

Purdue School of Engineering and Technology

Dean's Industrial Advisory Council

February 20, 2008

Indiana University Purdue University Indianapolis

Agenda

- **Meeting Convened - Clayton Nicholas, Chair**
 - Introduction of Guests & New Members
- **Welcome to Allison Transmission - Bill Klenk**
- **New IUPUI Signature Center**
 - TASI – Dr. Yaobin Chen and Dr. Sarah Koskie
- **Subcommittees**
 - General Administration - Dale Jacobs
 - Industry Resources and Networking – Craig Edlin
 - Diversity, Retention and Recruitment – Vince Newsom
 - Research – Wayne Eckerle
- **School Update - H. Öner Yurtseven**
- **Industry Relations Update - Joe Abella**
- **Wrap-Up, Adjourn and Networking**

Guest Speakers

IUPUI

SCHOOL OF ENGINEERING
AND TECHNOLOGY

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Indianapolis

Transportation Active Safety Institute

Dr. Yaobin Chen

Dr. Sarah Koskie

Subcommittee Status

- General Administration - Dale Jacobs
- Industry Resources and Networking – Craig Edlin
- Diversity, Retention and Recruitment – Vince Newsom
- Research – Wayne Eckerle

- Vision

- A partnership between the School of Engineering and Technology and DIAC where we proactively engage in advising and supporting in Diversity, Recruitment, and Retention (DRR) matters.

- Mission

- Support the school in DRR and the drive to create an environment that respects and values diversity among students, faculty and staff.

- Why is Diversity Important in General?
 - Diversity initiatives positively affect student attitudes and feelings toward others;
 - Diversity initiatives positively affect students' satisfaction, involvement, and academic growth while in college;
 - Serious engagement of issues of diversity in the curriculum and in the classroom has a positive impact on attitudes toward racial issues—this is particularly powerful for white students;
 - Teaching methods, curriculum, and a campus climate that considers each of us as diverse and complex individuals provides educational benefits for both minority and majority students; and
 - A broad campus commitment to diversity is related to positive educational outcomes for ALL students.

Karen Whitney

Vice-Chancellor for Student Life and Dean of Students

from IUPUI diversity web site: <http://www.iupui.edu/diversity/>

- Why is diversity important to industry?
 - Our companies are increasingly global and therefore more diverse.
 - We are enriched through diverse workforces.
 - Talent comes in all backgrounds.
 - It's a competitive advantage.

- IUPUI State of Diversity Report (January 20, 2008)
 - “....diversity is critical to the success of IUPUI”
Chancellor Charles Bantz,
 - 7 Diversity Performance Indicators (Rates Green, Yellow, Red)
- IUPUI Diversity Cabinet
- School of Engineering & Technology Diversity Council goals:
 - Search and screen activities which also assess candidate’s “feeling” about the importance of diversity.
 - Diversity metrics built around students, faculty, staff, recruiting, retention and graduation
 - Training
 - Rewards system

- Guide and advise the school on DRR matters by..
 - Reviewing of goals and metrics
 - Recommending and supporting programs and activities
 - Critiquing schools activities and initiatives
 - Providing an industry perspective
 - Providing a link to the school's Diversity Council

Research Subcommittee

Continue to advise and guide research activities of the School, especially collaboration with Industry

- Agenda Items for DIAC Research Subcommittee for 2008
 - Guide Industry Relations research marketing plans
 - Help define School competitive advantage and research strategy
 - Critique Engineering Professional Practice Plan
 - Work with department Industry Advisory Boards to establish focal points from industry to help with departmental research plans
 - Critique Departmental Research Plans
 - Review concepts for the proposed Innovation Center

Research Committee

- Membership
 - Wayne Eckerle – Cummins
 - Jorg Schreiber – Quadraspec
 - Bernie Sepaniak – D&M Holdings
 - Jim Wheeler – Thomas P. Miller & Assoc.
 - Doreen Gridley – Ice Miller
 - Bill Wylam – Electricore
 - Hasan Akay – Chair, Mechanical Engineering
 - Yaobin Chen – Chair Electrical & Comp. Engr.
 - Joe Abella – School Director of Industry Relations

Research Committee

- Met Monday February 18
- Attendees – Eckerle, Schreiber, Chen, Akay, Abella
- Discussed 2008 Agenda
- Agreed to work thru Department IABs for industry focal point for research
- Innovation Center
 - What is value to external orgs & school of providing space in Center?
- Research Marketing Plans
 - Need to identify specific strengths of departments
- Indiana Commission for Higher Education report

