CPI Meeting Agenda
May 14, 2014 (11:30 a.m. – 1:15 p.m.)
Rudder Tower, room 601

(11:30 – 11:45) Lunch

(11:45 – 11:55) Call to order/Opening remarks – Dr. Niall Slowey, CPI Chair

(11:55 – 12:25) Information Technology Update – Mr. Mark Stone, Chief Information Officer, The Texas A&M University System

(12:25 – 12:40) Open forum discussion – Moderated by CPI Chair

(12:40 – 12:45) Update on Research Compliance – Ms. Katherine Rojo del Busto, Associate Vice President for Research and Research Compliance Officer, Texas A&M University

(12:45 – 12:55) Open forum discussion – Moderated by CPI Chair

(12:55 – 1:15) Other business – Dr. Niall Slowey, CPI Chair

(1:15) Adjournment

*Attachments: May CPI newsletter (pp. 2 - 6); Mark Stone presentation slides (pp. 7 – 15); DRAFT Biohazard Regulation (pp. 16 – 18); DRAFT Use of Animals in Research Regulation (pp. 19 – 23); General Comments – DRAFT Biohazards-Animal Use Regulations (p. 24); 2014-15 CPI Membership Roster, effective September 1st (pp. 25 – 27)

*electronic copies of the attachments are available at cpi.tamu.edu/meetings/CPI_5.2014.pdf/
CPI Newsletter – May 2014

Included in this issue:

- Update from CPI Chair
- Summary of CPI EC meetings with administration
- Updates from Sponsored Research Services (SRS)
- Enhancing Academics at Texas A&M
- NIH Grant Submissions Policy Update
- Point of Contact for SSC/Compass contracts
- Pending reports from CPI members serving on external committees
- Limited Submission Proposal Opportunities
Principal Investigators are encouraged to contact their elected college/unit representatives to bring forward any issues for the Council to address during the monthly meetings. PIs can also contact me directly at slowey@ocean.tamu.edu or 845-8478.

**Update from CPI Chair**

The 2014-15 CPI elections for general membership and for the position of 2014 Vice Chair have been completed. Full election results can be found at goo.gl/xhDMdm.

As reported through a May 6th email memorandum to the 2014-15 elected CPI membership (see full roster here, effective September 1st), as current CPI Chair it is my pleasure to congratulate Dr. Helene Andrews-Polymenis (Department of Microbial Pathogenesis and Immunology, College of Medicine and jointly appointed to the Department of Veterinary Pathobiology, College of Veterinary Medicine and Biomedical Sciences) on her election as the 2014-15 CPI Vice Chair, with the term beginning on September 1st.

I want to also thank all of the CPI members who were willing to run as nominees for the Vice Chair election and to our membership for participating in the election.

**Summary of CPI EC meetings with administration**

The CPI Executive Committee (EC) met with the Interim President and Provost on April 16th and discussed potential next steps regarding changes to the distribution of F&A costs; updates on TAMU administrative changes; and an update from the CPI Chair and Vice Chair on meetings relating to SRS.

The CPI EC held its monthly coordination meeting with invited research administration representatives from AgriLife, HSC, Texas A&M, TEES and TTI on May 7th. Dr. Glen Laine, Vice President for Research, discussed the implementation of Research Development Fund expenditures. Mr. Mark Stone, Chief Information Officer for The Texas A&M University System, provided an overview and discussion of the Deloitte Consulting, LLP information technology (IT) report. Other agenda items included potential agenda items for future CPI meetings; a follow up discussion from the previous EC meeting with members of the Board of Regents; and preparations for the 2014-15 principal investigator survey.

**Updates from Sponsored Research Services (SRS)**

The new Project Module within Maestro brings significant upgrades and enhancements for post award processes. Read more about the immediate impact on our research community at https://srs.tamus.edu/?s=SRS+updates#improvements.

SRS has assembled a contract negotiation team specifically to work with industry-sponsored projects. Read more about this initiative at https://srs.tamus.edu/?s=SRS+updates#industry.

Adjustments have been made in the proposal submission process to reduce the administrative burden on PIs. Read more about the changes at https://srs.tamus.edu/?s=SRS+updates#proposal.

