A Message from the President of ACLAM

Dear ACLAM Diplomates:

I enjoyed seeing many of you at National AALAS in Baltimore, and am very excited to be serving as ACLAM president for the next year. I will keep this message brief and encourage you to read updates in the Newsletter about the recent AVMA Animal Welfare Meeting (Pat Turner), the upcoming Forum* (Winnie Winnicker), and an overview/opinion piece about the microbiome (Aaron Ericsson).

Kudos: Many thanks to retiring BOD members Mike Ballinger and outgoing past president Cliff Roberts. Congratulations and welcome to new BOD members Pat Turner and Joe Thulin, VP Claire Hankenson, and thanks/congrats to Tim Mandrell for his continuing outstanding service as ACLAM Sec/Treas after another landslide victory. I am very excited to work with this excellent and fun team!

Kudos 2: Congrats to our 58 new ACLAM Diplomates—great to meet many of you in Baltimore. I hope you will find your membership in ACLAM rewarding and engaging!

Kudos 3: Thanks very much to Nanette Kleinman for her 14 years of service putting together this Newsletter. I now realize how much cat herding this entails, and Nan has made the process efficient and seamless.

A few upcoming ACLAM events:

*Where will you be May 4-7, 2014? Coeur d’Alene Idaho, of course at the 2014 ACLAM Forum. What will you do there? For a listing of ACLAM-associated activities that will take place, which can quickly be summarized as “DiP SO HIP”, see Forum Agenda on page 21.

Otherwise--how about hiking the Tubbs Hill Nature Trail, biking the Centennial Trail, boating (hovercraft, kayak, paddleboat, etc) on the Coeur d’Alene Lake, fishing on Saint Joe River, golfing on Coeur d’Alene or Avondale? Hitting Zispa, visiting Trickster’s Brewing Company, Seven Stars Alpaca Ranch, picking up something to eat at one of 194 places to eat, or shopping in Devon’s art gallery? http://coeurdalene.org/what-to-do/. Please plan to visit this interesting part of the US and check something off your bucket list!!

ACLAM Leadership Summit(s): The BOD is beta-testing a new communication strategy to improve committee efficiency, communication, and function. (1) Prior to the 2013 ACLAM meeting, Exam Committee lineage chairs, Exam
consultant Jim Henderson, and the Certification Oversight Committee (COC) met with a subset of ACLAM BOD members to discuss mechanisms to improve the function of these committees and the examination process. This meeting culminated in a list of suggested action items and lead to a second meeting of COC committee chairs with the entire ACLAM BOD prior at the 2013 AVMA meeting. AALAS Executive Director Ann Turner facilitated this ‘mini leadership summit’. Action items emanating from these discussions have been/will be implemented under the direction of BOD member Don Casebolt. (2) The BOD has planned a second one day leadership retreat for committees associated with recruitment and education (former REOC committees) on February 3, 2014 outside of Memphis TN. We have confirmed over 30 participants at this meeting, which will focus on the mission of these committees in the current employment landscape. The Planning Committee will provide an overview of data relating to the Diplomate workforce to inform these discussions. This meeting will also define the relationship between the IT management committee and the Publications committee in the age of electronic communications.

Standard Setting Study: One of the outcomes of the Exam Committee leadership summit was a recommendation to hold an ACLAM Exam Standard Setting Study during the 2014 examination cycle. This process involves convening a representative subset of Diplomates to review and rank examination question relevance after the exam has been delivered, but prior to final scoring. This effort will be facilitated by a certification examination consultant (Jim Henderson) who then derives the ‘cut score’. This statistically validated process is used to equate examination outcomes from year to year until the next standard setting exercise (approximately every 4 years). Helen Diggs is assisting with organizing this effort under Mel Balk’s able tutelage.

ACLAM’s Got Talent: Look for a survey from me soon that will ask you to reveal your hidden talents…which I may ask you to showcase at various times during this year.

I am working on recruiting authors for future Newsletter articles that stimulate conversations about how we what we do. If you have a great idea for a thoughtful and provocative article, please let me know.

In parting, I hope that all of you can take a few days off from email, internet, and the constant daily communications and tasks that have become part of our daily hum, and relax and recharge this holiday season. Best wishes to all of you for 2014!

Sue Vandewoude
President, ACLAM

Letters to the Editor
Volunteers needed

I am soliciting volunteers for a study titled “The Aesthetics of Commonly Used Euthanasia Methods of Rats and Mice.” I am looking for personnel from a wide variety of backgrounds and worldwide. Participants will be asked to watch video recordings of a rat or a mouse being euthanized by one of 7 methods of euthanasia (isoflurane overdose, pentobarbital overdose, or CO2 with a flow rate of 10%, 30%, 50%, 70%, or 90%). Links to the recording and an online survey will
be circulated to each volunteer, so they can complete it at their convenience. The project was reviewed and approved by the Indiana University School of Medicine IACUC and IRB. To volunteer, individuals need to send me an email (hickmand@iupui.edu) saying that they are interested.

Debra L. Hickman, DVM, MS, DACLAM
Director, Laboratory Animal Resource Center
School of Medicine
Indiana University
975 W. Walnut St (IB008)
Indianapolis, IN 46202
317-274-5886

**ACLAM Announcements**

**New ACLAM Officers/BOD Members**

*Vice President:* F. Claire Hankenson
*Secretary/Treasurer:* Tim Mandrell
*Board of Directors:* Patricia Turner, Joseph Thulin

**Call for Posters for the 2014 ACLAM Forum**

The 2014 ACLAM Forum will be held May 4–7, 2014 in Coeur d’Alene, Idaho. Once again we are inviting abstract submissions for poster presentations. The goal of the Forum poster session is to disseminate valuable information relating to Laboratory Animal Medicine to meeting attendees. Recognizing that not all attendees are able to go to both the AALAS and Forum meetings, posters from the AALAS meeting will be accepted for presentation. Posters presented at other meetings will also be accepted pending approval by the selection committee. Abstracts should be limited to 300 words or less. The abstract should be a concise summary of the information in the poster, and should not contain graphs, tables or figures. It should include a title, author(s) and author affiliation(s). Please send abstracts to Jeanne Wallace at jeanne.wallace@vanderbilt.edu by Friday, April 18, 2014. Please note we are very liberal on poster acceptance!

**GRAC Update**

The Governmental and Regulatory Affairs Committee is continuously meeting via teleconference and discussing any topics with potential, real or perceived impact on the ACLAM community.