Research Committee

- Indiana Commission for Higher Education report
 - implication that the strengthening of programs at IUPUI should be confined to professional programs (pg 13)
 - state funding adjustments for sponsored research at IUPUI be limited to health science components (pg 18)
- Research Subcommittee recommendation that DIAC weigh in on this issue
- DIAC members need to read the report and comment
- Does DIAC agree that the letter drafted should be forwarded to the Commission?
- Comments by COB March 7

Dean's Report for DIAC

February, 20, 2008

- IU Master Plan
 - First priority: Core campuses
 - IUPUI Center for Innovation
 - 135,000 sq ft
 - Business (75,000 sq ft), Science (30,000 sq ft), and Engineering and Technology (30,000 sq ft).
- Campus Center
- New Vice Chancellor for Research (Kody Varahramyan)

Academic Programs

- Enrollment for spring 2008 semester
 - 0.73% increase in student credit hours
 - 4.7% increase in student headcount
 - Fall 2008 applications and admissions
 - Applications are up by 27.4%
 - Admissions are up by 37.8%
- New Programs
 - Motorsports Engineering-BS
 - 5 year BS/MS program in ECE
 - Department of Design and Communication Technology will require students buy laptops next fall.

Research and Scholarship

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- Two new Signature Centers
 - Biomechanics and Biomaterials Center
 - Transportation Active Safety Institute
- Major research grants
 - Ghassan Kassab (BME) received 5-year \$1.58M R01 grant from NIH
 - Total awards: \$2.31M (July-Dec, 2007)
- Invention disclosures and patents
 - Chen (ENT), Xie (BME), Hsu (ME)

Engagement

- Indiana Renewable Energy Forum (Jan 4)
- Fourth Annual Project Lead the Way Student Conference (Feb 8)
- Indiana Regional Science Olympiad (Feb 9)
- National Engineers Week (Feb 21-28)
- Be a College Student Day (Feb 20)
- Campus Day (March 1)

Industry Relations

Joe Abella

317-278-1868

jfabella@iupui.edu

Recent Activities

- Collaboration with Industry
 - Met with Hill-Rom representatives at School
 - Scott Peer has agreed to join DIAC
 - Identifying areas for collaboration
 - Met with Carrier with Drs. Krishnan and Nalim
 - Identifying areas for collaboration
 - Met with Raytheon representatives at School
 - Joel Johns has agreed to join DIAC
 - Met on Self-healing Polymers
 - Supported meeting with BMW Construction
- IUPUI agreements (NDA, Service Agreement, etc.)
 - Met with John Talbot in Research Administration
 - New organization may be more responsive

Recent Activities (cont'd)

- Engineering Professional Practice Plan
 - First draft under review by Chairs
 - Examining existing plans in Dental & Med Schools
- Lugar Center for Renewable Energy
 - Prepared white paper advocating Li-Ion Battery Safety Project
 - Developed scope for NWSC Crane on project
 - Supporting Advisory Board meetings
- DIAC, Industry Advisory Boards
 - Assumed facilitation responsibilities for DIAC
 - Helping with restructuring of sub-committees
 - Working closely with the Research Subcommittee
 - Attending Department IABs – five to date
- Updated DIAC website with minutes, photos and logos

DIAC Website

<http://www.engr.iupui.edu/diac/>

Home tab and Partners tab

Raytheon

DELPHI



diversifiedsystems
www.divsys.com



D&M
D&M Holdings Inc.



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DIAC Website

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Mike Cyb
EDS Client Delivery Executive
•*Electronic Data Systems*



Robert Delaney
Chief, Design Methods and Technology
•*Rolls-Royce Corporation*

- Please check to make sure we have your correct company name and title**
- Missing pictures for Acton, Brooks, Cyb, Eckerle, Edlin, Haarlow, Hayden, Johns, Munerol, Young**

Themes for 2008

- Re-examine DIAC Mission, Vision and Activities
 - Based on School's Strategic Plan
 - Members to be fully acquainted with objectives
 - Re-energize & restructure sub-committees
- Expand on Diversity and Innovation
- Promote the School's capabilities and successes
- Increase mutual awareness of School and member companies
 - Some DIAC meetings at company sites

Important Dates

- April 11, 2008: School of Engineering and Technology Honors Convocation, Crowne Plaza, 5:30 p.m. social, 6:30 p.m. dinner
- April 10, 2008: DIAC Meeting, Campus Center, 3:30 – 5:30 p.m.
- June 5, 2008: DIAC Meeting, TBD, 3:30 – 5:30 p.m.
- September 11, 2008 DIAC Meeting, TBD, 3:30 – 5:30 p.m.
- October 17, 2008: Joint Board of Advisors Retreat, TBD, 12:00 p.m. – 5:00 p.m.
- December 4, 2008: DIAC Meeting, TBD, 3:30 – 5:30 p.m.