Vol. 21, No. 3, September 2006

Fall 2006 PACUC Activities

“PACUC Meeting Dates”

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“PACUC Orientation Programs for Vertebrate Animal Users”

The orientation program for new faculty, staff, and students, who will be using vertebrate animals in research, teaching, and/or testing, will be held on the following dates during the fall semester:

Tuesday, September 5, 1:30-3:00 p.m. in STEW 320.
Tuesday, October 3, 1:30-3:00 p.m. in STEW 218C.

Attendance at one of these sessions is mandatory for personnel (i.e., faculty, staff, students) who wish to initiate work with vertebrate animals at Purdue University. Personnel will not be approved to work with animals until such time that they have attended one of these meetings or completed the program on-line. We strongly encourage participating in an “in-person” program; however, it may be completed on-line if your schedule does not allow for in-person participation. Please go to the following URL: http://www.purdue.edu/Research/vpr/compliance/vertebrates/onlineorientation.shtml. The password to enter is “pass” (without the quotation marks).

This program presented by staff of the Purdue Animal Care and Use Committee (PACUC) and the Laboratory Animal Program (LAP) is designed to introduce you to the Purdue system for maintaining regulatory compliance with federal and University guidelines and ensuring humane care and use of animals.

Registration is required to attend one of the “in-person” sessions and may be done via e-mail to Lisa Snider at ldsnider@purdue.edu.
"How to Write an Approval-ready Protocol Application to Use Vertebrate Animals at Purdue University"

Staff of the PACUC and the LAP will present a training session on how to write an approval-ready protocol application for those wishing to use vertebrate animals in their research, teaching, or testing activities at Purdue University. Gretchen Stephens, School of Veterinary Medicine library, will also be present to provide information on how to perform appropriate literature searches, an important part of filling out a protocol application.

Attendance at this session is strongly encouraged for faculty new to the Purdue system. Faculty who have been here awhile and would like a refresher course are also welcome. We do not discourage attendance by graduate students or post-docs but ask that they not be sent in the faculty members place.

The training session will be offered on October 12, 2006, in STEW 214C, from 1:30-3:00 p.m.

Please register for this session by contacting Lisa Snider, PACUC Administrator, at ldsnider@purdue.edu.

AAALAC-I Accreditation at Purdue

Purdue’s animal care and use program and its animal facilities (including outlying farms) became accredited in June 2006 by the Association for Assessment and Accreditation of Laboratory Animal Care-International (AAALAC-I). AAALAC-I is a private, nonprofit organization that promotes the humane treatment of animals in science through voluntary accreditation and assessment programs.

More than 700 companies, universities, hospitals, government agencies and other research institutions in 28 countries have earned AAALAC-I accreditation, demonstrating their commitment to responsible animal care and use. These institutions volunteer to participate in AAALAC-I’s program in addition to complying with the local, state, and federal laws that regulate animal research.

The PACUC and LAP would like to extend their sincere appreciation to the animal care managers, supervisors, and staff for the immense amount of work and time they put into helping prepare the program descriptions that were submitted to the AAALAC-I Council. These dedicated individuals were also very helpful in answering questions that the site visitors had when they visited Purdue in the fall of 2004.

Schedule II vs. Schedule III Controlled Substances

Schedule II controlled substances require a significant amount of additional paperwork and stricter security measures as compared to Schedule III controlled substances. For
example, schedule II controlled substances are required to be kept on separate inventory and administering records; lock boxes are to be bolted down inside a substantial locked cabinet for storage; there are license specific order forms supplied by the DEA that must be used for ordering.

Often times you can reduce this work load by selecting a schedule III controlled substance that can be used in place of a schedule II controlled substance, i.e., beuthanasia in place of pentobarbital. Finding an alternative schedule III controlled substance is encouraged by the DEA. You can check with one of the Laboratory Animal Program veterinarians (49163 or lap@purdue.edu) to find the most appropriate scheduled controlled substance for your research, teaching, or testing project that uses vertebrate animals.

For general questions concerning controlled substances and obtaining a DEA license, contact Robert Golden at rwgolden@purdue.edu or call 41496.