USDA revised its policy 3 and requested feedback from the research community. GRAC drafted a letter summarizing comments on expired medical materials, pharmaceutical-grade compounds in research, surgery, pre-and post-surgical care and euthanasia. The BOD supported the letter and submitted it to the USDA in lieu of the ACLAM membership. You can find the letter posted at [http://www.aclam.org/Content/files/files/Members/Active/ACLAM%20USDA%20Policy%203%20comments%20final%2010_7_13.pdf](http://www.aclam.org/Content/files/files/Members/Active/ACLAM%20USDA%20Policy%203%20comments%20final%2010_7_13.pdf).

Another hot topic is, and will be for sure in the future, animal transportation. More and more companies succumb to the pressure of animal rights activist groups and withdraw their commitment to transport research animals. The GRAC is watching the development in this area closely and just made some recommendations to the BOD for possible future directions.

Several matters were discussed without direct action but the intent to keep it on the radar screen of the committee. Those include but are not limited to the “federal petition for amending the AWR to prohibit public contact with big cats, bears and NHPs, the “revised international guiding principles of biomedical research involving animals” and the “King amendment to the Farm Bill”. Although the ABA resolution was withdrawn it can be assumed to come back in the not too far future. As soon as a direct impact of any of these topics on the biomedical research industry in the US is expected the GRAC will proceed and of course keep the membership updated.

**2014 ACLAM Dues Notice**

**December 2013**

The 2014 annual dues of $300 are due January 1, 2014. Remittance should be sent to the Executive Director at your earliest convenience. In accordance with Article VIII of the ACLAM Bylaws, your dues must be received by March 1, 2014. Late dues payments are – March 2-Sep1- $350. After Sep 1- $400.

If possible, please pay your dues online at the ACLAM Website- [www.aclam.org](http://www.aclam.org). Please click on the sign in button and use your AALAS ID and password and just follow the directions. Below is an alternate payment option.
Disaster Relief Funds Available from ACLAM

The ACLAM BOD has approved funding of up to $25,000 for disaster relief to be distributed to members of the laboratory animal community who are severely affected by a significant disaster. In the past we provided funds to animal technicians who lost homes in a wildfire which was done as a one-time event. We now have earmarked funds to be disbursed without having to vote each time.

If you are aware of a situation where such funding may be applicable please send a brief description of the need and amount requested for consideration to the Executive Director Mel Balk and it will be reviewed by the BOD. Preference will be given to non-exempt employees who work in facilities where ACLAM Diplomates are employed.

Retirement Reminder

As the end of the year approaches and dues are payable some of you may consider retirement as an option. The ACLAM policy on retired status reads “A retired Diplomate is interpreted to mean one who is retired from professional veterinary medical activities from which they earn an income. This includes retirement from regular employment as a laboratory animal specialist, private consultation in laboratory animal medicine or the practice of veterinary medicine”.

A retired Diplomate shall not be required to pay dues, nor have the right to vote. You will continue to receive the quarterly Newsletter electronically and an annual Directory, if so desired. Please notify the Executive Director if you elect to be placed on the retired roster.

Posting ads on the ACLAM website and in the ACLAM Newsletter

Ads are posted on the ACLAM website for 90 days within a few days of submission. An approximately 150 excerpt of the ad will appear in the next ACLAM Newsletter referring the interested reader to the ACLAM website.

The Newsletter is published 4X per year:
• March: Pre Forum
• June: Pre AVMA
• Sep: Pre AALAS
• Dec: Post AALAS and Pre Pre Forum

The readers of the ACLAM Newsletter are veterinarians board certified in laboratory animal medicine. If the ad is for a veterinary position requiring board certification in this specialty, the Newsletter is an appropriate place to advertise. Ad content should be submitted within the body of a plain text email or as a MS Word attachment to nanettekleinman@gmail.com and formatted into the following sections:

• Job Title (short position title)
• Applications (how applicants are to apply)
• Position
• Requirements (qualifications, etc.)
• Employer Information (additional information about the employer (EEO etc.))

The deadline for Newsletter submission is two weeks prior to the publication date.

There is no charge for posting ads for veterinary positions in laboratory animal medicine through ACLAM.

Outgoing President Steve Niemi presented a gavel plaque by incoming President Sue VandeWoude

AVMA News
Can you hear me now? An intraprofessional conversation about animal welfare

Over the years, the AVMA has invested more resources toward making veterinarians better scientific advisors and advocates for animal welfare. In 1984, the Animal Welfare Committee was created and animal welfare became a strategic priority. In 2006, the Executive Board identified animal welfare as one of the top five critical issues affecting the veterinary profession and the Division of Animal Welfare was created. In 2012, the American College of Animal Welfare earned provisional recognition from the AVMA thus clearing the way for prospective members to become specialists in animal welfare. However, progress in this area has not been easy for the AVMA. During these times, it became evident that the different roles in the profession caused a difference in a veterinarian’s approach toward animal welfare. The complexity and emotions associated with the subject also made consensus difficult.
To address this issue, Doug Aspros, immediate past president of the AVMA envisioned a workshop attended by veterinarians from a variety of backgrounds. The goals of the workshop were to have “better informed and more broadly shared conversations about animals’ use and care (that) will encourage and better equip us to fully embrace our role not only as experts in animal health, but as primary protectors of animals’ welfare and advocates for sound public policy at all levels”. From that vision, an intraprofessional conversation about animal welfare was sponsored by the AVMA on November 14-15, 2013. Approximately 200 veterinarians attended the workshop; at least ten laboratory animal practitioners were in attendance with Steve Niemi and Christina Winnicker providing their perspectives from the podium.

During the morning of the first day, a series of lectures were presented by experts in the field to enhance our philosophical and technical knowledge of animal welfare. These lectures were invaluable for establishing a foundation of knowledge for discussions on the following day. Lecture titles and speakers names are listed below, readers are encouraged to search the literature for the articles and books written by these experts.

- Changing attitudes toward animals and their welfare.
  James Serpell, University of Pennsylvania
- What does scientific evaluation of an animal’s welfare look like?
  Janice Siegford, Michigan State University
- What is sentience and why do we care?
  Ian J. H. Duncan, University of Guelph
- Welfare in the ethical and social context – from farm to family.
  Peter Sandøe, University of Copenhagen
- Assuring animals’ good welfare – the roles of laws and markets.
  Janice Swanson, Michigan State University
- Providing resources, evaluating outcomes: Making assurance doubly sure.
  Joy Mench, University of California – Davis

Following the lectures, “Challenges for Veterinarians” were presented by members of a panel.

- Terry Whiting, Manitoba Agriculture and Food Society’s perceptions of food animals
- Steven Niemi, Harvard University
  The “unfinished business” of laboratory

President Steve Niemi recognizing the efforts of Jack Kinkler who will be retiring as the Foundation Development Officer

AALAS 2013
animal medicine: humane endpoints, affective neuroscience for measuring psychological distress, and the “hands off” approach toward animals under experimentation.

