New Endowed Gifts Expand Department’s 2013 Scholarships

Thanks to an alumnus and a department professor, two new $1,000-a-year annual scholarships are helping CEIT students achieve their educational goals.

Dan Churchward graduated from IPFW in 1988 after spending eight years as a part-time student. While he was going to school he was also holding down a full-time job as a forensic engineer involved in fire investigations. Dan was able to use his education as a foundation in building his own company; Kodiak Enterprises, Inc., which serves the legal, manufacturing, and insurance communities throughout the United States and abroad.

In an effort to recognize the impact that IPFW and the Department of Computer, Electrical, and Information Technology (CEIT) have had on their lives and business successes, Dan and his wife, Vicki, established the Vicki and Dan Churchward Endowed Scholarship which will generate one $1,000 scholarship for a CEIT student majoring in EET or CPET. Dan says the department served as a mentor to him when he was a student, and still serves as a technical resource for his company’s needs.

Dr. Hal Broberg and his wife, Hope, have established The Hal and Hope Broberg Endowed Leadership Scholarship, which will also generate an annual $1,000 scholarship for CEIT majors.

Before coming to IPFW nearly 30 years ago, Broberg served for 27 years in the U.S. Marine Corps, where he developed his leadership skills. He said his years at IPFW give him confidence that our students “…are not only intelligent, but can be leaders in their fields and in life.”

Students interested in these or other scholarships should complete the Common Scholarship Application found at http://new.ipfw.edu/financial/scholarshipapp.html by February 1.

The mission of the department is to offer high-quality undergraduate, graduate, and certificate programs in the areas of CPET, EET, and IT. These programs meet regional needs and include credit and noncredit education in areas related to electrical, computer and information technology. The department seeks to advance and share technical knowledge through teaching and creative endeavors, and to work with regional industries to develop and increase technically knowledgeable human resources.
More than 1,000 IPFW students, faculty, staff, alumni, and friends took part in the second annual BIG Event, serving 46 community agencies in Fort Wayne and Allen County last March 23rd.

Thirty-five of those volunteers, from CEIT and Theta Tau fraternity, spent the day at Community Harvest Food Bank helping to replenish cupboards of more than 700 families.

When the volunteers arrived at the food bank early that Saturday morning, clients had already formed a line that snaked throughout the parking lot. Families received food staples such as potatoes, vegetables, bread, milk, and eggs.

This is the second year CEIT has participated in the BIG Event, last year, 29 volunteers spruced up Fort Wayne's Boys and Girls Club. See pictures below.

Outstanding Senior Design Projects

### Spring 2012
- Chuck Craft
- Wind Speed Data Logger
- Clement Fingerle
- Minesweeper Game Interaction

### Fall 2012
- Brad Sorensen and Kory Martin
- Android Smartphone-Based Golf Statistics Tracker App
- Patrick Grawcock
- Renewable Energy Trickle Charger

### Spring 2013
- James Schurger
- Integrated Hydrometer System for Fermentation Testing and Control
- David Campbell and Christopher Stump
- Digital Spring Tester

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2013 - 14 Scholarship Recipients

- **Drew Baumgartner**
  - Fred Zollner Foundation
- **Austin Christman**
  - Fred Zollner Foundation
- **Austin Deventer**
  - Vicki and Dan Churchward Endowed Scholarship, Armed Forces Communications and Electronics Association
- **David Karn**
  - Fred Gideon Memorial Scholarship
- **Michael Roth**
  - Armed Forces Communications and Electronics Association
- **James Schwartz**
  - Armed Forces Communications and Electronics Association
- **Joshua Vancamp**
  - Hal & Hope Broberg Endowed Leadership Scholarship

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2012 - 13 Scholarship Recipients

- **Jason Mack**
  - Armed Forces Communications and Electronics Association, Adam Frisby-ITT Exelis Communications, Force Protection Systems
- **Patrick Maina**
  - CEIT Leadership
- **Michael Roth**
  - Fred Gideon Memorial Scholarship, Fred Zollner Foundation
- **Kenneth Billingsley**
  - Indiana Michigan Power

NOT PICTURED: **Christopher Bellis**
- Fred Zollner Foundation, **Nathon Schaefer**
- Armed Forces Communications and Electronics Association, Fred Zollner Foundation.
What We Have Been Up To

Gary Steffen—chair and associate professor, teaches, advises, schedules, plans, records and reports. He notes that Indiana has passed legislation limiting associate degrees to 60 credits and bachelor’s degrees to 120 credits and says changes are also imminent to the General Studies requirements. These revisions have required the CEIT department to review existing programs.

