Tech talk

News and information for the technical and professional community.

Fall 2008

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- Lab Expansion
- K-12 Outreach Programs
  A Year of Firsts

College of Engineering, Technology, and Computer Science (ETCS)

Indiana University–Purdue University Fort Wayne
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IPFW is an Equal Opportunity/Equal Access University.
“...to provide valuable learning experiences for our students, we now have a total of four research Centers of Excellence within the College, focusing on the Built Environment, Industrial Innovation and Design, Systems Engineering, and Wireless Technology.”

Dear Friends,

I am very happy to report that IPFW’s College of Engineering, Technology and Computer Science substantially advanced in a number of key dimensions during the past year.

We were fortunate to hire outstanding new leaders, including Donald Mueller as Chair of Engineering, Peter Ng as Chair of Computer Science, and Gary Steffen as Chair of Computer and Electrical Engineering Technology & Information Systems and Technology (or CEIT, formerly the ECET Department).

Todor Cooklev joined us on July 1st as the Founding Director of the IPFW Center for Wireless Technology.

Moreover, the faculty of the Division of Organizational Leadership and Supervision – chaired by Kimberly McDonald – voted for their academic unit to become part of the College as of July 1, 2008. In addition, the Army ROTC and Military Science program at IPFW became an academic unit within the College.

We also launched the new M.S. degree in Engineering (with concentrations in computer, electrical, mechanical, and systems engineering), which now joins our other graduate degree programs in Computer Science, Engineering Technology, and OLS.

Enrollments continued to increase, with the total number of majors within the College rising by 3.1% between Fall 2006 and Fall 2007, while the total number of credits hours expanded by 2.8%.

Another vital growth area was in the scholarship funds provided by our generous benefactors from throughout northeast Indiana. This year, we were able to distribute nearly $180,000 to deserving students – a new record for the College!

Laboratory and office space also is increasing as we expand our operations to campus locations beyond the ETCS Building, including a new civil engineering facility in the former IPFW physical plant.

Scholarly productivity and external research funding also are on the rise, thanks to the dedicated efforts of the faculty. To help support these efforts and – more importantly – to provide valuable learning experiences for our students, we now have a total of four research Centers of Excellence within the College, focusing on the Built Environment, Industrial Innovation and Design, Systems Engineering, and Wireless Technology.

Linda Hite (OLS) and Hossein Oloomi (ENGR) were both promoted to Full Professor, while Gary Steffen (CEIT) earned both tenure and promotion to Associate Professor.

The ETCS Outreach Office, led by Carol Dostal, continued to expand the number and scope of community-wide K-12 programs, while our Student Success Center under the direction of Sarah Merchant launched several new initiatives to benefit our ETCS majors.

And now … onward to 2009!!
**IPFW Alumnus Named to IT Leaders List**

Congratulations to Neal Puff, class of 1986, who was recently named to the 2008 Premier 100 IT Leaders list compiled by Computerworld. The annual list selected by Computerworld “honors the best information technology executives who have led their organizations by mentoring and motivating employees, envisioning innovative solutions to business challenges, and effectively managing and executing it strategies.”

Puff was chosen from more than 800 nominees for the list.

In a letter to Associate Chair of Computer Science Bob Sedlmeyer, Puff said, “The time I spent at IPFW was instrumental in shaping who I am and in helping me to achieve the success I have enjoyed in both my professional and personal life.”

The selection process for this honor involves measuring applicants against Computerworld’s IT Leadership Index, “a set of characteristics that describes executives who guide the effective use of IT in their organizations.” Professional references for each candidate are questioned during the evaluation process, and a final panel of Computerworld editors and outside judges makes a decision based on all the compiled information. Puff, who is Yuma County’s chief information officer, attributes his success to his staff and county officials, in addition to Yuma County’s use of virtualization technology, an advance that “improves the county’s response time and reduces cost to deliver county services” (portions of this article were excerpted from the Yuma Sun, Dec. 13, 2007).

**IPFW Student Wins Google Campus Model Contest**

Before he graduated with two degrees—Bachelor of Science in both Electrical Engineering and Computer Engineering—from IPFW in spring 2007, Joe Kiszka presented his Advanced Computer Graphics project, a 3D model of the IPFW campus which included 22 buildings and the Willis Family Bridge. Associate Professor Elizabeth Thompson said, “He did an outstanding job, and we are not at all surprised that he won the Google campus building contest.”

