March 2, 1993

Robert V. Smith, Ph.D.
Vice Provost for Research
and Dean of the Graduate School
Washington State University
Pullman, WA 99164-1030

Dear Dr. Smith:

The Office for Protection from Research Risks (OPRR) has reviewed and approved the renewal of your Animal Welfare Assurance (Assurance) which was submitted in compliance with the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy) revised September 1986.

Your Assurance renewal bears the same identification number, i.e., #A3485-01, and became effective on February 1, 1993. This Assurance supersedes all previously issued Assurances. The approval period is for five years, and will expire on January 31, 1998. Please be sure to reference your Assurance number in all correspondence to this Office.

The Assurance is a key document in defining the relationship of your Institution to the PHS since it sets forth the responsibilities and procedures of your Institution regarding the care and use of laboratory animals. Among the important elements of the Assurance, I would especially call your attention to the reporting requirements which are essential for continued compliance with the PHS Policy. Please note that an Annual Report to OPRR is required within 12 months of the effective date of this Assurance.
A copy of the approved Assurance signature page is enclosed. If I may be of any further assistance, please contact me.

Sincerely,

Denis J. Doyle
Chief, Assurance Branch
Division of Animal Welfare, OPRR

Enclosure

DJD/mp

cc: Raymond W. Wright, Ph.D., IACUC Chair
WASHINGTON STATE UNIVERSITY

Assurance of Compliance with Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals

Washington State University, hereinafter referred to as institution, hereby gives assurance that it will comply with the Public Health Service Policy on Humane Care and Use of Laboratory Animals, hereinafter referred to as PHS Policy.

I. APPLICABILITY

This Assurance is applicable to all research, research training, experimentation, and biological testing and related activities, hereinafter referred to as activities, involving live, vertebrate animals supported by the Public Health Service (PHS) and conducted at this institution, or another institution as a consequence of the sub-granting or subcontracting of a PHS-conducted or supported activity by this institution. "Institution" includes the following branches and major components of Washington State University:

A. The Graduate School

Laboratory Animal Resources Center
College Hall Animal Facility

B. College of Sciences and Arts

Eastlick Vivarium and BL-3 Facility
Johnson Tower
Aviaries and Aviary Environmental Chambers
Trout Facility and Trout Environmental Chambers
Snake Facility

C. College of Pharmacy

Wegner Hall Vivarium
Ritter Laboratory
Neuroscience Laboratory
D. College of Agriculture and Home Economics

Department of Animal Sciences

Experimental Animal Laboratory Building
Dairy Center
Swine Center and Swine Quarantine Building
Beef Center
Cattle Feeding and Reproduction Barns
Building 146
Sheep Center
Hilltop Stables
Campus and Wawaii Pastures

Department of Natural Resource Sciences

Bear Facility
Smoot Hill Wildlife Facility
Deer and Elk Pens
Small Mammal Research Facility

E. College of Veterinary Medicine

Department of Veterinary Clinical Medicine and Surgery

McCoy Hall

Animal Resources Unit

Bustad Vivarium
Large Animal Facilities
Bighorn Sheep Pens
Campus Pastures

F. Puyallup Research and Extension Center

G. Buckley Dairy

H. Prosser Irrigated Agriculture Research and Extension Center

I. USDA Agricultural Research Service
II. INSTITUTIONAL POLICY

A. This institution will comply with all applicable provisions of the Animal Welfare Act and other Federal statutes and regulations relating to animals. This institution is registered as a research facility with the USDA, registration number 91-R-002.

B. This institution is guided by the "U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training."

C. This institution acknowledges and accepts responsibility for the care and use of animals involved in activities covered by this Assurance. As partial fulfillment of this responsibility this institution will make a reasonable effort to ensure that all individuals involved in the care and use of laboratory animals understand their individual and collective responsibilities for compliance with this Assurance as well as all other applicable laws and regulations pertaining to animal care and use.

D. This institution has established and will maintain a program for activities involving animals in accordance with the Guide for the Care and Use of Laboratory Animals (Guide).