- Martha Smith-Blackmore, Animal Rescue League of Boston
  The issues of shelter medicine: kill/no kill (aka open admission/limited admission); spays in the shelter vs. at private practitioners; feral cats, trap neuter release; labeling breeds such as pit bulls; veterinary care for the poor; and convenience euthanasia

- Terry Maple, San Francisco Zoo
  Opportunities for enhancement of animal welfare in zoos

- Thomas Lenz, Zoetis
  Issues in horse medicine: soring, unwanted horses, catastrophic breakdowns in racing, seeking uniformity of acceptable drugs used in racing, and the challenges of managing the wild and feral horses on government lands in the West.

On the second day of the workshop, attendees were assigned to discussion groups which intentionally contained veterinarians from different backgrounds. The groups were given scenarios related to animal welfare and were asked to assess and judge two approaches that were used to address an issue. A standard assessment method involving three interacting elements was used for the assessment of the animals: 1) health and physiological function; 2) behavioral integrity and 3) the affective or inner psychological state. Then the groups were asked to evaluate their assessment within the current social context or “filters” which were based upon economics, environmental impact, regulations, views of society, etc. The scenarios involved housing for bull elephants, humane endpoints in a mouse model of multiple sclerosis, selection of different types of layer housing, management strategies for free roaming cats, and management strategies for feral horses. Experts in the field gave their assessments following presentations by the group.

Facilitators were present to encourage attendees to be a part of the conversation and to assist in the progress of the groups’ analysis of the scenarios. The goal was to be heard, not to be right. The discussion groups were expected to be a microcosm of intraprofessional dialogue within the veterinary profession. Discussions within the groups and during the general discussion revealed much common ground for agreement but also some positions that were not accepted and were met with counterarguments. The challenges of hearing another person’s opinion (especially when you believe they are wrong) will continue to be a challenge for veterinarians and society in general, but the dialogue and interaction that occurred at this workshop opened more than a few minds to the complexity of the veterinarian’s approach to animal welfare.

In order to develop a strategic plan and build upon experiences from the workshop, a Working Group had been selected from the attendees. Christina Winnicker, Director of Enrichment and Behavioral Medicine at Charles River is a member of this group. The group will develop its mission and maintain momentum from the workshop. They are working on ideas to expand the “conversation” to other members of the profession and developing initiatives that would be embraced by all members of the AVMA.

### AALAS 2013

**Winnie Winnicker- 2014 ACLAM Forum Program Chair**

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### ACLAMers on the Rise

**Award to Swindle and Smith**

Congratulations to M. Michael Swindle and Alison C. Smith for being awarded the 2013 C. William Hall Award for Outstanding Scientific Publication: Best

**Foundation News**

**Request for Proposals (RFP)**

It is with great pleasure that the ACLAM Foundation Committee members announce our solicitation of research proposals in Laboratory Animal Science and Medicine. The deadline for Letters of Intent is December 5, 2013. Applicants invited to submit full proposals will be contacted by January 31, 2014. Foundation research awards will be distributed in early July.

The Mission of the ACLAM Foundation is to expand the body of knowledge in the fields of Laboratory Animal Science and Medicine through funding research grants. The ACLAM Foundation has developed a two-tiered system for competitive review of grant proposals. Submission of a letter of intent is followed by a request for a full grant proposal to selected applicants. The Foundation will fund studies in the following six laboratory animal research subjects:

- Analgesia/anesthesia
- Behavior/well-being
- Diagnostics/diseases

### ACLAM Foundation Alumni Competition

**Results through 2012**

**Leaders in Gold**

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http://www.aclam.org
• Husbandry
• Management
• Refinement of animal models [Note: Emphasis is on Russell & Birch’s 3Rs – reduction, refinement, replacement - not on new research model development.]
• Zoonotic disease

Please see the Foundation website for additional information.

**Important role for ACLAM Diplomates, ASLAP Members and Other Friends**

Please distribute this year’s RFP to as many investigators as possible and take an active role by submitting or soliciting submission of a grant letter of intent. The RFP and other Foundation information are available on the ACLAM web site.

**Grant Update**

All grants funded prior to 2011 have been completed. So far in 2013 we have 7 publications. We have 63 total publications from the 99 grants that have been funded. We continue to have our funded investigators present their materials at national meetings. The total number of presentations is now over 140.

**Fund Raising**

The Foundation is working on new ideas for fund raising and will be considering new ACLAM-branded products and apparel for future offerings. Stay tuned for exciting new ways to support the Foundation while sporting the ACLAM logo.

Shannon Stutler is the new Development Officer for the ACLAM Foundation. Please welcome her by joining the President’s Circle for sustained giving. This requires a donation of $5,000 over 10 years. We have over 150 members and hope that we can reach 200 members in the next 2 years. Your commitment not only supports the Foundation through sustained giving, but helps your school’s team vie for bragging rights in the Alumni Challenge Competition (see below). The Foundation is healthy because of the generous contributions of the ACLAM Diplomates and our pharmaceutical and industry partners. Donations for 2012 totaled $210,000. Please consider an end of year contribution to make 2013 as successful as 2012.

**Alumni Challenge**

The Alumni Challenge is on!!! As 2013 winds down there are still several weeks left in this year’s competition for the school alumni to have an impact on the present team standings at the end of 2012 shown in the accompanying table. Is this the year that another university overtakes Auburn for the lead (based on Ave $ per donor)? Will Texas A&M add a new president’s circle member? Can anyone catch Oregon State for percent participation? There is still time.

**ACLAM Foundation Committee**

The ACLAM Foundation Committee met at the National AALAS meeting to discuss a number of topics. A topic that raised considerable discussion was the potential for moving the grant submission dates or having an open submission policy. Although the ideas had significant merit, there were several issues that prevented recommendation of moving the submission dates. The ACLAM Foundation LOI’s will still be due in early December.

We would like to thank the members of the Foundation Committee and the adjunct members that provided much needed support for grant review and fund raising. There were over 30 Diplomates that
reviewed grant proposals, and 10 that helped with the fund raising efforts. It is critical that we continue to recognize these individuals as their support for the Foundation is essential. We are excited to have so many new Diplomates interested in participating in the Foundation activities this year and we are grateful for all of the volunteers to assist with the 2014 committee activities; the more people we have involved (even if they are not on the committee itself), the more successful we will be.