Seven winning teams were selected from 4,000 entries in the Google Build Your Campus in 3D Competition. IPFW was chosen, along with the University of Minnesota, Purdue University, Concordia University—Loyola Campus, Stanford University, Franklin W. Olin College of Engineering, and Dartmouth College. Winners spent three days at the GooglePlex, and their work will be added to Google Earth’s 3D layer. Joe’s 3D models of IPFW may be viewed at the contest’s official Web site, http://contest.sketchup.com, or at Google’s 3D warehouse, http://sketchup.google.com/3dwarehouse, as a part of a featured collection. Additionally, a video of the winning campuses in Google Earth is viewable on the Google Earth weblog, www.gearthblog.com.

Joe commented, “I am pleased to bring recognition to the Engineering and Computer Science departments at IPFW, not only because of the stellar educational experience I received, but to thank my teachers for their help and support.”

Kiszka is currently employed at the Belden Cable and Wire Company in Richmond, Ind.

*Archived news release, written by Louise Teague*
ALUMNI SPOTLIGHT

In his own words....

CHRIS DUNN:
DEPARTMENT OF COMPUTER SCIENCE
LIMITED-TERM LECTURER

M.S. in Computer Science, IPFW, December 2006
B.S. in Computer Science, IPFW, May 2005
Microsoft Certified Systems Engineer for Windows 2000/XP, May 2001

“When I started my undergraduate work, I never would have guessed that I would be starting a Ph.D. program. In fact, there was even a time when I was considering whether to even pursue an undergraduate degree. Ultimately, I found inspiration in the faculty of the Department of Computer Science. I can honestly say they profoundly—and for the better—changed my life. And for that, they have my deepest gratitude. It was their guidance and inspiration that helped me to gain acceptance in a Ph.D. program. Now, I am taking a major positive step in my life, and I am looking forward to working towards and obtaining a Ph.D.”

“Being a teaching assistant inspired my interest in teaching. I found I enjoyed it very much, and that became one of my motivations to pursue a Ph.D. I got to know the faculty and befriended them. Then, I got involved in an undergraduate research project. Upon graduating, I spent the summer working in the R&D division of Lieca Geosystems, and then I applied for master’s programs. The program at IPFW is quite reasonable. Many of the courses are comparable to those at other universities, and it offers many valuable opportunities to people who look for them.

If I had to give advice to upcoming students, whether undergraduates or graduate students, it would be to get involved. Get to know the faculty, push yourself, and seek out opportunities. Having now watched quite a few people I once taught graduate, I can say those who did the best and gained the most are those that got to know the faculty and teaching assistants. It changed my life for the better, and I am very glad that I had the opportunity to get to know the faculty here at IPFW. As I said before, they have my deepest gratitude for their efforts, inspiration, and help.”

GARY STEFFEN
Associate Professor of Electrical and Computer Engineering Technology (ECET) Gary Steffen has been appointed as chair of the IPFW Department of Computer and Electrical Engineering Technology & Information Systems and Technology. CEIT is a reconfigured department consisting of the ECET Information Systems, and forthcoming Information Technology programs. Steffen, a 1989 IPFW alumnus from the Department of Electrical Engineering Technology, has worked at IPFW for 20 years in varying roles of administration and instruction.

Gary Steffen

Printed circuit board made in CEIT lab
Suining Ding, ASID, IDEC, assistant professor of interior design, mentored a team of IPFW and Heritage High School students for the first “CANSTRUCTION” competition in Fort Wayne. Many local high schools participated with sponsors from universities and local design firms. IPFW is the sponsor for Heritage High School.

The theme of the competition was the City of Inventions. Ding’s team decided to build “Gas Pumps” for their project. Ding mentored the team to utilize color design principles in selecting labels on cans, as well as to apply building structure theory to make sure that the “Gas Pump” was safe and stable. The gas pump structure looks simple, but additional supporting and bounding systems were needed.

Ding met with the team on a weekly basis to discuss the possible solutions and to make sure that the project was on the right track to meet the deadline.

The competition took place at Glenbrook Mall, and each team was required to complete building their projects within a single day by using cans that were collected by donors. After almost three months of effort and a weekend pre-build exercise, the team won the “Best of Theme” award. More importantly, Ding’s team raised almost 4,000 cans for Fort Wayne’s Community Harvest Food Bank to help area hunger.

The Department of Computer Science recently received a $5,000 gift from Raytheon Net-Centric Systems for support of the CS 360 Software Engineering class. The funds from this grant will be used to support specific CS 360 software and materials. It will also provide general support to the CS department for hardware and software in related courses and projects. Some of the funding will also enable student software teams to showcase their projects in state and regional conferences.