III. INSTITUTIONAL PROGRAM FOR ANIMAL CARE AND USE

A. The lines of authority and responsibility for administering the program and ensuring compliance with this policy are:

BOARD OF REGENTS

| PRESIDENT
| (CHIEF EXECUTIVE OFFICER)
| PROVOST
| VICE PROVOST FOR RESEARCH AND DEAN OF THE GRADUATE SCHOOL (INSTITUTIONAL OFFICIAL)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (PRESIDENT'S STANDING COMMITTEE)

DIRECTOR, LABORATORY ANIMAL RESOURCES CENTER (CAMPUS VETERINARIAN)
B. The qualifications, authority, and percent of time contributed by veterinarians who will participate in the program are:

William T. Fener D.V.M.
Graduate of The Ohio State University College of Veterinary Medicine
Diplomate, American College of Laboratory Animal Medicine
10 years training and experience in laboratory animal medicine
Campus veterinarian, Office of the Vice Provost for Research
100% university appointment; delegated program responsibility for activities involving animals at the institute in compliance with the Guide

Robert H. Russon, D.V.M.
Graduate of Colorado State University College of Veterinary Medicine
1 year experience in laboratory animal medicine
Assistant campus veterinarian, Office of the Vice Provost for Research
50% university appointment; oversight of animal care program

Steven M. Parish, D.V.M.
Graduate of Washington State University College of Veterinary Medicine
Diplomate of the American College of Veterinary Internal Medicine
Associate Professor, Veterinary Clinical Medicine and Surgery
Large animal (food animal/ruminant) medical care
100% university appointment; provision of medical care to large animal species

Melissa Hines, D.V.M., Ph.D.
Graduate of The Ohio State University College of Veterinary Medicine
Residency in Equine Medicine, University of Florida
Assistant Professor, Veterinary Clinical Medicine and Surgery
Large animal (equine) medical care
100% university appointment; provision of medical care to large animal species

It should also be noted that in the College of Veterinary Medicine, there will be many researchers/instructors with D.V.M. degrees who will provide clinical/medical care to their research subjects. Other large animal veterinarians under the supervision of Drs. Parish and Hines will also be involved in the provision of clinical care. Oversight of the care, i.e., assuring care is provided, will rest with the campus and assistant campus veterinarian.

C. This institution has established an Institutional Animal Care and Use Committee (IACUC), which is qualified through the experience and expertise of its members to oversee the institution's animal program, facilities and procedures. The IACUC consists of at least five members, and its membership meets the compositional requirements set forth in the PHS Policy at IV.A.3.b. The IACUC is a President's Standing Committee with appointments to the Committee being made by the Chief Executive Officer through the Vice Provost for Research of the institution. Appendix A provides a list of the names, position titles, earned degrees and other credentials of the IACUC chairperson and members.
D. The IACUC will:

1. Review at least once every six months the institution's program for humane care and use of animals, using the Guide as a basis for evaluation.

2. Inspect at least once every six months all of the institution's animal facilities (including satellite facilities) using the Guide as a basis for evaluation.

3. Prepare reports of the IACUC evaluations as set forth in the PHS Policy at IV.B.3. and submit the reports to Robert V. Smith, Ph.D., Vice Provost for Research and Dean of the Graduate School.

4. Review concerns involving the care and use of animals at the institution.

5. Make written recommendations to Robert V. Smith, Ph.D., Vice Provost for Research and Dean of the Graduate School, regarding any aspect of the institution's animal program, facilities, or personnel training.

6. Review and approve, require modifications in (to secure approval) or withhold approval of those activities related to the care and use of animals as set forth in the PHS Policy at IV.C.

7. Review and approve, require modification in (to secure approval) or withhold approval of proposed significant changes regarding the use of animals in ongoing activities as set forth in the policy at IV.C.

8. Notify investigators and the institution in writing of its decision to approve or withhold approval of those activities related to the care and use of animals, or of modifications required to secure IACUC approval as set forth in the PHS Policy at IV.C.4.


E. The procedures which the IACUC will follow to fulfill the requirements set forth in the PHS Policy at IV.B. are:

1. A draft report of the institutions program for humane care and use of animals that will incorporate recommendations, concerns, or comments noted by the IACUC during its deliberations and inspections will be prepared by the campus veterinarian on a semi-annual basis and provided to the IACUC for their review. The draft will be prepared using the Guide as a basis for evaluation of the program and will contain a description of the nature and extent of the institution's adherence to the Guide and the Policy. Subsequent to review by the IACUC and incorporation of any comments or
changes, a final document will be prepared for signature by the IACUC.

