

AFTERNOON

Technical Trade Presentations

★ Aquatic Labs: Five Questions You Don't Want to Have to Ask (and Their Answers)

1:00 p.m.—1:20 p.m.

Room: Wabash Ballroom 2

Speaker: Mark Francis

Moderator: Steve Sussman

You've made it through the first part. Your equipment is set up, the facility is approved, you have animals in the system, and they're happy. Things are going great; in fact, they couldn't be better! Then something happens. This session will provide detailed answers and solutions to five very common questions that arise in aquatic labs. Topics include water quality maintenance (how to address spikes or drops in ammonia or pH levels and how to maintain a steady supply of treated water), breeding (how to prevent interruptions in the breeding cycle), and cleaning (tank and rack) for optimum efficiency. This presentation is tailored for aquatic lab managers, technicians, and veterinarians. Zebrafish, xenopus frogs, and other aquatic animals will be included.

This technical trade presentation is sponsored in part by Aquaneering Inc.

★ Measurement of Autonomic Regulation of Heart Rate in Mice: Value-addition to Neurobehavioral Phenotyping

1:20 p.m.—1:40 p.m.

Room: Wabash Ballroom 2

Speaker: Thomas G Hampton

Moderator: Steve Sussman

This presentation is aimed at laboratory investigators and animal technicians who desire to have additional quantitative metrics to identify neurobehavioral phenotypes in their animal models. Many neurological conditions result in alterations in autonomic control of heart rate. In mouse models of human diseases, monitoring sympathetic and parasympathetic activity adds important information to precisely characterize the neurobehavioral phenotype. Multiple sclerosis, stroke, and pain, for example, have been shown to result in alterations in heart rate and heart rate variability (HRV). This presentation

will demonstrate how electrocardiograms can be non-invasively recorded in conscious mice, even neonatal mice, via their paws as they explore a platform embedded with electrodes. Emphasis will be placed on HRV met-

Key:

- ★ Animal Welfare, Regulatory Compliance, and Public Education
- ✱ Biomedical Research, Medicine, and Methodology
- ★ Facility Design, Management, and Operation
- ⌘ Neurobehavioral Sciences

Leadership Academy Reception

Saturday, 4:00 p.m.—5:00 p.m., Marriott, Lincoln (invitation only)

rics—the time domain indices and power spectral analysis—to examine the relative contribution of the low frequency (sympathetic) and high frequency (parasympathetic) components of heart rate regulation. Data from several animal models will be discussed, including autonomic disturbances in mouse models of stroke, multiple sclerosis, and pain. Participants will learn how to obtain ECG and HRV data non-invasively in conscious mice, how to determine HRV metrics, how pharmacologic agents affect the sympathetic and parasympathetic activity of the autonomic nervous system, and how the metrics vary in three distinct animal models. Participants will leave the workshop with an understanding of how to implement ECG recording and HRV analysis in phenotyping animal models of neurobehavioral diseases.

This technical trade presentation is sponsored in part by Mouse Specifics Inc.

★ Rodent Enrichment: The Super Rodent Challenge

1:40 p.m.—2:00 p.m.

Room: Wabash Ballroom 2

Speaker: Karen M Froberg-Fejko

Moderator: Steve Sussman

Presented in a quiz format, rodent species' typical behavior will be discussed and enrichment ideas to allow these natural behaviors will be reviewed. The methods presented are secrets and tricks of the industry that have successfully enhanced the lives of rodents.

This technical trade presentation is sponsored in part by Bio-Serv.

★ Disposable Caging: Overview of Performance Characteristics in Key Applications

2:00 p.m.—2:20 p.m.

Room: Wabash Ballroom 2

Speaker: Jim Fallon

Moderator: Steve Sussman

This presentation will offer an overview of disposable caging as it relates to several key applications where these cages are being put to use today. Quarantine operations provide the opportunity to eliminate the need to transfer cages to a cage wash shared with a main colony. This serves as a form of risk reduction and process simplification. Using remote laboratories involves the arduous task of moving cages to and from a wash facility. This is an expensive proposition that exposes the cages to risks during transport, and also potentially alerts animal rights groups to the location of the research. With BSL applications, the BMBL suggests that disposable methods be employed whenever