Greg Boivin  
Chair & Scientific Director  
ACLAM Foundation

Shannon Stutler  
Development Chair  
ACLAM Foundation

Hot Topics  
The gut microbiota and animal modeling  
Authors: Aaron C. Ericsson, Craig L. Franklin  
Institutional affiliations: Mutant Mouse Regional Resource Center (MMRRC), Rat Resource and Research Center (RRRC), Department of Veterinary Pathobiology, University of Missouri, Columbia, Missouri, United States of America

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Short title: Gut Microbiota in Animal Models

The gut microbiota (GM) confers a tremendous range of benefits to the host including energy harvest from otherwise indigestible macromolecules, synthesis of vitamins, stimulation for the development and homeostasis of the immune system, colonization resistance to pathogens, and regulation of the overall host metabolism. Over a century ago, Elie Metchnikoff posited that various shifts in the commensal microbiota were associated with health, disease, and aging. Today, next-generation sequencing techniques allow us to characterize these complex microbial communities largely refractory to culture, in exquisite detail. Confirming Metchnikoff’s hypotheses, associations are now being made between shifts in the composition of the GM and various disease states, offering novel avenues for the development of diagnostic and therapeutic modalities and insight into disease mechanisms.

Considering the impact of the GM on human health, laboratory animal scientists and clinicians must consequently acknowledge the potential impact of the GM on the animal models with which we work. There is abundant anecdote in laboratory animal circles regarding the need to purchase mice from a particular vendor to “make the model work”. Via next-generation sequencing and other PCR-based approaches, we are now beginning to identify commensal species either required for a model phenotype, or responsible for altering those phenotypes. This information allows us to convert a previously enigmatic source of variability in our animal models into a means by which we can optimize those models.

One microbe receiving considerable attention in this regard is segmented filamentous bacteria (SFB; Candidatus Arthromitus), a commensal bacteria that has been recognized by laboratory animal and veterinary pathologists for decades. Ivanov et al. noted significant differences in the number of lamina propria TH17 cells in mice from different vendors...
and showed that this difference was the result of the presence or absence of SFB\textsuperscript{10, 11}. Similarly, Denning et al. demonstrated functional differences in mucosal antigen-presenting cells due to the same commensal bacteria\textsuperscript{12}. Thus, both the innate and adaptive immune systems are significantly affected by this well-known but under-appreciated member of the commensal rodent GM.

While one may respond that their disease model functions independent of the mucosal immune system, it should be noted that SFB also has significant effects on models of extraintestinal disease including models of multiple sclerosis, rheumatoid arthritis, and diabetes\textsuperscript{13-15}. SFB is but one example; other commensal microbes, either individually\textsuperscript{16} or as consortia\textsuperscript{17}, have been, and will no doubt continue to be, identified as significant intercurrent variables in model phenotypes.

Taking things one step further, the GM also has the potential to significantly affect behavioral studies. Colonization of germ-free Swiss-Webster (SW) mice with the GM of BALB/c mice, a strain expressing significantly greater indices of anxiety than SW mice, confers an increase in anxious behavior, as well as correlative changes in brain chemistry. When the converse experiment is performed and the “anxiolytic” GM of the SW mice is transferred to GM BALB/c mice, there is a decrease in signs of anxiety\textsuperscript{18}.

In vaginally delivered pups, the GM is acquired from the dam beginning at birth and its composition is very dynamic, increasing in complexity until it stabilizes at some point during adolescence. That being said, mice (and rats) purchased from different commercial vendors differ greatly in the composition of their GM and weanling mice of the same strain purchased from different vendors, possessing “immature” and dynamic GM populations, will eventually normalize to a vendor-specific GM, even in individually housed mice. However, while host genotype does have some influence on the GM, surgical embryo transfer of genetically distinct embryos results in highly similar microbiota between a dam and its offspring, regardless of the genetic background of the implanted embryos\textsuperscript{19}.

Factors with an influence on the composition of the GM include diet, housing conditions, sex, and age; in the event of an altered phenotype, all of these should be considered. Diet is one of the strongest factors in determining the composition of the microbiota and many of the disease risks classically associated with diet have now been linked to its effects on the GM\textsuperscript{20}. There are many different dietary formulations available for laboratory animals and the source of calories varies widely between diets. Additionally, many laboratory animal diets guarantee a set level of protein and fat although the source of those macromolecules may vary from batch to batch based on commodities markets. The effect of such changes in dietary source ingredients on the GM is largely unknown. Regarding housing conditions, our laboratory has seen a consistent shift in the GM due to group versus individual housing. Whether
this is due to coprophagy or some microbial process such as quorum sensing is unknown. This is of particular relevance in the field of metagenomics where it is often considered de rigueur to house animals individually to eliminate coprophagy and the sharing of microbes. Are these individually housed mice representative of real-world hosts? Does social isolation introduce a stress factor which falsely skews the GM? The answers to these and many similar questions need to be determined through rigorous controlled studies.

As mentioned above, mice of the same strain but from different vendors have distinct gut microbiota. This is of particular concern when one considers the tremendous number of mouse and rat strains maintained as cryopreserved germplasm. The authors are part of the University of Missouri Mutant Mouse Regional Resource Center and Rat Resource and Research Center, a primary function of which is the preservation of mutant mice and rats as cryopreserved embryos or sperm. When a client requests one of the cryopreserved rodent lines, the line is resuscitated using either transfer of frozen-thawed embryos, in vitro fertilization, or intracytoplasmic sperm injection. Regardless of the technique, the tissue (embryo or zygote) is transferred into a surrogate dam, typically an outbred stock selected for favorable maternal performance. The pups then subsequently acquire the GM of the dam, rather than the GM that was present in the ancestral line. The impact of this shift in microbiota may be nonexistent, subtle, or dramatic depending on the mechanisms underlying the disease model.

How then should a PI using animal models address this seemingly ubiquitous variable? To ignore the issue is to risk the generation of inconsistent, poorly reproducible data. Normalization to a standard composition has been proposed as one method of controlling for the variability of the GM. Altered Schaedler Flora (ASF), a mixture of eight commensal bacteria, was originally developed for that very purpose. While use of ASF-mice has been critical to our understanding of how microbes interact with the host, there are several reasons why these rodents are less than ideal for most research purposes. From a purely financial standpoint, the use of such animals requires the specialized housing and equipment used in gnotobiotic facilities and is more labor-intensive. Additionally, animals must be routinely monitored via culture and PCR-based methods to ensure their status is maintained. From a translational aspect, the eight bacterial species included in the ASF are an extremely reductionist alternative to a naturally occurring GM. Moreover, a detailed investigation of the microbial biochemical capacity of ASF-colonized mice indicated that it more closely resembles that of germ-free mice than conventionally housed mice. Thus, use of these ASF-colonized mice solely to control for variation in the GM may yield data that is
physiologically irrelevant and misleading. We propose that, to most faithfully model a real-world scenario, research animals should harbor a complex GM as similar to that occurring in nature as possible. While the GM of mice housed under specific pathogen-free (SPF) conditions does differ from that of feral mice, SPF mice are still a logical compromise between overly restrictive options such as ASF-colonized mice and the need for exclusion of overt and opportunistic pathogens.

