Respondents by Carnegie Cat. & Med School

**High & Very High**
- No medical school: N=33
- Include medical school: N=20

**Doctoral**
- No medical school: N=7
- Include medical school: N=3
# Top 10 survey hot topics by school type

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Fee structures in university core laboratories – Club membership anyone?

Core Laboratory Fee Structures

USU Goal with Core Laboratory Implementation Microscopy Core (created 2014)

[1] Maximize Research Use
[2] Motivate faculty to seek more & better equipment
[3] Drive fee costs down
[4] Encourage expanded grad student access

Subsidized Central Support (F&A)

User Fees

General Things to consider:
[1] Personnel Costs
[3] Operational Model

Utah State University Approach

[1] Reject the full cost recovery model
[2] Personnel support is essential:
   A. Embrace a faculty director & faculty advisory board
   B. Commit to a PHD Operator

Role of the RGS Office:
- Equipment Maintenance
- Space
- Director's Salary Stipend (1 month)

Role of Colleges:
- Personnel Cost Recovery (Operator Salary)

Role of the Faculty User Base
- New & Additional Equipment (Essential role)
- Grants to acquire equipment

Role of the User Fee
- Day to day expenses only (Push to keep low)

The Club Membership Approach:
Each person or laboratory group pays a set annual fee to use the facility. This fee is set at a level expected to recover day to day supply and operations expense beyond central subsidized support.
F&A Distribution Models

F&A Distribution @ USU

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<th>Follow the Money %</th>
<th>The State</th>
<th>The System</th>
<th>Campus President/Chancellor</th>
<th>Provost</th>
<th>Vice President for Research</th>
<th>College</th>
<th>Center</th>
<th>Department</th>
<th>Faculty</th>
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Use of F&A central funds at USU:

- 32% - Support for Commercialization facilities (Building Bond Payment and Building O&M)
- 15% - New faculty startup
- 14% - Research Support Services
- 12% - Central Administrative Fees
- 10% - Core Laboratory Support
- 08% - Faculty Seed Grants
- 06% - Graduate & Undergraduate Training
- 05% - Deans' Program Funds
- 03% - In-college program support

USU F&A Programs Support + E&G (state funds):

1. Sponsored Programs (Personnel)
2. IRB (Software & Personnel)
3. Laboratory Animal Research Centers (Operations)
4. IACUC - Veterinarians (Personnel)
5. Integrity & Compliance (Staff support)
6. EH&S - (Operations support)
7. Research Computing (HPC - now joint with UofU)
8. Undergraduate & Graduate Research - operations
9. Research Development -- OPD, Seed funds, workshops, soft skills training, etc.

VPR New Faculty Startup Support —
Based upon faculty percent Research appointment:

- 0-45% R -- yields a variable % match w the college/dept matching the appointment.
- 45-100% R -- yields a 50% VPR match w the college/dept
Mandatory Data Curation: USU Approach & Questions

What Data?
- replicates?
- publication related only?
- negative data results?
- preliminary data?
- metadata vs actual data

Costs
- cost during the grants
- cost after the grant
- cost to retrieve

Forever
- define perpetuity?
- cost of non-compliance?
- case law?

Obligations
- faculty
- institution
- sponsor specific
- "Dog ate my data"

Nature of the Data:
- Grant Project
- Legacy Databases
### Overview of OSTP Responses

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<tr>
<th>Funder</th>
<th>Published Outputs</th>
<th>Data</th>
<th>Time Limits</th>
<th>DMP</th>
<th>Access / Sharing</th>
<th>Long-term Curation</th>
<th>Monitoring</th>
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Grantsmanship:
USU *Stewardship* Approach - Skills Development

**Training Research Faculty Series (6)**

- Faculty Grantsmanship Workshop (8hrs) (mandatory w startup$ & Seed Grant$)
- Faculty Grant Writing Institute (Competitive)
- Faculty Seed Grants (Preliminary Data)
- RGS Grant Writing Specialists (Coordinated team across RGS & Colleges)
- DMP Tool
- Funding Finder
- Washington DC Fellows

**Graduate Research Training for Students – GRTS Series (6)**

- Grantsmanship
- RCR Etc.
- Soft skills
External Contracted:
www.grantcentral.com

• TAMU – Center (faculty interest)
• UF – College ($50M to $100M) in 6yrs
• USU – University wide – Record $ in 3yrs

Internal Experts
Partial Central F&A funded
Specialist are Permanent Employees
(1/college + central)

Internal Experts
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Dollars from State Legislature (Today’s Message: More jobs!)