Certification Item Pool Review

Saturday, 8:00 a.m.—5:00 p.m., Marriott, Denver

At a Glance

- Registration, Maryland Street Lobby
2:00 p.m.—6:00 p.m. Saturday
7:30 a.m.—7:00 p.m. Sunday
- Speaker Ready Room, Rm 212
1:00 p.m.—5:00 p.m. Sunday
- Poster set-up by presenting author:
2:00 p.m.—5:00 p.m., Exhibit Hall

Saturday Meetings & Events

- 2009 Leadership Training (invitation only; RSVP required): 7:30 a.m.—12:00 p.m., Marriott, Ballroom 6
- AALAS Foundation Board of Directors: 1:00 p.m.—6:00 p.m., Marriott, Santa Fe
- AALAS Foundation Board New Director Orientation: 12:00 p.m.—1:00 p.m., Marriott, Santa Fe
- Lab Products Meeting: 11:00 a.m.—5:00 p.m., Marriott, Ballroom 7
- Labrepro Inc: 8:30 a.m.—5:00 p.m., Marriott, Ballroom 2
- Leadership Academy (Branch training, pre-registration required): 1:00 p.m.—4:00 p.m., Marriott, Ballroom 4

Leadership Academy Luncheon

Sunday, 12:15 p.m.–1:30 p.m., Marriott, Lincoln (invitation only; RSVP required)

possible in these sensitive applications. Adopting disposable caging reduces risk through significant process simplification. Whether animals are making trips across campus or across the country, disposable cages greatly reduce cost and eliminate the need to keep track of cage inventory. Lastly, in regards to mainstream husbandry, the viability of disposable cages has become so secure and reliable in recent years that they have become a popular choice for new construction and renovations, particularly when capital budgets are tight or there is a need to shorten the time it takes to bring a vivarium online. These applications will be covered from a neutral perspective and will refer only to actual implementations. The information presented will be restricted to a review of data collected from users of this technology. All sources will be available for third-party verification.

This technical trade presentation is sponsored in part by Innovive Inc.

* How Water Quality Can Impact Your Cage Cleaning and Contamination Control Practices

2:20 p.m.–2:40 p.m.

Room: Wabash Ballroom 2
Speaker: Paul T Lopolito
Moderator: Steve Sussman

The presentation will discuss the different types of water and the potential impact of using tap or potable water for cage cleaning and contamination control practices. It will discuss common issues associated with hard water and provide general recommendations to correct these issues, including water spots, mineral deposits, hazy or etched plastics, poor cleaning performance, and reduced disinfectant efficacy. The presentation will also include a case study at an LAR facility, consisting of an in-depth water analysis and a look at current issues associated with their water quality and corrective action taken.

This technical trade presentation is sponsored in part by the ST-ERIS Corporation.

when choosing a system? Is only one system truly a green solution? Understanding the water quality expectations for each system is very important. The audience will learn about special design considerations for recirculating and flushing systems.

This technical trade presentation is sponsored in part by Edstrom Industries.

* IVC Maintenance: A Little TLC Makes a Big Difference

3:00 p.m.–3:20 p.m.

Room: Wabash Ballroom 2
Speakers: Don Daniels, David Demorotski
Moderator: Steve Sussman

This presentation will describe how a little preventive maintenance and a routine cleaning/sanitizing schedule can not only add years to the life of a facility's IVCs, but also benefits the health and well-being of the animals and staff. Proper cleaning techniques for vent racks will be discussed, as well as how newer rack designs make it easier for technicians to access the dirty areas for better cleaning processes. The presentation will also cover preventative maintenance tips that will aid in the protection of the animals as well as help extend the life of the equipment.

This technical trade presentation is sponsored in part by Alternative Design Manufacturing.

* Hydrogen Peroxide Vapor Decontamination

3:20 p.m.–3:40 p.m.

Room: Wabash Ballroom 2
Speaker: Martin Orłowski
Moderator: Steve Sussman

This presentation discusses the use of hydrogen peroxide vapor (HPV) as a bio-decontamination agent. The major advantages of this residue-free technology include the ability to demonstrate successful decontamination cycles without requiring specific environmental conditions (temperature, low or high humidity). This key factor of the process saves time and eliminates a difficult-to-control variable from the procedure. The validation of the process using *G. stearothermophilus* will be discussed, and a link established to practical requirements such as MPV, mold, and TB. The availability of advanced distribution systems ensuring full coverage in a given application will be considered, and will be linked to the myth surrounding the claimed superior distribution of alternative technologies. The presentation will highlight the excellent material compatibility over many cycle runs and