CS 360 is designed specifically to enable computer science majors to participate in realistic software development experiences. It is part of a two-course sequence which covers the breadth of software engineering and professional ethics. It consists of a year-long team project for an external customer. Students gain experience with lifecycle activities and hone their communication skills through formal presentations, reports, and user interaction. Students also research and present an advanced topic in software engineering.

CS students at IPFW completed two Raytheon projects named Battlespace Widgets. These projects utilized an emerging technology, widgets, to create applications that displayed and manipulated unit and weapons targeting.
information using a small window display and processing footprint. The results of these CS senior projects are now being used and demonstrated at the Raytheon MSI Capability Center in Fort Wayne.

**SUSTAINABLE HOUSE**

Regina Leffers, (MCET) and her CNET 348/448 students did an outstanding job with the sustainable house design, build, and DVD project! Students in the two-semester senior capstone class, enrolled in the Construction Engineering Technology program, have collaborated with members of the Northeast Indiana Green Build Coalition and Habitat for Humanity to design and build a sustainable residence. The groundbreaking took place on March 8, 2008, and the house was completed in April. Habitat has long wanted to produce sustainable homes and to support that end, Leffers is producing a DVD of this design-build process for Habitat for Humanity’s use throughout the United States. This project has not only been extremely instructive for students but has also made a deep contribution to our society by furthering our knowledge of sustainable design and construction, and providing a national model for such housing.

**“BIG BOY” GRENADE**

Jihad Albayyari, associate dean of the division of engineering and technology, was awarded $5,000 to work with Tippmann Sports on improving the design of the atomic ordinance “Big Boy” grenade, which features a large loop to hook these grenades to a belt or vest. There is no pin to pull. This baseball-sized missile releases 10 ounces of paint on impact. The grenades have the highest detonation rate in its class. His work resulted in reducing the production cost of the grenade and reducing the strain on the assembly workers fingers that is caused from tying the tube into a knot.
A unique collaborative work between students in the Division of Organizational Leadership and Supervision (OLS) and engineering students enrolled in the senior design course was piloted last spring. The OLS majors were enrolled in a junior level course, OLS 324: Advanced Word Processing, Desktop Publishing, and Presentation Graphics, and worked with engineering senior design teams on developing multimedia presentations and posters. These presentations and posters highlighted the various design steps and the final prototypes of their senior design project.

The collaborative project with the engineering students provided OLS students with an opportunity to use their newly acquired technology skills with their organizational, leadership, and communication skills in a service-learning type of experience that required them to create presentation materials for a client. Each engineering design team, which had on the average four students, became in effect a “client” of an OLS student for the purposes of marketing their prototype and disseminating the results of the project to a technical and non-technical audience.

The engineering students benefited by being asked to explain their project to the OLS partner student who does not have a technical background. The planning sessions they had gave both sides an appreciation of each other’s field and how each side saw the task or project being developed. This pilot project provided the engineering students with an opportunity to improve their communication skills, as they had to explain their project to a non-technical audience.

The OLS students benefited from the experience of working in a non-OLS team. These students take several courses covering teamwork dynamics, but their previous team assignments were always with other OLS majors. This project put the students in a situation that challenged them to work outside of their content knowledge base. This was a very new experience for them and is more comparable to what they will find in the workplace.
Faculty News

GIVING HEARTS HONOR ROLL

Dina Mansour-Cole, associate professor of OLS, was recognized on the Giving Hearts Honor Roll, presented by the Northeast Indiana Chapter of the Association of Fund Raising and Philanthropy Professionals, for work her innovative with the Girl Scouts of Limberlost Council.

MIKE FRUCHEY, CONTINUING LECTURER

Continuing Lecturer Mike Fruchey comes to the MCET department from the City of Fort Wayne Transportation Section. Over his 13 year tenure with the City of Fort Wayne, Fruchey served in many capacities, including seven years as Associate Director of Transportation Engineering. During this time, he professionally reviewed over 500 residential road plans, totaling over $10 million of infrastructure improvement for the citizens of Fort Wayne. Fruchey said, “I am really excited about relating my experiences in municipal engineering to our students and preparing them for exciting careers in the construction industry.” He has been a professional engineer in the State of Indiana since October 2000 and has a master’s degree in physics from Ball State University.

A NEW ERA FOR CAREER DEVELOPMENT AND HRD

Linda Hite and Kimberly McDonald (OLS) served as editors for an issue on career development appearing in Advances in Developing Human Resources. They wrote the introductory article entitled “A new era for career development and HRD” and reported the results of a study in the article entitled “The next generation of career success: Implications for HRD.”