2. The IACUC will conduct a semi-annual review/inspection of all institutional animal facilities using the Guide as a basis for evaluation. Normally, a minimum of two members of the IACUC will perform an unannounced inspection of each facility. Each member will be given the opportunity to request being involved with the review of any facility. A report will be prepared for each of the facilities evaluated and will distinguish between significant and minor deficiencies. Comments for improvement, where the condition is not considered a deficiency, will also be listed. Facility supervisors and/or their superiors will respond to listed deficiencies in writing to the IACUC with a reasonable and specific plan and schedule for each deficiency for correction. The responses will subsequently be reviewed by the IACUC.

3. A report that incorporates the IACUC program and facility evaluation will be prepared and submitted to the Vice Provost for Research at least once every six months. The report will be maintained by the institution and will be made available to the Office for Protection from Research Risks (OPRR) upon request.

4. The IACUC will accept and review any and all concerns brought forth concerning the care and use of animals at the institution. Concerns may be brought forward to the IACUC or any of its members by any individual and may be directed to the IACUC in an open or anonymous fashion. Results of the review will be made known to the individual(s) upon their request.

5. Recommendations to Robert V. Smith, Ph.D., Vice Provost for Research, regarding the institution's animal care program, to include management practices concerning the humane care and use of animals, physical condition of animal facilities, and personnel training, will normally be accomplished in writing as part of the semi-annual program review. Meetings with the Vice Provost for Research or memoranda regarding specific topics will also be utilized in providing the Vice Provost for Research specific information on the program.

6. The IACUC will normally meet on a monthly basis to review and approve, require modifications in (to secure approval) or withhold approval of those activities related to the care and use of animals. Each investigator or individual who proposes to utilize animals must submit an Animal Subject Approval Form for review by the IACUC. No project may be initiated until such review has been conducted and use approved. Animal Subject Approval Forms will be submitted to the Laboratory Animal Resources Center where the form will be processed and placed on the agenda for the next meeting of the IACUC. Processing of the submitted form includes: preparation of a memorandum to the individual informing him/her that the form has been received and will be reviewed at the next meting of the IACUC and reminding the individual that activities should not begin
prior to approval. The form is screened and reviewed by the campus veterinarian for completeness, appropriate use of anesthetics, analgesics, and tranquilizing drugs, method of euthanasia, and the location of facilities to be used to house the animals. Each member of the IACUC will be provided a list and description of proposed activities to be reviewed and any member of the IACUC may request a full review of any activity. Each activity will be reviewed to assure that the project conforms to the requirements as set forth in the PHS Policy at IV.C.1.a-g and the U.S. Government Principles For the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training. For review purposes, each activity that involves any vertebrate species is classified on the review form using the USDA classification scheme for research (i.e., Type C, research that involves no pain; Type D, research where pain will be alleviated via the administration of drugs; or Type E, research where pain or distress is not alleviated). Each new form or activity involving a USDA Type D procedure that has not been previously reviewed by the committee will be evaluated in full by two members of the IACUC and the campus veterinarian and presented at a convened meeting of the committee. Each activity involving a USDA Type E procedure will be reviewed in full by all members of the IACUC. Activities classified as USDA Type C procedures are reviewed by the campus veterinarian and presented to the IACUC in the form of a consent agenda. Activities placed on the consent agenda will not be approved without members of the IACUC being aware of the title of the activity and proposed animal use and having the opportunity to request a review as described for USDA Type D and E activities as previously noted. Approval will be granted with an approval vote of the majority of the quorum present. On occasion, approval of an activity may occur other than at a convened meeting of the IACUC subsequent to contacting the committee members, providing a description of the activity, and receiving an approval of the majority of the members. Any member may however request that approval for such an activity be held pending a convened meeting of the IACUC.

7. Ongoing activities will be reviewed by the IACUC at yearly intervals. If no significant changes are noted by the individual submitting the renewal, the form will be reviewed by the campus veterinarian to assure there are no modifications or concerns and will then be presented to the IACUC as a consent agenda item at a convened meeting. Activities with modifications will be noted for the IACUC. Ongoing USDA Type E activities will be reviewed on a yearly basis by the full committee at a convened meeting of the IACUC.

