Worcester Polytechnic Institute  
A3277-01  

ANIMAL WELFARE ASSURANCE  
in accordance with the PHS Policy for  
Humane Care and Use of Laboratory Animals

I, Jon E. Bartelson, as named Institutional Official for animal care and use at Worcester Polytechnic Institution, hereinafter referred to as Institution, by means of this document, provide assurance that this Institution will comply with the Public Health Service Policy on Humane Care and Use of Laboratory Animals, hereinafter referred to as PHS Policy.

I. APPLICABILITY OF ASSURANCE

This Assurance applies whenever this Institution conducts the following activities: all research, research training, experimentation, biological testing, and related activities involving live vertebrate animals supported by the PHS. This Assurance covers only those facilities and components listed below.

A. The following are branches and components over which this Institution has legal authority, included are those that operate under a different name:

   [List every branch and major component covered by the Assurance.]

   Worcester Polytechnic Institute  
   Life Science & Bioengineering Center at Gateway Park  
   60 Prescott Street  
   Worcester, MA 01605  

   Goddard Hall Satellite facility and teaching labs  
   Worcester Polytechnic Institute  
   100 Institute Road  
   Worcester, MA 01609  

B. The following are other institution(s), or branches and components of another institution:

   None.

II. INSTITUTIONAL COMMITMENT

A. This Institution will comply with all applicable provisions of the Animal Welfare Act and other Federal statutes and regulations relating to animals.

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 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”).

E. This Institution agrees to ensure that all performance sites engaged in activities involving live vertebrate animals under consortium (subaward) or subcontract agreements have an Animal Welfare Assurance and that the activities have Institutional Animal Care and Use Committee (IACUC) approval.

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 as follows:

Jon Bartelson, University Compliance Officer and Institutional Official has the authority to sign the institution’s Assurance, making a commitment on behalf of the Institution that the requirements of the PHS Policy will be met. The IO has the administrative and operational authority to commit institutional resources to ensure compliance with the PHS Policy and other requirements.

B. The qualifications, authority, and percent of time contributed by the veterinarian(s) who will participate in the program are as follows:
Name: Virender Chandna

Qualifications
- MA Veterinary Medicine as a Registered Veterinarian License #4090 (expiration date 2/28/16)
- Educational Commission for Foreign Veterinary Graduates certificate from the American Veterinary Medical Association at Schaumburg, IL on March 2, 1993
- 1990-1993 Tufts University School of Veterinary Medicine, Grafton/Boston, MA
  Residency training in Large Animal Medicine
- 1987-1988 Indian Veterinary Research Institute, Izatnagar, India
  Diploma in Equine Husbandry, Medicine and Surgery (NDEHMS)
- 1967-1971 College of Veterinary Medicine, Hissar, India
  Bachelor of Veterinary Medicine & Animal Husbandry = DVM

Dr. Chandna is the consulting veterinarian, and implements PHS policy through site visits, telephone and email communications, the IACUC, and the Institutional Official. He advises faculty investigators, IACUC members, and other personnel on issues related to animal care and use.

Authority: Dr. Chandna has delegated program authority and responsibility for the Institution’s animal care and use program including access to all animals.

Time contributed to program: 1-2 hours per week is spent at WPI, two IACUC meeting per year, email and telephone conversations as needed with a 100% effort devoted to the institution’s animal care and use program.

In order to provide for adequate veterinary care of research animals in the event that Dr. Chandna is unavailable, provisions have been made for back-up coverage by Dr. Richard Rodger, DVM.

Qualifications
– DVM, 1978, National University of Mexico, Mexico
– ECFVG Exam, 1978
– Training, South Shore Animal Center & Harvard Medical School, 1978-1979
– Licensed in NJ 1978
– Licensed in MA, 1979
– Licensed in NY and CT, 1980
C. The Institutional Animal Care and Use Committee (IACUC) at this Institution is properly appointed in accordance with the PHS Policy IV.A.3.a and is qualified through the experience and expertise of its members to oversee the Institution's animal care and use program and facilities. The IACUC members are appointed by the Institutional Officer. The IACUC consists of at least five members, and its membership meets the composition requirements set forth in the PHS Policy, Section IV.A.3.b. Attached is a list of the chairperson and members of the IACUC and their names, degrees, profession, titles or specialties, and institutional affiliations.

