaganza in Winston Salem. We try to send them to at least one meeting a year for both education and networking.

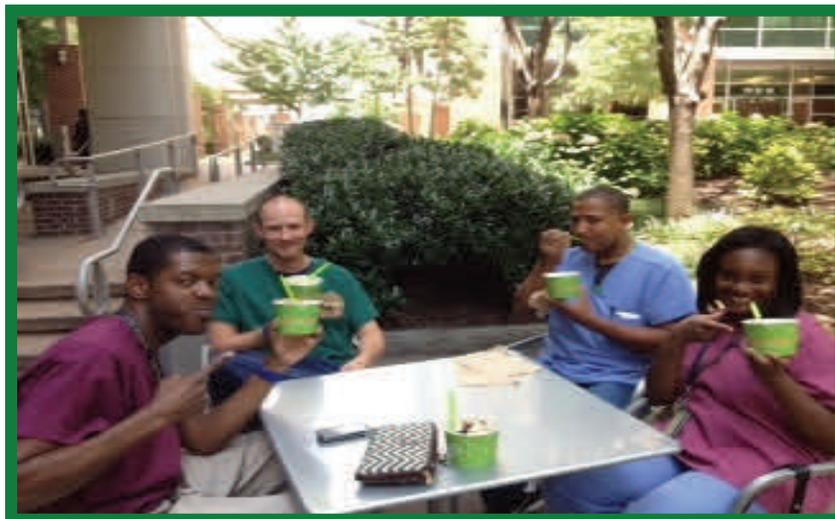
Every so often my staff likes to take "Human Enrichment" trips to spend time as a group away from the confines of the basement walls. Over the summer we took one of these breaks and had

yogurt up at Technology Square. If anyone has any ideas of things we can do or day trips we can take please let me know.

Kim Benjamin  
GA Tech

"If you are a Manager, Supervisor or Technician and are not on these AALAS listserves, I would recommend signing up. Not all post will pertain to your facility, but it is very interesting to see all the questions that go around."

K. Benjamin



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**SHEPHERD SPECIALITY PAPERS**

**WHO'S NUTZ? Institutional News and Updates...cont'd.****Medical University of South Carolina**

The Medical University of South Carolina, Department of Comparative Medicine and the Charleston Ralph H. Johnson VA Medical Center team up to bring you the latest news from Charleston, South Carolina.

MUSC is growing in leaps and bounds! DLAR have welcomed more new faces, and we would like to take a moment introduce them to you.

Patricia White is the newest member of the team at the Basic Science Building working with rodents. She has worked in many animal care settings ranging from Veterinarian Clinics, the South Carolina Aquarium, and Charlestowne Landing. At each place she has had the opportunity to improve the enrichment programs and gain as much knowledge as possible.

Ricardo Ortega is currently a team member

in the Strom Thurmond Building working in the cage wash. Ricardo is also a member of the United States National Guard.

Joe Hying is currently working in the Strom Thurmond Building working as a Research Specialist II in the Diagnostic Lab. He is originally from Cincinnati, but most recently Columbus, OH where he attended The Ohio State University. While at OSU he earned a BS in Zoology and became ALAT certified. He has over six years in experience in a BSL2 and BSL3 GLP facility. He enjoys hanging out with his dogs, playing soccer, and running in his spare time. Welcome aboard Guys!

We lost a great mentor and leader when Dr. Swindle retired. He was our department chair and director of lab animal resources. Dr. Swindle began his veterinary career at the age of 4 with his first job "snake-catcher". He made it official at Texas A&M where he obtained his DVM. After graduation he joined the US Army Vet Corp. After his mili-

tary commitment ended, he went to Johns Hopkins where he completed his Lab Animal Medicine residency. He became board certified and accepted the position here in South Carolina.

He arrived at the Medical University of South Carolina to a defunct lab animal program. He was appointed as the chair / director in 1985 and did what was necessary to gain AAALAC accreditation on his first inspection in 1988. The facility has retained uninterrupted accreditation under Dr. Swindle's guidance. He expanded the lab animal space 10-fold during his tenure. He was always looking to, upgrade, and expand to meet the needs of those we support, both the animals and the researchers. He is also an internationally sought speaker on the translational importance of performing research with swine. He has written several books and numerous papers on this topic. After all of this hard work, he still isn't finished. He has been appointed as a Professor Emeritus and continues to perform translational studies. He has "retired"

to the mountains of North Carolina with his wife Paula in their new home. While he enjoys his time there, he still visits us. He comes in the door and acts like he just got back from one of his international trips. While it is sad to see him go, I guess he has earned it.