Ultimately, we feel that it is imperative to acknowledge the potential impact of the GM in research using animal models. To completely control for this variable is perhaps impossible. Rather, is there a means by which we can exploit these differences in the GM? Perhaps pilot studies using animal models should be performed with the animals harboring multiple GM, to optimize the model and allow the best chance of detecting differences under the experimental variable of interest. It is critical to recognize that differences in the GM may be relevant to the outcomes being measured, and to control for those differences as much as possible. However, the GM should not be considered as a variable confounding the efforts of the scientific community, but rather a newly recognized facet of host health that may allow for refinement of animal models and clues to many disease mechanisms.

**References**

Educational Opportunities

Residency/Post-doctoral Training in Laboratory Animal Medicine
University of Pennsylvania, Philadelphia, PA

The University of Pennsylvania, Division of Laboratory Animal Medicine within the Department of Pathobiology, School of Veterinary Medicine invites applications for residency/post-doctoral training in the field of laboratory animal medicine.

This training program is designed to prepare veterinarians for careers in laboratory animal medicine and meets all requirements to support preparation for ACLAM board certification. The program will be 3 years in duration, with 2 years focusing on didactic material and supervised clinical experience and the third year consisting primarily of mentored research in the laboratories of selected Penn scientists. Primarily, residents will oversee clinical and diagnostic cases, manage disease outbreaks, and confirm diagnoses via pathological evaluation while under the direction of faculty and clinical staff. Trainees will become familiar with the wide range of roles that laboratory animal veterinarians play in supporting regulatory affairs by assisting with reviews of IACUC protocols and participation in site visits and inspections.

Applicants should submit candidate materials through the Veterinary Internship & Residency Matching Program (www.virmp.org). The deadline for applications through VIRMP is November 3, 2013 with a start date of July 1, 2014.

Residency Training in Laboratory Animal Medicine
The Department of Comparative Medicine
Pennsylvania State University College of Medicine, Hershey, PA

The Department of Comparative Medicine at the Pennsylvania State University College of Medicine in Hershey, PA has two (2) openings in its ACLAM-certified residency program, starting July 1, 2014.

Requirements: Candidates must have graduated from an AVMA-accredited veterinary school (or have completed all ECFVG or PAVE requirements), and passed the national licensure examination (NAVLE). The program prepares newly graduated or practicing veterinarians for careers in biomedical research and laboratory animal medicine. The three-year residency training program follows the general pattern described at http://www2.med.psu.edu/comparativemedicine/graduate-program/ and is approved by the graduate school for an M.S. degree. Applications must be submitted through the Veterinary Internship and Residency Matching Program (www.virmp.org) website beginning October 15, 2013 and include a cover letter stating career goals in addition to the candidate materials required by VIRMP. The deadline for applications is November 3,
Further information can be obtained by calling (717) 531-8460. The Pennsylvania State University is an equal opportunity/affirmative action employer.

**Research Training Opportunity**

**University of Wisconsin-Madison, Madison, WI**

An outstanding research training opportunity is available for graduate veterinarians within the Comparative Biomedical Sciences graduate program at the University of Wisconsin-Madison, School of Veterinary Medicine. Salary and tuition support for exceptional applicants is provided by an NIH training grant, “Research Training in Comparative Biomedical Sciences for Veterinarians.” Applicants must be US citizens or permanent residents and possess a DVM degree.

Accepted applicants will receive an attractive stipend (NIH postdoctoral level) and perform research in pursuit of a PhD under the supervision of one of 24 Trainers with expertise in infectious diseases, cellular and molecular physiology, and other areas.

Applicants should jointly apply online for admission into the Comparative Biomedical Sciences PhD program and the Training Grant at [http://www.vetmed.wisc.edu/pbs/gradprogram/index.html](http://www.vetmed.wisc.edu/pbs/gradprogram/index.html).

Interested potential applicants with questions regarding the program can contact Dr. Chuck Czuprynski, Training Grant Director, at 608-262-8102 or czuprync@svm.vetmed.wisc.edu; or Ms. Kathy Holtgraver, Graduate Program Coordinator at 608-262-0470 or holtgraver@vetmed.wisc.edu

**Postdoctoral Position for a Cancer Biologist**

**University of Michigan, Ann Arbor, MI**

The Cellular Engineering and Nano-Therapeutics Laboratory at the University of Michigan is seeking an outstanding, enthusiastic, and motivated cancer biologist to be part of a multi-disciplinary team focusing on the development of new therapies for treatment of solid tumors. This position is available for one year starting January 2014 and can be renewed for additional years based on research progress and the availability of funds.

**Qualifications:** The ideal candidate will have a MD, DVM, or Ph.D., extensive experience in surgical procedures in small animals, establishing orthotopic tumor models in nude mice, PK/PD studies of investigational drugs, aseptic cell culture techniques, and standard biochemical assays.

**Responsibilities:** The focus of this position is to establish an orthotopic HCC model in nude mice using human cancer cells; design and carry out experimental protocols to investigate the distribution, therapeutic activity and toxicity of novel therapeutic particles.

**Contact:**
Mohamed E.H. ElSayed, Ph.D.
E-mail: melsayed@umich.edu
Phone: (734) 615-9404
Web: [www.bme.umich.edu/centlab.php](http://www.bme.umich.edu/centlab.php)

**Open Positions**

- For a complete description of the following positions and application information, please go to the Open Positions page of the ACLAM website at [http://www.aclam.org/jobs](http://www.aclam.org/jobs). NOTE: Ads are listed chronologically by posting date, most recent first, and will appear for approximately 90 days.
- Contact Nanette Kleinman at 216-496-2903 or nanettekleinman@gmail.com for additional information about ACLAM Newsletter and website ad posting.

**Senior Scientist – Veterinarian**

**Medical Science & Computing, Hamilton, MT**

Medical Science & Computing (MSC) is an exciting growth oriented company, dedicated to providing mission critical scientific and technical services to the Federal Government. MSC is currently searching for a Senior Scientist-Veterinarian to support the National Institutes of Health (NIH).

