## Regulatory Burdens for Faculty:

**Focusing on Research** 

Matthew B. Wheeler, Chair University Senates Conference



## **Faculty Research Activity**

- Activity has dramatically increased
- > FY10 awards up 48% (UIUC)
- > \$668,696,494
- > 4,216 awards





## **Research Compliance**

- Human Subjects
- Animals
- Chemicals
- Biological Safety
- Radiation
- Other

## **Research Compliance**

- Compliance regulations, rules, requirements, guidelines, reporting, oversight and monitoring continue to <u>increase</u>
- University required by statute(s) to enforce research compliance regulations
- Not clear how much latitude institutions have to achieve compliance
- It is CLEAR that the <u>costs</u> for compliance have <u>skyrocketed</u>

## Research Funding

- Money for research has been a continuous decline for the past 20 years
- Faculty have to <u>pay more</u> and more of the <u>compliance costs</u>:
  - Animal care
  - Waste disposal
  - Training
  - Time filling out forms and reporting
- Result is less resources, especially direct costs and time spent, for actual research

## Research Compliance

- Academic integrity in research and publication policy and procedures
- Animal Subject Care and Use
- Conflict of interest and commitment policy
- Division of Research Safety
- Institutional Review Board for the Protection of Human Subjects
- Responsible conduct of research

#### **Animal Care Form**



## UNIVERSITY OF ILLINOIS INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC) Proposal for Activities Involving Animals

FOR ADMINISTRATIVE USE ONLY							
Protocol #	Appr	oval Date:					
Proposal Title:  Submission Type:  New Renewal. If this is a Project Type:  Research Teaching Breeding		per?					
Principal Investigator (PI):	Department: Campus Phone:	e-mail:					
Emergency Contact (other than PI):	Department: Campus Phone:	e-mail:					
Administrative Contact (optional):	Department: Campus Phone:	e-mail:					
Funding source:							
T							

#### INVESTIGATOR RESPONSIBILITIES

In the context of IACUC protocols and compliant animal use, someone may be considered as the PI if they have responsibility and authority for the research or teaching activities being conducted, and for the staff and students participating in the work. This level of control and responsibility typically falls to a faculty member that reports directly to a Department or Unit Head. There are occasional exceptions when someone other than a faculty member has the required authority. If you have any questions, please contact the IACUC Office at

Ten (10) form pages, plus 3 appendices a total of 20 form pages unfilled.

My typical protocols are in excess 35 pages and up to 60+ pages.

## **Animal Care Form**

2. Use of Rec	SULATED AGENTS OR MATERIALS						
If animal use involves any of the following, check all that apply:							
	Chemical Hazards (submit copies of the <u>DRS Chemical Safety</u> form, <u>Chemical Review for Animal Protocols</u> , with your protocol - see the <u>DRS Chemical Safety List of Chemicals that require review</u> )						
	Radioisotopes (Radioactive Materials License required)						
	127						
	University of Filinais M CU C Ameral Use Protocol For						
_							
	Recombinant DNA (even if exempt) - IBC Registration date:						
	Pathogens (human/animal/plant) - IBC Registration date:						
	Biotoxins - IBC Registration date:						
	Human/Non-Human Primate Materials - IBC Registration date:						
	CDC regulated select agents - IBC Registration date:						
	Cell lines or tumors for implantation (Pathogen testing may be required)						
	Transgenic plants, plant tissues, seeds - IBC Registration date:						
	Transgenic animals - IBC Registration date:						
	List strains:						

- Needs to be submitted before grant funding status is known.
- There is duplication with other compliance groups, IRB and Research safety.
- Cannot currently be submitted online, form is locked, only "cut & paste" capable.
- Can take 6-8 weeks to get a protocol approved.