DLAR also would like to say farewell to Erica Hussey and Josh Gailliard. We wish you both the best of luck in future endeavors.

AALAS Certification News: Sarah Cantrell and Gene Thompson have passed the ALAT Certification. Congratulations! Hopefully we will have more good news to report on this front next time as we have several scheduled to take a certification level soon. Keep

"We would like to Congratulate Dr. Paula Ezell for passing the American College of Laboratory Animal Medicine (ACLAM) certification examination in June." Deidre Wright, LATG

## WHO'S NUTZ? Institutional News and Updates...cont'd.



### Medical University of South Carolina

The following Technicians have been awarded Tech of the Month for a job well done during the 2013 year:

January 2013:  
**Erica Hussey**

February 2013:  
**Tyrique Brown**

March 2013:  
**Alison Levy**

April 2013:  
**Jerome Frazier**

May 2013:  
**Gene Thompson**

June 2013:  
**Melissa Eustace**

July 2013:  
**Chao Sun**

August 2013:  
**Nancy Lewis**

September 2013:  
**Chao Sun**

**Keep up the excellent work guys!!**

We wish you all a happy fall, and a wonderful holiday season. See you in January at the annual meeting.

Submitted by: Deidre Wright, LATG



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## WHO'S NUTZ? Institutional News and Updates...cont'd.



### Ralph H. Johnson VA Medical Center, Charleston, SC

Greetings from the Low Country! We have had a summer of many changes at our facility.

Our beloved Director of the Laboratory of Animal Resources, Kathy Laber, DVM, has accepted a position at NIEHS in Raleigh/Durham. We all wish her success in her new position as Chief of the Comparative Medicine Branch, Attending Veterinarian and Animal Program Director. Dr. Laber has been an integral part of the VA for many years and will be missed as a friend, leader and colleague to so many here at the facility.

We are welcoming in September our new VMO and Director, M.A. McCrackin, DVM, PhD. Dr. McCrackin joins us from Virginia Tech,

where she was the University Veterinarian and Director of Laboratory Animal Resources. Dr. McCrackin shares that she is excited to be back near her veterinary alma mater (UGA, '89) and former workmates there (1999-2002), to join SE-AALAS and meet new colleagues, to return to her birth state of South Carolina, and to become a part of the accomplished VA and MUSC teams in Charleston. Dr. McCrackin, known to her friends and colleagues simply as "M.A.", was reared in the high humidity and scorching summer heat of the low country (Myrtle Beach), so we are confident the weather will not scare her off. . . at least we hope not.

We would also like to welcome and introduce Tony Paladino, our new Administrative Officer/R&D. Tony joins us from the Lexington VAMC in Lexington, KY where his first position was as a lab animal technician so he has an extensive understanding of the workings of the Animal Facility which will be invaluable as he fills his new role.

As Tony arrives, we say goodbye to Ben O'Dell, who previously served as AO and wish him luck in his new position at the VAMC main hospital. Tony has some big shoes (literally) to fill. Joking aside it is hard seeing people we are close to leave but satisfying to see their progress and accomplishments. It is all part of change and growth.

Congratulations are in order for Aurelio Vidal-Ortiz for successfully passing his ALAT test! Aurelio was a veterinary technician in the military stationed in Germany. Vidal has transitioned with enthusiasm from working with military service dogs and enlisted personnel pets to caring for research animals.

The Veterans Administration, in conjunction with the Army Corp of Engineers, is in the process of constructing a new Mental Health Research Building for the benefit of Veterans suffering from the devastating effects of PTSD/mental health issues. We look forward to the opening of the 16,000 s.f. facility which

will be located as a wing of the existing hospital. Much of our animal research focuses on these issues so it is always encouraging to see the groundwork translate into real help for our Veterans.

So you can see we have not all been having a lazy summer sipping sweet tea trying to stay cool. We have been in the midst of change and looking forward to all the challenges it brings.

Deidre Wright, LATG, MUSC

**"Congratulations are in order for Aurelio Vidal-Ortiz for successfully passing his ALAT test! ."**

**Deidre Wright, MUSC**



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## TECH-Uniques...