**Duties and Responsibilities**

- Provides guidance and ensures program compliance with all applicable laws, regulations and policies including AAALACi accreditation.
- Provides guidance and senior-level subject matter expertise in the animal model-based infectious diseases research.
- Actively participates in periodic personnel meetings.
• Participates in and supports the animal research projects.
• Assists with management of animal resource facilities and programs, collaborative and independent research; and instruction and training.
• Provides consultative services to investigators regarding animal modes, animal physiology, nutrition, genetics, disease, breeding, and environmental conditions.
• Interacts directly with lab chiefs, investigators, visiting scientists, technical staff, and the biosafety and safety staff.
• Performs other duties as assigned.

Please visit our Careers site: http://mscweb.com/careers/

**Director, Institute of Comparative Medicine**
**Columbia University – College of Physicians and Surgeons, New York, NY**

Columbia University – College of Physicians and Surgeons (P&S) invites applications for the position of Director of the Institute of Comparative Medicine (ICM). The ICM manages the University’s animal facilities. The mission of the ICM is to ensure the humane care of animals used in research and to support medical research teams working to develop treatments for life threatening conditions.

The Director reports to the Vice Dean for Research and is part of a senior management team dedicated to maintaining Columbia University’s prominent position in biomedical research.

The Director is responsible for animal care at Columbia University in an AAALAC accredited program with the following resources:
• A highly motivated veterinary team that includes board certified specialists
• A 120-person operations staff
• An ACLAM accredited Residency Program in Comparative Medicine

Candidates should apply online at https://jobs.columbia.edu requisition #071522

For more information please contact William Innes at wli2101@columbia.edu

**Clinical Veterinarian, EEO No. 1-13**
**University of Louisiana, Lafayette, LA**

The University of Louisiana at Lafayette invites nominations and applications for the position of Clinical Veterinarian. The position reports to the Division Head of Veterinary Medicine. Responsibilities include providing therapeutic, surgical, and diagnostic support for several breeder programs; evaluating animals and monitoring animal health on various research protocols, such as safety, pharmacokinetic, and efficacy, for the biotechnological and pharmaceutical industry; providing support and instruction to students, residents, visiting veterinarians, and clinical veterinary technicians in the principles and application of non-human primate medicine.

The New Iberia Research Center provides resources for the conduct of basic and applied research requiring the use of non-human primates aimed at the solution of human health and societal problems. In addition, the Center serves as a resource to the biomedical community, enabling investigators from other institutions to conduct all or part of their research.

**Laboratory Animal Veterinarian**
**WIL Research, Ashland, OH**

Position includes IACUC membership, responsibility for the care and well-being of all animals in vivarium, assuring compliance with all regulations concerning animal care and direct animal care. Duties will include managing animal health concerns for a modern, 200,000 square foot vivarium, overseeing 2 clinical veterinarians, overseeing an animal health surveillance program, and continually refining the current laboratory animal medicine program. Development of new clinical procedures, as well as reviewing and improving current procedure is expected. Position also includes acting as adviser for occupational health and safety issues. As part of the clinical staff, the successful candidate may also serve as a technical advisor for studies requiring veterinary input at macroscopic examinations in necropsy. The successful candidate will also be expected to act as an advisor and resource to other WIL sites including sites in Europe. Some travel may be required.

Applications: For consideration, please apply via our website: www.wilresearch.com
**Associate Director for Primate Resources**  
*Washington National Primate Center*  
*University of Washington, Seattle, WA*

The Associate Director has broad oversight and leadership responsibilities for the Division of Primate Resources. Within this framework, this position involves oversight of 11 units assigned to the Division of Primate Resources. The Associate Director is expected to support academic research activities within the division and opportunities exist for development of independent research interests.

Within the limits of available resources, the Division of Primate Resources must provide the all aspects of animal resource management; acquisition and production, husbandry, veterinary medicine and surgery, psychological well-being and environmental enrichment, pathology, and health and genetics monitoring. Additionally, this position is integral to assuring Primate Center and University compliance with all applicable regulatory agencies, guidelines and policies. This position is expected to maintain and provide expert guidance and advice regarding care and use of nonhuman primates on a local, national, and international level.

Application Process: [https://uwhires.admin.washington.edu/](https://uwhires.admin.washington.edu/), Job #88569

**Head, Laboratory Animal Medicine and Animal Resources**  
*Alcon, Fort Worth, TX*

The scope of this position is to lead and direct all activities of Laboratory Animal medicine and facilities operation in the Animal Resources Unit of Alcon Laboratories. Key responsibilities include management of 200,000 square feet of a state-of-the-art vivarium, including the most advanced technologies for animal care and product development. The incumbent will have a key role in ensuring compliance to all regulatory requirements, oversight of the veterinary medical care program, review of IACUC protocols, and ensuring a superior animal enrichment program. The Head will also participate on a multi-disciplinary scientific team to ensure support of the development of products to address unmet medical needs in eye care by collaborating with world class experts on model development and study conduct. Management responsibilities will include communicating project status, and support allocation of resources in consideration of department need and R&D plans. Additional responsibilities include performance management and talent development. (4-7 Direct Reports; 40 indirect).

Please submit applications to [www.Novartis.com](http://www.novartis.com),  
Job ID: 120095BR  
Posting Title: Head Animal Resources  
Division: Alcon

**Clinical Veterinarian (Veterinarian 3), Job Posting #17011**  
*University of California, Berkeley, Berkeley, CA*

The University of California, Berkeley invites applications for a full-time clinical veterinarian. This position reports to the Director of the Office of Laboratory Animal Care (OLAC) and joins a team that includes one other clinical veterinarian and four veterinary technicians in addition to the husbandry staff. UC Berkeley supports research utilizing most traditional laboratory species as well as a variety of birds, fish, reptiles, various wild rodents and carnivores, and aquatic and terrestrial amphibians. Responsibilities include providing veterinary care for animals used for research and teaching; reviewing research protocols; serving as an alternate ACUC member; monitoring animal health for research protocols; and providing support and instruction to visiting students and preceptors.

More information including instructions for applying may be found by searching for “veterinarian” at: [http://jobs.berkeley.edu/job-listings.html](http://jobs.berkeley.edu/job-listings.html).  
External applicants must create a login and resume profile on this site to submit an application.

Review of applications will begin on November 30, 2013 and will continue until the position is filled.