Saturday Affiliate Events

- **ACLAM Committee Meeting: 1:00 p.m.–5:00 p.m., Westin, Boardroom**
- **ASLAP Continuing Education: 8:00 a.m.–5:00 p.m., Westin, Grand 5**
- **ASLAP Social: 6:30 p.m.–9:30 p.m., NCAA Hall of Champions**
- **Fourth ICLAS Meeting on Harmonization of Guidelines (First Part; invitation only): 1:00 p.m.–5:00 p.m., westin, State**
- **ICLAS Executive Board Meeting: 9:00 a.m.–12:00 p.m., Westin, Boardroom**
- **LAMA Board Meeting: 10:00 a.m.–5:00 p.m., Westin, Senate I**

Sunday Committee Meetings

- **Awards Selection Committee: 8:30 a.m.–9:30 a.m., Rm 114**
- **Biosafety Subcommittee: 8:00 a.m.–12:00 p.m., Rm 113**
- **Certification Item Review: 2:00 p.m.–4:30 p.m., Marriott, Denver**
- **CMAR Committee: 1:00 p.m.–4:00 p.m., Rm 113**
- **Educational Resources Committee: 8:00 a.m.–12:00 p.m., Rm 111**
- **Program Committee Walk Thru: 4:00 p.m.–5:00 p.m., registration desk**
- **Scientific Advisory Committee: 1:00 p.m.–4:00 p.m., Rm 111**
- **Tech Talk Editorial Committee: 1:00 p.m.–3:00 p.m., Rm 112**

* Recirculation and Flushing—Which One Is Right for You?

2:40 p.m.–3:00 p.m.

Room: Wabash Ballroom 2
Speaker: Susan McDaniel
Moderator: Steve Sussman

Both recirculating and flushing automated watering systems provide unique advantages to the vivarium. What are the real differences? What must one consider

Welcome Reception

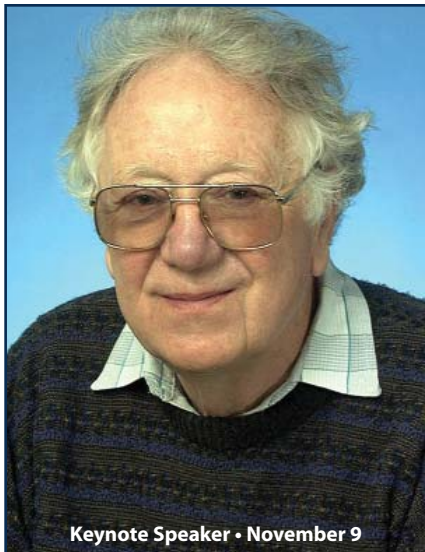
Sunday, 6:30 p.m.–8:00 p.m., Marriott, Ballroom

Certification Exams

- **Certification Exams: ALAT, LAT, & LATG Sunday, 8:00 a.m.–12:00 p.m., Marriott, Ballroom 5**
- **CMAR AR Exam: Sunday, 8:00 a.m.–12:00 p.m., Marriott, Room 10**

Sunday Meetings & Events

- **Allentown Charitable Open House benefiting the AALAS Foundation: 12:00 p.m.–2:00 p.m., Rm 108**
- **Astra Zeneca: 9:00 a.m.–5:00 p.m., Westin, Congress I**
- **Drexel University College of Medicine: 3:00 p.m.–4:30 p.m., Westin, House**
- **Facilitators & Moderators Meeting: 3:00 p.m.–4:00 p.m., Rm 105**
- **Facility Directors—Yale University: 8:30 a.m.–1:00 p.m., Marriott, Santa Fe**
- **First Time Attendee/New Member Orientation: 2:00 p.m.–3:00 p.m., Rm 120**
- **International Attendees Meeting: 1:00 p.m.–2:00 p.m., Rm 123**
- **Labrepc Inc: 8:30 a.m.–5:00 p.m., Marriott, Ballroom 2**
- **Leadership Academy (by pre-registration only): 7:00 a.m.–4:00 p.m., Marriott, Ballroom 4**
- **New BOT Orientation: 10:00 a.m.–12:00 p.m., Rm 112**
- **Opening General Session: 5:00 p.m.–6:30 p.m., Sagamore Ballroom 4**
- **Opening General Session Award Winner Photos: 4:00 p.m.–4:30 p.m., Rm 210**
- **Technician Fun Fair: 9:00 a.m.–5:00 p.m., CTAD Booth**
- **Tecniplast Breakfast Reception/New Product Showcase: 8:00 a.m.–4:00 p.m., Rm 117**



Keynote Speaker • November 9

Keynote Speaker Oliver Smithies

Nobel Prize-winning scientist Oliver Smithies will deliver the keynote address at the Opening General Session. On October 8, 2007, Smithies was announced as co-winner of the Nobel Prize in Physiology or Medicine with Mario Capecchi of the University of Utah and Martin Evans of Cardiff University for their discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells.