Program Approach:
- Industry Voice
- Legislative Relationships
- The Core Case

Funding

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<th>Year</th>
<th>Graduate Training</th>
<th>USU Target</th>
<th>Funding Plan</th>
<th>Notes</th>
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<td>FY2013</td>
<td>High Tech STEM Workforce</td>
<td>$3M (1time)</td>
<td>$0 (R)</td>
<td>New Faculty Lines</td>
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<td>FY2014</td>
<td>X-STEM</td>
<td>$500K (1time)</td>
<td>$500K (R)</td>
<td>More college-based assistantships</td>
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<td>FY2015</td>
<td>Research Universities</td>
<td>$0 (1time)</td>
<td>$1.6M*(R)</td>
<td>Art-STEM Fellow = Legislative STEM Break-through!</td>
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*Funding Plan:
- New Faculty Lines
- More college-based assistantships
USU Electronic Sponsored Programs Software

Open Contracts & Grants = $500+M
Total Annual Research Support = $220M
Annual Research Expenditures = $165M

Kuali Company
(Cloud Implementation)
Kuali Coeus

- Previously using PARC
  -- an old custom built platform
- Currently in a transition year
  -- moving old data to Kuali (5yrs data minimal)
  -- training SPO to Kuali
  -- training Colleges/Depts/Faculty to Kuali
  -- Go live date: Fall 2015
- Fall 2016 Expect to complete
  -- Campus full transfer
- Full Cloud implementation
- All hosting is 100% off site
Tech Transfer Issues & Worries...

- Patent Trolls Legislation & Cost to patent & Cash Flow
- Implementing a new Research Foundation model
- Trustees & politicians have unrealistic expectations
- Expectations of reach-through IP Terms
- Dealing with pros & cons of corporate partners
- Corporate Partners: Max revenue vs future R&D Support
- What IP's worth supporting (ROI)
- IP Ownership and the issue of indemnification
- PI Conflict of commitment - Institutional Conflict of interest
- Royalty distribution models
- Pressure to view a for the public good vs revenue
- Limited investment capital available to some.
- Balancing RISK vs REWARD
- Figuring our IP ownership in complex scenarios
- How to engage faculty culture to support this
- Getting faculty to open up and declare financial COI
- Implications of first to file rules & Univ Publish or Perish model
- Litigation over IP infringement
- The cost ...
Need ideas on the following best practices ...

- Who’s doing what about Patent Trolls Legislation
- Approaches to licensing to Startups
- Streamlined, fixed fee legal arrangements
- NERFs and reach through IP terms
- Streamlining decisions making processes
- Evaluation/measuring ROI
- Allowing private sector to own university IP
- Approaches to Managing FCOI and ICOI
- Is it research OR tech transfer?
- Who has a good system for building positive faculty involvement
- Does anyone do Master IP agreements with outside entities?
- Giving IP away as a university policy – any good ways to do this?
- Cradle to grave partnerships with industry?
- Effective communication between Tech Trans & Compliance
- Staffing levels per research expenditure – college vs central staffing
Big need facing my university ....

- none
- Funds to cover patent costs
- Good model to estimate ROI
- Managing required resources
- Need for good legal guidance
- How to educate my faculty to get engage
- Need to keep some perspective of the typical 10yr horizon! No GatorAid
- Better ways to help startups succeed
- Figuring out space allocation to this effort.
- Sources of bridge funds, proof of concept funds, angel funds
- Creative approaches to undergraduate IP creation
- Cost to implement staffing to get Tech Transfer going.
- Understanding of long-term need for fundamental and applied research
- For health care science, support for translational research.
- Changing inventor share to a proportion of net royalties (after expenses)
- Getting faculty to open up and declare financial COI
- Greater access to funding to get technologies off the ground
- The cost ...
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