**Director/Associate Director Laboratory Animal Medicine**  
*Ricerca Biosciences, Concord, OH*

The Company  
Founded in 1986, Ricerca Biosciences offers a comprehensive suite of non-clinical discovery support and integrated R&D services to support drug candidate development from lead identification through IND and NDA submission.
**Duties**
- Provide clinical laboratory animal medicine and surgical support
- Facilitate study design and execution
- IACUC membership, responsibility, assuring compliance with all regulations
- Compliance with GLP regulations
- Supervise and assess performance of professional and technical staff
- Participate in client meetings and pathology peer review meetings
- Serve as a scientific resource
- Insure that activities in compliance with GLP regulations and Standard Operating Procedures (SOPs)
- Provide scientific expertise to Business Development, Business Management, and Client Service groups
- Facilitate business opportunities

**Clinical Veterinarian**  
**Merck & Company, Inc., Boston, MA**

Under general supervision of Director/Sr. Director, the Clinical Veterinarian is responsible for implementing comprehensive and specialized professional veterinary services for a variety of laboratory animal species for Merck Research Laboratories (MRL); assists with plans for monitoring of infectious diseases, husbandry, and sanitation. Directs the technical training program. Collaborates with ongoing in vivo drug discovery and development projects or initiates, develops and implements special projects, as required, to facilitate advancements in laboratory animal care or use, consistent with research requirements. Exercises care to insure personnel safety and animal welfare.

1. Provides scientific leadership for the veterinary care.
2. Provides professional direction for the laboratory animal medicine program.
3. Collaborates with Investigators during the development and conduct of animal research programs.
4. With approval from the Director/Sr. Director, independently identifies, designs, and initiates advanced collaborative or independent research projects.
5. Consults with laboratory animal care staff regarding new or specialized methods of animal housing, nutritional requirements, and general environment.

6. Prepares and submits documents including monthly highlights, study reports and scientific manuscripts.

To be considered for this position, please visit:  
https://merck.taleo.net/careersection/merck_external_career_section/jobdetail.ftl?lang=en&job=LAB000341

**Director of Animal Resources/University Veterinarian**  
**Virginia Tech, Blacksburg, VA**

Virginia Tech is seeking an energetic professional to oversee and direct its research and teaching animal program activities and facilities. Units supported within and external to the university include the Virginia-Maryland Regional College of Veterinary Medicine, the Virginia Tech/Wake Forest School of Biomedical Engineering and Sciences, the College of Agriculture and Life Sciences, the College of Science, the College of Engineering, the Via Virginia College of Osteopathic Medicine, the Virginia Tech Carilion School of Medicine, and the Virginia Tech Carilion Biomedical Research Institute.

The Director of Animal Resources/University Veterinarian will report to the Associate Vice President for Research Compliance. The successful applicant is expected to be specialty board certified by ACLAM.
In Memoriam

Bill C. Bullock
DVM, ACLAM Diplomate 67

Dr Bill C Bullock July 10, 1929 - Nov. 4, 2013 Born in Amarillo, Texas in 1929 and resident of Winston-Salem from 1963 until his death on November 4th. A gentle and loving family man and much respected academic who dedicated his working life to health research, becoming Professor Emeritus of Pathology - Comparative Medicine at Wake Forest University School of Medicine. Bill will be greatly missed by his family, friends and colleagues. Although no formal service will be conducted, memorials may be made to Hospice and Palliative CareCentre, 101 Hospice Lane, Winston-Salem, NC, 27103.

To ensure that your personal and contact information with ACLAM remains current, don’t forget to update your personal information via the Personal Info Update Form on the ACLAM website at http://www.aclam.org/form_personal_infoQuask.HTML

Farewell Harry - September 10, 2013 from the funeral of Harry Rozmiarek Arlington National Cemetary Arlington, VA
ACLAM General Business Meeting
Oct 29, 2013
Baltimore Convention Center
Baltimore, MD

President Niemi called the meeting to order at 5:10 pm and recognized retired Diplomates, officers, board of directors, committee chairs, committee members, and new Diplomates. He also recognized the award winners Steve Leary, Dan Myers, and Ann Dominique Degryse (honorary Diplomate). Steve also acknowledged the recent passing of Diplomates.

Secretary-Treasurer’s report – Tim Mandrell
The College continues to do well with our investments. Collectively the College and the Foundation have an investment portfolio valued at $2,032,934.00 as of June 30, 2013. The interest on these investments subsidizes our operational programs. We’ve been very fortunate to have an excellent investment advisor, who met with the BOD on Sunday during the BOD meeting. The College and Foundation also have cash on hand in money market accounts and checking accounts that are used to pay Foundation grants and general operating expenses. The BOD approved our budget for the upcoming year. There are new initiatives, standard setting for the exam, and a leadership conference which were all included in the approved budget.

Executive Director’s report – Mel Balk
Total ACLAM membership is 1099. This includes 922 active, 159 retired, and 17 honorary Diplomates. Five members have requested retirement this year. With new Diplomates and five retiring, we have a net gain of 51 new Diplomates this year. Twenty-one people have not paid dues for this year. A few members will likely be dropped from the active member list this year due to a number of reasons.

The ABVS report was submitted this year. Lynn Anderson is our representative to ABVS and will serve as President of ABVS. Several other specialty boards have asked for a copy of our recertification program.

Applications are coming in for the 2014 Exam. Historically there have been between 85 and 90 people taking the exam.

We will do a standard setting study this year for the 2014 exam. A group of 20 Diplomates will take the exam 3 times, critically evaluating each question, and establish the new cut score.

The new directory just went out. Some of you may wish to update your photograph for the directory.

President Niemi recognized the newly elected officers and BOD member.
- Vice President - Claire Hankenson
- Secretary Treasurer - Tim Mandrell
- Board of Directors - Joe Thulin and Pat Turner

Committee Chair Reports
ACLAM Foundation – Greg Boivin. Jack Kinkler is retiring as the Foundation Director and Shannon Stutler will be taking over that role. Greg thanked the Foundation committee members and recognized them. We have reached $2 M in funded grants this year. Greg recognized all President’s Circle members. There are 150 President’s Circle members. Greg also called for volunteers for grant review, to write grants, and to encourage other members to write grants. The Foundation will also need volunteers for fundraising at the Forum.

2014 ACLAM Forum - Christine (Winnie) Winnicker
The 2014 ACLAM Forum will be held in Coeur d’Alene, Idaho on May 4-7, 2014. The program will include 3 half day sessions to include: Improving your management skill sets; One Health; Disaster Management. A fourth scientific session will be on pain management.

Steve Niemi recognized those officers and BOD members who are stepping down from serving the college and presented plaques to:
- Cliff Roberts, Past President
- Claire Hankenson and Mike Ballinger, BOD members
- Jack Kinkler, Development Officer

Craig Wardrip invited members to encouraged veterinary technicians to join the Society of Lab Animal Vet Techs.

Steve Niemi concluded his presidency with editorial comments about performance standards, professional judgment, flexibility and discretion in performing our professional duties. He encouraged members to revisit the wording in performance standard guidelines, and emphasized that “should” is not “must” in regard to standards. Steve concluded with expressing his appreciation for serving the college as President.

