

Purdue School of Engineering and Technology, IUPUI

Dean's Industry Advisory Council

February 27, 2014

Today's Agenda



- Meeting Convened (Frank St. John, Chair)
- Committee Updates
 - General Administration
 - Research
 - Diversity, Recruitment & Retention
 - Student Services
- Mentoring for "Gap Students" (Terri Talbert-Hatch)
- Break & Networking
- DIAC Industry Profile Elevator Speech (Frank St. John)
- School Update (Dean Russomanno)
- Wrap-Up, Adjourn and Networking

General & Administration Committee



Committee Members:

- Kevin Zaletel- Chairman
- Joe Bentley
- Stephen Hundley
- Cary Marston
- Frank St. John Past Chairman
- Malcolm Thomas
- Joe Abella
- Met February 24th

General & Administration Committee Activities



Priorities

- Update DIAC Long Range Plan
- Progressing Examine DIAC Expansion to Regional/National
 - ongoing Recruit Representative Membership
- Progressing Link to Dept. Advisory Boards & Alumni Board

Work Plan & Metric (example)

General & Administration Committee

Strategy -> Initiative	Task	Measurement
Maintain Vibrant and Relevant DIAC	• Assess pros and cons	Complete assessment and report finding to the Dean and DIAC
Examine DIAC Expansion to Regional/National	Review benchmark information	Recommend new DIAC members consistent with the plan
	Consider potential DIAC membership composition	Develop and recommend a new meeting format
	Evaluate meeting format changes	
	• V Review Companies hiring graduates	
	Prepare report	

DIAC Membership Composition



What should be the make-up of DIAC?

Organizations

- Diversity (firm size, type, region, technology, cluster/technology intensity)
- Organizations that hire IUPUI graduates & interns (now and future)
- Organizations who employ the central Indiana workforce (now and future)
- Firms whose research and development interest blend with IUPUI
- Organizations considered leaders in their industries
- Individuals and organizations that bring strategic interests to the school
- Organizations that support state initiatives (Life Science, Transportation, Logistics and Advanced Manufacturing)

Members

- Leaders in their companies and community
- Influential within their organization
- A diverse membership that brings insight and different points of view to the School
- Members who are engaged and who demonstrate a personal commitment to the School
- Members that may be affiliated with the school already (alumni, etc.)
- Willing to advocate for the School within their companies and communities

DEAN'S INDUSTRIAL ADVISORY COUNCIL (DIAC)



Research Committee

Research Committee



- Wayne Eckerle Cummins
- Bernie Sepaniak former D&M
- Jorge Schreiber White Arrow Consulting
- Joe Kitterman 180 Skills
- Bill Wylam Electrocore
- Jim Wheeler TP Miller
- Steve Wellborn Rolls Royce
- Daron Dryer Comlux Aviation
- Tom Stephens Raytheon
- Debra Burns IUPUI

Research Committee



Prepared Strategic Research Recommendations for Dean Russomanno

- Identified Issues
- Explored & Identified Candidate Solutions
 - Faculty Focused
 - One Pagers, Capability Map, Industry SIG, Mentorship
 - Industry Collaborations
 - Forums, Industry Needs, Clusters, IABs, Summer Internships
 - Increasing Visibility and Awareness
 - · Engage with various consortia
- Developing Specific Plans
 - Short Term (six months)
 - Medium Term (six months to two years)
 - Long Term (greater than two years)

	Life Sciences	Energy	Advanced Mfg/Transportation	Motorsports	Infrastructure/Buildin gs	Aerospace & Defense	Entertainment (Music/Graphics)	All Sectors
Nanotechnology	Agarwal, Shrestha, Varahramyan		Agarwal, Shrestha, Varahramyan				Ryu	
Artificial Intelligence			Russomanno			Russomanno		
Computing/Machine Learning/Programming	Wu		Chien, J. Lee, Frieje, Fernandez			King	Cox, Deal, Drews, Chuiyuan, Smith	Elliott, Starks
Imaging & Sensor Processing	Christopher, Salama		El-Sharkawy			Christopher, Salama		
Wireless Networks/Security/Encryption			Kim, King, S. Lee, Lin			King		Justice, Feng, Liu
Sensors			Rizkalla					
Controls/Mechatronics/Devices/Neural Science	Berbari, Combs, Yoshida, Schild	Goodman	Y. Chen, Li, Anwar, Yang, Freije, Izadian					
Power Systems		Dos Santos, Rovniak, Izadian, Goodman	Dos Santos, Izadian					
Electro-chem/Batteries/Fuel Cells		Xie, R.Chen						
System Design, Modeling & Analysis				Hylton, Raymond	McLaughlin, Frank			
Modeling/CAD/CAE/CAM/BIM			Acheson	Raymond	Cowan, Nicholson, White			
Materials	Higbee, Lin, Xie	Jones, Zhang	Dillager		Iseley, Koo			
Mechanics/Mechanical	Ji, Na, Wallace, Yokota, J. Chen, Katona, Salehpoor	J. Chen, Fu, Razban, Salehpoor	El Mounayri, Tovar, Wasfy, Durkin	Hylton, Raymond		Wasfy		
CFD/Fluids	Zhu	Zhu	Nalim, Yu, Durkin			Nalim, Yu		
Combustion/Energy Conversion		Schubert, Goodman	Nalim			Nalim		
Manufacturing/Quality/Process Efficiency & Improvements	Rennels	Goodman	Durkin, Silvian, Yearling					
Education/Instruction/STEM		Huffman	Tabas, Diemer, Feldhaus, Little-Wiles, Mott, Sorge, Worley, Fernandez		Nicholson, Frank		Shayesteh, Bailey, Choe, Cooney	
Entreprenership								Jafari, Zhao
Behavioral/Leadership/Human Resources/Training	Burns, Christie	Fox	Hundley, Egan, Markoff, Wolter					
IT/Graphics/Technical Communications	Renguette		Hovde, Renguette, Worley				Munson, Baldwin, Guan, Guy, Rogers	
			Nicholich	Finch	Ray			