## **Division of Research Safety**

- Emergency Spill Response
- IBC Project Registration
- Biological Safety
- Chemical Safety
- Radiation Safety
- General Lab Safety
- Hazardous Materials Transport
- Regulated Waste
- Safety Training
- <u>Forms</u>
- Safety Fact Sheets

#### **BIOLOGICAL SAFETY**

- <u>Institutional Biosafety Commitee (IBC)</u> About the IBC, registration requirements, forms, instructions, deadlines, and monthly meeting schedule.
- <u>Biological Waste</u> Online pick-up request for full sharps disposal containers, information on handling and disposal of sharps, non-contaminated glassware, personal use needles and syringes, and treatment and disposal of biological materials.
- <u>Biological Safety Related Training</u> Courses offered: Understanding Biosafety, Safe Handling of Human Cell Lines/Materials in a Research Laboratory, and Occupational Exposure to Bloodborne Pathogens (for non-laboratory personnel).
- <u>Biological Safety Cabinets</u> Information regarding selection and certification of biosafety cabinets.
- <u>Bloodborne Pathogens Program</u> The campuswide Exposure Control Plan, FAQs on Hepatitis B vaccination series, campus-related forms, and an overview of the program.
- <u>Transport of Biological Materials</u> Training requirements, definitions, classification guide to infectious substances, intra-campus transportation, transport by personal or University vehicle, packaging unregulated biological material.
- <u>Viral Vectors</u> Registration requirements, definitions, and information about the virus/viral vectors, practices and biosafety approaches.

# Institutional Biosafety Committee Biological Safety Section- Division of Research Safety Project Registration

#### 1. Basic Information

- What is the title of your project?
- Campus Address:
- After hours phone number (required if research is at Biosafety Level 2 or higher):
- Please enter the Principal Investigator's Degrees and Fields of Expertise:
- Please enter the Principal Investigator's training and experience relative to their responsibilities:
- Please list all personnel working on this project, along with their degrees and areas of experience:

## Biological Safety Section- Division of Research Safety Project Registration

#### 3. Project Introduction

- Provide an overview of the project (including animal work if applicable) in layperson terms using 1,000 words or less:
- Describe the experimental methods in sufficient detail for this work (include animal work if applicable). Focus on the biohazards you may encounter while performing this research and what steps you will take to minimize exposure to those hazards (i.e. working in a biosafety cabinet, wearing personal protective equipment, specific field precautions, etc): DO NOT COPY AND PASTE THE GRANT PROPOSAL.

THE FORM IS 32 PAGES LONG – not all used by everyone, but most used.

Form can currently be submitted online, but no database for background (PI, investigators) information currently.

#### Technology Commercialization, Management, and Transfer

Office of Sponsored Programs & Research
 Administration (OSPRA)

Grants and Contracts Office (post award)

Office of Technology Management

#### Rev 9/2009

## **UIUC Grant Transmittal Form**



Published or Mandated Sponsor Deadline postmarked by receipt by

electronic submission due 10/27/10 Specify Time Zone Verfication of published deadline should be made

available with guidelines

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Submit one original PTF fully complete on both pages with proposal package. Do not staple to proposal documents. The original signature must be kept on file for audit purposes until further notice.

Yes No V Has preliminary review occurred?

(Preliminary review service is only available prior to stated internal deadlines.)

If yes, Indicate OSDRA coordinator name:

			Number assig	ned	NetFiles na	me
IDENTIFICATIONS:		BAN	INER ORGAI	NIZATION CO	DE # for Responsi	ble Dept.
Principal Investigator	Name:					
(ATTACH LIST IF MORE	E SPACE IS NEED					
Last Name	First and Initial	UIN	Initiating De	ept/Division	E-mail Address	Phone
Wheeler	Matthew	_ !	Institute for	Genomic Blo		L
Cameron	Jo Ann		Institute for	Genomic Bio	,	
Proposal Title: 1 En	gineering Chemo-Mecha	nical Dynamics of Pr	reimplantation	Embryo Envi	ronments	
Sponsor/Agency Nam	ne: Email to Rochelle w	hen signed				
	University of Michig	an/NIH				
(If an incoming subawan	d, specify the name of origin	ating sponsor in parent	theses after the	Prime Recipier	t's name, e.g. Univers	ity X (NSF))
Sponsor/Agency Mall	ing Address:				•	
(Include street addres mail is to be used)	-					
Agency RFP#,BAA#,F	RFQ#,Program Announce	ment#: PAR-10-2	76 [Com	plete Guldelin	es MUST be attache	ed or URL provided.]
Begin Date: Jul	1, 2011 End	Date: Jun 30, 2	2016			
Supports a program	of: (check one)	Basic Research <sup>2</sup>	—— Inst	ruction <sup>2</sup>	Public Service	Applied Research
		Product Developme			Other (specif	v)
			_			
Proposal Type: (che	ck one) 🗹 New 🗌	Renewal 3 C	ontinuation 3	Revised	proposal or Budget	Supplement
Send Agreement wit	th Proposal: 6 Yes	No	If Y	98: Draft	Sponsor Spe	cific
For renewal or continuant Core	uation, please provide pre de	vious UI eRA#		, sponsor gra	ant/contract	
duties normally associated t	ATOR RESPONSIBILITY: with the project. The principal in versity's right to publish research quired.	vestigator assures that he	s/she makes this:	submission with th	e understanding that any	resulting award will contain
and accurate to the best of accept responsibility for the	CO-PRINCIPAL INVESTIGA your knowledge, 2) any false, fic scientific conduct of the project ependent children) that might re-	titious, or fredulent staten and to provide progress n	nents or claims m eports, and 4) yo	ey subject you to u have submitted i	criminal, civil, or administr a listing of your known Sig	submitted herein is true, co retive penalties, 3) you agre prificant Financial Interest (a
(Attach additional page	es for multiple signatures (	l.e., PVCo-PI and affe	oted Colleges	and Departmen	its), if necessary)	
Approved By:						
	li/Co-Principal investigato 06al <i>(Signature may not be d</i>	(-)	Date	Executive (	Officer(s) of Departn	nent(s)
Date Dean o	r Director		Date	Other Signa	tures if Required 4	
Office of Sponsored P	rograms and Research A	dmin	Research	Board Authoriz	ration	
For information on thi	s proposal call: Rochelle l	Bilbrey at (217) 244-	3161, rblibre	v@lqb.uluc.ed	u .	
	NSTRUCTIONS (Attach :					Page 1 of 2

## **Transmittal Form Compliance Section**

PROPOSAL CHARACTERISTICS, COMPLIANCE, AND OTHER APPROVALS: (check all that apply). Work performed					
unde	er this proposal involves the following	g:			
	Use of human subjects, or HH8 Exemption # 0		Corrosive gases		Subaward; If yes, should include Scope of Work, Budget and Authorized Administrative Approval. Must have once award is issued, or may expect delay in Subaward issuance.
✓	Use of live vertebrate animals 6		Pyrophoric gases		Consultant payment
	Human ☐ and/or Non-Human Primate materials ☐		Extremely toxic gases (Zone A or B)		Use of Background Intellectual Property
V	Stem Cells  Human		Explosives		Patent considerations
П	Recombinant DNA: Proposal page #		Discharge of unusual pollutants in waste water	Ш	Copyright Issues
	Transgenic Animals   , Seeds   , or Plants		Requirement for environmental statement		Use of proprietary or confidential information Space: will require additional be made available to the department of that existing space be renovated.
	Biotoxins		Other safety or health hazard		International program 4
	Dioxins				Chicago Imprint
	Pathogens: Human   , Animal   Plant		Small Business Subcontracting Plan Equipment acquisition only		EXPORT Control: ITAR/EAR  Use of Foreign Nationals  Covered Technology
	Chemical hazard		Construction of Building		Potential conflict of interest has been identified and addressed
	Biological hazard		Limited Submission		American Recovery and Reinvestment Act of 2009
	X-Ray or Laser Registration		Multiple Principal Investigators (NIH only)	무	STTR/SBI NONE OF THE ABOVE
$\overline{}$					

- Boxes must be checked before grant will be submitted.
- Once done then then <u>all the paperwork</u> must be done whether the grant is funded <u>or not</u>.