The featured LAP pet is Jake Light

**New LAP Training Coordinator**

Carol Dowell has recently accepted the position of Training Coordinator for the Laboratory Animal Program in the Vice President for Research (VPR) office. The position was formerly held by Susan Cutter, who provided many of you a variety of training opportunities and did a great job developing the AALAS certification courses. Carol formerly worked with the Clinical Research Laboratory in the Department of Veterinary Clinical Science (VCS) at Purdue. Carol received her B.S. degree in Veterinary Technology from Purdue, with a minor in Organizational Leadership and Supervision. She is excited about the educational opportunities that she can bring to your research. You are encouraged to contact her if you have any questions or suggestions.

Carol is enthusiastic about continuing the programs Susan had developed as well as providing scheduled "hands-on" training workshops for your work group, providing one-on-one training or refresher lessons to research/technical staff/students, etc., in animal handling, restraint, dose administration, sample collection methods, anesthesia, pain management, suturing, aseptic surgery, pre- and post-surgical monitoring, record keeping and related animal use procedures. Carol has a great deal of experience working with a variety of species; however, she does not know everything. For this reason she likes to have training sessions scheduled in advance so there is ample opportunity to gather related training materials (texts, manuals, videos, CDs, on-line training sites) as well as other personnel that have an expertise in your training needs.

Carol will serve as the primary and initial contact for the animal related training and continuing education programs that
provide training in the ethical, humane and proper care and use of animals used in research, testing and teaching as required by the Animal Welfare Act, the ILAR Guide for the Care and Use of Laboratory Animals, The Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching, and Purdue University policies. In addition, Carol can provide information and educational opportunities on appropriate occupational health and zoonosis topics.

Carol may be contacted at dowellc@purdue.edu or 42521 and looks forward to helping you conduct quality and humane research.

"PACUC TRAINING POLICY"

REQUIRED ELEMENTS FOR TRAINING:
The Principal Investigator or Supervisor is responsible for ensuring that everyone under his or her direction who works with animals is adequately trained and fulfills the following requirements. Those who must be properly trained include:
- Principal Investigators and Supervisors
- Research Staff
- Animal Care Staff
- Graduate students
- Undergraduate employees
- Students working with animals under the auspices of a course or research protocol with PACUC approval (including independent research courses)

Purdue personnel must
1. Complete the PACUC Orientation Program.
   If taking the orientation on-line, the individual must have a 100% passing grade. The online orientation session link is below. The password to enter the orientation is “pass” without the quotation marks. http://www.purdue.edu/research/vpr/compliance/animals/onlineorientation.shtml. To complete an in-person orientation session, contact the PACUC office at Idsnider@purdue.edu.

2. Examine Website Materials on Occupational Health and Safety Training
   The URL for the website is: http://www.purdue.edu/research/vpr/compliance/animals/occhealth.shtml. Personnel may participate in the Occupational Health and Safety Program for Individuals with Laboratory Animal Exposure and they must fill out the Participation/Declination form regardless of whether or not they choose to participate in the program.

3. Satisfy REM’s Requirements for the Handling of Controlled Substances, if applicable.
   See http://www.purdue.edu/rem/eh/DEA.htm

4. Be informed (where applicable) about the provision of veterinary care, keeping health records, handling of expired medical
materials, or handling of pharmaceutical-grade compounds
  • Program of Veterinary Care - See the PACUC guidelines on the Provision of Veterinary Care - http://www.purdue.edu/research/vpr/compliance/animals/docs/vetcare2.pdf
  • Keeping Health Records - See the PACUC Policy on Required Veterinary Medical Record Keeping for Research and Teaching Animals - http://www.purdue.edu/research/vpr/compliance/animals/forms/policy2.pdf

Before working independently on procedures requiring further expertise, Purdue personnel must

5. Be Certified as Qualified on a PACUC Qualification Form

An individual must have species-specific expertise for the animal being handled. For protocols involving wild organisms, training can be done with the same species as listed in the protocol or with a closely related species. The individual must also be able to perform independently the procedures that are necessary to fulfill their role as outlined in the approved PACUC protocol.

Among the procedures that require the submission of a Qualification Form are:
  o Husbandry
  o Handling/Restraint
  o Breeding
  o Nutrition
  o Blood collection
  o Injections
  o Oral gavage
  o Surgery, including
    • Aseptic Technique
    • Anesthesia and Analgesia
    • Suture Techniques
  o Pre- and Post-Procedural Care
  o Euthanasia

Qualified individuals must either be trained or have antecedent expertise.

Training may be provided either by the LAP office, or by another individual who has a completed PACUC Qualification Form on file for that specific species and technique, or by an off-campus individual who has the necessary qualifications to provide the training.