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. The IACUC procedures for conducting semiannual program reviews, in which all members are invited to participate in, are as follows:
   a. Review semiannually the University’s program for Laboratory Animal Care and Use at a convened meeting.
   b. Categorize any program deficiencies as minor or significant and develop a plan and schedule for correction for any deficiencies.
   c. Utilize the “OLAW Sample Semiannual Program and Facility Review Checklist”, the Guide, the Policy, and as applicable, 9 CFR Chapter I, subchapter A, as a basis for evaluation during a convened meeting.

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. All IACUC members are invited to participate. The IACUC procedures for conducting semiannual facility inspections are as follows:
   a. Inspect every six months all of the University’s animal facilities, including satellite facilities, using the Guide, the Policy, and as applicable, 9 CFR Chapter I, subchapter A, as a basis for evaluation, with at least two IACUC members inspecting all facilities. All IACUC members are invited to participate.
   b. Utilize the “OLAW Sample Semiannual Program and Facility Review Checklist”, the Guide, the Policy, and as applicable, 9 CFR Chapter I, subchapter A.
   c. Document inspection findings in a report to each facility director or protocol director with a schedule for correction if any deficiencies are found.
   d. Require a response from the facility director or protocol director to the inspection report with a description of how the deficiency has been corrected.
   e. Review and discuss a compilation of the facility inspection reports at a convened meeting of the IACUC.

3. Prepare reports of the IACUC evaluations as set forth in the PHS Policy IV.B.3 and submit the reports to the Institutional Official. The IACUC procedures for developing reports and submitting them to the Institutional Official are as follows:

Prepare reports of the IACUC evaluations, addressing the requirements outlined in the “OLAW Sample Format for the Semiannual Report to the Institutional Official,” and as applicable, 9 CFR Chapter I, subchapter A.
- Describe the nature and extent of the institution’s adherence to the Guide, PHS Policy, as applicable, 9 CFR Chapter I, subchapter A, and describe any newly approved exceptions or departures to existing standards and state the reason for each departure.

- Distinguish significant deficiencies from minor deficiencies and assign reasonable and specific plans and schedule for correcting each deficiency.

- List the dates when program evaluation and facilities inspections were conducted and provide any minority views or a statement that there were no minority views.

- Have the Semiannual Reports signed by a majority of IACUC members, and submit reports to the Institutional Official.

4. Review concerns involving the care and use of animals at the Institution. The IACUC procedures for reviewing concerns are as follows:
   a. Post the names, telephone numbers, and email addresses of IACUC chair and IO for reporting concerns anonymously in multiple locations, including the main animal use facilities and on the Institution’s IACUC website. Methods to report concerns will also be posted with this information.
   b. Review with each student operating under a teaching protocol the responsibilities and rights of the course or project instructor, the IACUC, and the student.
   c. Post a method for reporting concerns anonymously within the protocol application.
   d. Review all concerns with safeguards to protect the individual’s identity, and if warranted, the IACUC chair will appoint a subcommittee to perform an IACUC investigation. The IACUC will then review and address all concerns reported by the subcommittee.
   e. Review any subcommittee findings at a convened meeting and take appropriate action, if warranted, up to and including suspension of a protocol and notification of the Institutional Official, OLAW and the USDA.

5. Make written recommendations to the Institutional Official regarding any aspect of the Institution’s animal program, facilities, or personnel training. The procedures for making recommendations to the Institutional Official are as follows:
   a. The IACUC Chair and or the Veterinarian, Dr. Virender Chandna, and or the Vivarium Operations Manager will monitor the animal program and facilities on a day- to-day basis. Any minor issues regarding the facilities, training, or the animal care program will be addressed directly by the Chair and /or Veterinarian. A summary of such actions will be provided to the remaining members of the IACUC.
   b. The Chair will communicate any major issue identified by a member of the Committee or animal user to the full IACUC for review. If warranted, a Committee meeting will then be scheduled to discuss the issue. Any recommendations developed by the IACUC will be forwarded to the Institutional Official in writing.
6. In accord with the PHS Policy IV.C.1-3, the IACUC shall review and approve, require modifications in (to secure approval), or withhold approval of PHS-supported activities related to the care and use of animals. No member may participate in the IACUC review or approval of a research project in which the member has a conflicting interest. The IACUC procedures for protocol review are as follows:

a. Review and Approval

   (1) Receive both a signed hardcopy and electronic version of the protocol in the IACUC Office. Have staff review the protocol for completeness and provide applicable. Information on animal care to comply with federal regulations and University policies/Practices to protocol directors.

   (2) All IACUC members then receive an electronic copy of the protocol. They are told that the Designated Member Review (DMR) Process is proposed to be used to review the protocol. Any member of the IACUC can request full committee review (FCR) at any time during the time period designated for providing this opportunity (1 week). If no request for FCR is made, then the DMR process is used.

   (3) At least two IACUC members qualified to conduct the review are appointed by the IACUC Chair to serve as the designated reviewers.

   (4) Each designated reviewer reviews the protocol and indicates approval, requests modifications, or requests full committee review. Electronic communication is permissible.

   (5) Each designated reviewer receives the comments of every other designated reviewer throughout the review process and examines each modification and subsequent protocol revision. Electronic communication is used to facilitate this process.

   (6) For the protocol to be ultimately approved, each designated reviewer must approve the final identical protocol that has all of the reviewers comments incorporated, as this procedure does not operate on a majority-rule basis. Abstention is not permissible. The possible outcomes from DMR are: approve, require modifications to secure approval, or request full committee review.

   (7) In cases where unanimous approval cannot be obtained or a full committee review (FCR) is requested, the protocols must undergo a full committee review at a convened meeting of a quorum of the IACUC. Protocol approval then requires a majority vote of the quorum present. Possible outcomes of full committee review are approval, modifications to secure approval, and withholding of approval.
(8) When a PI is asked to resubmit the application, it is reviewed as a new submission and therefore reverts back to step 1 of this section. The outcomes listed in step 6 (for DMR & FCR) are the only possible outcomes.

b) Modifications and Withholding of Approval

(1) All IACUC members (at least once every three years or when they are first appointed to the IACUC) must agree in writing that the quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modification is needed to secure approval. However, any member of the IACUC may, at any time, request to see the revised protocol and/or request FCR of the protocol.

(2) When all members are not present at a convened meeting, the committee has the option to vote to return the protocol for FCR at a convened meeting or to employ DMR. If electing to use DMR, all members, including the members not present at the meeting, must have the revised research protocol available to them and must have the opportunity to call for FCR. Members not present at the meeting will be forwarded a copy of the protocol through electronic media (hard copy will be provided on request). If an IACUC uses DMR, the approval date is the date that the designated member(s) approved the study.

(3) The principal investigator (e.g. protocol director) is informed via e-mail (or in writing if necessary) of any reviewer required modifications, comments, questions, or concerns about the protocol.

7. Review and approve, require modifications to secure approval, or withhold approval of proposed significant changes regarding the use of animals in ongoing activities as set forth in the PHS Policy IV.C. The IACUC procedures for reviewing proposed significant changes in ongoing research projects are as follows: Significant changes to an ongoing animal activity are reviewed using the procedures described in Part III. D. 6. above.

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 IV.C.4. The IACUC procedures to notify investigators and the Institution of its decisions regarding protocol review are as follows:

a) Notify protocol directors, in writing, of the IACUC’s decision regarding their protocols. If the decision is to withhold approval, the protocol director is informed as to the reasons for the denial in writing and allowed the opportunity to respond in person or in writing. Any future submissions will be considered as a new application.
b) The IO is copied on all written notifications to protocol directors.
c) Provide verification of laboratory animal approval to sponsoring agencies, as required.
9. Conduct continuing review of each previously approved, ongoing activity covered by PHS Policy at appropriate intervals as determined by the IACUC, including a complete review in accordance with the PHS Policy IV.C.1-4 at least once every three years. The IACUC procedures for conducting continuing reviews are as follows:

   a) Require the protocol director to complete a renewal application for the protocol on an annual basis. Review the renewal application with the initial protocol submission to ensure that it conforms to the Guide, PHS Policy, and as applicable 9CFR Chapter I, subchapter A. Perform the IACUC review as outlined above in Section D.6.

   b) Require the protocol director to submit a completely new protocol every three years. This triennial submission is considered as a new application. The IACUC review as outlined above in Section D.6.a is performed on this de novo application.