<sup>(1), (2), (3),(4)</sup> and (5) See definitions on attached sheet.

<sup>(6)</sup> Submit lab animals care form IACUC-1 to the Institutional Animal Care and Use

### Other Issues

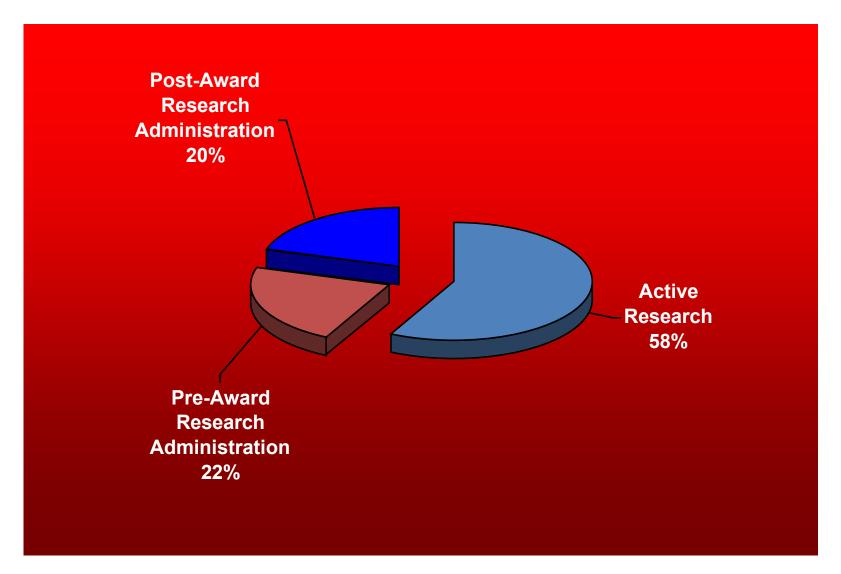
#### Chemical Biosafety

- Many chemicals are now tightly controlled and require permits for purchase, transport and storage
- Many also now have security requirements
- Makes it difficult to have storeroom with readily available supplies for investigator purchase, which can delay or even stop research activities
- List of chemicals requiring review is 20 pages long.

#### Export Control

- regulations are federal laws that prohibit the unlicensed export of certain commodities or information for reasons of national security or protections of trade.
- Proliferation and Number of Audits
- Difficulties from Our Own Hiring Processes

## Of the time they spent on federally-sponsored research 42% was actually spent administering the project



## **Top Administrative Burdens (Average)**

- 1. Grant progress report submission
- 2. Personnel hiring
- 3. Project revenue management
- 4. Equipment and supply purchases
- 5. IRB protocol approvals and training
- 6. Training personnel and students
- 7. Personnel evaluations

BUT: If human subjects or animals were used IRB or IACUC became the #1 burden.

#### **Burden vs. Existing Administrative Assistance**

 Faculty report low levels of support across all administrative tasks, with variations by disciplinary context very evident

#### Most assistance = financial management

- Payroll, budget transfers, cost accounting issues, cost sharing agreements, project revenue management
- Project revenue management remains a top burden

#### Least assistance = research-related activities

- Conflict of interest monitoring, grant progress reports, patent/copyright applications, intellectual property applications, IRB, IACUC
- Grant progress submission is the #1 reported burden

#### Personnel evaluations

- 7<sup>th</sup> most burdensome of the 25 burdens
- 2<sup>nd</sup> lowest level of assistance

## **Administrative Support**

- 97% of faculty stated that at least some time they spend managing Federal grants could be conducted by administrative personnel. Note: Not secretaries; project managers with expertise in the area of the research project
- 95% of reporting faculty believed that they could devote 4-8 additional hours each to week to active research if they had more support with project management
- 76% of faculty would be willing to reallocate direct costs from their grants to pay for project managers if this were allowed

## No Single Culprit (The death of a thousand cuts)

#### Burdens come from several sources

- Federal regulations
- Agency implementation of regulations
- Differences in agency requirements
- Institutional requirements and implementation
- Audit fears and auditor interpretations
- Inherent part of research
- Lack of administrative support

84% of faculty members reported that the administrative burdens associated with their research have increased in recent years.