Hal Broberg is back to full-time teaching and is focusing on his Introduction to Microcomputers (8 and 16 bit microcontrollers) and his Digital Signal Processing course (16-bit Texas Instruments DSP chips). He is also developing new labs using 16 and 32 bit microcontrollers using a piezo buzzer, a rotary encoder, a serial to USB connection, a temperature sensor, and a capacitive touch panel.

Iskandar Hack continues to teach courses in digital electronics and microprocessors for CEIT while also serving as chair of the Department of Manufacturing and Construction Engineering Technology and Interior Design.

Paul Lin Teaches both undergraduate and graduate level classes. He coordinates Senior Design Phase II and works closely with Senior Design Phase I. He designed and taught ITC 250 Web Systems; redeveloped CPET 565 Mobile Computing System, with Android-based course projects; designed and taught the new course CPET 581 Cloud Computing: Technologies and IT Strategies.

Professor Lin is also an integral part of an Army research contract on "Nano Sol-gel Corrosion Monitoring System," procured by Dean Max Yen. The team deployed the Army sponsored Corrosion Monitoring at Rock Island Arsenal Bridge, Illinois/Iowa.

Hongli Luo worked diligently teaching, advising and preparing her case for tenure, which she received last spring along with a promotion to associate professor.

David(Omonowoh) Momoh presented two papers at 2011 IEEE SoutheastCon and chaired the Electromagnetics and Microwave session. Two of his journal papers were published in IEEE Transactions on Magnetics. Momoh has developed a course on renewable energy technology and management and laboratory experiments for Electrical Power and Control course (ECET 231). In addition, he visited the Power Electronics and Drives Laboratory of the Center for Energy Systems Research (CESR) of Tennessee Technological University, Cookeville, Tennessee to further his research.

Michelle Parker geared up for the launch of the IT program; developed new courses such as Fundamentals of Information Technology and SQL Server Database courses; reviewed book chapters for operating systems and business process management textbooks; and advised all IT majors.

Laverghetta Records # 2,000

In 1992 Professor Tom Laverghetta began the innovative concept of recorded classes for Indiana & Michigan communications technicians. Back then the sessions were videotaped; VHS copies were made of the master tape, which were then distributed across Indiana. It wasn't too long before the classes were being aired on CATV, the college access channel, housed at IPFW.

Over the years, Laverghetta has seen an evolution in technology in the TV classroom from VHS to DVDs, overhead boom microphones to wireless ones, even having two people operating cameras in the classroom to fully automated ones. He says students find it is a good teaching method that fits well into their schedule. He does note one drawback: the inability of the students to ask live questions during the lecture. Instead, they have to call or email questions to him in his office.

Earlier this year, Laverghetta hit a milestone when he recorded his 2,000th lecture in the TV classroom in the basement of Helmke Library. He said “...many times the tapes begin with me laughing, since I was talking and joking around with the students before class. I think we have seen it all during those 2,000 sessions.”
Industrial Advisory Committee
CEIT’s Link to the “Real World”

The CEIT Industrial Advisory Committee (IAC) represents organizations that employ graduates, acts in a leadership role in the future direction of Computer, Electrical and Information Technology education, and advises the department in establishing, achieving, and assessing its goals. The committee meets annually to review program curricula, student outcomes, and program educational objectives, and to provide advice on current and future needs in the technical fields in which graduates are employed. Many committee members are IPFW alumni.

IN CONTACT
We always enjoy hearing from alumni. Call or email your favorite professor; like us on Facebook www.facebook.com/ipfw.ceit; peruse our webpage www.ipfw.edu/ceit; and remember to send us a current business card!

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Medical Protective hosted the 2013 IAC meeting. Front: Wayne Erxleben-UTI, Todd Shinabarger-Vera Bradley, David Threm-Exelis, Al Taylor-AEP, Randy Brock-BAE Systems
Back: Tom Groves-Lutheran Health Network, Mike Kanning- MedPro, John Mergy-Do It Best, Atahar Saldar-Frontier Communications, Rod Klinger-BAE systems