

PERSPECTIVES

DEPARTMENT OF TECHNOLOGY Vol. 17. No. 1 Fall 2005

*From the
Department
Chairperson*



Another summer has come and gone here in the Department of Technology and we are excited to be in the process of gearing up for the 2005-06 academic year. This summer has brought a number of significant facilities changes. One of the most exciting of these changes has been the design and construction of brand new Caterpillar Integrated Manufacturing Laboratory, which was funded through the generosity of the Caterpillar Foundation as part of Illinois State University's capital campaign. The laboratory is in 115 Turner Hall in space formerly occupied by the CNC/welding lab, foundry, and other fabrication equipment.

The brand new lab will consist of two large spaces; a classroom and an integrated systems/robotics laboratory. The classroom will be equipped to provide instruction in fluid and mechanical power systems, analog and digital electronics, programmable logic control, and a variety of manufacturing-based computer applications. The laboratory will contain 10 workstations, which have been specifically designed to simulate the

type of sophisticated integrated systems that are present in major automated manufacturing facilities around the globe. Each custom-designed workstation will be equipped with an ABB industrial capacity robot, conveyor, vision system, PLC, and computer. Additional conveyors will enable students to connect and integrate individual workstations with one another.

The new laboratory represents the culmination of countless hours of planning and effort on the part of the faculty as well as invaluable guidance and support of advisory councils, alumni and industrial partners. Throughout the process, the goal has been to provide students with exposure to, and experience with, state-of-the-art technologies. Leading manufacturing companies are increasingly calling for advanced level knowledge, where students have learned how to integrate a variety of technical systems.

The message from our industrial partners has been very clear; our students must be prepared as communicators. This occurs at two critically important levels. First, our students must learn how to facilitate communication among people. They must learn how to work in teams to facilitate communication among a variety of manufacturing partners, including engineers, upper and middle level management, technicians, and end users. Second, they are learning how to get devices

and technical systems to communicate with one another. Contemporary manufacturing environments are integrated systems with communication at the core. Through the curriculum and facilities, our students are being prepared to assume leadership roles in integrated, communication intensive environments.

The classroom and prototype integrated/robotic workstation are scheduled for completion early in the fall 2005 semester. Work will continue throughout the 2005-06 year with the construction and installation of the remaining 9 integrated/robotic workstations. We are confident the equipment, curriculum and facilities will serve as a model for programs around the nation. Please stop by for a visit and tour of the facilities when you are next in the area.

**HOMECOMING TAILGATE
SATURDAY,
OCTOBER 8, 2005**

11:30am - 2:00 pm

Join us for a Tailgate Lunch in the College of Applied Science & Technology Tent on the University High Football Practice Field north of the ISU football field. Food, drinks, tables and chairs will be provided. For further information, contact the department office at (309) 438-3661.

DR. MOHAMED A. EL-GAFY JOINS CONSTRUCTION MANAGEMENT FACULTY



Dr. Mohamed A. El-Gafy will be joining the faculty this fall as an Assistant Professor in the Construction Management area. Dr. El-Gafy received his BS and MS in Civil Engineering from Cairo University in Egypt, and his Ph.D. in Civil Engineering from Florida State University, Tallahassee, Florida. His dissertation was titled "Environmental Impact Assessment of Transportation Projects: An Analysis using an Integrated GIS, Remote Sensing, and Spatial Modeling Approach. During the fall 2005 semester, Dr. El-Gafy will be teaching TEC 120 - Introduction to Building Construction and TEC 121 - Construction Methods.

DR. MICHAEL DAUGHERTY ACCEPTS POSITION IN ARKANSAS

Dr. Michael Daugherty has accepted a position at the University of Arkansas beginning this fall to provide leadership to the development of a new technology education program. Michael joined the faculty fourteen years ago after graduating from Oklahoma State University with his Ph.D. Throughout his time on the faculty, he has provided outstanding leadership to the growth of the Technology Education program as well as to the Illinois State Board of Education funded Connections project and other funded grants and projects. Michael Daugherty's contributions to the profession extend well beyond the bounds of Illinois State University. His new position represents an exciting opportunity for him, his family, and the profession. While we wish him all the best, he will certainly be missed here at ISU!



