

## SWINE IN BIOMEDICAL RESEARCH

### TRAINING COURSE

*Department of Comparative Medicine  
Medical University of South Carolina (MUSC)  
MSC 777  
114 Doughty St./Rm. 648  
Charleston, SC 29425-7770*

Phone: 843 876 5212  
Fax: 843 876 5210  
Email: [swindlem@musc.edu](mailto:swindlem@musc.edu)

Date: November 14-16, 2011

Location: Surgical Research Laboratories, MUSC, Strom Thurmond Building 8<sup>th</sup> floor (lab sessions), Strom Thurmond Building Room 641 (lectures)

Purpose: The course will provide didactic and hands on training in the use of swine as biomedical research models. The lectures will include: handling, husbandry, animal welfare, anesthesia, analgesia, perioperative care, animal models and surgical techniques.

Students will perform basic procedures in swine including: venipuncture, injections, intubation, surgical cut-downs, thoracic and abdominal surgical approaches. Individualized instruction will be provided for specific research protocols, upon request by students (4/pig). The course is available to researchers, research technicians, veterinarians and veterinary technicians. Attendants should be competent with basic surgical skills. Eligible for 14 Continuing Education hours of credit.

Hotel: Charleston Marriott, 170 Lockwood Blvd., Charleston, S.C. 29403 (843) 723-3000. A block of rooms are reserved for \$109/night. Ask for “Comp Med” when making your reservation. Bed and Breakfast rooms or upgraded hotels can be arranged by the office upon request. Make reservations by October 15.

Fee: Make checks payable to “**MUSC Foundation for Research Development #10071**” in the amount of \$1,200.00/person. MasterCard, Visa or purchase orders are accepted. The fee includes the course, hand-out material, a CD Rom and two lunches. Enrollment is limited to 16 persons. Reservations are not confirmed until payment is received. There is an optional half day Master Class for an additional \$500. See below for information. Mail to *Russell Cox* at the address above.

## SCHEDULE

### **Monday**      **Lectures in Strom Thurmond Building / Room 641**

- 7:45 a.m.      Meet in lobby of the Strom Thurmond Building/114 Doughty St./MUSC  
8:00 a.m.      Introduction to course - *Swindle*  
8:15 a.m.      Anesthesia, Analgesia, Handling and Husbandry - *Swindle*  
9:00 a.m.      Coffee break  
9:30 a.m.      Chronic Catheterization and Fistulation - *Swindle*  
10:30 a.m.      Demonstration laboratory session on handling, husbandry, venipuncture, injections, intubation, surgical procedures - *Strom Thurmond Building*  
12:00 p.m.      Lunch – 641 STB: Discussion of specific protocol problems submitted by attendees  
1:00 p.m.      Surgical Procedures: Intubation, surgical vascular access to peripheral arteries and veins, tracheostomy. Repeat venipuncture and injection skills.  
4:00 p.m.      Adjourn

### **Tuesday**      **Lectures in Strom Thurmond Building / Room 641**

- 8:00 a.m.      Perioperative Care - *Smith*  
9:00 a.m.      Coffee break  
9:15 a.m.      Comparative Anatomy and Models in Biomedical Research - *Swindle*  
10:45 a.m.      Coffee break  
11:00 a.m.      Swine Behavior and Enrichment – *Laber*  
12:00 p.m.      Necropsy Procedures - *Helke*  
12:30 p.m.      Lunch – 641 STB  
1:00 p.m.      Abdominal and thoracic surgical procedures. Specific techniques may be requested by students.  
4:00 p.m.      Adjourn

### **Wednesday**      **Master Class in lab 9-12** **FACULTY**

M. Michael Swindle, D.V.M., Diplomate, ACLAM, Diplomate, ECLAM.

Alison C. Smith, D.V.M., Diplomate, ACLAM

Kathy Laber, D.V.M., Diplomate, ACLAM

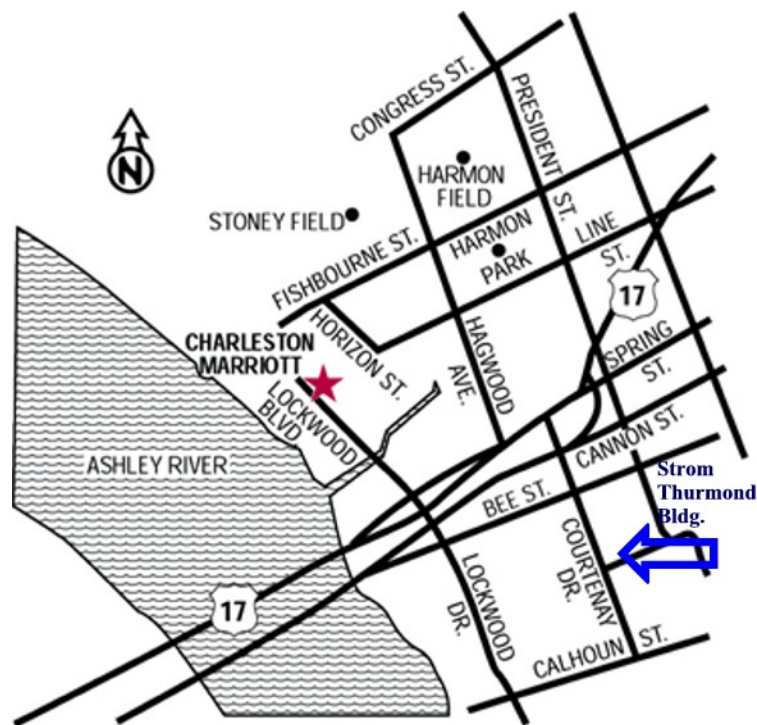
Kris Helke, D.V.M., Ph.D., Board Eligible ACVP

*Future Course: February 6-8, 2012*

1. *Reference Book:* Swindle MM: *Swine in the Laboratory: Surgery, Anesthesia, Imaging, and Experimental Techniques*, 2<sup>nd</sup> Ed., Boca Raton, FL: CRC Press, 2007.
2. *CD Rom:* Swindle MM: *Swine in Research-Husbandry, Handling and Research Techniques*, Laboratory Animal Training Association, <http://www.latanet.com/>, 2004.
3. *CD Rom:* Swindle MM: *Anesthesia, Analgesia and Perioperative Techniques in Swine*, Laboratory Animal Training Association, <http://www.latanet.com/>, 2005.
4. *CD Rom:* Swindle MM: *Surgical Procedures in Swine*, Laboratory Animal Training Association, <http://www.latanet.com/>, 2008.

## OPTIONAL MASTER CLASS

The normal course has 4 persons per pig to perform the basic procedures. We honor special requests for procedures or device implantations in the second day of that course. Some students have requested that we provide an opportunity to perform repeated procedures or additional complex procedures with 2 persons per table. This lab will be given Wednesday morning from 9am-12 pm with direct supervision by Drs. Swindle and Smith. Specialized procedures should be specified in advance. The optional additional lab costs \$500/person.



Phone Number: 843 876 5212