Contact:
Dr. Jim Joyce, Customer Service Liaison – jrjoyce@tamus.edu, 979-458-5852
Ms. Stacey Rugh, Communications Manager – srugh@tamus.edu, 979-458-8760

**Enhancing Academics at Texas A&M**

The Texas A&M University Institute for Advanced Study (TIAS) is unique. Its purpose is to bring world renowned scholars to Texas A&M for extended periods of up to twelve months in order to collaborate with our faculty and students. In this way, the Institute "cuts across" all ten colleges, with their 72 departments, and the Health Science Center and significantly elevates scholarship and the academic development of our faculty and students.
TIAS complements the Chancellor’s Research Initiative (CRI). TIAS attracts superstar scholars for interim appointments, while the CRI is designed to recruit and fund new superstars who will be permanent members of our faculty.

While not designed as a recruiting tool for permanent faculty, there is evidence that TIAS is also serving that purpose. The TAMU TIMES of May 9, 2014 has announced the appointments of four new permanent hires in engineering, all members of the prestigious national or international academies. Two of these scholars were initially brought to campus as a TIAS Faculty Fellow, and a third was recommend by a TIAS Faculty Fellow.

A TIAS Faculty Fellow from the first class, Dr. Alan Needleman, one of the most cited scholars in materials science and engineering, will join our permanent faculty in 2015. Dr. Christodoulos A. Floudas, a TIAS Faculty Fellow from the (current) second class, will be joining our permanent faculty in chemical engineering in February 2015, as well as taking over as Director of the Texas A&M Energy Institute. Another addition to the chemical engineering faculty, is Dr. E. N. Pistikopoulos, joining us from the Imperial College in London. His appointment was recommended by Dr. Floudas and made possible by the CRI; he will work with Dr. Floudas on multi-scale systems engineering for energy and the environment.

It is difficult to overestimate how quickly TIAS is helping to elevate academics at Texas A&M. Consider these quotes from the TAMU Times article:

“These are superstars in the academic community in engineering research, respected by their peers as members of the prestigious national academies, and the caliber of scholar that every university aggressively courts,” said Chancellor John Sharp. “The CRI seeks to find outstanding researchers who can not only produce amazing work, but also bring in some much needed funding to support that work.”

“The impact that these scholars will have on our program is far-reaching,” said Dr. M. Katherine Banks, vice chancellor and dean of Texas A&M Engineering. “Each brings expertise in key research areas, which will attract other influential scholars and high quality students to our program. TIAS and the CRI represent exciting investments in our future that will pay enormous dividends in ways we cannot even calculate at this point,” said Banks (emphasis added)

“Theyir presence in the department will elevate its stature in the academic community, making the Artie McFerrin Department of Chemical Engineering one of the best departments in the country, and perhaps in the world. Their presence will also attract the very best students to the campus and the intellectual conversation will be elevated to levels not seen before,” said Karim (emphasis added)

Despite these accolades, the TAMU Times article underestimates the role of Chancellor Sharp in making these appointments possible. Chancellor Sharp provided half the funds for TIAS to operate during its first five years while it seeks a permanent endowment. Half of these appointments were scholars who came to Texas A&M University initially as TIAS Faculty Fellows. Chancellor Sharp’s CRI fund help provide the resources to induce these Faculty Fellows to our permanent faculty. Our already great engineering college provides the people and environment that helped attract these new scholars, and that college took the initiative to nominate and help recruit these scholars to be TIAS Faculty Fellows. The Chancellor’s support and the TIAS initiative is helping elevate an already prestigious college of engineering to world class leadership status. It is anticipated that similar stellar hires will soon result in other colleges.

The periods of visits of TIAS Faculty Fellows vary from scholar to scholar. Some come for 3 month periods each year for four years, providing plenty of opportunity for our faculty and graduate students to benefit from their research ideas, and vice versa. Furthermore, these extended affiliations permit time for the scholars to collaborate on dissertations, grants, journal articles, books and similar desirable outcomes. Most of the TIAS Faculty Fellows spend their time on campus in one extended visit, but continue collaborative research initiated here.
TIAS, in coordination and collaboration with the A&M Foundation, is seeking an endowment to ensure that TIAS’s important role as a purely merit based program of the highest caliber will continue to elevate Texas A&M’s academic environment forever. The University will benefit from perpetual renewal of academic excellence that is a consequence of attracting stellar scholars every year. The goal is to bring to Texas A&M 20 scholars per year. In the first two years TIAS has brought in two Nobel Prize winners, a Wolf Prize winner, a recipient of the Hubbell Medal in Literature, and a recipient of the National Medal of Science. All others are members of multiple national or international academies or winners of prestigious research competitions.

