



Construction Management

Engineering Technology

Graphic Communications

Industrial Computer Systems

Renewable Energy

Technology Education

Project Management

Training & Development

2009 NEWSLETTER

It's All About The Name – Engineering Technology

By Ken Stier

The 2009/2010 school year is the inaugural year for the Engineering Technology (ET) Program name change. The faculty of the Integrated Manufacturing Systems (IMS) Sequence proposed that the name be changed to “Engineering Technology” in the Spring 2009 semester to help the sequence align with the Classification of Instructional Programs (CIP) codes. The proposal was approved by the ISU Provost in May and the change takes affect with the students under the Fall 2008-2010 ISU catalog. The CIP official definition of “Engineering Technology,” (ET) is a program that generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. ET Programs include instruction in various engineering support functions for research, production, and operations, and application to specific engineering specialties.

One reason for the change is because the

new name (Engineering Technology) is better understood by constituents such as human resources personnel who interview graduates, managers in industry who supervise interns and alums, potential donors, parents, and students. It is believed that this new name will better support the recruitment efforts of the program and more closely reflect what the current curriculum provides the students. The sequence must continue to evolve to meet the needs of its constituents and its name should reflect the broad nature of the field.

Another reason for the change in sequence name reflects the need for flexibility in accreditation. Currently the program is accredited by the National Association of Industrial Technology (NAIT). The members of this organization have recently voted to change its name to the Association of Technology, Management, and Applied Engineering (ATMAE). Changing the name of the sequence to Engineering Technology would align more closely with the movement of the current accrediting organization.

A third reason for the name change

is for better coordination with our Technology Education Program, which in recent years has focused more on engineering and design. Students from Technology Education take classes in the ET curriculum. Changing the name of the program will more closely align with the changes taking place in the Technology Education Program.

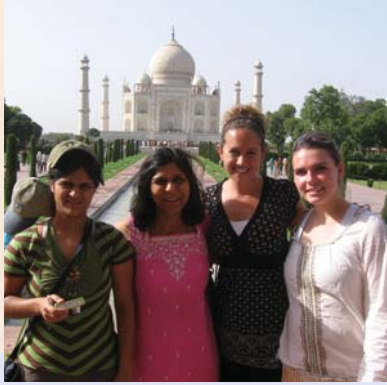
In addition to the advisory board members, students and alums played an instrumental role in helping us select an appropriate name for our program and getting us to this point. The feedback has been extremely positive for the name change and students feel it will help them when seeking employment. We are now in the process of marketing the new name to the rest of the ISU campus and the public by selling polo shirts to students majoring in the program. The red shirts (the ISU school color) have Reggie Redbird and the ET name on them. We made the shirts available to the ET majors early in the semester to continue the enthusiasm about the new name that already began in the spring semester.

We hope that you agree with us that the change from “Integrated Manufacturing Systems” to “Engineering Technology” is a positive move. Please let us know if you have any questions or comments with regard to this change or if you want an ET polo.

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Export Project - TEC Goes Abroad

The ISU Export Project pairs student consulting teams with Illinois-based companies that are seeking to expand into international markets. The students develop a preliminary report during the spring semester and travel abroad to work with foreign companies. Upon their return to the U.S., the student groups prepare a final company report. This past summer Technology faculty and students were involved in three Export Projects. Dr. Richard Boser was the faculty advisor for a project in India that included student team members: Kelly Schneider, Susan Waltrip and Christine Wynn. Klaus Schmidt was the faculty advisor for a Poland team that included Brad Harris, Matt Coffman and Chris Wasowicz (TEC). Anu Gokhale led a second group to India with students; Julie Schumacher and Kimberly Lawton.



Gavin Kalley Named Outstanding Young Alumnus

Gavin Kalley, ('00) is the 2009 Technology Outstanding Young Alumnus. Gavin is a Senior Manager for Atlanta, GA based Holder Construction Company. In his career, he has been a part over \$2 Billion in large, complex construction projects spread over 10 states, including Gwinnett Arena, Union Pacific Headquarters, State Farm Corporate South Addition, and six large data center projects. He currently has oversight responsibility for the \$700 Million, 50 story, world-class headquarters of Devon Energy. Gavin is a member of the Illinois State University Construction Management Advisory Board, is a LEED Accredited Professional, and champions the Holder Construction recruiting efforts at ISU.