Research Committee

Research Areas	History/Background and Evidence of Effectiveness/Capability	Peer and Aspirational Benchmark Programs or Institutions	Future Trends or Direction	Potential Collaborators and/or Sources of Support/Funding
Health & Life Sciences				
Advanced				
Mfg/Transportation				
Information Technology				
STEM Education				
Renewable and				
Alternative Energy				
Aerospace & Defense				

DEAN'S INDUSTRIAL ADVISORY COUNCIL (DIAC)



Diversity Retention and Recruitment

Cindy Munerol



A PURDUE UNIVERSITY SCHOOL

- Membership (combined two sub-committees)
 - Cindy Munerol, Chair Former AT&T
 - Vince Newsom Delphi
 - Clayton Nicholas IUPUI
 - Chris O'Keefe Ernie Greene Industries
 - Neal Montour Belcan
 - Terri Talbert–Hatch Asst. Dean Student Services
 - Julie Ji IUPUI
 - Darrel Nickolson IUPUI
 - Student Representatives from NSBE, SHPE and **SWE**

Diversity Recruitment and Retention



Focus for 2014

Targeting increased enrollment and retention of females with three pronged strategy.

- Website Improve ET Website to attract young female students. Template currently under review.
- Programming- Effort to retain current students in E&T programs. Connection event is the first item in this area. Also looking at increasing involvement in SWE, tutoring, etc.
- Recruitment –Work with Admissions office to purchase additional data lists for recruiting. Target females on visit days. Obtain historical data to establish baseline. Multiyear effort with long-term payoff.

Diversity Recruitment and Retention



Status

- Met on January 29 and meetings are scheduled through July of 2014
- Connections Event held February13
 - Total of 60 students and alumni at event
 - Tours of Tower
 - Great event for interaction between students and alumni
- Check out the posters in hallway outside the Student Services office in the ET Building.
- Working to get historical data for measurement purposes
- Meeting set with Office of Diversity, Equity, & Inclusion director in April

DIAC Student Support Committee

DIAC STUDENT SUPPORT COMMITTEE



Membership

- Jill Mendoza i.d.o. Inc.
- Sohel Stanbouly Carrier
- Mike Martin Lilly (New Assignment in China)
- Bruce Wylam Hunt Construction
- Bill Klenk Allison Transmission
- Dale Jacobs BSA LifeStructures
- Sam Reed BSA LifeStructures
- Terri Talbert–Hatch Asst. Dean Student Services
- Jennifer Williams E&T Career Services Specialist

Student Support Tommittee Goals/Activity



- Increase the number of opportunities for student interaction – Develop a DIAC communications plan
- Increase the number of opportunities for internships or recruitment with DIAC member firms
- Make proposals on how to improve "marketability" and employment opportunities for students with 2.6 – 2.9 GPAs – Mentoring for GAP Students
- Make proposals and implement a more robust process for bringing together students and potential employers in areas outside of Engineering & Engineering Technology.
- Coordinate efforts with DIAC Diversity, Recruitment & Retention Committees



Mentoring for Gap Students

Purdue School of Engineering and Technology, IUPUI

February 27, 2014

Mentoring for Gap Students



Emphasis on careers with Industry Coach Office of Career Services held call outs Six (6) Students expressed interest

- 1 Computer Graphics
- 1 Motorsports
- 1 Biomedical
- 1 Energy
- 2 Mechanical

Career Coaching Program Expectations



Industry Partner Profile aka "Your Elevator Speech"

February 27, 2014



Industry Partner Profile

- One of the best testimonials for the School comes from a member of industry.
- Members of industry have great reach within the community, professionally and socially.
- Your charge is to develop a brief "elevator speech" which succinctly describes your positive experience with the School of Engineering & Technology
- We will post on the School website, possibly make up a small brochure and use for promotion of the School when recruiting students, faculty, industry partners, research collaborators, etc.