The goal of TIAS is to help elevate the status of Texas A&M University to greater world academic leadership. In only its first two years TIAS has demonstrated that the underlying approach is valid, and is already working extremely well. Continued successful operation of TIAS distinguishes Texas A&M in a uniquely positive way from all other public universities and will have enormous positive impact on the academic excellence and reputation of Texas A&M. TIAS is a key element of the Academic Master Plan intended to set Texas A&M on a course to realize most of the goals set out in Vision 2020.

Contact:
Dr. John L. Junkins, Director, TIAS – junkins@tamu.edu, 979-845-3912
Dr. Clifford Fry, Associate Director, TIAS - cfry@tamu.edu or 979-458-5723

NIH Grant Submissions Policy Update
--------------------------------------------------
On April 17, 2014, NIH announced a change in policy on application submissions (see goo.gl/IxfCle):

"Effective immediately, for application due dates after April 16, 2014, following an unsuccessful resubmission (A1) application, applicants may submit the same idea as a new (A0) application for the next appropriate due date. The NIH will not assess the similarity of the science in the new (A0) application to any previously renewed submission when accepting an application for review. Although a new (A0) application does not allow an introduction or responses to the previous reviews, the NIH encourages applicants to refine and strengthen all application submissions."

Contact:
Research Development Services (RDS), Division of Research (rds-dor@tamu.edu or 845-1811)

Point of Contact for SSC/Compass Contracts
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The point of contact for any questions or concerns relating to services (landscape, custodial, dining and facilities) provided through the SSC/Compass outsourcing contracts is Mr. Ralph Davila at r-davila@tamu.edu or 979-458-5500.

Pending reports from CPI representatives serving on external committees (CPI representative)
--------------------------------------------------
- Council for the Built Environment (Paul Hardin)
- Council for the Strategic Budgeting and Strategic Reallocation Sub-Council (Mary Bryk)
- Email Selection Advisory Committee (Terry Thomas)
- EPIK-Maestro Working Group (Beverly Kuhn, Terry Thomas, Victor Ugaz)
- Federal Demonstration Partnership (Wolfgang Bangerth)
- Graduate Student Copyright/IP Policies Review Task Force (Jean Luc-Guermond, Sandy Tucker)
- Intellectual Property Constituent Committee (Wolfgang Bangerth)
• Laboratory Safety Advisory Committee (Susanne Talcott)
• PricewaterhouseCoopers Administrative Review Advisory Committee (Lawrence Rauchwerger, Eva Shipp, Heather Wilkinson)
• SRS PI/Faculty Advisory Committee (Terry Thomas, Lawrence Rauchwerger, Niall Slowey)
• Texas A&M University Research Administration Committee (Terry Thomas)
• Texas A&M University Multidisciplinary Accounting Committee (Steve DiMarco)
• Transportation Services Advisory Committee (Sandy Tucker)
• University Research Council (Clint Allred)

See the full list of CPI members serving on external committees and committee descriptions at goo.gl/rP41nF.

Limited Submission Proposal Opportunities

Up-to-date limited submission proposal opportunities, including deadlines for required letters of intent, are available on the website of Research Development Services in the Division of Research at vpr.tamu.edu/researchdevelopment/funding/lsp/lsp/#limited-submission-proposal-opportunities.
TAMU Areas of Strengths and Weaknesses

**Strengths**
- Security Policies
- Procurement

**Weaknesses**
- Leadership
- Governance
- Service Delivery
- Shared Services
- Program/Project/Demand Management
Examples of Key TAMU Findings from Current State Analysis