FAILURE CORRELATION ANALYSIS

Bimal Nepal, assistant professor of industrial engineering technology, was awarded $5,200 from Water Furnace International for a warranty data analysis project. The primary objective of this study was to analyze the Water Furnace database of warranty claims and create a model to find cause-and-effect correlations for identified product issues. The project included development of statistical model and analysis of:

- Failures by key identifiers such as component, model, geographic location, date, etc.
- Correlation of multiple failures

Unbiased and advanced statistical analysis of the warranty database helped the company with identification of indicators of claims and improvement in warranty performance, resulting in a reduction of direct cost to the company associated with these types of claims. Failure correlation analysis has provided a new insight in discovering the accurate causes of failures and eliminating them.

YOO RECEIVES $7,000 IPFW SUMMER GRANT

Jin Soung Yoo, assistant professor of computer science, has been awarded a $7,000 summer faculty grant by IPFW. Yoo’s research will focus on developing data mining techniques to identify social networks in which people interact closely in both space and time. The identification of such social networks is important within many application domains such as homeland defense, public health, business, and ecology.
ETCS K-12 Outreach: A Year of ‘Firsts’

ETCS Outreach has had an exciting year of ‘firsts’ as a direct result of dedicated community and IPFW volunteers. The following programs involve over 40 ETCS volunteers who make a difference in serving our community. A few highlights include:

For the first time... the Bridge Building Contest was Combined with the ETCS Open House to create an exciting event during Engineers Week. Visitors to the Admissions and ETCS Student Services Open House watched the bridges being tested by Suleiman Ashur (ENGR) who worked with Engineers Week volunteers. In addition, Pablo Reynaldo (MCET) offered support at the middle school contest held at Science Central.

For the first time since 2002... a Fort Wayne Community School wins the Indiana Regional Future City Competition.

Teacher Nick Balmoria and engineer-mentor Morris Wachle guided the Blackhawk Middle School team through the five-phase competition to be Regional Champions. IPFW judge coordinators vital to the competition included Bruce Franke (MCET) and John Stafford (Community Research Institute). The Blackhawk team then traveled to the National Future City Competition in Washington D.C. during Engineers Week. Another ‘first’ this year was the use of Future City as a part of the curriculum in a Project Lead the Way middle school class from Princeton, Indiana.
Indiana had SIX FIRST Lego League Qualifying Tournaments
with IU—Northwest coming on board as the sixth tournament. In the fall, 136 Indiana teams registered to compete with 48 advancing to IPFW for the Championship Tournament sponsored by ITT Industries. As the Indiana FLL “Partner,” Carol Dostal, director of ETCS outreach, is liaison between the FIRST organization and the Indiana tournaments. IPFW hosts the Indiana Championship Web site, which is maintained by Caryl Spira (Outreach), sets up precise competition tables overseen by Jason Davis (ETCS), and organizes the statewide registration with technical support from Mike Pressler (ETCS). At the Championship Tournament—for the first time—two FLL teams tied for first place in robot performance with perfect scores. Don Mueller (Chair of ENGR) acted in the role of Co-head Referee for the third year and was awarded an FLL Volunteer Award. This year, Indiana will have two teams at International FLL events. The Championship Award winners, ZBOTS, from Fort Wayne, will attend the International FLL Invitational in Minnesota; and Central Space Lab One, from Kokomo, will attend the World Festival in Atlanta. Central Space Lab One was chosen by FIRST following a nomination by Carol Dostal as one of the 10 teams worldwide to represent FLL Core Values. Indiana teams truly stand out in the world of FIRST Lego League robotics!

For the first time...

the Middle School Career Day begins its 2008 program

with an excellent large group presentation by Scott Moor (ENGR). This two-day offering, under the leadership of Elizabeth Thompson (ENGR) working with ETCS Outreach, will bring 340 students and 60 adults on campus to hear six ETCS faculty volunteers offer presentations in their career fields.

A Year of Firsts continued on p.15
**Lab Expansion**

The College of Engineering, Technology, and Computer Science is currently upgrading and establishing new labs to meet the needs of the new Civil Engineering program together with those of the growing Civil Engineering Technology and Construction Engineering Technology programs. The total available space for the new expansion is about 4,000 square feet in the former Physical Plant facilities at IPFW and will be developed in several stages. The first stage is to establish a “Student Project Lab” of about 1,400 square feet for students to use in building their senior design projects and/or extra curricula competitions such as MiniBaja, Concrete Canoe, and Steel Bridge. The first stage has been completed and currently is used by senior design students to build the MiniBaja car as shown in the photo (left). More details are available at: http://ipfwbaja.com/default.htm.