# Recovery from Anesthesia...

Office of Research, UC Santa Barbara ...January 2011, Revised April 2012

Surgery is not successful until the animal has fully recovered from anesthesia without any unintended physical or physiological impairments.

The time that it takes until an animal is fully recovered from anesthesia will vary depending on the anesthetic agent, the type and duration of the surgery, and the physiological imbalances induced by the surgery or anesthesia.

During this period the animal must be closely (e.g. at least every 15 minutes) and carefully monitored. Furthermore, since in rodents hypothermia and dehydration are two of the most common complications that are encountered, it is very important to provide supplemental heat and fluids.

The following are recommendations for caring for an animal during the post-anesthetic phase:

The animal should be continuously monitored until it is conscious, or can be

aroused when handled, and has stable vital signs (e.g. regular breathing pattern and rate).

Prevent hypothermia by placing the animal on a clean dry and warm surface. For example, the animal's cage may be placed on a padded surface supplied with supplemental heat (e.g. water circulating heating pad). Be cautious with supplemental heat sources; hyperthermia can be as detrimental as hypothermia.

Provide replacement fluid therapy as needed. Replacement fluid therapy is not usually required for most rodent surgeries, which do not involve prolonged operative times and cause only minimal bleeding.

If blood loss occurred during the surgical procedure, or if the animal is slow to recover from anesthesia, then pro-

vide subcutaneous fluids (saline, or Lactated Ringer's Solution) at a volume of up to 5% of the animal's body weight (i.e. 5 ml per 100 gm).

As a general rule, animals should not be returned to the animal room until they can stand and move about their cage.

To prevent cannibalism or suffocation, house rodents individually until they can stand and move around. Additionally, house animals individually if they have external catheters or ports.

After the animal is returned to the animal room, a member of the investigator's staff or other individual to whom postoperative care has been delegated should monitor the animal at least once a day.

The animal should be observed for signs of pain, and surgical complications, including infection or dehiscence of

the surgical site(s).

Analgesic treatment should be administered as described in the IACUC protocol.

The Campus Veterinarian should be contacted if there are any unexpected complications.

External wound clips should be removed 7-14 days after the surgery.

UC Santa Barbara

**“Surgery is not successful until the animal has fully recovered from anesthesia without any unintended physical or physiological impairments.”** - UC Santa Barbara



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## LEGALi-Tease...Put the broom away!

### D.C. Council bill outlines humane treatment of wildlife...by Tim Craig, Staff Writer for The Washington Post

D.C. residents might want to think twice before they use a broom to try to swat that bat in their garage or set out rat traps to ensnare the opossum living under their porch.

After being at the complete mercy of man since before Colonial days, wild animals that roam city neighborhoods could soon have their own bill of rights.

Council member Mary M. Cheh (D-Ward 3) introduced a bill Tuesday that would impose new standards to make sure furry creatures that live in or travel through city neighborhoods are treated humanely.

The legislation, which Cheh crafted with the help of the Humane Society of the United States, states "lethal control" of raccoons, rabbits, bats and other wild animals should be pursued "only when public safety is immediately threatened" or non-lethal methods have proven unsuccessful.

"We have raccoons that live in a tree in the imme-

diately neighbor's yard, and they coexist with us," said Cheh, who lives in Forest Hills. "I think the first reaction should be, 'Is this really a problem?'"

Cheh's bill exempts "commensal rodents," meaning homeowners and exterminators will still be able to use traps and poison to kill rats and mice. But trappers will no longer be allowed to use glue and "body gripping" traps to catch larger animals. "It's a form of horrible torture with no release or respite for the animals," Cheh said.

The proposal does not apply to Rock Creek Park, which is governed by federal regulations. So the city still won't be able to intervene in the ongoing debate over whether the National Park Service should allow lethal force to curb the deer population.

But those coyotes and foxes that have been spotted in Upper Northwest in recent years will be able to rest a bit easier if Cheh's proposal becomes law.

As drafted, the bill applies

only to wildlife specialists and professional trappers. But Cheh plans to have it amended so that it also prevents homeowners from using inhumane tactics or traps.

"If you can relocate, relocate," Cheh advised. "Euthanasia should be the last resort."



Brian Glover, owner of DMV Wildlife Services, said trappers and homeowners looking to rid their properties of raccoons or other nuisances in the District currently do not have to abide by any regulations.

"Right now, it's just a free-for-all in D.C., and people do what they want," said Glover, who supports the

legislation.