- IT does not have a seat at the strategic leadership level of the University
- The absence of an IT service delivery model (and tool set)
- Only 37% of the TAMU departments have a change management committee or issue change management reports
- Distributed data center compute and storage (only 12,000 sqf out of 28,000 sqf is centralized)
- Only 2,000 virtual servers (out of 25,000) are under central IT administration
- Approximately 60 email systems on the campus
- 37 service desks using 26 different (mostly non-enterprise grade) service desk tools
- Only 11% of the TAMU service desks report call abandonment rates and first call resolution rates
- Seven TAMU departments cannot provide any service desk closure reporting data
- Few centers of excellence on the campus (e.g., Banner vs. digital marketing)

The Changes Required

A Change in Culture

A Change in Leadership

A Change in Model

Trust
Transparency
Interdependence

Accountability
Collaboration
Stewardship

Commodity Service Centers
Innovation @ The Edge
Centers of Excellence
Expected Changes

System
• Shared Services
• Governance
• Data Protection
• Procurement
• Data Center Consolidation
• Email Consolidation
• New ERP System
• Banner Hosting
• Service Desk Consolidation
• Service Delivery

TAMU
• Shared Services
• Governance
• Data Protection
• Procurement
• Data Center Consolidation
• Email Consolidation
• Service Desk Consolidation
• Service Delivery

Communication Challenges

• Impact on Staffing
• Truth about Outsourcing
• Need for Reorganization

• Pace of Change Allowed
• Author of Change Management
• Objectives and Means
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<th>Savings Status</th>
<th>Simplification, Standardization, Consolidation</th>
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Simplification, Standardization, Consolidation April, 2014
## Deloitte Scorecard

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## Simplification, Standardization, Consolidation

April, 2014

## The Center for Computational Sciences

### Physical Overview

**IBM Data Center**
- 2 Racks BlueGene/Q
- 2 Racks Storage
- 1 Rack Tape
- InfiniBand (QDR)

**Teague Data Center**
- 16 Racks System x
- 4 Racks Storage
- 2 Racks Storage
- 1 Rack Tape
- InfiniBand (PDR10)

**Wehner Data Center**
- 5 Racks System p
- 10G Ethernet

**Rochester, Minnesota**

**College Station, Texas**

**Texas A&M**
The Center for Computational Sciences

### Physical Detail, Teague Compute (Ada)

**335 TFLOPs¹, 18k Cores², 959TB Memory²**

- **792** NextScale Compute Nodes
  - 64G Memory, 20 Cores 2.5GHz
- **20** iDataPlex Dual NVidia K20 GPU Nodes
  - 256G Memory, 20 Cores 2.5GHz
- **10** iDataPlex Single NVidia K20 GPU Nodes
  - 64G Memory, 20 Cores 2.5GHz
- **9** iDataPlex Dual Intel PHI 5110P Accelerator Nodes
  - 64G Memory, 20 Cores 2.5GHz
- **6** iDataPlex 256G Large Memory Nodes
  - 256G Memory, 20 Cores 2.5GHz
- **13 x3850 x6 1T Large Memory Nodes**
  - 1024G Memory, 40 Cores 2.27GHz
- **2 x3850 x6 2T Large Memory Nodes**
  - 2048G Memory, 80 Cores 2.27GHz
- **6 Login Nodes³**

¹ Based solely on 2.5GHz 20-core compute node type.
² Includes all compute node types.
³ No login nodes were harmed in the making of this slide.

Prepared by: Brian Finley, TAMU

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The Center for Computational Sciences

### Physical Detail, Wehner Compute (Curie & Crick)

**1k Cores¹, 18TB Memory¹, 644 10k RPM MapReduce Spindles²**

- **48 System p 7R2 HPC Compute Nodes (Curie)**
  - 256G Memory, 16 Cores 4.2GHz
- **2 System p 7R2 Login Nodes³ (Curie)**
- **23 System p 7R2 BigInsights Compute Nodes (Crick)**
  - 256G Memory, 16 Cores 4.2GHz
  - 28 800G 10k RPM Disks
- **2 System p 7R2 BigInsights Management Nodes (Crick)**

¹ Includes all compute node types.
² Based solely on MapReduce compute nodes.
³ No login nodes were harmed in the making of this slide.