The second stage of the project just started and includes moving and upgrading the materials lab from the ETCS building to the new space. The new facility will include a multipurpose classroom area, materials and structure lab, and asphalt testing lab. The multipurpose room will be used for lectures, team projects, and report preparations. The materials lab will include upgraded equipment. The asphalt lab will be developed in the final stage with equipment for sample preparation and mixing, together with binder and mix design testing.

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**Certified Supply Chain Professional**

APICS has developed the first comprehensive educational program designed for operations and supply chain management professionals – the APICS Certified Supply Chain Professional (CSCP). The program will help you develop into a supply chain leader who can create and execute a supply chain strategy that meets customers’ needs, reduce costs, and increase profits. The 40 hours of instruction will take a broad view of the field, extending beyond internal operations to encompass the entire supply chain – from the supplier, through the company, to the end consumer. The program provides professionals with the knowledge necessary to understand and manage the integration and coordination of activities within today’s increasingly intricate supply chains. You may use this course as preparation for the CSCP examination. Classes are designed around the CSCP curriculum but they do not assure participants successful completion of the CSCP examination.

**Course Highlights:**

- Learn how to design a successful supply chain strategy
- Effectively managing supplier and customer relationships
- Recognize how logistics, technology, and data can enhance performance
- How to seamlessly incorporate all processes to increase customer satisfaction and improve bottom line

**08FBUS357**

Class meets one Saturday per month:
Nov. 1, and Dec. 6, 2008, and Jan. 31, Feb. 28, and March 28, 2009
8 a.m.–4 p.m.

**Cost:** (Fee includes textbooks)
$1,500 APICS members
$1,800 Non-members
4.0 CEUs

To register, call Continuing Studies at 260-481-6619
The new facility will serve all materials, asphalt, and construction courses offered to all students in the civil engineering, civil engineering technology, and construction engineering technology programs.

**First Year Engineering Space**

In the past year, we have redesigned and renovated one of our key classroom/laboratory spaces. This new space was designed for using multiple modes of instruction and for moving a class quickly from one mode of learning to another. The facility allows for quick small-group activities, simple laboratory experiments, computer work, simulation, and mini-lectures. It was particularly designed with the needs of our first-year program in mind.

The space was renovated from a 30-foot by 24-foot Computer Engineering laboratory (room ET 311). The renovated space consists of four clusters designed to seat six students each. One wall of the room has a laboratory bench and storage. Each cluster consists of a fixed trapezoidal center for computers and services. On three sides of this central core are three trapezoidal tables where students work. Two computers are included in each core with their monitors on support arms allowing easy movement. Computer connections are accessible at the desktop. In addition, each cluster includes electric power, water, and compressed air. Students break into groups of three for computer work and can break into groups of two, three, four, or six for other activities. When not in use for formal classes, students use it as an informal learning space.

This facility, together with the renovated computer laboratory next door, forms the home for our first-year engineering program.
MASTER OF SCIENCE IN ENGINEERING

Last year’s approval of the Master of Science in Engineering (M.S.E.) program by the Indiana Commission for Higher Education (ICHE) permitted the Department of Engineering to inaugurate its graduate program. As of October 2008, 27 students had been admitted into the program and more than 20 prospective students had initiated graduate applications.

Eighty-five percent of our newly enrolled engineering graduate students are currently employed by local companies, including Raytheon, ITT, Underseas Sensors Systems, Zimmer, GE, Barton-COE-Vilamaa, Logikos, and International Truck in Fort Wayne. Our students are pursuing concentrations in mechanical, electrical, computer, and/or systems engineering.

This spring, we are offering graduate courses in wireless communications, engineering economics and systems architecture. In addition, some of our students are enrolled in graduate mathematics and applied computer science courses. Next fall, the Department of Engineering is planning to offer graduate courses in systems engineering, engineering management, embedded systems, and heat transfer.

The initial level of interest in the M.S.E. degree program demonstrates that we are offering local companies relevant workforce development resources and expanding IPFW support of regional economic development.

Graduate certificate in systems engineering

A new development in our graduate program is a proposal for a graduate certificate in systems engineering. By completing the four ‘SE’ core courses in systems engineering, engineering economics, engineering management, and systems architecture, students will be able to earn a graduate certificate in systems engineering. This proposal is in the IPFW/Purdue approval cycle, and we expect it will be approved by the end of 2008.