8. Subsequent to a meeting of the IACUC, the individual submitting the project for review will be informed in writing of the decision of the IACUC and provided the opportunity to respond should modifications be requested or approval withheld. The written statement provided to the individual will list the reasons for the committee's decision and will provide details as to how the individual can respond to the concerns of the IACUC.
9. The IACUC will suspend an activity that it previously approved if it determines that the activity is not being conducted in accordance with applicable provisions of the Animal Welfare Act, the Guide, this institution's assurance or section IV.C.1.a.-g. of the Policy. The suspension will take place only after review of the matter by a convened quorum of the IACUC and only with the suspension vote of a majority of the quorum present. If the IACUC suspends an activity involving animals the Institutional Official in consultation with the IACUC will review the reasons for the suspension, will take appropriate corrective action, and will report such action with a full explanation to OPRR.

F. The individuals authorized by this institution to verify IACUC approval of those sections of application and proposals related to the care and use of animals include:

Robert V. Smith Ph.D. 
William R. Rayburn Ph.D. 
James J. Wills B.A. 
Raymond W. Wright Ph.D. 
William T. Ferner D.V.M. 
Vice Provost for Research 
Associate Vice Provost for Research 
Director, Grant & Research Development 
Chairman, IACUC 
Campus Veterinarian

G. The occupational health program for personnel who work in laboratory animal facilities or have frequent contact with animals is designed to monitor the health of those who work with animals housed at the institution and provide periodic information on animal zoonotic diseases and occupational hazards. The content of the program is based upon recommendations contained in the NIH Guide for the Care and Use of Laboratory Animals and various reports from the laboratory animal literature. The program serves as a supplement to safety and other occupational programs (e.g., Hazard Communication/"Right to Know", OSHA standards and regulations, and the Institutional Biosafety Policy to include health surveillance and information provided to individuals working with projects reviewed by the Institutional Biosafety Committee) that already exist in the work environment. The campus veterinarian monitors the operation of the program.

For purposes of the occupational health program, "substantial animal contact" is defined as being involved in the direct care of animals or their quarters or being in direct contact with animals more than 20 hours per week. Those with such substantial animal contact are encouraged to participate in the program in order to establish a baseline of health and to assure they are not placed in a position of excessive risk in working with animals.
The occupational health program for those with animal contact includes:

1) Initial medical exam and history performed by a local group of physicians with whom a contract has been established

2) Tetanus vaccination as needed (usually every 10 years)

3) Serum sample (initial/baseline) obtained and stored for reference should it be needed by a physician for evaluation of an individual suspected to have an occupational exposure to disease

4) Toxoplasmosis titer for females of child bearing age who have the potential for exposure to cats at work

5) Baseline Q Fever (Coxiella) titer if working with cattle, sheep, or goats and follow up titers bases upon the recommendation of the physician in light of the individual's medical history

6) Hearing evaluation for those working in high noise areas (cage wash, barking dogs, etc.)

7) Semi-annual T. B. screening for those working with non-human primates

8) Annual work history questionnaire to evaluate animal species exposure

9) Provision of information on a periodic basis concerning animal exposure and risks associated with such exposure (e.g., zoonotic diseases)

10) Other evaluations as deemed necessary by the physician (periodic physical exam or reference serum sample based upon individual medical history and work assignment, rabies immunization)

H. The total gross number of square feet in each animal facility (including each satellite facility), the species of animal housed therein and the average daily inventory, by species, of animals in each facility is provided in Appendix B.

I. The training or instruction available to scientists, animal technicians, and other personnel involved in animal care, treatment, or use consists of a formal course that is listed in the Washington State University Course Bulletin as a variable credit course. The course is currently offered January through April and meets for one hour twice weekly. The course is open to researchers, instructors, research and animal technicians, and graduate students. All groups are encouraged to attend. It is expected that
the course will continue to be offered on a yearly basis. The current course schedule is provided as Appendix C.

Departmental training seminars on the concept of humane practice of animal care and use, to include information on research methods that minimize the number of animals required to obtain valid results and minimize animal distress are presented by the campus veterinarian in an ongoing fashion. The seminar also describes the basic responsibilities of the institution and investigator as per the PHS Policy on the Humane Care and Use of Laboratory Animals and the Animal Welfare Act. Written material is provided and is meant to supplement the seminar and to familiarize those using animals with the concept of alternatives, minimizing animal distress, and resources for information on the use of animals and searching the animal welfare literature.

It is expected that all individuals involved in animal care or use on the Washington State University campus will have attended either the formal course or expanded departmental seminar by the summer of 1993.

Training is also provided in an informal, one-on-one basis to individuals by the Laboratory Animal Resources Center and through the availability of videotapes, autotutorial slide sets, and reference materials on animal care and use that are available at the Center and the College of Veterinary Medicine Library.