Prepared by: Brian Finley, TAMU
**Physical Detail, BlueGene/Q Compute (Neumann)**

**32k Total Cores, 32TB Total Memory**

- 2048 Compute Nodes
  - 16G Memory, 16 Cores each
- 4 System p 7R2 Login Nodes

This is an actual photo of Neumann →

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**Physical Detail, Teague Main Storage**

**4PB Storage, 48GB/s Throughput**

- 4 GPFS Storage Server Building Blocks, Model 26 (GSS26)
- 48GB/s aggregate throughput
- 4PB total storage (raw)
- 8 total storage nodes
- 32 total connections to the InfiniBand core
- 16 total 10GbE connections to the Ethernet core
Physical Detail, BlueGene/Q Main Storage

~2PB Total Storage  ~24GB/s Throughput

2 GPFS Storage Server Building Blocks, Model 26 (GSS26)
- 24GB/s aggregate throughput
- 2PB total storage (raw)
- 4 total storage nodes
- 16 total connections to the InfiniBand core

Physical Detail, Teague SUR Grant Equipment

1PB Storage, 2 PowerLinux 7R2 Servers

Storage
- 1PB total storage (raw)
- 300 TB – AgrLife
- 500 TB – Geosciences
- 200 TB – Shared
- 2 x3550 M4 storage nodes
- 4 total 10GbE connections

Shared University Research Grant (SUR Grant)
This SUR Grant is in support of:
- Plant & Animal Genomics
- Health Surveillance
- Genomic Signal Processing
- Gulf Climate & Environmental Systems Integration
- Oil & Gas

Located in the Teague Data Center
IBM Partnership

Initial Impressions
• High sense of urgency
• Interested in Partnership
• Customer Service Centric
• Willing to share best practices

Commitment Incentives
• Contract
• Research initiatives
• High speed network proof of concept
• Wide area GPFS proof of concept
• Reputation

Open Season
Regulation # XX Use of Biohazards in Research, Teaching and Testing
Approved XX XX, 20XX
Revised XX XX, 20XX
Next Scheduled Review: XX XX, 20XX

Regulation Statement

The Texas A&M University System is committed to protecting faculty, staff, students, visitors, the general public and the environment from the risk of potential exposure to biohazardous materials, and to ensuring that all activities involving biohazardous materials and the facilities used to conduct such work are in compliance with applicable federal and state laws, regulations and guidelines.

Reason for Regulation

This regulation provides guidance in complying with federal and state laws, regulations, and guidelines relating to research, teaching and testing with biohazardous including, but not limited to infectious agents, biological toxins, select agents, recombinant and synthetic nucleic acid molecules and cells, organisms, and viruses containing such molecules.

Procedures and Responsibilities

1. BIOHAZARDOUS MATERIAL
   1.1 Material containing or potentially containing:
      1.1.1 Biological agents (bacteria, rickettsia, fungi, viruses, protozoa, parasites and prions) that may cause disease in humans, animals, or plants;
      1.1.2 Recombinant or Synthetic Nucleic Acid Molecules as defined in the National Institutes of Health (NIH) NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines);
      1.1.3 Human and non-human primate blood, tissue, cells and cell lines;
      1.1.4 Toxins of biological origin as defined in the Biosafety in Microbiological and Biomedical Laboratories (BMBL) document.

1.2 Recombinant and Synthetic Nucleic Acid Molecules - In the context of the NIH Guidelines, recombinant and synthetic nucleic acids are defined as:
1.2.1 Molecules that a) are constructed by joining nucleic acid molecules and b) that can replicate in a living cell, i.e., recombinant nucleic acids;

1.2.2 Nucleic acid molecules that are chemically or by other means synthesized or amplified, including those that are chemically or otherwise modified but can base pair with naturally occurring nucleic acid molecules, i.e., synthetic nucleic acids, or

1.2.3 Molecules that result from the replication of those described in (i) or (ii) above.

2. ADMINISTRATIVE REQUIREMENTS

2.1 Each member involved with research, teaching, or testing utilizing biohazardous material shall establish a rule for carrying out this regulation.