John Adcock, owner of Adcock Trapping Service in College Park, said many of the regulations appear to be standard procedure. But Adcock said he worries that the Humane Society might have played too big a role in drafting the regulations.

"We want the critters to have a chance, too, but we don't want homeowners to have squirrels ready to burn their house down or raccoons tearing up the attic. We will give them a few days to go peacefully, but after that, we have to do what we have to do," he said.

If Cheh's bill is approved by the full council, all private wildlife control officials would have to be licensed to operate in the city, similar to requirements in Maryland and Virginia.

Under the legislation, a wildlife agent's first goal should be to get the unwanted animal to leave an area before having to resort to trapping it.

Cont'd next page...

## LEGALi-Tease...put the broom away! Cont'd

### D.C. Council bill outlines humane treatment of wildlife...by Tim Craig, Staff Writer for The Washington Post

If trapping is required, the operator would be required to check the trap at least once every 24 hours to make sure trapped animals do not starve.

strategies" for a mother and her young.

"A wildlife operator shall not knowingly abandon dependent young," the bill states.

If an animal needs to be relocated, the trapper should release it within 12 hours. But there is a catch: Trappers should "make every reasonable effort to preserve family units."

If an animal needs to be killed, a wildlife control specialist would be required to abide by standards established by the American Veterinary Association Panel on Euthanasia.

That could require trappers to develop "reunion

The panel has issued a 39-page report that outlines



mal cruelty charges. Cheh's legislation goes into even greater detail when it comes to the restrictions on efforts to control some species.

If approved, it will be illegal to disturb hibernating bats for the winter. During the summer, a permit will be needed to remove a colony that contains 10 or more adult bats. It will also be illegal to poison pigeons and sparrows.

which kinds of euthanasia are acceptable for different animals. Wildlife control specialists who violate the standards would have their licenses suspended and could be prosecuted on ani-

- The Washington Post, by Tim Craig, Staff Writer

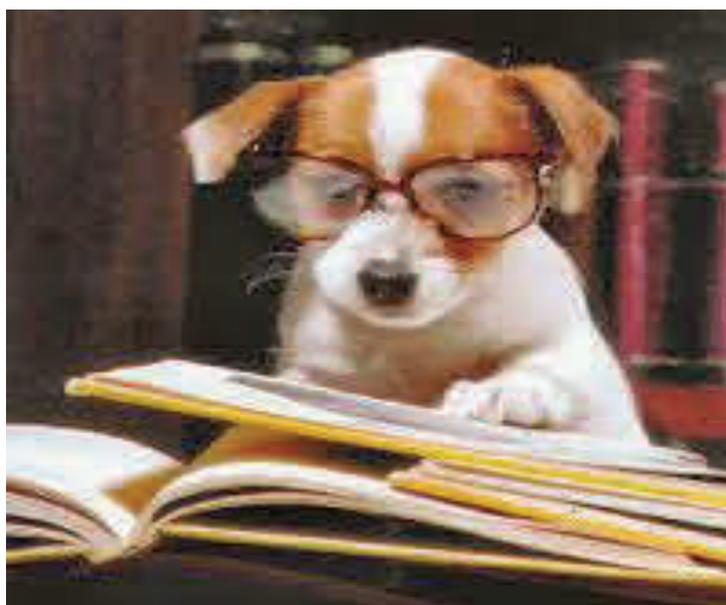
## LEGALi-Tease...Did You Know?

Animal law has been taught in at least 119 law schools in the U.S., including Harvard, Stanford, UCLA, Northwestern, University of Michigan, Georgetown, Duke, and Lewis & Clark and is currently taught in at least 117 schools.

fense Fund (SALDF) chapters in 132 law schools, with an additional seven chapters in Canada. SALDF chapters are student groups that are affiliated with the Animal Legal Defense Fund and share its mission to protect the lives and advance the interests of animals through the legal system.

Animal law is also currently taught in 7 law schools in Canada.<sup>[8]</sup> In the U.S. there are Student Animal Legal De-

[www.wikipedia.org](http://www.wikipedia.org)



## LOOK BOTH WAYS....SAFETY FIRST!

### Choosing the Right Types of Safety Glasses

Of all the hazards faced as an animal researcher, the one ubiquitous danger faced almost daily is hazard to the eyes. When working in the laboratory, eye hazards are always present and take many forms. Ocular exposure presents a serious risk for animal researchers and handlers as infectious diseases can be transmitted through the mucous membranes of the eye as a result of direct exposure. Examples include blood splashes, fecal matter, and respiratory droplets from coughing, sneezing, or suctioning. Potential infections range from relatively minor conjunctivitis (reddening/soreness of the eye) to life threatening disease such as HIV, B virus, and avian influenza.