10. Be authorized to suspend an activity involving animals as set forth in the PHS Policy IV.C.6. The IACUC procedures for suspending an ongoing activity are as follows:

   a) Suspend any protocol or activity involving animals after review of the matter at a convened meeting of a quorum of the IACUC and with the suspension vote of a majority of the quorum present.

   b) Review the reasons for suspension with the Institutional Official and take appropriate corrective action.

   c) Submit a full report to the Institutional Official, and for PHS supported research to OLAW, USDA and relevant Federal entities, as required.

E. The occupational health and safety program for personnel working in laboratory animal facilities or have frequent contact with animals is as follows:

   1. The Laboratory Animal Occupational Health Program (LAOHP) is administered through Environmental & Occupational Safety (E&OS) in close cooperation with the IACUC. The LAOHP provides information and safeguards for personnel working with laboratory animals and hazardous agents.

   2. Institutional policies and procedures relating to personal hygiene, handling of medical and hazardous waste materials, hazard identification and risk assessment, personnel training regarding zoonoses, chemical safety, physical hazards, animal experimentation involving hazards, and occupational health and safety are coordinated through the Environmental and Occupational Safety Office in collaboration with the IACUC. All personnel on approved IACUC applications must attend yearly training in regards to personal hygiene, handling of medical and hazardous waste materials (including sharps), hazard identification and risk assessment, allergies, zoonoses, chemical safety, physical hazards, personal hygiene and animal experimentation involving hazards. This training is provided in two formats (both are required): a training lecture presented jointly by IACUC and E&OS and an online training module.
3. Reliant Medical Group (Atrius Health) (630 Plantation St., Worcester, MA) provides consultative services to WPI. The first step is for each employee/student to fill out the Animal Handler and Users Medical Questionnaire (including immunization and vaccination history). This confidential medical history form must be completed on initial assignment and annually thereafter as part of WPI’s Occupational Health Program. After reviewing each questionnaire, a report will be sent to WPI that indicates that the employee/student has no identified injury or illness related to animal handling at work, OR asks that the employee/student be sent to Reliant Medical Group (Atrius Health) (or elsewhere) for further evaluation of a potential work-related injury or illness. Each employee/student will be notified directly by Reliant Occupational Medicine of any non-work-related abnormalities that require follow up. No personnel is allowed to work on an IACUC without prior occupational medicine clearance. This plan covers all employees and animal users at WPI. Tetanus vaccinations are offered through Reliant Medical Group (Atrius Health) (630 Plantation St., Worcester, MA).

4. Employees are asked to contact the E&OS office directly for precautions to be taken during personnel pregnancy, illness or decreased immunocompetence.

5. Employees are asked to notify the supervisor (who then report this information to E&OS office) when bites, scratches, illness or injury results from animal contact or working with animals. Minor injuries are treated at the campus health services office during normal work hours. After hours and for serious injuries, employees are transported to UMass Memorial Hospital located less than 1 mile from campus.

6. Institutional policies and procedures relating to personal hygiene, handling of medical and hazardous waste materials, hazard communication, and pathogen exposure are contained in the following documents which are reviewed by the IACUC during their semiannual program reviews:
   a. WPI Chemical Hygiene Plan, includes personal hygiene and personnel protection policies
   c. Protecting Yourself From Bloodborne Pathogens.
   d. Written Hazardous Communication Program.
   e. WPI Medical Waste Disposal Guidelines.

F. The total gross number of square feet in each animal facility (including each satellite facility), the species of animals housed therein and the average daily inventory of animals, by species, in each facility is provided in the attached Facility and Species Inventory table.