2.2 Procedures for use and storage of biohazardous material shall be consistent regardless of sources of funding.

2.3 The chief executive officer or designee of each member that conducts research, teaching or testing with biohazards shall develop an Institutional Biological Safety Committee (IBC) or enter into an agreement Memorandum of Understanding with another member with a registered IBC. Each IBC shall meet the requirements set out in the NIH Guidelines and register with the Office of Biotechnology Activities (OBA) of the National Institutes of Health (NIH), U.S. Department of Health and Human Services.

2.4 Each member that conducts research, teaching or testing with biohazards shall develop written IBC procedures, including procedures relating to the review of biohazard protocols and reporting guidelines. Activities involving the use of biohazards and/or rDNA Biohazard protocols shall be reviewed and approved in a manner consistent with the NIH Guidelines before the initiation of the research project.

3. GENERAL GUIDELINES

3.1 All faculty, staff and students must be aware of and are responsible for the safe and compliant use, storage, and disposal of biohazards used in research, teaching or testing. Prior approval must be obtained for possession or use of biohazards.

3.2 Principal investigators (PIs) and department heads (or equivalent) are responsible for ensuring that all research, teaching or testing involving biohazards (including protocols which may be exempt, as defined in the NIH Guidelines) is submitted to the member’s respective IBC for review and approval.

3.3 PIs shall submit continuing reviews to their respective IBCs, as directed by the IBC, but not less than annually.
3.4 **Activities**
Research involving biohazards must meet the criteria articulated in the most current versions of the following federal or state documents, requirements, and laws **including**:

3.4.1 *NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines)*;

3.4.2 The Public Health Service/Centers for Disease Control and Prevention/National Institutes of Health’s *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*;

3.4.3 Select Agents Regulations (42 CFR Part 73, 7 CFR Part 331, and 9 CFR Part 121);

3.4.4 U.S. Department of Agriculture (USDA) regulations and permits as applicable;

3.4.5 Centers for Disease Control and Prevention’s (CDC) Etiologic Agent Import Permit Program (EAIPP) import permit requirements;

3.4.6 State of Texas Health and Safety Code Sections 81.301 – 81.306

**Related Statutes, Policies or Requirements**

- Select Agents Regulations (42 CFR Part 73, 7 CFR Part 331, 9 CFR Part 121)

- *NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines)*

- *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*

- System Regulation: 15.99.05 Research Compliance

- System Policy 24.01: Risk Management
  [http://policies.tamus.edu/24-01.pdf](http://policies.tamus.edu/24-01.pdf)

- System Regulation 24.01.01: Supplemental Risk Management Standards
  [http://policies.tamus.edu/24-01-01.pdf](http://policies.tamus.edu/24-01-01.pdf)

**Member Rule Requirements**

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Comment [TAMU21]: Consider including a section about reporting and consequences of noncompliance.
Regulation # XX Use of Vertebrate Animals in Research

Approved XX XX, 20XX
Revised XX XX, 20XX
Next Scheduled Review: XX XX, 20XX

Regulation Statement

The Texas A&M University System is committed to the humane and ethical treatment of vertebrate animals used in research, teaching and testing.

Reason for Regulation

This regulation provides guidance in complying with federal and state laws, regulations, and guidelines relating to the humane and ethical use of animals in research, teaching and testing.

Procedures and Responsibilities

1. ADMINISTRATIVE REQUIREMENTS

1.1 Each member involved with the use of vertebrate animals in research, teaching, or testing shall establish a rule for carrying out this regulation.

1.2 All animals used in research, teaching, or testing regardless of the funding sources, shall be provided humane care and treatment.

1.3 Each member must obtain United States Department of Agriculture (USDA) registration or license if required by the Animal Welfare Act.

1.4 Each member must obtain a Public Health Service (PHS) Animal Welfare Assurance (Assurance) from the National Institutes of Health (NIH) Office of Laboratory Animal Welfare (OLAW) prior to performing any activity supported by PHS involving animals.

1.5 The chief executive officer or designee of each member that conducts research, teaching or testing with animals shall develop establish an Institutional Animal Use and Care Committee (IACUC) or enter into an agreement Memorandum of Understanding with another member with an IACUC.