We hope that most laboratory professionals are familiar with basic eye protection, but how much training do animal researchers or technicians get on this important is-

sue? Did you know that about 2,000 eye injuries resulting in lost time away from work occur on the job every day?

And here is a shocker, three out of five eye injuries are due to employees not wearing eye protection at all. There is no excuse for this. Do you or your workers realize that even "minor" eye injuries can cause long-term vision problems and suffering? For example, that corneal scratch above can lead to corneal erosion and life-time recurring pain.

Animal research laboratories have their own unique eye hazards and eye protection should be worn all the time, even by visitors. It is not a question of when is eye protection needed but what is the correct type of safety eye wear.

When we look at those 2,000 injuries per day that require medical attention, besides not wearing eye protection, many are also due to wearing the wrong type.

So, what type of eye protection is appropriate for laboratory work? Let's see if we can help answer those questions.

### **Step One: Perform Hazard Analyses**

Industrial hygienists are trained to deal with occupational hazards in a basic three step process: Recognition, Evaluation, and Control. We are strong believers in prevention and this means removing the hazard if possible or controlling it with engineering methods. Personal protective equipment, such as eye protection in this case, should be a last resort for putting a safety barrier between the hazard and the worker.

After identifying the potential eye hazards for your task see if you can reduce the eye hazards by substituting chemicals, changing the procedure, or utilizing engineering solutions. Engineering controls include shielding or guards to prevent particles and splashes from being dispersed, fume

hoods or local exhaust ventilation to contain dusts, particles, and vapors, and safety eyeglasses for alternate light sources.

**"Of all the hazards faced as an animal researcher, the one ubiquitous danger faced almost daily is hazard to the eyes." - ALNMAG.COM**

### **What Type of Eye Protection is Best?**

No matter the type or style of eye protection workers should always wear equipment that meets American National Standards Institute (ANSI) standard Z87.1-2010.<sup>3</sup> Safety eyewear that meets Z87 is tested and must pass stringent requirements for basic mass impact (a 1" steel ball dropped from 50"), high mass impact (a 500g pointed projectile dropped from 50"), high velocity impact (a 1/4" BB shot at 150-300 ft/sec), distortion, light transmittance and lens thickness (not for impact rated protectors) among others.

Cont'd next page...

## LOOK BOTH WAYS....SAFETY FIRST!

### Choosing the Right Types of Safety Glasses...cont'd...



Safety eyewear that passes all the tests will carry the Z87+ mark in addition to marks for lens type and use applications.

After this, the next rule is the old cliché...the right tool for the job. The type of eye protection must match the hazard and there are definitely more appropriate types for

certain hazards.

Polycarbonate lens safety glasses are the most prevalent type of eye protection. Polycarbonate is a type of plastic that offers extreme resistance to impact due to unique properties of strength and flexibility. Used in “bulletproof” windows in addition to safety glasses and many other applications, it provides excellent protection from flying debris and ultraviolet light (UV) while being lightweight.

However, because its impact resistance comes from being flexible the material is prone to scratching. So look for

safety glasses with hard-coated polycarbonate lenses.

Safety glasses come in every shape and style imaginable. Well-designed products will be lightweight, comfortable, and economical. Also important is a good fit. Keys to look for are soft rubber nosepiece and adjustable, rubber-tipped temples that hold well without excessive pressure. Soft sticky rubber in these areas provides good grip even when sweating.

Style may be even more important than comfort and fit, at least in some cases. Although style does

not rank high as a safety feature or score points with management or your purchasing agent, it is what motivates many workers to wear their safety glasses. In our experience, facilities that offer the newer stylish wrap-around safety glasses find compliance problems reduced significantly as workers actually want to wear them. Another advantage for the wrap-around safety glasses is that they also provide good protection from airborne debris and meet the OSHA personal protective equipment (PPE) eye and face protection standard for side protection in the presence of flying objects.