Industry Partner Profile

Your favorable impression can come from:

- Your experience as a recent student
- Your experience with our interns or graduates as an employee, a supplier, a customer or a colleague
- Your experience sponsoring student projects
- Your experience collaborating on research
- Your experience serving on a DIAC Committee or attending School events
- Your knowledge of relatives or neighbors who went or are attending the School
- Your visibility into IUPUI and the difference it is making in the community
- Your knowledge of our faculty and a positive impression that they may have made on you or someone you know



Industry Partner Profile

We will need:

- A photo of you (.jpeg file)
- Your brief elevator speech or bullets
- A photo of your product or project or company (.jpeg file)
- A brief write-up of your company
- A short bio on you
- A few bullets mentioning your education or accomplishments

See examples!

IUPUI

SCHOOL OF ENGINEERING AND TECHNOLOGY

A PURDUE UNIVERSITY SCHOOL

Industry Profile

Frank St. John

President and Founder, Applied Engineering Services

"The new IUPUI is not your father's IUPUI."

You are missing the boat if you have not recently visited the IUPUI campus or interacted with one of their faculty members, engineering graduates, or co-op students.

Let me know if you want to learn more about their research capabilities, engineering programs, or co-op opportunities. I would be pleased to connect you with the appropriate faculty member at IUPUI.



Engineering Better Lives Technology that Drives the Future

Company

Applied Engineering Services is an engineering solutions company providing mechanical, electrical, and instrumentation engineering services for the industrial, health care, higher education, and government markets since 1998. The goal and focus of Applied Engineering Services is to provide superior engineering services by utilizing a time-proven approach for delivering the right engineering solution for each project.

Mr. St. John has over 35 years of consulting engineering experience. He has been involved in numerous utility-related studies, master plans, and design projects involving chillers, pumps, cooling towers, air compressors, boilers, and heat exchangers. In addition, he also has extensive experience with a number of facility expansions and renovations for industrial, hospital, and higher education clients that have required HVAC, fire protection, plumbing, power, lighting, telecommunications, and building commissioning. As president of the firm, his current responsibilities include office operations, marketing, project management, and technical support.

Advisor

- · Registered Professional Engineer IN, OH, IL, MD, MI, AL, CA, TX
- · LEED Accredited Professional
- Purdue School of Engineering and Technology, IUPUI, Alumnus of the Year, 2012

Education

Bachelor's of science degree in interdisciplinary engineering (mechanical option),
 Purdue School of Engineering and Technology, IUPUI



IUPUI SCHOOL OF ENGINEERING AND TECHNOLOGY

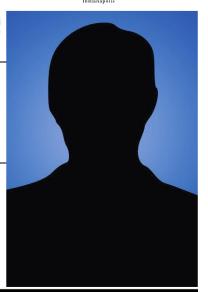
A PURDUE UNIVERSITY SCHOOL Indiananolis

Industry Profile Profile

Bill Klenk

Executive Director Off Highway and Hybrid Electric Products, Allison Transmission, Retired

- Last year Allison employed more interns from the Purdue School of Engineering and Technology, IUPUI than any other institution
- Our experiences with the interns from IUPUI has really exceeded our expectations
- The IUPUI interns match up very well with students from all other engineering schools



Engineering Better Lives Technology that Drives the Future

Company

Allison Transmission is the premier global provider of commercial-duty automatic transmissions and hybrid propulsion systems. The quality and reliability of an Allison transmission is unrivaled, as is our commitment to our customers, investors, employees and the communities around the world in which we live and work. Throughout our long history, Allison Transmission has been a leader in innovation, creativity and continually pushing toward new advances in technology. Our heritage, starting in 1915 with James Allison, has been strong and steady throughout the decades that we've been creating fully automatic transmissions. We were there from the beginning, with the invention of the world's first heavy-duty automatic transmission, and even now Allison is the premier designer, developer and manufacturer of medium- and heavy-duty fully automatic transmissions and hybrid propulsion systems.

Advisor

- · Received 2004 SAE Sid Olsen Engineering Manager Award
- Member of the Dean's Advisory Council, Krannert School of Management, Purdue University
- Member and former Chair, Dean's Industrial Advisory Council, Purdue School of Engineering and Technology, IUPUI

Education

- Bachelor's of science degree, Purdue University, Krannert School of Management
- Graduate of Lacy Leadership Program
- · Graduate, University of Michigan Executive Development Program





Dean's Report to the DIAC

Purdue School of Engineering and Technology, IUPUI

February 27, 2014

Wrap-Up



Important Dates 2014

- February 27, Thursday: DIAC Meeting, 1:45 3:30 p.m.
- April 4, Friday: School of Engineering and Technology Honors Convocation & Dinner, Crowne Plaza at Union Station
- May 15, Thursday: DIAC Meeting, 3:30 5:30 p.m.
- September 15, Monday Afternoon: Alumni Golf Outing
- October 3, Friday: Joint Board of Advisors Retreat, 12:00 p.m. –
 4:00 p.m.
- December 4, Thursday: DIAC Meeting, 3:30 5:30 p.m.

Thank You For Your Continued Contributions!