DR. TOM SCHILDGEN NAMED 2005 TECHNOLOGY DISTINGUISHED ALUMNUS



Dr. Thomas E. Schildgen is the Chairman for the Department of Information and Management Technology at Arizona State University. He has been a professor of Industrial Technology for the past twenty-four years at Arizona State. Dr. Schildgen served four years on the faculty of Illinois State University prior to joining ASU. He is active in many professional organizations, a variety of advisory boards, and has served on the Board of Directors of the Association for Graphic Arts Training. Dr. Schildgen is a national and international consultant for Educational Development, Industrial Training and the Graphic Communications Industry. He has done work for companies such as Quad Graphics, Treasure Chest Advertising, and Mannington Resilient Floors. Dr. Schildgen completed a book entitled Pocket Guide to Color with Digital Applications, published by Delmar. Dr. Schildgen has coordinated several World Bank funded projects with the Republic of Turkey. He has worked with the U.S. Department of Defense Dependent Schools in Germany,

and has hosted an industry tour group of South Korean CEO's. Dr. Schildgen has been involved in a curriculum for pollution prevention for the printing industry with the EPA. He serves on the Executive Board and Board of Directors for the Mesa United Way in Arizona. A reception will be held on Friday, October 7, 2005 in Turner Hall 104 from 9:30 - 10:00 a.m. His presentation will be from 10:00 a.m. until 11:00 a.m.

FACULTY AWARDS AND HONORS

Three Technology faculty members were recognized and honored at the International Technology Education Association Conference in Kansas City in April 2005. Dr. Rodney Custer was awarded the Hall of Fame SHIP Award for his many contributions to education and Dr. Chris Merrill and Dr. Mike Daugherty were each received an Outstanding Research Award.



Dr. Rodney Custer



Dr. Chris Merrill



Dr. Mike Daugherty

BUSINESS CARD UPDATES

We need your help! The Department of Technology is in the process of updating our Alumni Business Card display in our reception area. Please send a current business card to:

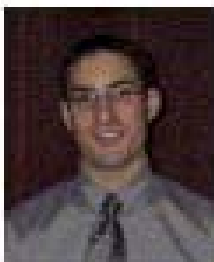
Illinois State University
Department of Technology
Campus Box 5100
Normal, IL 61790-5100

Departmental Awards Banquet

The Department of Technology's 2004 Awards Banquet was held in the Old Main Room of the Bone Student Center on April 28, 2005. This year's Outstanding Young Alumnus and guest speaker was Mr. Michael Cermak, of Rock Valley College and a 1992 graduate of the Department of Technology. Scholarships, awards, and recognitions were presented to 23 students during the Banquet. The total value of this year's scholarships to technology students is \$25,250.

Philip E. Ghantous Scholarship

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



Troy Blunier is a junior studying Technology Education. He actively participates in the Technology Education Collegiate Association and has worked on various projects for World Relief.

Society of Manufacturing Engineers Scholarship

This award is presented annually to an upper level student in manufacturing.



Bryce Walters is a junior in the Manufacturing sequence and an active student member in the Society of Manufacturing Engineers. He is a member of the ISU team working this summer to build and race an electrathon race car, a lightweight electric car.

Jeld-Wen Scholarships

The Jeld-Wen Foundation awards two scholarships annually to incoming full-time freshmen from the East Central Illinois or Chicagoland areas in the Integrated Manufacturing Sequence.

Kyle Luczynski is a Downers Grove North High School graduate who will begin his studies in the manufacturing sequence in fall 2005. His special interests are product design and development. Through the St. Scholastica Youth Group, Kyle has fed the homeless in Chicago, and participated in mission trips to West Virginia, North Dakota, and Wisconsin.



Charles Porter Scholarship for Leadership

is awarded to a Department of Technology student who demonstrates leadership potential in the field.

Seth Braker is a fall 2005 construction management transfer student from Illinois Central College. Seth has actively volunteered for a variety of community service projects including building a school for the deaf in Jamaica and helping senior citizens in his hometown.

William LaBounty Scholarship

is awarded to a full-time sophomore or above Graphic Communications student with a proven academic ability.

Alan Gyssler is a graduate of Buffalo Grove High School where he became interested in graphic communications. He has excelled in the graphic communications sequence. Alan works at the ISU student newspaper, the Vidette, in imaging and layout. He is interested in working in the printing industry or teaching graphic communications.



Justin Rutgens, a transfer student from Illinois Valley Community College, enjoys working with Auto-CAD, Solid Works, Inventor, and 3D-Studio.

DEPARTMENTAL SCHOLARSHIPS

The Robert C. Monninger Scholarship

Awarded to a full-time student in Construction Management with an emphasis in mechanical and electrical aspects of construction

Scott Blons, a junior construction management student, is a member of the Construction Management Student Association Executive Board, the Mechanical Contractors Association of America competition team, and the head of the CMSA Relay for Life team last weekend. Scott also volunteers for Habitat for Humanity.