If someone other than an LAP staff member trains the person, individual training documentation must be completed and filed with the employee’s supervisor for each item submitted on the PACUC Qualification form.

Training should be hands-on with the relevant species as listed in the approved PACUC protocol.

Attached is an example of a Hands-On Training Form that may be used for training documentation. This form may be modified as needed by the
PI/Supervisor to suit their individual training needs.

**Antecedent expertise** should be documented by an abbreviated CV that describes relevant professional degrees, licenses, certification, and experience in protocol related procedures. Publications may be listed if appropriate to the protocol related procedures.

*Visiting Researchers and Research Staff* who will be working on procedures for which Purdue normally requires a Qualification Form must submit a Training Exemption Request (attached) at least one week in advance of arrival. This request may be sent to the PACUC office by email ldsnider@purdue.edu or fax (765) 496-2415.

**Instructor Responsibilities**

Instructors must notify all students attending courses in which they may be exposed to animals of all risks associated with that species. Some, though not all, information about such risks can be found on the Purdue Occupational Health link – http://www.purdue.edu/research/vpr/compliance/animals/occhealth.shtml

**Training Programs**

Training programs are available through LAP and may be used by anyone using or caring for animals used in research or teaching. These include:

- **Brown Bag Seminars** - monthly voluntary training with topics that are of interest to the animal care and research staff
- **PACUC Newsletter** - quarterly informational training provided to all personnel who use animals on campus.
- **AALAS Training Courses** - provided by Laboratory Animal Program on a rotating basis for all levels (i.e. ALAT, LAT, LATG, and CMAR)
- **Hands-on sessions** - These courses cover handling, restraint, behaviors, injection and blood collection techniques. These sessions will be documented using the Hands-On training form. Species covered may include mice, rats, rabbits, and other species depending on availability of transfer from another approved protocol

Specialized training in farm techniques, wildlife training, particular research procedures, etc. is available through LAP as needed.

For specific questions regarding this Training Policy, please contact Carol Dowell, Training Coordinator, at dowellc@purdue.edu.

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**TRAINING TRENCHES**

"Brown Bag Session"

The first "Brown Bag Session" for fall 2006 has been scheduled. Sessions for October-December will be scheduled in the near future and information will be e-mailed to individuals at a later date.

**Tuesday, September 26, 2006 - 11:30-12:20, LILY G-432.**

**Animal Ordering: The Change from ARIBA to SAP/SRM**
Mr. Doug Sabel from Purchasing will address the issue of converting from the ARIBA system to the new SAP/SRM procurement system specifically in regards to ordering animals for research, teaching, or testing. Implementing the new procurement system will happen later this fall and there will be some “down time” associated with this conversion and it could affect your ability to order animals for a period of time.

This information session is open to anyone who orders animals at Purdue University and everyone is encouraged to attend to learn how this will affect their facility/area.

If you will be attending this session, an RSVP is required. Please contact Carol Dowell (dowellc@purdue.edu) to register.

**Report of Meeting on Use of Carbon Dioxide (CO₂) for Euthanasia**

(Excerpted in part from The National Centre for the Replacement, Refinement and Reduction of Animals in Research - UK)

CO₂ is one of the most commonly used methods of rodent euthanasia. It can be the most suitable method for euthanasia of large numbers of rodents (easier and less time-consuming than alternatives) and, if used in optimal conditions, CO₂ may also be less stressful than manipulations required for injections or physical methods. It is also highly reproducible when using appropriate equipment and safe for operators.

However, at certain concentrations CO₂ can cause rodents pain and/or distress and there has to date been a perceived disagreement between those who believe the use of CO₂ may be acceptable in some circumstances and those who believe it is inhumane.

In February 2006 a 'consensus meeting' was held at the University of Newcastle which had the following aims:

- To bring together scientists who have examined CO₂ as a euthanasia agent, in order to share data and views and to inform best practice in the use of CO₂ euthanasia of rodents
- To establish where there are areas of disagreement and to identify what research needs to be done to address these
- To identify what further research needs to be done relating to CO₂ euthanasia in general and to identify potential alternative gaseous agents
- To meet the immediate need for guidance on the humane use of CO₂ euthanasia within research establishments

The report of the meeting - Newcastle Consensus Meeting on Carbon Dioxide Euthanasia of Laboratory Animals (PDF, 123KB) - is now available.

The report describes: Problems with CO₂ killing; Good practice for CO₂ euthanasia; Alternative gaseous euthanasia agents; and Future research.