SCHOOL OF ENGINEERING AND TECHNOLOGY

A PURDUE UNIVERSITY SCHOOL

Indianapolis

IUPUI

Research Committee

Wayne Eckerle

Research Committee

- Wayne Eckerle
- Bernie Sepaniak
- Jorge Schreiber
- Joe Kitterman
- Bill Wylam
- Jim Wheeler
- Andrew Hsu, Ed Berbari, Yaobin Chen, Jie Chen

Met April 15th

Discussed Long Range Plan Initiatives

DIAC Long Range Plan

WHERE **IMPACT** IS MADE
E V E R Y   D A Y

Mission/Objectives

Guide the School & Advise the Dean: Nourish the partnership between school, industry, and community

Enable relevant educational experiences for students

Support comprehensive outreach to the community

Promote excellence in research and creative activity

Support the intellectual and economic development of community stakeholders

Strategies

Primary Source of Industry Advice to Dean and School Leaders

Promote Diversity and Inclusion

Vibrant and Relevant DIAC

Student - Industry Linkage

Champion Research, International, Service and Experiential Learning (RISE)

Support IUPUI Community Outreach

K – 12 ISTEM – Fill the Pipeline

Grow Research and Realize Technology

Collaboration w/Industry (Pervasive Connections)

Support University Funding

Initiatives

– Advisors on School Topics and Issues
– Engage School's Diversity Initiatives
– Recognize Membership & Service
– Recruit Members
– Grow DIAC Leaders
– Link to Dept Adv. Boards & Alumni Board
– Show Relevant Metrics

– Grow Internships & Coops
– Hold Industry Open Houses & Facility Tours
– Define Real World Senior Projects
– Engage Student Organizations
– Provide Job Shadowing Opportunities
– Attend Job Fairs with Subject Matter Experts
– Mock Interviews

– Staff the IUPUI State Fair Booth
– Community / Curriculum Collaboration: (Music Technology & Indianapolis Symphony**)**
– Support ISTEM Initiatives
– Support K – 12 Summer Programs
– Help 7 – 12 at Risk Students

– Industry Review of Research Programs
– Integrate School and Industry Research Pursuits
– Help License and Commercialize Research
– Bring Company Intellectual Resources to Support Technology Research
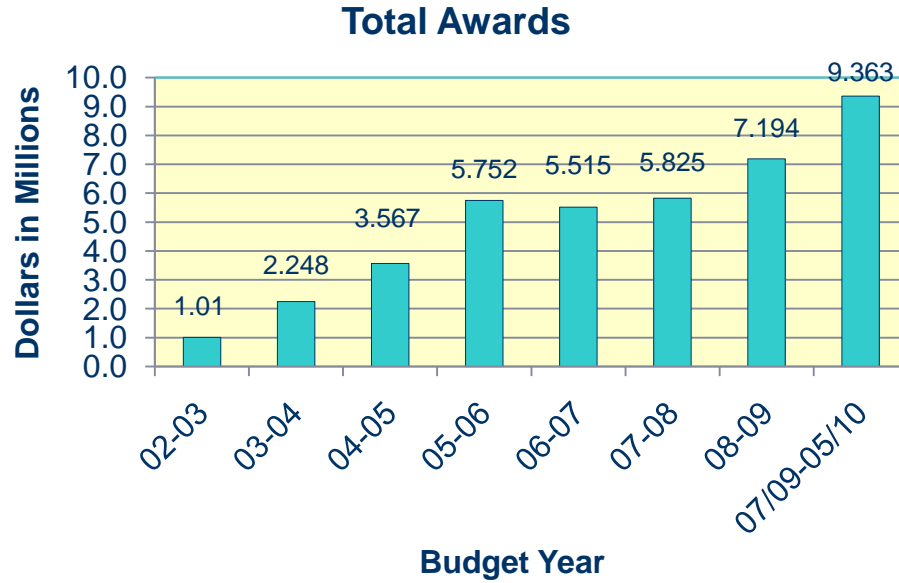– IUPUI Fellows (e.g. Rolls Royce Fellows)
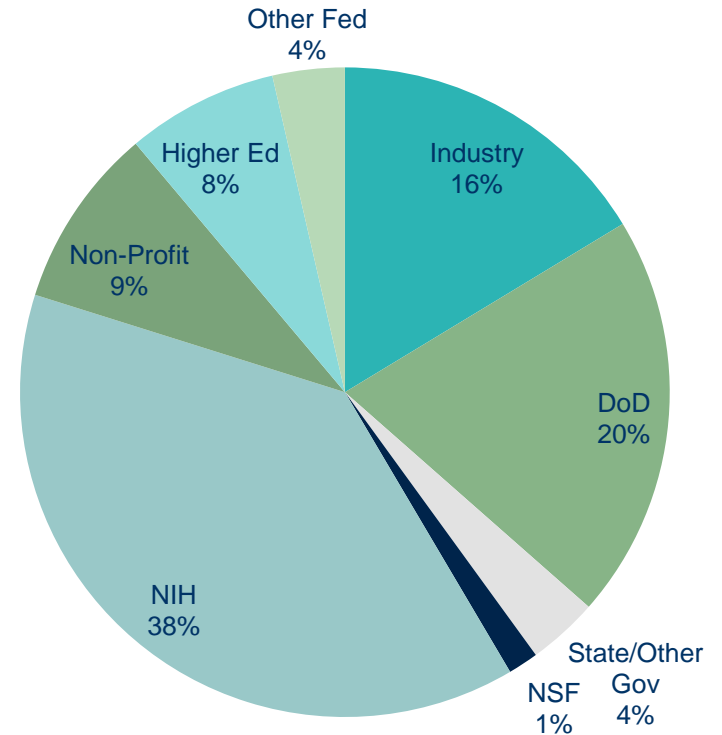
– Participate in Brown Bag Lectures
– Industry Engagement on Strategic Plans
– Build the Education / Public / Private Bond
– Capital Campaign Leaders
– Support University Funding Through Legislative Process
– Tie Into 2012 Super Bowl