Industrial Technology Scholarship

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

Brian Rick, a Fall 2005 Technology Education transfer student from Rend Lake College, has donated over 500 hours to help make a difference to young kids who need guidance and activities in their lives. Brian is interested in teaching drafting and architecture.

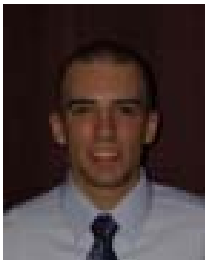
Combined Central Illinois Construction Industry Fund Scholarship

Presented to a Central Illinois Construction Management student interested in a career in commercial construction.

Jacob Zimmerman is a junior construction management student who plans to be a project manager. Jake has worked on three spring break service trips to Kingston, Jamaica, and Rio Bravo, Mexico to build and maintain school facilities for deaf children.

Nathan Ruch Memorial Award

is awarded to a Construction Management underclassman who best exemplifies professional leadership attributes within the department, university, community, and construction industry.



Chris DePooter is a senior Construction Management student. Chris is the president of the Construction Management Association, past president of Mechanical Electrical Student Association, and has been a member of the construction management competition team at the Mechanical Contractors Association Competition for the last two years.

He worked on this year's first place Homecoming Float and participated in the Relay for Life.

Society of Plastics Engineers Scholarship

Awarded to an upper level student in good standing who is majoring in Industrial Technology with an emphasis in plastics.



Tyler Martin is a senior in the Integrated Manufacturing sequence who recently attended an SPE sponsored trip to IVP in Washington, IL to see their injection molding operation.

Charles Ed Francis Scholarship

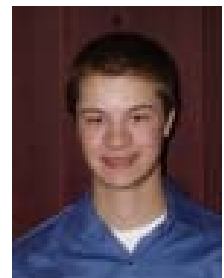
Presented to a first-year, transfer or continuing full-time student with a concentration in the Construction Management Sequence.

Adair William Zimmerman is transferring to Illinois State from Illinois Central College. He will begin his studies in Construction Management in the fall. Adair hopes to become a project manager and own his own construction company.

Aaron Ehnle, a transfer student from Illinois Central College's Architectural Construction Technology Program, will begin his studies in Construction Management in Fall 2005. In December 1999 and December 2002, he participated in building homes with his church youth group in Juarez, Mexico.

Nicholas Bugajsky will be a freshman in the fall studying construction management. He has always wanted to build houses and one day own his own construction company. He has been a member of the Science Honors Society, Mu Alpha Theta, the Arts Honors Society, and the National Honors society. As a high school freshman he was awarded the Outstanding Freshman Award for Service, Leadership, Curricular Area, and Positive Attitude. Nicholas has also participated in the Dan Gibbons Turkey Trot and the Relay for Life.

Michael Eggum will be a freshman studying construction management beginning in the fall. Michael was recognized for his leadership skills by the Boy Scouts in June 2004 when he was awarded the rank of Eagle Scout. Less than 1% of scouts reach this level.

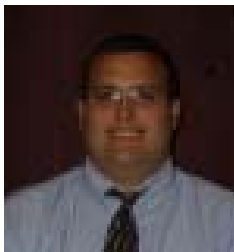


DEPARTMENTAL SCHOLARSHIPS

William McKnight, Jr. Technology

Education Scholarships

Presented annually to three Technology Education students with a "B" or better average and demonstrated leadership ability in school and community organization.



Nathan Genenbacher is a senior Technology Education student. Nathan is active in the Technology Education Collegiate Association, Alpha Lambda Delta, and the Technology Student Association of Illinois. He is also on the National Deans List and has volunteered for a

variety of community service organizations.

William Merchantz is Vice-President of the Technology Education Collegiate Association. Last summer, he was one of three students from across the country to receive the first ever Outstanding Student Leader Award from the LeadAmerica organization. In January, he was a LeadAmerica intern during the Presidential Youth Leadership Conference in Washington, D.C.



John Nanney, will be a senior Technology Education major in the fall. John has been involved with SkillsUSA, and attended the Illinois Coordinating Council for Career and Technical Student Organizations, the Illinois Technology Educators Conference, and the Illinois Association of Career and Technical Education Conference. He is a member of the Technology Education Collegiate Association.

Central Illinois Builders' Industry Advancement Foundation Scholarship

Presented annually to an upper level Construction Management student who is a member of the Association of General Contractors student chapter.

Scott Blons is a junior construction management student, a member of the Construction Management Student Association Executive Board, the Mechanical Contractors Association of America competition team, and the head of the CMSA Relay for Life team. Scott also volunteers for Habitat for Humanity.