[www.alnmag.com](http://www.alnmag.com)

### Don't forget to Register for SEALAS 2014 in Columbia...!!!



### Some Fun Facts about Columbia, SC...

- Columbia is the largest city and also the capital of South Carolina.
- The name "Columbia" was a poetic term for the Americas derived from Christopher Columbus.
- [Columbia] was the location of the South Carolina Secession Convention, which marked the departure of the first state from the Union in the events leading up to the Civil War.
- In 1801, South Carolina College (now the University of South Carolina) was founded in Columbia, the original building survives.
- Columbia received its first charter as a town in 1805.



*Technicians!*

*Gear up and get ready, because it's time to start thinking about Tech Talks for the annual meeting in Columbia.*

*Talks should be 10-15 minutes and include a visual aid, like a powerpoint.*

*Tech talks are a lot of fun and are a great way to get involved in*

*SEAALAS. Also, giving a tech talk can make you eligible to apply for a travel award!*

**The 2014 SEAALAS Annual Meeting will be held at the Hilton  
Columbia Center in Columbia, South Carolina  
January 29th–31st 2014**

*Please send me an email with the title of your talk and your contact information to: [tbr@seaalas.org](mailto:tbr@seaalas.org)*

*Amy Dryman, TBR*

## Join the Party...!



### **Individual active membership**

(\$15 per year; \$10 per year if paid prior to April 1)

### **Institutional membership**

(\$100 per year for up to 12 persons. Please attach sheet with names, address, telephone and fax numbers, E-mail, and AALAS

certification level for each institution member. Additional persons can be added under individual membership status.)

### **Commercial membership**

(\$200 per year for two persons. Membership includes business card advertisement in four SEAALAS newsletters, recognition as SEAALAS sponsor and the issuance of space for exhibit materials of meeting registrant.)

## **SOUTHEASTERN BRANCH**

## **AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE**

Membership Application....visit the application page....

<http://www.seaalas.org/forms/memapp.pdf>

# Out of the Ordinary and Into Extraordinary

**SEAALAS Annual Awards Banquet and Meeting**  
**Hilton Columbia Center**  
**Columbia South Carolina**  
**January 29th– 31th 2014**

**Rooms: \$154/night until December 30, 2013**

Hotel Registration

[Hilton Columbia Center SEAALAS Reservation](http://www.seaalas.org/SEAALAS%20Reservation)

<http://www.seaalas.org/meeting/rooms>

## 1) Registrant Information:

|                   |  |
|-------------------|--|
| Name on Badge:    |  |
| Title:            |  |
| Affiliation:      |  |
| Registrant Email: |  |
| Registrant Phone: |  |

## 2) 2014 Conference Registration

|                        | Pre-Register ( <i>On or before Jan 15</i> ) | Late Registration ( <i>After Jan 15</i> ) |
|------------------------|---|---|
| Entire Conference      | \$ 250.00 USD                               | \$ 275.00 USD                             |
| Thursday Only          | \$ 200.00 USD                               | \$ 225.00 USD                             |
| Friday Only            | \$ 100.00 USD                               | \$ 125.00 USD                             |
| Banquet Only           | \$ 65.00 USD                                | \$ 90.00 USD                              |
| 2013 Commercial Member | \$ 300.00 USD                               | \$ 325.00 USD                             |
| Non-Member Exhibitor   | \$ 500.00 USD                               | \$ 525.00 USD                             |

## 3) Wet Lab Selection:    **NONE**            **Necropsy: Peromyscus and Laboratory Mouse**

Necropsy of peromyscus and the laboratory mouse will be held at the University of South Carolina on Wednesday, January 29th from 12:30-3:30PM.      Transportation will be provided from the hotel.      **SPACE IS LIMITED**

## 4) Request an Exhibitor Table:    **NONE**            **2013 Commercial Member**            **Non-Member Exhibitor**

2013 Commercial Members who would like an exhibitor table please make the selection above. If you are not a 2013 commercial member and you want to exhibit please select "Non-member Exhibitor" registration option above. Exhibitor space is limited to 30 tables. Priority will be given to 2013 Commercial members in good standing. If you have questions or need further information contact Robin Kavanaugh at [robink@uga.edu](mailto:robink@uga.edu)

**Please enclose a check payable to SEAALAS for the appropriate amount and return it with a copy of this form to:**

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*Athens, GA 30608*

**For any additional inquiries: Please contact Robin Kavanaugh at [robink@uga.edu](mailto:robink@uga.edu) or 706-542-6083**