1.6 The Animal Welfare Act (for covered species) and the Guide for the Care and Use of Laboratory Animals must be followed when conducting research, teaching or testing.
testing activities involving non-agricultural animals and biomedical research activities in agricultural animals.

1.7 The Guide for the Care and Use of Agricultural Animals in Research and Teaching must be followed when conducting research, teaching or testing activities involving agricultural animals intended for improving animal nutrition, breeding, management, or production efficiency or for improving the quality of food and fiber production in agricultural animals.

1.8 The use of vertebrate animals within each member, whether for research, teaching or testing purposes, shall be described in an Animal Use Protocol (AUP). The AUP is a form designed to capture relevant information regarding the appropriate use of the animals in research, teaching or testing activities.

1.9 For each project involving animals used in research, teaching, or testing, an AUP must be approved by the IACUC.

1.10 An approved and current AUP for all animal activities must be in place at all times animals are housed or used for research, testing or teaching.

1.11 All modifications to approved animal activities must be approved prior to initiation of the changes.

2. INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)

2.1 The IACUC of institutions with an USDA registration shall be appointed, structured, and shall perform duties and functions as described in the Animal Welfare Act.

2.2 The IACUC of institutions with a PHAS Assurance shall be appointed, structured, and shall perform duties and functions as described in the document "U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training."

2.3 The IACUC of institutions conducting research on agricultural animals shall be appointed, structured and shall perform the duties and functions as described in the Guide for the Care and Use of Agricultural Animals in Research and Teaching.

2.3.4 The IACUC of institutions not required to obtain USDA registration and/or a PHS Assurance shall be appointed, structured, and shall perform duties and functions, with the exception of those activities involving reporting to the USDA, as described in the Animal Welfare Act.

3. USE OF ANIMALS IN AGRICULTURAL RESEARCH, TEACHING OR TESTING

3.1 Use of animals in agricultural research, teaching or testing is overseen by the IACUC. Agricultural research, teaching or testing is defined as research, teaching or testing activities involving horses, and other farm animals, not limited to livestock or poultry, used or intended for use as food or fiber, or used or intended for use for...
improving animal nutrition, breeding, management, or production efficiency, or for improving the quality of food or fiber.

3.2 The *Guide for the Care and Use of Agricultural Animals in Research and Teaching* must be followed when conducting research, teaching or testing activities involving food and fiber production in agricultural animals.

3.3 When agricultural animals are involved in biomedical research, animal use and compliance must adhere to additional applicable federal guidelines including the *Guide for the Care and Use of Laboratory Animals*.

4. ATTENDING VETERINARIAN

4.1 The Attending —Veterinarian(s), or designee(s), shall provide guidance to the campus animal facility managers, animal users, and administrators on current standards for the care and use of animals in teaching, testing and research programs, and shall serve as the Attending Veterinarian of record under the Federal Animal Welfare Act.

4.2 The Attending Veterinarian(s) has direct or delegated authority for activities involving animals at the institution, serves as a voting member of the *Institutional Animal Care and Use Committees* (IACUC) and coordinates campus programs for provision of adequate husbandry and veterinary care of research, testing and teaching animals.

5. CARE AND USE OF NON-SYSTEM MEMBER OWNED ANIMALS

5.1 Non-System member owned vertebrate animals may not be used by a member’s faculty, students, or staff without prior approval of their IACUC. In addition to on-campus activity, this compliance requirement includes, but is not limited to, animal teaching, testing, and research conducted:

5.1.1 In the field by faculty, students, or staff;
5.1.2 By graduate students at other institutions as part of the completion of a degree;
5.1.3 At another institution as part of a joint contract;
5.1.4 Off-campus activities involving an undergraduate student as part of completion of a member’s undergraduate course;
5.1.5 In the teaching of undergraduate and graduate courses;
5.1.6 By graduate veterinarians for Continuing Education; and
5.1.7 With client-owned animals participating in clinical research studies.

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**Related Statutes, Policies or Requirements (Required)**

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Regulation # Use of Animals in Research

Page 3 of 5

Public Health Service Policy on Humane Care and Use of Laboratory Animals (National Institutes of Health)

Health Research Extension Act of 1985

U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training

The Guide for the Care and Use of Laboratory Animals

Guide for the Care and Use of Agricultural Animals in Research and Teaching

United States Department of Agriculture Animal Care Policies

Definitions (Optional)

**Animal**- Any live vertebrate animal used or intended for use in research, research training, experimentation, or biological testing or for related purposes.