Wayne Zook Scholarships

Awarded annually to students who have demonstrated leadership abilities, and successful work experience in the construction industry.

Michael Bjes, a junior construction management student and an honors student, is Vice President of the Association of General Contractors of America student club and has been the captain of the ISU Competition team for two years. As such, Michael has been responsible for recruiting and preparing student for the competition. Michael is also a member of the Construction Management Student Association executive board.



Michael Slagel, a junior construction management student, is an active member of the Association of General Contractors, the Construction Management Student Association, the National Association of Home Builders and the Association of General Contractors. Michael is an honors student and a member of Golden Key, an organization for students with academic excellence. Through Apostolic Christian World Relief, Michael has helped rebuild homes destroyed by tornadoes and has volunteered to help build homes through Habitat for Humanity.

Everett N. Israel/TFA Scholarship

Presented to a Technology Education student.



Alison Spangler is vice-president of ISU's Technology Education Collegiate Association and has participated in both regional and national conferences. She plans to teach graphics, drafting, and or industrial technology courses. Alison has been a judge at the TSA events held at Illinois State University and Carlinville, IL.

The deadline for submission of scholarship applications for 2005-2006 is April 1, 2006. For more information or an application, contact:

Illinois State University,
Department of Technology
Campus Box 5100,
Normal, IL 61790-5100
Phone: (309) 438-3661

or visit the department website at:

www.tec.ilstu.edu

AWARDS OF EXCELLENCE

The Award of Excellence is given to an outstanding upper level student (or students) 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. The Departmental Liaison Committee screened nominations that were submitted by the faculty. This year's Award of Excellence recipients are pictured below.



Courtney Glasgow
Franzzie L. Loepp
Technology Education
Leadership Award



**Quiana Taheerah
Hall**
Industrial Computer
Systems



Wayne Beanland
Integrated
Manufacturing
Systems



Troy Johnson
Graphic
Communications



Jim Koob
Construction
Management

GRADUATE STUDENT AWARDS

Outstanding Graduate Student Award

Given annually to a Technology Graduate Student who has demonstrated excellence in one or more of the following areas: academics, research, programming and/or social events for graduate students.



Dustin Wyse-Fisher has been an asset to the department since arriving on campus. As a graduate assistant, Dustin primarily worked on Project ProBase, an NSF funded project. He has also led curriculum writing teams the past two summers and served as web development expert for faculty.

He was honored at the ITEA Conference as one of the top graduate students in the country.

Outstanding Graduate Student Researcher Award

Given annually to a Technology Graduate Student researcher for demonstrating high standards of excellence in scholarship and research.

Major Gary Kayser was selected

as this year's Outstanding Graduate Student Researcher. His thesis "Application of Tinto's Model to the Persistence of Freshmen Students Enrolled in the First-Year, Second-Semester Military Science Course Within 10th Brigade, Western Region Undergraduate Institutions" was

selected as the CAST Outstanding Graduate Student Thesis and was runner-up in the university-wide James L. Fisher Thesis competition.



2006 TECHNOLOGY CAREER DAY

It's just around the corner! The 2006 Technology Career Day is scheduled for Friday, February 10, 2006. If you or your company are looking for an intern or a full or part-time employee, consider participating in the 2006 Technology Career Day. In order to participate, please send in a business card or contact:

Kevin Devine
Department of Technology
Professional Practice Coordinator
Campus Box 5100
Normal, IL 61790-5100
Phone: (309) 438-3661
Fax: (309) 438-8626
kldevin@ilstu.edu

OUTSIDE SCHOLARSHIPS AND AWARDS

The following Department of Technology students have been awarded outside scholarships for their scholastic ability and service.

Society of Manufacturing Engineers Scholarship



Jill Nicholson

Centex - Build your Future Scholarship



Scott Sanders

Illinois Ready Mix Concrete Association Scholarship



Chris VonHolten

Lee Evans Home Builders of Illinois Scholarship



Scott Sanders

Residential Construction Employers Council Scholarships



Chris Bowie

Mechanical Contractors Association of Chicago Scholarship

Scott Blons

Society of Manufacturing Engineers Caterpillar Scholarship



R. Wayne Beanland



Scott Sanders

John Henry Memorial Scholarship



Jeremy Gonigam



Steve Genovese

TEC FOUNDATION DONORS

Listed below are the donors and friends who, through their generous contributions, have enabled the Department of Technology to make the 2004-2005 school year our best ever. Thanks and appreciation are extended to:

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