Mark Sanders Named Distinguished Alumnus

Mark Sanders (M.S. 1975) was named Technology Distinguished Alumnus 2009. Currently, Mark is a professor and Program Leader in Technology Education and Integrative STEM Education at Virginia Tech. His research is centered around teaching and learning in Technology Education and STEM education. His accomplishments include: Founding Editor, Journal of Technology Education (JTE), 1989-1997. Vice-President, Council on Technology Teacher Education, 1997-2001. President and First Vice-President, International Graphic Arts Education Association (1983-88). His recent funded research projects include Technology Education Teaching & Learning Project (TFA 2006-2009); Bridges for Engineering Education Project (2003-06); Graphic Comm Central (1997 – present).



Lee Wright

This summer, the Department of Technology was deeply saddened by Lee Wright's passing. Lee worked as the Department Lab Technician for almost 20 years. He was a very personable and talented craftsman who could manufacture almost anything out of metal. He was a railroad buff and built fully functional scale models of trains - from the engine to the caboose - to display and operate at various gatherings of train enthusiasts from across the nation. Lee's last major project in the department was planning and constructing the tables for the robot lab. Members of the Department remember his enthusiasm for building things, finding innovative ways to make things work, and for his sense of humor. He will be missed. Pictured on the right: Dr. Rodney Custer presenting Lee Wright with a plaque on his retirement from the Department of Technology.



Awards of Excellence

The Award of Excellence is given to an outstanding senior student who has completed 100 credit hours and has demonstrated superior performance for the last 45 hours. Criteria for this award include demonstrated leadership, including service to the Department of Technology as an undergraduate teaching assistant or committee work, community service, completion of an internship or special project, and exemplary participation in professional organizations. A Committee screened nominations submitted by the faculty.

Dr. Franzie L. Loepp Leadership Award -Technology Education Outstanding Student 2009

Mark Stoch was named the 2008-2009 Outstanding Senior for the Technology Education Program (Dr. Franzie L. Loepp Leadership Award). Mark was an undergraduate leader in the Technology Education Collegiate Association (TECA), where he served as President. In addition to Mark's leadership in TECA, he served as an undergraduate teaching assistant and carried a very high grade point average. Currently, Mark is a technology education teacher at St. Charles High School in the Chicago suburbs.

Computer Systems Outstanding Student 2009

Edison Barinas is our Outstanding Undergraduate Student for the Industrial Computer Systems Program. Edison has the innate ability to interact and support fellow students with incredible patience, listening and demonstrating the correct solution. Edison's "leadership from within" and strong work ethic have been a strong complement to our program's exploration and integration of Agile / Iterative Project Development. This strong engaging personality is found in a young man whose childhood was in the nation of Colombia and whose first language was not English. Found in an individual who transitioned between two very unique cultures and graduated in a period of seven years. His personal achievement of the Cisco Certified Network Associate and the Microsoft Certified Professional are validations that Edison Barinas has a clear vision and commitment of his future.



Graphic Communications Outstanding Student 2009

Petra Allen is this year's Graphic Communications Award of Excellence winner. Petra came to ISU with a strong background in digital media, having graduated from Heartland Community College with a 4.0 GPA. She has maintained a 4.0 GPA while at ISU, excelling in her major coursework. Petra is inquisitive, hardworking, friendly, and has been an inspiration to faculty and students in the program.

Engineering Technology Outstanding Student 2009

Matt McLaughlin was chosen by the IMS faculty as the outstanding senior for 2008/2009. Matt transferred into the IMS program from Physics. He wanted to be an engineer and soon realized that all the calculus and physics he was taking in his former degree was not what he wanted. Once Matt changed his major to the IMS program and began taking our courses it quickly became apparent to him that he enjoyed the applied engineering approach much more. The faculty have enjoyed working with Matt because of the extra effort he gives class projects, he is a good problem solver and works well with students, as well as faculty. These are qualities that should help Matt be successful in his career. Matt has taken a job offer of Manufacturing Engineer from Ring Container Technologies..