Steve passed the President’s gavel to Sue Vandewoude.
Sue recognized Steve for his leadership of the College and presented him with a plaque.

A video and slide show was presented that introduced Sue to the College. Sue discussed the committee appointment process and opportunities to serve the College. She also encouraged members to attend the Forum in Coeur d’Alene, ID.

Sue expressed her desire to inspire members with things we don’t always recognize. She discussed the balance between animal welfare and supporting the research program. Our future challenge is to maintain this balance even when we’re forced to spend more time on regulatory issues that may not have as much to do with animal welfare and care. We have the broadest education of any professional organization; we know about many species, research protocols, and what’s in the Guide. She emphasized that we have a tremendous amount of knowledge to contribute and encouraged us to bring our professional attributes, intellect, and professional training to the table for problem solving.

The meeting was adjourned at 5:55 pm.
**MONDAY:**

**The One Health Initiative: One World, One Medicine, One Health**

The One Health Initiative is a movement to forge co-equal, all inclusive collaborations between physicians, osteopaths, veterinarians, dentists, nurses, and other scientific-health and environmentally related disciplines. ACLAM has been asked to support and join this effort. As veterinarians, particularly those of us that cross animal and human health boundaries, we are relied upon for important contributions in science, research, and the development of treatment for disease. This session will feature the CEO of the One Health Commission on the initiative and what our role can be in global environmental, human and animal health. The Deputy Administrator of the One Health Commission will share the USDA perspective on the initiative, both how they’re responding to it and what they see as the research challenges for the future. A CDC scientist will discuss human and animal health worldwide, zoonoses, and emerging infectious diseases; and a research scientist will share his success in a comparative approach to cancer treatment, illustrating the One Health initiative in action.

- **History & Mission of the One Health Initiative**, Cheryl Stroud, DVM, PhD, Executive Director, One Health Commission
- **USA perspective on One Health: how they’re responding, focus areas & research challenges for the future**, Tracey Lynn, DVM, MS, DACVPVM, One Health Coordination Office USDA-APHIS:Veterinary Services
- **Emerging Diseases**, Darin Carroll, MS, PhD, Unit Lead: Disease Ecology/Laboratory Animal Studies, Centers for Disease Control & Prevention, Division of High Consequence Pathogens & Pathology; Emerging Pandemic Threats Program
- **One Health initiatives at the veterinary schools**, Ted Mashima, DVM, DACZM, DACVPVM, Association Executive Director for Academic and Research Affairs, Association of American Veterinary Medical Colleges
- **A comparative approach to cancer treatment: One Health in Action**, Chand Khanna, DVM, PhD, DACVIM, Director, Comparative Oncology Program, Center for Cancer Research, National Cancer Institute, National Institutes of Health

**Increasing your marketability & expanding your management skill set**

As a laboratory animal veterinarian in tight economic times, how can you be the most competitive? Could you benefit from skills or certification beyond your DVM? Why are some institutions hiring directors that aren’t vets? Many businesses have realized that the ability to measure and improve quality is an opportunity to cut costs. Do you know what you’re doing when it comes to strategic planning, project management and resource management? This session will discuss planning and management from the perspective of an Exec Ed trained Lean Management Practitioner, a Project Manager, and a Change Management Expert. The skills associated with each will be presented in the context of how a laboratory animal veterinarian could use those skills. Discussions will focus on practical application of the skills of each expert, including applied examples to help illustrate the point. The breakout session will be open, frank discussions with ACLAM Diplomates with business degrees/management certifications.

- **My self-exploratory experience in management & leadership development & how I came to the Exec Ed program**, Donna Jarrell, DVM, DACLAM, Director, Center for Comparative Medicine Massachusetts General Hospital
- **Project Management**, Chris Cosgrove, BS, CEO of ElmCos Group
- **Change Management**, Edward O’Neil, PhD, MPA, FAAN, O’Neil & Associates
- **Breakout Session**

**TUESDAY:**

**Disaster Planning: for the internal disaster & from an expert perspective**

We all wrote a disaster plan, but do you know what kinds of disasters really happen? This session will open with an AAALAC report of what kind of disasters really happen the most frequently, and experts in engineering & physical plant/design discussing how to prevent the ‘internal’ disaster: much more common than floods or hurricanes. An expert from a federal disaster response team will discuss how the pros approach disaster planning & response. The session will conclude with a panel Q&A with all the speakers.

- **Introduction from AAALAC: where disasters actually happen**, John Bradfield
- **Preventing the Internal Disaster by Design**, Jerry Percifield, AIA, Project Principal HDR Architecture
- **How the pros handle disasters & what you need to know**, Cheryl Eia, JD, DVM, MPH, Coordinator of Emergency Preparadness & Response, American Veterinary Medical Association
- **Designing to prevent a disasters: mechanical system failures & physical plant design**, William Zavatky, PE, LEED AP BD+C, Director of Mechanical Engineering, Atlanta
- **Panel Discussion** with all the above speakers on panel

**WEDNESDAY:**

**Special Topic Lecture:**

**Update on Pain Management**, Jennifer Lofgren, DVM, MS, DACLAM, Clinical Assistant Professor Laboratory Animal Medicine University of Michigan Medical School

**Scientific Sessions:**

Wonder where your money is going? 2013’s ACLAM Grant Awardees will come present their research to the college. In addition, we will have a special one hour session on current pain management strategies in laboratory animal species.

- **Pharmacokinetic analysis of three buprenorphine drug delivery systems: injectable, sustained release & transdermal**, Paula Ezell
- **Use of a rotational enrichment strategy to enhance the well-being of rats in the laboratory**, Debra Hickman
- **Effect of room ventilation rates on air quality and intracage environment in animal facility rooms with individually ventilated cage systems**, Claire Lindsell
- **Diagnosis of active fur mite infestation by quantitative PCR & RT-PCR**, Alexander Sheh
- **Developing a standardized reference diet for zebrafish (Danio rerio)**, Stephen Watts
- **Effective therapy for Monkey B virus exposure**, R. Eberle
ACLAM FORUM REGISTRATION
May 4-7, 2014
Coeur d’Alene Resort
Coeur d’Alene, Idaho
“Management, Disaster Planning and Science”

Name(s)_____________________________________
Address_____________________________________
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FAX______________     Email____________________

ACLAM DIPLOMATE EARLY     $625            ________
ACLAM DIPLOMATE LATE        $650            ________
NON-DIPLOMATE                $650            ________
Forum for Life or Spouse     $299            ________

TOTAL                                                               ________

METHOD OF PAYMENT
PLEASE REGISTER ON LINE IN THE MEMBERS ONLY SECTION, IF POSSIBLE
Online registration opens January 1, 2014

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HOTEL INFORMATION
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