IV. INSTITUTIONAL STATUS

All of this institution's programs and facilities for activities involving animals have not been evaluated and accredited by the American Association for the Accreditation of Laboratory Animal Care (AAALAC). The Colleges of Sciences and Arts, including the Laboratory Animal Resources Center, the College of Pharmacy, and the College of Veterinary Medicine are AAALAC accredited. The College of Sciences and Arts and the College of Pharmacy were last evaluated in April 1991. The College of Veterinary Medicine was last evaluated in February 1992. The College of Agriculture and Home Economics and the Research and Extension Centers (satellite facilities) are not AAALAC accredited.

As specified in the PHS Policy at IV.A.2., as category 2, all of this institution's programs and facilities (including satellite facilities) for activities involving animals have been evaluated by the IACUC and will be reevaluated by the IACUC at least once every six months. The report of the IACUC evaluation has been submitted to Robert V. Smith Ph.D., Vice Provost for Research, and a copy of the report is attached. The report contains a description of the nature and extent of this institutions adherence to the Guide. Any departures from the Guide are identified specifically and reasons for each departure are stated. Where program or facility deficiencies are noted, the report contains a reasonable and specific plan and schedule for correcting each deficiency. The report distinguishes significant deficiencies from minor deficiencies. Semiannual reports of the IACUC evaluation
submitted to the Institutional Official, Robert V. Smith, Ph.D., will also contain a reasonable and specific plan and schedule for correcting each deficiency and distinguish significant deficiencies from minor deficiencies. Semiannual reports of IACUC evaluations will be maintained by this institution and made available to OPRR upon request.

RECORDKEEPING REQUIREMENTS

A. This institution will maintain for at least three years:

1. A copy of this Assurance and any modifications thereto, as approved by PHS.

2. Minutes of IACUC meetings, including records of attendance, activities of the committee, and committee deliberations.

3. Records of applications, proposals, and proposed significant changes in the care and use of animals and whether IACUC approval was given or withheld.

4. Records of semiannual IACUC reports and recommendations as forwarded to Robert V. Smith, Ph.D., Vice Provost for research.

5. Records of accreditting body determinations.

B. This institution will maintain records that relate directly to applications, proposals, and proposed changes in ongoing activities reviewed and approved by the IACUC for the duration of the activity and for an additional three years after completion of the activity.

C. All records shall be accessible for inspection and copying by authorized OPRR or other PHS representatives at reasonable times and in a reasonable manner.

REPORTING REQUIREMENTS

A. At least once every 12 months, the IACUC, through the Institutional Official, will report in writing to the Office for Protection from Research Risks (OPRR):

1. Any change in the status of the institution, (e.g., if the institution becomes accredited by AAALAC or AAALAC accreditation is revoked), any change in the description of the institution's program for animal care and use as described in this Assurance, or any changes in IACUC membership. If there are no changes to report, this institution will submit a letter to OPRR stating that there are no changes.
2. Notification of the date that the IACUC conducted its semiannual evaluations of the institution's program and facilities (including satellite facilities) and submitted the evaluations to Robert V. Smith, Ph.D., Vice Provost for Research.

B. The IACUC, through the Institutional Official, will provide the OPRR promptly with a full explanation of the circumstances and actions taken with respect to:

1. Any serious or continuing noncompliance with the PHS Policy.

2. Any serious deviations from the provisions of the Guide.

3. Any suspension of an activity by the IACUC.

C. Reports filed under VI.A.2. and VI.B. above shall include any minority views filed by members of the IACUC.

VII. INSTITUTIONAL ENDORSEMENT AND PHS APPROVAL

A. Authorized Institutional Official

Name: Robert V. Smith Ph.D.

Title: Vice Provost for Research and Dean of the Graduate School

Address: Washington State University
Pullman, Washington 99164-1030

Phone: (509) 335-3535

Signature: [Signature] Date: 1/19/93

B. PHS Approving Official

Name: Mr. Denis J. Doyle
Chief, Assurance Branch
Division of Animal Welfare, OPRR
NIH, Building 31, Room 5859
9000 Rockville Pike
Baltimore, Maryland 20892

Phone: (301)496-7163

Signature: [Signature] Date: 3/1/93

C. Effective Date of Assurance: 2/1/93

D. Expiration Date of Assurance: 1/31/98