For more information on the engineering graduate program, please check out: www.engr.ipfw.edu/graduate/default.shtml.

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For information or consultation contact Gary Schott at schottg@ipfw.edu or 260-399-1675.

The Northeast Indiana Innovation Center
3201 Stellhorn Road • Fort Wayne, IN 46815
For the first time...
The NORTHEAST Indiana Regional Science and Engineering Fair had a Judge Facilitator from ETCS.

Gary Steffen (CEIT) oversaw the critical discussion among lead judges to choose the eight students who advance to the Indiana State Fair in April and the two students who will represent our region at the International Science and Engineering Fair in Atlanta. The Regional Fair brings more than 275 K–12 students to campus each year to display their research for judges and the general public. IPFW volunteers from the College of Arts and Sciences, ETCS, and other departments play a key role in the event each year.

For the first time...
Summer Explorations includes five camps:

GLO Girls Leading Others; VEX/NXT Robotic Challenge; ACT Adventures in Computing for Teens; Physics Camp: Collision, Rockets, and Momentum; and the Math and Science Camp. Last year, ETCS Outreach introduced Summer Explorations as an ‘umbrella’ under which departments could place their camps. All the camps are offered by IPFW faculty and use hands-on learning experiences to explore concepts and careers in Leadership and STEM (science, technology, engineering, and math) subjects. This spring, the following departments/divisions are offering Summer Explorations: Physics, Engineering, Computer Science, and the Division of Organizational Leadership and Supervision.

For more information about ETCS K-12 Outreach programs check out the link on the home page of the College of Engineering, Technology, and Computer Science or contact Carol Dostal, ETCS Outreach Director, 481-6905 or dostalc@ipfw.edu.

TUTHILL CONTROLS GROUP AND ETCS WORK TOGETHER ON A PURDUE RESEARCH FOUNDATION PROJECT

An ETCS professor and senior project student are working with engineers from the Tuthill Controls Group’s, Fort Wayne facility on a research project entitled Electronic Sensor System for Tuthill Controls. This research is designed to increase the ability of Tuthill to serve its customers and compete in the global market. Tuthill Corporation is a diversified global manufacturing company that develops and supplies industrial products in over 150 markets. Tuthill Corporation has locations throughout the world. The Tuthill Control Group is one line of business of the Tuthill Corporation and manufactures mechanical motion controls including rod ends and ball joints, control cables and assemblies, hand and foot controls, and transmission shifters. The Control Group headquarters is in New Haven, Indiana, with other locations in Germany, England, South Carolina, and Washington. Hal Broberg (CEIT) is the Principal Investigator for the project while Terry Bender, a senior in electrical engineering technology, will work on the project as part of his two semester senior design course. Dave Grabner, manager and mechanical engineer, and Chris Kaufman, mechanical engineer, are the two principal Tuthill engineers working on the project. Project completion is scheduled in December 2008. Broberg’s PhD work was in the field of control systems and he holds a 2004 U.S. Patent in the area of controls. Terry Bender has 14 years experience in the tool and die trade with a specialty in automated equipment.

From left to right: Hal Broberg, Terry Bender, Chris Kaufman, and Dave Grabner
Attention: Accountants, Bankers, Attorneys and Small Business Owners

Small business owners are the backbone of the Northeast Indiana Regional economy. IPFW’s Doermer School of Business, IPFW Division of Continuing Studies, and the Northeast Indiana Small Business Development Center have partnered to deliver this one-day event to discuss the importance of small business owners to our regional economy and how the Small Business Administration Certificate Program has been designed around the needs of small business. Small business owners in the region have been surveyed and an advisory board consisting of area chambers of commerce, economic developers, accountants, attorneys, and business owners have gathered to develop the certificate that will begin in Spring 2009.

The Business Strategy and Success Seminar will highlight the certificate and will also introduce the new Vice Chancellor of Academic Affairs at IPFW, William McKinney. He will share his expertise on business ethics in an address entitled “The Moral Foundations of Business Leadership: Why ‘Business Ethics’ is not an Oxymoron.” The Forensic Accounting Certificate, slated for Summer 2009 launch, will also be highlighted. This program will focus on ways to detect fraudulent activity recently seen in the national business community.

08FBUS215
October 23, 8:30–11:30 a.m.
Cost: $25 • CPEs: 2 ethics hours
To register call 260-481-6619.