G. The Training for scientists, animal technicians, and other personnel involved in animal care, treatment, or use is required on an annual basis. Training can be accomplished by: (1) attending a general training session or (2) by completing the Collaborative Institute Training Initiative (CITI) online training:
1. General (lecture format) - applies to all individuals who care or use animals. The lecture includes:

Training and instruction in:

(1) Humane methods of animal maintenance and experimentation, including:

   (i) The basic needs of each species of animal;
   (ii) Proper handling and care for the various species of animals used by the facility;
   (iii) Proper pre-procedural and post-procedural care of animals; and
   (iv) Aseptic surgical methods and procedures;

(2) The concept, availability, and use of research or testing methods that limit the use of animals or minimize animal distress including research or testing methods that minimize the number of animals required to obtain valid results;

(3) Proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility;

(4) Methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility. No facility employee, Committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act;

(5) Utilization of services (e.g., National Agricultural Library, National Library of Medicine) available to provide information on:

   (i) On appropriate methods of animal care and use;
   (ii) On alternatives to the use of live animals in research;
   (iii) That could prevent unintended and unnecessary duplication of research involving animals; and
   (iv) Regarding the intent and requirements of the Act.

2. CITI Collaborative Institutional Training Initiative (CITI) – online training

  a) The CITI Animal Care and Use Course, originally developed by the VA for the research community, has been updated and reformatted to the CITI presentation style. The course is fully customizable and meets the federal (USDA, OLAW) requirements for basic training in the humane care and use of animals in research and teaching.

  a) Working With the IACUC. Required for all personnel.
  b) Essentials for IACUC Members. Required for all IACUC Members.
  c) Reducing Pain and Distress in Laboratory Mice and Rats. Required for all personnel.
  d) Aseptic Surgery. Optional for all personnel.
  e) Antibody Production. Optional for all personnel.
f) Working with Amphibians in a Research Setting. Required for all personnel working with amphibians.

g) Working with Mice in Research Settings. Required for all personnel working with mice.

h) Working with Rats in Research Settings. Required for all personnel working with rats.

i) Working With Animals In Biomedical Research - Refresher Course. Optional for all personnel.

3. Other Training Methods

a) Video training tutorials (the ACLAM Lab Animal Medicine and Science Series II programs developed in conjunction with the University of Washington’s Health Sciences Center for Educational Resources) are provided to individuals (protocol directors, research directors, research staff, animal care staff, students, etc.) who are directly involved with hands-on animal care and use at this institution. The following video training is available for all personnel:

   a) Laboratory Animals: Alternatives to Traditional use.
   b) Laboratory Animal Laws, Regulations, and Guidelines.
   c) Laboratory Animals: Rodent Surgery.
   d) Laboratory Animals – Rodent Anesthesia and Analgesia.
   e) Rats and Mice: Introduction and Use in Research, Part I.
   f) Rats and Mice: Introduction and Use in Research, Part II.
   g) Rats and Mice: Biology.
   h) Rats and Mice: Care and Management.
   i) Rats and Mice: Bacterial and Mycotic Diseases.
   j) Rats and Mice: Viral Diseases.
   k) Rats and Mice: Parasitic Diseases.

b) Individual Training. All personnel involved in the care of animals and the maintenance of the animal core facility will be instructed by the IACUC Chair, the IACUC Veterinarian, or the Animal Facility Manager as to the proper procedures.

c) The electronic version of the animal use protocol form (the form used for review by IACUC) contains numerous suggestions and resource links needed to comply with all aspects of the Guide.

d) All personnel who will become involved in handling the animals and maintaining the animal care facility will also be trained by the Environmental and Occupational Safety Officer.

4. Evaluation of Protocol Personnel Training. All protocols submitted to the IACUC for review must describe experience/training personnel have had or will have with this specific animal model(s). The IACUC then performs an assessment of the personnel’s ability to work humanely with animals. The IACUC may assign specific training to personnel as a condition of their approval.
5. Additional Training Resources

a) The IACUC maintains a web site with resource information on protocol preparation and training.

b) The Environmental & Occupational Safety Office maintains a web site with resource information on the Laboratory Animal Occupational Health Program.

c) IACUC members are provided with a copy of the “Guide”. They are also informed that training is available through local conferences and meetings and that funds are available for this use. WPI maintains a website with electronic references regarding IACUC related issues and resources.