## The Cost of this Faculty Time is Divided

Sponsor share

Paid effort spent on administration of project (42%)

University share

Effort diverted from other tasks

Societal share

Effort diverted from actual research and teaching

Personal share

Effort added (and taken from family/life)

## These Burdens Have Impacts on Students

62% of the respondents felt that students are less likely to pursue academic research careers now than in the past

- Multiple causes (workload, salary, funding competition, sense of job worth)
- A particular challenge for American-born students
- "They' ve seen what we really do and they don't want to do that."

### **Conclusions**

- Faculty spend about 42% of their federallyfunded research time on administrative tasks directly related to that federally-funded research
- No single overriding burden; pressure comes from many sources (death of a thousand cuts)
- Significant costs are associated with these burdens
- Savings could accrue from decreasing the burdens

## **Conclusions (cont.)**

- Saving could accrue from providing faculty with <u>more</u> <u>administrative support</u>
- Potential gain from identifying and replicating <u>best</u>
   <u>practices</u> at different funding agencies and institutions
- Potential gain from <u>harmonizing the requirements</u> of different agencies
  - Funding agencies, auditing agencies, accrediting agencies, universities
- Potential gain from optimizing/harmonizing procedures for different offices within a university

## **Final Thoughts**

- Compliance costs money and time
- Costs are higher to do Bio/Med-related research
- <u>Research \$\$</u> have not increased but have actually decreased
- Reputation is what keeps the best students coming and the grant and contract \$\$ flowing into the institution

### **Pensions**

- The pension issue is really not pension reform but rather pension responsibility.
- What the public and others don't realize is that pensions are not gifts but represent sums reflective of salaries paid and actuarial tables that work, provided that both sides live up to the contractual agreement.
- In fact, from the point of view of the pensioner, the contribution to the pension is actually deferred salary, a point recognized by the IRS.
- The problem in Illinois arises from neither an overblown pension payment or from a false concept.

### **Pensions**

- The problem is a direct result of the fact that the State essentially defaulted on paying it's "contractual share" of the pension.
- In fact, the actual numbers support this assertion. The pension system in Illinois is 45% funded, reflecting the pay in of the pensioners.
- If some of the bills now in committee are likely to be taken seriously and become law, our most productive faculty and administrators see no other option but to rapidly retire early to protect their pension rights.
- This will devastate both the Urbana and Chicago campuses and also make it impossible to recruit or retain faculty.

#### The COGR, AAU, and APLU ten recommendations:

- 1) Harmonize regulations and information systems between agencies and statutes where reasonable and eliminate unnecessary duplication and redundancy.
- 2) Eliminate regulations which do not add value or enhance accountability.
- 3) Provide targeted exemptions for research universities similar to protections provided for small entities under the Regulatory Flexibility Act (RFA).
- 4) Ensure that regulations are meeting their goals in terms of performance, rather than simply in terms of process.
- 5) Extend coverage provided under the Unfunded Mandates Reform Act (UMRA) to research universities and allow institutions to better account for new regulatory costs, and to charge these costs to Federal awards.

#### The COGR, AAU, and APLU ten recommendations:

- 6) Simplify sub-recipient monitoring requirements.
- 7) Reinforce the original intent of the Single Audit Act.
- 8) Prohibit voluntary committed cost sharing across the Federal government and create a mandatory cost sharing exemption for research universities.
- 9) Establish protocols to address statutorily-mandated regulatory concerns.
- 10) Designate a high level official within OMB's Office of Regulatory Affairs (OIRA) to serve as a Federal Ombudsman, responsible for addressing university regulatory concerns and for seeking ways to increase regulatory efficiency.