Smithies is also noted for his 1950 invention of gel electrophoresis and the simultaneous discovery, with Mario Capecchi, of the technique of homologous recombination of transgenic DNA with genomic DNA, a much more reliable method of altering animal genomes than previously used, and the technique behind gene targeting and knockout mice.

From 1953 to 1960, Smithies worked in the Connaught Medical Research Laboratory at the University of Toronto, Canada, due to visa problems, before he could return to his originally planned post as Assistant, Associate and Leon J. Cole and Hilldale Professor of Genetics and Medical Genetics at the University of Wisconsin—Madison, where he worked from 1960 to 1988. Since 1988, Smithies has been designated an Excellence Professor of Pathology and Laboratory Medicine at the University of North Carolina at Chapel Hill. He also works at the Duke University Institute for Genome Sciences and Policy. For more information, please visit www.pathology.unc.edu/common/smithies.htm.

looks at the many health and safety advantages of HPV, and explains why HPV technology is the decontamination agent of choice in aseptic and life sciences environments around the world. Emphasis throughout will be placed on room and facility decontamination, biological safety cabinets, cage wash systems, and other laboratory equipment. A number of case studies will be presented.

This technical trade presentation is sponsored in part by BIOQUELL Inc.

* Decontamination of a 70-Room New Animal Research Facility

3:40 p.m.–4:00 p.m.

Room: Wabash Ballroom 2

Speakers: Mark Czarneski, Paul Lorcheim

Moderator: Steve Sussman

This case study describes using gaseous chlorine dioxide (CD) to proactively decontaminate a new 180,000 ft³ animal research building. To save money, the company was using some used animal racks, cages, and lab instruments and equipment. The company desired to ensure the facility was free of any pathogens before the research animals were brought into the facility. Prior to the introduction of animals is the best time to perform a decontamination of a facility as a whole, thus reducing the chances of contamination of the animals when brought into the new facility. To save time, all of the equipment was decontaminated in place, eliminating the need to autoclave or fumigate all incoming equipment separately. This work demonstrates the utility of using gaseous chlorine dioxide for the decontamination of new, large facilities with many equipment surfaces, a complex geometry of 70 rooms, and miscellaneous electronic and optic equipment without the need to separate into smaller areas. Discussion will include costs, cycle times, sampling locations, generator placement, and microbiological results. Pictures will be used to demonstrate the size and complexity of the effort.

This technical trade presentation is sponsored in part by Clordisys Solutions Inc.

Sunday Affiliate Events

- **ACLAD Business Meeting:** 4:00 p.m.–5:00 p.m., Rm 102
- **ACLAM Board of Directors:** 7:30 a.m.–4:00 p.m., Westin, Cabinet
- **ACLAM Diplomat Exam Review:** 8:00 a.m.–3:00 p.m., Westin, Capitol Ballroom
- **ACLAM Exam Committee:** 2:00 p.m.–5:00 p.m., Westin, Caucus
- **ACLAM Forum Coordinating Committee:** 1:00 p.m.–5:00 p.m., Westin, Congress II
- **ACLAM Forum Program:** 2:00 p.m.–5:00 p.m., Westin, Chamber
- **ACLAM Foundation:** 1:00 p.m.–5:00 p.m., Westin, Senate II
- **ACLAM Public Policy:** 9:00 a.m.–11:00 a.m., Westin, Boardroom
- **Allied Trade Association Membership Meeting/Breakfast (invitation only; RSVP required):** 8:30 a.m.–10:30 a.m., Rm 104
- **ASLAP Board of Directors:** 8:00 a.m.–12:00 p.m., Westin, Chamber
- **ASLAP Foundation Meeting:** 12:00 p.m.–1:00 p.m., Westin, Boardroom
- **ASLAP General Membership Meeting:** 4:00 p.m.–5:00 p.m., Rm 123
- **Fourth ICLAS Meeting on Harmonization of Guidelines (Second Part; invitation only):** 8:30 a.m.–12:00 p.m., Westin, Grand III