**Animal Care and Use Program**- The activities conducted by and at an institution that have a direct impact on the well-being of animals, including animal and veterinary care, policies and procedures, personnel and program management and oversight, occupational health and safety, IACUC functions, and animal facility design and management.

**Animal Facility**- Any and all buildings, rooms, areas, enclosures, or vehicles, including satellite facilities, used for confinement, transport, maintenance, breeding, or experiments including surgical manipulation.


**Attending Veterinarian**- The veterinarian responsible for the health and well-being of all laboratory animals used at the institution.

**Institutional Official (IO)** - The individual who bears ultimate responsibility for the Animal Welfare Assurance Program and is responsible for resource planning and ensuring alignment of Program goals with the university’s mission.

**Institutional Animal Care and Use Committee (IACUC)**- An administrative body appointed by and reporting to the Vice President for Research in accordance with 9 CFR Chapter I, Subchapter C, Part 2.31, P.L. 99-158, and the Health Research Extension Act of 1985. There may be more than one IACUC appointed by the Institutional Official.

**Public Health Service Policy**- Refers to Public Health Service Policy for the Humane
Care and Use of Laboratory Animals ("PHS Policy") which requires institutions to establish and maintain proper measures to ensure the appropriate care and use of all animals involved in research, research training, and biological testing activities conducted and supported by the Public Health Service.

**Use of animals**- Any activity involving vertebrate animals in which the natural life style or movements of the animals is perturbed. Use of animal carcasses, tissues and fluids obtained specifically for research, testing, or teaching purposes is also considered use of animals and is subject to review according to applicable regulations.

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**Member Rule Requirements**

A rule is required to supplement this regulation. See Section 2.1.

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**Contact Office**

System Office of Research
(979) 458-6000
Texas A&M University – General comments received concerning draft System Regulations on Use of Biohazards in Research and Use of Animals in Research

Comments to Draft System Regulation, Use of Biohazards in Research

In general, the biohazard regulations are OK, with the major exception that there is a good bit of (possibly inadvertent) overreach. In a couple of places where the regulation tries to expound on the NIH Guidelines, it actually goes beyond what NIH requires.

The NIH Guidelines (sections III-E and III-F near the beginning) provide a lower level of scrutiny for low- or no-risk work. The proposed regulation eliminates this rational approach and holds all recombinant DNA work to higher scrutiny. Whether this is inadvertent or not, it increases liability for the researchers and the university by creating another place where we could be out of compliance. My recommendation is simply to say that biohazardous research at A&M will comply with the relevant federal guidelines, and the IBC will ensure that compliance.

In 1.1.1 of the biohazards, there was some discussion of how very strict interpretation could result in potential problems associated with work with food items, and food safety testing.

The only other thing that came up was in section 2 about whether this would be read as requiring each system component to have their own regulations, resulting in dual certification. I think that’s clarified in the subtext but included since it was brought up.

1. "Use of Biohazards" "Section 1.1 Material containing or potentially containing..." is subject to ambiguous interpretation. One could construe that all biological materials are potentially biohazardous; this would seriously hamper a broad range of biological research and would significantly confound and overload oversight committees like the IBC.

Comments to Draft System Regulation, Use of Animals in Research

“Use of Animals in Research” All references to animals should be preceded by the word vertebrate in sections 1.8 through 1.11 of the animal use regulations. This should eliminate any ambiguity.

The animal regulation is in dire need of clarification, early and often, that it applies only to vertebrate animals (as do all of the federal regulations.) This limitation is sort of acknowledged in a couple of places in the body of the regulation and in an ‘optional’ definition of animals at the end of the regulation, but it should be explicitly spelled out in the title of the regulation and in the boilerplate at the beginning of the regulation to avoid any confusion. IACUC is quite reasonable, and have no fear that the current committee would ever want to deal with inverts, but given our department’s recent experience with another regulatory body on campus, it is important to explicitly define their authority and limit it to what the feds require.
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