IV. INSTITUTIONAL PROGRAM EVALUATION AND ACCREDITATION

All of this Institution’s programs and facilities (including satellite facilities) for activities involving animals have been evaluated by the IACUC within the past six months and will be re-evaluated by the IACUC at least once every six months thereafter, in accord with the PHS Policy IV.B.1-2. Reports have been and will continue to be prepared in accord with the PHS Policy IV.B.3. All IACUC semiannual reports will include a description of the nature and extent of this Institution’s adherence to the “Guide.” Any departures from the “Guide” will be identified specifically and reasons for each departure will be stated. Reports will distinguish significant deficiencies from minor deficiencies. Where program or facility deficiencies are noted, reports will contain a reasonable and specific plan and schedule for correcting each deficiency. Semiannual reports of the IACUC’s evaluations will be submitted to the Institutional Official. Semiannual reports of IACUC evaluations will be maintained by this Institution and made available to the OLAW upon request.

This Institution is Category One (1) — accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC). As noted above, reports of the IACUC’s semiannual evaluations (program reviews and facility inspections) will be made available upon request.

V. 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 the 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 (including minority views) as forwarded to the Institutional Official, Jon E. Bartelson.
   5. Records of accrediting 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 OLAW or other PHS representatives at reasonable times and in a reasonable manner.

VI. REPORTING REQUIREMENTS

A. This Institution’s reporting period is January 1 – December 31. The IACUC, through the Institutional Official, will submit an annual report to OLAW on January 31 of each year. The report will include:
   1. Any change in the accreditation status of the Institution (e.g. if the Institution obtains accreditation 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 change in the IACUC membership. If there are no changes to report, this Institution will provide written notification that there are no changes.
   2. Notification of the dates that the IACUC conducted its semiannual evaluations of the Institution’s program and facilities (including satellite facilities) and submitted the evaluations to the Institutional Official, Jon E. Bartelson.

B. The IACUC, through the Institutional Official, will promptly provide OLAW 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 sections VI.A. and VI.B. of this document shall include any minority views filed by members of the IACUC.
VII. INSTITUTIONAL ENDORSEMENT AND PHS APPROVAL

A. Authorized Institutional Official

Name: Jon E. Bartelson
Title: Assistant Vice President & Chief Compliance Officer
Name of Institution: Worcester Polytechnic Institute
Address: 100 Institute Road, Worcester, MA, 01609
Phone: 508-831-5725
Fax: 508-831-5064
E-mail: jonb@wpi.edu
Signature: [Signature]
Date: January 8, 2016

B. PHS Approving Official

Name:
Title:
Address:
Phone:
Fax:
E-mail:
Signature:
Date:

C. Effective Date of Assurance:

D. Expiration Date of Assurance:
# MEMBERSHIP OF THE INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

**DATE:** 2/26/2009  
**NAME OF INSTITUTION:** Worcester Polytechnic Institution  
**ASSURANCE NUMBER:** A3277-01

<table>
<thead>
<tr>
<th>Chairperson Name, Title, and Degree/Credentials</th>
<th>Business Address, Phone, Fax, and Email of Chairperson</th>
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<tbody>
<tr>
<td>Name*: Sakthikumar Ambady</td>
<td>Address*: Department of Biomedical Engineering</td>
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<tr>
<td>Title*: Director, MQP Labs</td>
<td>Worcester Polytechnic Institute</td>
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<td>100 Institute Road</td>
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<td>Worcester, MA 01609</td>
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<tr>
<td>Degree/credentials*: PhD</td>
<td>Phone*: 508-831-5714</td>
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<td>Fax*: 508-831-5933</td>
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<td></td>
<td>Email*: <a href="mailto:sambady@wpi.edu">sambady@wpi.edu</a></td>
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<tr>
<th>Name of Member/Code**</th>
<th>Degree/Credentials</th>
<th>Position Title</th>
<th>PHS Policy Requirements***</th>
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<tbody>
<tr>
<td>Rebecca Hill</td>
<td>BS-Biomedical Engineering</td>
<td>Philips Medical Systems-Biomedical Engineer</td>
<td>Non-affiliated Member</td>
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<tr>
<td>Dr. Virender K. Chandna</td>
<td>BVSc &amp; AH, N.D.E.H.M.S.</td>
<td>Veterinarian</td>
<td>Veterinarian</td>
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<tr>
<td>Sam Politz</td>
<td>PhD-Biology &amp; Biotechnology</td>
<td>Associate Professor-WPI</td>
<td>Scientist</td>
</tr>
<tr>
<td>Michael Buckholt</td>
<td>PhD-Biology &amp; Biotechnology</td>
<td>Lab Instructor-WPI</td>
<td>Scientist</td>
</tr>
<tr>
<td>Michael Radzicki</td>
<td>PhD-Social Science &amp; Policy Studies</td>
<td>Associate Professor-WPI</td>
<td>Non-scientist</td>
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<tr>
<td>Glenn Gaudette</td>
<td>Department of Biomedical Engineering</td>
<td>Associate Professor-WPI</td>
<td>Scientist</td>
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<tr>
<td>David Adams</td>
<td>PhD-Biology &amp; Biotechnology. Environmental Health &amp; Safety</td>
<td>Professor Chair, Biosafety Committee Radiation Safety Officer</td>
<td>Scientist</td>
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<tr>
<td>Victoria Huntress</td>
<td>MS-Life Sciences &amp; Bioengineering Center</td>
<td>Senior Manager, LSBC Core Facilities</td>
<td>Non-scientist</td>
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<tr>
<td>Miguel Norden</td>
<td>RLATg-Life Sciences &amp; Bioengineering Center</td>
<td>Vivarium Operations Manager</td>
<td>Non-scientist</td>
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*This information is mandatory.
**Names of members, other than the chairperson and veterinarian, may be represented by a number or symbol in this submission to OLAW. Sufficient information to determine that all appointees are appropriately qualified must be provided and the identity of each member must be readily ascertainable by the Institution and available to authorized OLAW or other PHS representatives upon request.

***PHS Policy Requirements - identify which IACUC members meet the four criteria below:

- **Veterinarian (V)** - a veterinarian with direct or delegated program responsibility.
- **Scientist (S)** - a practicing scientist experienced in research involving animals.
- **Nonscientist (NS)** - a member whose primary concerns are in non-scientific areas (e.g. ethicist, lawyer, member of the clergy).
- **Nonaffiliated (NA)** - a member who is not affiliated with the Institution in any way other than as a member of the IACUC, and who is not a member of the immediate family of a person who is affiliated. This member is expected to represent the interests of the general community in the proper care and use of animals and should not be a laboratory animal user. A consulting attending veterinarian may not be considered nonaffiliated.

Notes:

1. All members must be appointed by the CEO (or individual with specific written delegation to appoint members) and must be voting members. Ad hoc or nonvoting members may be listed and identified as such, but are not considered members for the purpose of the PHS Policy, and do not contribute to a quorum.
2. If Alternate members are listed, identify for whom (by name or code number, not specialty) they will serve as Alternates.

**OTHER KEY CONTACTS (OPTIONAL)**

If there are other individuals within the Institution who may be contacted regarding this Assurance, please provide information below.

Name: Elizabeth Stepien
Title: Administrative Assistant
Phone & Fax: 508-831-6800; 508-831-4120
E-mail: estepien@wpi.edu
<table>
<thead>
<tr>
<th>Laboratory, Unit, or Building*</th>
<th>Gross Square Feet (including service areas)</th>
<th>Species Housed in Unit (use complete common names)</th>
<th>Approx. Average Daily Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Animal Facility-Vivarium</td>
<td>3200 Sq ft</td>
<td>Rats</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mice</td>
<td>302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Frogs</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crayfish</td>
<td>133</td>
</tr>
</tbody>
</table>

*Institutions may identify animal areas in any manner, e.g., initials, ID number, etc. However, the name and location must be provided to OLAW upon request.