# **Out of the Ordinary and** **Into Extraordinary**

**SEAALAS Annual Awards Banquet and Meeting Hilton Columbia Center  
Columbia, South Carolina  
January 29th– 31th 2014**

**Rooms: \$154/night until December 30, 2013**

Hotel Registration [Hilton Columbia Center SEAALAS Reservation](http://www.seaalas.org/meeting/rooms)  
<http://www.seaalas.org/meeting/rooms>

## **Preliminary Program**

### **Wednesday, January 29, 2014**

|                   |                             |
|-------------------|-----------------------------|
| 12:30 PM-03:30 PM | Wet Labs                    |
| 03:00 PM-05:30 PM | Registration                |
| 03:30 PM-05:30 PM | Executive Committee Meeting |
| 08:00 PM-11:00 PM | Social                      |

### **Thursday, January 30, 2014**

|                   |   |
|-------------------|---|
| 07:15 AM-08:15 AM | Breakfast   |
| 07:30 AM-12:00 PM | Registration  |
| 08:00 AM-08:10 AM | Welcome   |
| 08:10 AM-08:30 AM | Vendor Introductions  |
| 08:30 AM-09:00 AM | Going Back to Nature; The Benefits of Wood Enrichment<br><a href="#">Karen Froberg-Fejko, LATg, VMD</a><br>President<br>Bio-Serv            |
| 09:00 AM-10:00 AM | Do You Need a Kick in Your RAS?<br><a href="#">Lisa Secrest, RLATg, CMAR</a><br>Training Program Coordinator<br>Priority One Services, Inc. |
| 10:00 AM-10:30 AM | Break   |
| 10:30 AM-11:00 AM | Vendor Introductions  |

|                   |  |
|-------------------|--|
| 11:00 AM-11:30 AM | Covered or Not Covered? You Decide<br><a href="#">Bill Wade, LVT, RLatg, CPIA</a><br>Compliance Liason for Education and Training<br>Duke University                     |
| 11:30 AM-12:00 PM | Lake Malawi African cichlid fishes: a model for the study of evolution<br><a href="#">Nicholas Parnell</a><br>Postdoctoral Researcher<br>Georgia Institute of Technology |
| 12:00 PM-01:00 PM | Lunch  |
| 01:00 PM-02:00 PM | Vendor Fair  |
| 02:00 PM-03:30 PM | Tech Tips  |
| 03:30 PM-04:00 PM | Break  |
| 04:00 PM-05:00 PM | Tech Tips  |
| 05:00 PM-06:30 PM | Vendor Fair  |
| 06:30 PM-07:30 PM | Reception  |
| 07:30 PM-10:00 PM | Banquet and Awards Ceremony  |

**Friday, January 31, 2014**

|                   |  |
|-------------------|--|
| 07:15 AM-08:15 AM | Breakfast  |
| 07:30 AM-08:30 AM | Registration   |
| 08:15 AM-08:45 AM | Biology and Medicine of Deer Mice<br><a href="#">Shayne Barlow, DVM, PhD, DACLAM</a><br>University Veterinarian and Director<br>Animal Resource Facilities<br>University of South Carolina     |
| 08:45 AM-09:15 AM | From the Town to the Cave: 2 Unusual Animal Models<br><a href="#">Sharon Dietz, DVM</a><br>Laboratory Animal Medicine Resident<br>Centers for Disease Control and Prevention                   |
| 09:15 AM-09:45 AM | Unexpected Resources: Collaboration Between Animal Facilities and IACUC Staffs<br><a href="#">Cyndi Rosenblatt, MPA, CPIA</a><br>IACUC Program Manager<br>Medical University of South Carolina |

09:45 AM-10:15 AM

Break

10:15 AM-11:00 AM

Pyrogens and the Evolution of Pyrogen Testing

[John Dubczak](#)

General Manager

Endotoxin and Microbial Detection Division

Charles River Laboratories

11:00 AM-12:00 PM

Closing and Raffle



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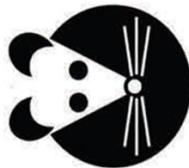
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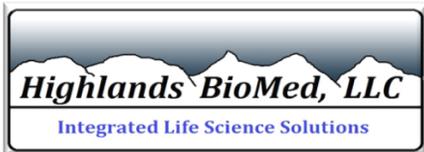
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