Research Committee

Total Awards

Dollars in Millions — Budget Year

Budget Year	Dollars in Millions
02-03	1.01
03-04	2.248
04-05	3.567
05-06	5.752
06-07	5.515
07-08	5.825
08-09	7.194
07/09-05/10	9.363

**E&T Awards
35 Months $21.9M**

- Other Fed 4%
- Industry 16%
- DoD 20%
- State/Other Gov 4%
- NSF 1%
- NIH 38%
- Non-Profit 9%
- Higher Ed 8%

Research Committee

- ***Grow Research and Realize Technology*** is owned by Research Committee
- **Industry Review of Research Programs**
  - Plan Template and Four Department Plans reviewed to date
  - Bernie Sepaniak has met with Dr. Fred Rees, Chair of Music and Arts Technology, to explore DIAC review of MAT activities
- **Integrate School and Industry Research Pursuits** – Change to *Promote School and Industry Research Collaboration and Joint Pursuits*

Research Committee

- **Help License and Commercialize Research**
  - It was noted that this may be difficult.
- **Bring Company Intellectual Resources to Support Technology Research**
- **Provide Industry Input when Hiring Faculty**
  - DIAC well represented on Dean Search Committee
  - Unknown to what extent industry input sought when hiring faculty, esp. research faculty
- **Provide Letters of Support for Grants and Proposals**
  - Small Business Innovative Research proposals specifically mentioned

- **IUPUI Fellows (e.g. Rolls Royce Fellows)**
  - Individuals from companies spend a semester or a year teaching or performing research at the School. Doing some of this through TASI today.
  - Faculty spend some period of time (a summer or a semester) working in industry. Last year placed 4 faculty in summer positions at Raytheon and Crane.
  - Individuals from companies lecture at noontime or other time seminars.
  - Companies invited to noontime seminars.
  - Seminars could be teleconferenced or webinared to increase access.
  - The idea is to share technical issues and establish linkages between companies and faculty.

Research Committee

- **Other Comments –**
  - Need to increase representation and participation on DIAC Research Committee from industry members.
  - Need industry more involved in research at School and vice versa.
  - Build individual relationships between technical people in industry and at the School.

- **Summary - several initiatives that Research Committee could sponsor:**
  - Fellowships - student/faculty/industry employees
  - Brown bag presentations
  - Guest lecturing
  - Letters of support
  - Aligning industrial support with faculty/facility capabilities