Technology Awards Reception

The Department of Technology's Awards Reception was held in the Alumni Center on September 26, 2009. This year's Outstanding Young Alumnus and guest speaker, Gavin Kalley is 2000 CM graduate. During the reception, fourteen students were recognized for earning sixteen departmental scholarships valued at \$16,000. We appreciate your continued gifts that made these scholarships possible.

Charles Porter Scholarship for Leadership

The Porter Scholarship is awarded annually to a Department of Technology student who demonstrates leadership potential in the technology field.



Kevin Smith was president of his 4-H club for three years, as well as team leader for his high school swimming and track teams. He helped make sand bags during a major flood in his home town a couple of years ago. Kevin hopes to bring something new to the Department of Technology and Graphic Communications Program.

Joe E. Talkington Scholarship

is awarded to a community college graduate transfer student with a strong academic record in a field of industrial technology.

Grant Herrmann has always loved to build things and helping out at his uncle's construction company. Through Apostolic Christian World Relief he has helped rebuild homes damaged in natural disasters, as well as helping build an orphanage in Sonora, Mexico.

The Department of Technology Scholarship

is awarded to an incoming freshman with a strong academic record in a field of industrial technology.

Steven Greene is a member of ISU's Waterski and Wakeboard Team. In high school, Steven had an internship that gave him the opportunity to assist his AutoCAD teacher in class and help students learn.

Central Illinois Builders' Industry Advancement Foundation Scholarship

Open to junior or senior undergraduates. Must have cumulative GPA of at least 2.50 on a 4.0 scale and an active member of the AGC student chapter.



Marcus Greschner is a construction management junior. His long term goal is to own his own general contracting company.

Charles "Ed" Francis/CMSA Scholarship

is presented to a first-year, transfer or continuing full-time student in the Construction Management sequence.



Marcus Greschner has always been interested in building things and making things with his hands.

Combined Central Illinois Construction Industry Fund Scholarship

was established for ISU Construction Management students interested in a career in commercial construction.

Kyle Roberts is a transfer student from Illinois Central College. Kyle would like to own his own construction company doing both commercial and residential construction. He is on the leadership board of the young adult church group in charge of activities and service projects.

James D. Loughlin Memorial Scholarship

provides financial assistance to a junior or senior construction management student who is active in civic organizations and or community service.



Joe DeVries is a senior who is interested in commercial construction. Over the summer, Joe had an internship in the Drilling Division of Aldridge Electric of Libertyville, IL. He is a member of CMSA and GreenFluence. He plans to become LEED certified.

The Robert C. Monninger Scholarship

is awarded to a full-time Construction Management student studying mechanical and electrical aspects of construction.

Mitchell McClellan is a sophomore construction management student. His interest in construction began with his father, an architect. Mitchell had an internship with Hill Mechanical of Franklin Park, IL. He is President of MESA and President of the MCA Competition Team.

Nathan Ruch Scholarship

is awarded to a Construction Management underclassman who demonstrates the potential for leadership both within the department, university, community, and construction industry.

Adam Hebert is an active member of CMSA. He was an integral part of the NAHB Competition Team providing encouragement, drive and determination to succeed. Adam is a solid performer, always working hard, with consistent perseverance. These attributes will make him successful in meeting his future goals.



Wayne Zook Scholarship

is awarded to students who have completed at least 10 hours in the Construction Management Sequence, demonstrated leadership abilities, and successful work experience in the construction industry.



Bradley Schrock has worked for his family's construction company for the past five years building homes and doing some light commercial work. He has worked on a Habitat for Humanity home and also ABC's Extreme Makeover; Home Edition in Pekin, IL. He has led 4-H efforts like Coats-4-Kids, canned food drives and Cystic Fibrosis fundraisers.

Hydro-Gear Scholarship

is awarded annually to an Engineering Technology student. Hydro-Gear is a leader in the design, manufacture, sale and service of quality hydrostatic drive systems.

Nathan Rybolt is a graduate of Richland Community College. He is fascinated with manufacturing technologies, especially CNC machining and metalworking.



Jeld-Wen Scholarship

is provided to freshmen and/or transfer students from the East Central Illinois or Chicagoland area who are enrolled as full-time students in the Department of Technology Integrated Manufacturing Systems sequence.

Ryan Sharples is a member of the student chapter of the Society of Manufacturing Engineers. He enjoys interacting with customers from initial order through order completion and delivery. Ryan wants to manufacture and design parts, tools and mechanisms. He hopes to work in a custom shop.



Society of Manufacturing Engineers Scholarship

is awarded annually to a full-time upperclassman majoring in Integrated Manufacturing systems and who is a member of the Society of Manufacturing Engineers Student Organization.



Brett Massey has always been interested in hands-on product design. He is particularly interested in CAD solid modeling and using rapid prototyping machines.

Bill LaBounty Scholarship for Graphic Communications

Bill LaBounty served as ISU director of ISU's Printing Services for over 20 years and he is Technology Distinguished Alumnus. He stipulates this scholarship go to a student who shows great enthusiasm for the graphic communications field and great promise.

Stephanie Conklen has impressed faculty and students with her strong work ethic, her high competence for the discipline, and her obvious passion for the field of graphic communication. In addition to coursework, she's worked at ISU's PIP Printing and led three of her high schools' yearbook production projects, as well as extensive involvement in civic and community service.



The Philip E. Ghantous Memorial Scholarship

was established to provide financial assistance to a junior or senior Department of Technology student with an interest in renewable energy sources.

Antonio Pagan has been President of the Renewable Energy Society for two years and is an Honors student. Currently, Antonio is the Research Administrator for the Illinois Wind Energy Association. Last summer, he was an intern at State Farm Insurance researching renewable energy applications.

The Everett N. Israel/TFA Scholarship

is awarded to Technology Education upperclassmen.

Steven Greene is working to follow his parents' footsteps into high school teaching. He enjoys listening to his parents talk about finding new and improved ways to help their students learn. He wants to motivate students and introduce them to new things to broaden their horizons. He helped make sand bags during a major flood in his home town a couple of years ago.

2010 Department of Technology Scholarship Applications are due April 1, 2010. Scholarship Applications are available from the Technology office or on-line at: www.tec.ilstu.edu

Other Awards and Scholarships

The following Department of Technology students have been awarded outside scholarships for their scholastic ability, leadership qualities, and service to the Department and community.

**John Henry Quality
Scholarship
John Elmore**

**PGSF Scholarships for Graphic
Communications Students
Lauren Watts
Kevin Smith**

**Association of
Facilities Engineers
Scholarship
Nathan Rybolt
Jeff Gauger**

**Northern Illinois Builders
Scholarship
Ben Carlson**

Technology Honors Students

These students must maintain a high University and department GPA, complete in-course honors study in the student's technical area and in-course honors study outside the Department of Technology, and successfully complete of a minimum of 3 credit hours of Honors Independent study. Students must initiate Independent Honors Study, Undergraduate Research Participation, and arrange for guidance of a faculty member. These projects require an intensive study in an area of special interest to the student in an area of Technology.

**Travis
Burggraf
Brian Davis**

**Jonathan Dove
Kenneth Harris
Eric Heyhrich**

**Antonio Pagan
Steven Richey
Ryan Sharples**

**Patrick Sullivan-Wood
Sean Tracey
Jessica Young**

Graduate Student Awards

Rebecca Rossi was selected as the 2009 Outstanding Graduate Student and Outstanding Graduate Student Researcher. She worked on the preparation and collection of documentation for the CM ACCE self-study and the site visit. The end result of her efforts was a very successful self-study and site visit. **Rebecca Rossi's** thesis was titled, "A Case Study of the Integrated Design Process: The Early Integration of Constructor Knowledge Into Sustainable Designs".

Technology Donor Roll

Your gifts are vitally important to maintaining instructor and program excellence. Listed below are the donors and friends who, through their generous contributions, have enabled the Department of Technology to make the 2008-09 school year our best ever. Thanks and appreciation are extended to:

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