

PERSPECTIVES

*From the
Department
Chairperson*



Greetings once again from the Department of Technology at Illinois State University. We are pleased to be able to provide you with an update of activities that are occurring in the Department and hope you are enjoying our new electronic format. One distinct advantage of "going electronic" is that we are no longer constrained by a fixed number of printed pages. So, we are able to provide you with more information than was the case in the past.

A number of activities are occurring that will be of interest to our alumni.

- One of the most important opportunities facing any academic department is being able to hire new faculty members. This year, we have been particularly fortunate with attracting new people. Dr. Dan Wilson, a respected educator at the national level in graphics and printing, joined the faculty and is serving as sequence coordinator for the Printing Management and Imaging Technologies area. Mr. Keith Rahn has joined the Construction Management faculty, after years of experience as a private construction contractor and educator. Both of these individuals are top quality people and represent very positive additions to our faculty.
- Two of our alumni are being recognized this year by the Department for their outstanding accomplishments. At the spring awards banquet, Mr. Curtis Thomas, Account Executive in Customer Service at ABB Flexible Automation, Inc., was recognized

DEPARTMENT OF TECHNOLOGY Vol. 15. No. 1 Fall 2003

as the Outstanding Young Alumnus. During this year's homecoming festivities, we will be recognizing Dr. Linda Rae Markert as the Department's Distinguished Alumnus for 2003. Dr. Markert is Dean of the College of Education at SUNY-Oswego. (additional information about both of these individuals is presented later in the newsletter).

- A second initiative that has occurred over this past year has been the launching of our project management courses. Beginning with this past fall, we launched three courses in project management at the graduate level as well as an overview course at the undergraduate level. These courses have been exceptionally well received with strong enrollments and positive student response. This initiative has played a significant part in the strong growth in graduate program enrollments over the past year. Leadership for this initiative has come from Drs. Ron Meier, Dan Brown, Rick Boser, and Klaus Schmidt.
- The Department of Technology faculty have been successful with several new grants and funded projects during this past year. These are very important because they provide significant resources during a time of budget constraints. Current projects include: Project ProBase (National Science Foundation - Custer & Daugherty), Pathways (National Science Foundation (Gokhale & Kenton Machina, Project NCIST (Federal Appropriation - Daugherty), and Connections (Illinois State Dept. of Education - Daugherty). Collectively, these projects have been funded at \$1.6 million dollars.
- The Comprehensive Campaign effort is still underway. Department

of Technology faculty and alumni have been quite supportive and their commitments are making a significant difference. We continue to need your support, particularly during these difficult budget times. Over the past year, we have been forced to give back nearly \$100,000 to help meet the shortfall. We have been most heavily impacted in the areas of equipment and student scholarships. If you have not yet responded to this opportunity to give something back to ISU and the Department, please take this opportunity to do so.

In spite of the ongoing budget situation, the department remains strong with high quality faculty, students, and exceptional alumni. Thank you so much for your ongoing support of our work.

HOMECOMING TAILGATE

PLEASE NOTE OUR NEW LOCATION

JOIN US FOR A TAILGATE LUNCH IN OUR TENT DURING THE 2003 ISU HOMECOMING FESTIVITIES

Look for the Department of Technology tent in the University High School Football Practice Field North of the ISU football field. Food, drinks, tables and chairs will be provided. There will be no events scheduled in Turner Hall this year.

See you in the tent on Saturday, October 18, 2003 between 11:30 am - 2:00 pm

For further information, contact the department office at (309) 438-3661

AWARDS AND HONORS

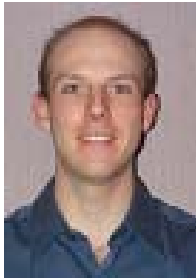
Departmental Awards Banquet

The Department of Technology's 2003 Awards Banquet was held in the Old Main Room of the Bone Student Center on May 1, 2003. This year's Outstanding Young Alumnus and guest speaker was Mr. Curtis Thomas, of ABB Flexible Automation, Inc. Mr. Thomas did an outstanding job with his after dinner comments. We are very proud of Mr. Thomas for all that he has accomplished so far in his career and are very appreciative of his support of the department. Mr. Thomas was instrumental in arranging for the placement of the ABB robot in the department. Scholarships, awards, and recognitions were presented to 27 students during the 2003 Awards Banquet. The total value of this year's scholarships to technology students is \$18,450.



Nathan Ruch Memorial Award

Presented to a construction management underclassman who demonstrates the potential for leadership both within and outside the classroom.



Jonathan Schmidt is a junior in Construction Management. He is active with the student chapter of Habitat for Humanity.

John Henry Memorial Scholarship Award

Awarded to a student who exemplifies professionalism and quality.



Charles Brumley is a student in the Construction Management Sequence. Charles is an active member of PMI and has achieved his PMP designation. He is a member of the American Society of Quality and CMSA. Charles will be graduating summa cum lauda this fall.

Everett N. Israel Scholarship

Presented to a Technology Education student.



Kristine Throm is working on her second bachelor's degree in Technology Education. She plans to graduate in May 2004. Kristine possesses leadership, work ethic, and has above average grades, and will be a delightful teacher in the public schools.

Residential Construction Employers Council Scholarships

Awarded construction management majors.



Elizabeth Bolin is a student in the Construction Management Sequence. She is interested in a career in Residential Construction. She is involved with APO, a coed fraternity for Leadership in Community Service.

Combined Central Illinois Construction Industry Fund Scholarship

Presented to a construction management student.

Brent Hoerr (picture not available) is a transfer student from Illinois Central College. He is majoring in Construction Management and has been active in community service projects, including building a wheelchair ramp for an elderly couple, and helping to rebuild a home damaged by fire.

Brian Hopkins is a junior majoring in Construction Management. He plans to graduate in December 2005. Brian also received the General Assembly Scholarship and the second annual Thomas D. Coleman Memorial Scholarship. He volunteers for Habitat for Humanity and is a member of the Construction Management Student Association.



Departmental Honors

An Honors Degree is awarded to a student with a university GPA of 3.3 and a departmental GPA of 3.5, and successful completion of honors coursework.

Kevin Kahoun (Picture not available) is a May 2003 graduating senior in the Construction Management Sequence.

Departmental Scholarships

Charles Ed Francis Scholarship

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



Matthew Braddock, a junior in the Construction Management sequence and is a member of the Executive Board of the CMSA organization. Matthew is also vice-president of the National Association of Home Builders Student Chapter and APO, a coed fraternity for Leadership in Community Service. He has participated in the Gamma Phi Circus.

Society of Manufacturing Engineers Scholarship

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

Eric Cowell, a senior in the Department of Technology, is studying Integrated Manufacturing Systems and Technology Education. His special interests include creating products from conception and design to full scale production.



Central Illinois Builders' Scholarship

Presented annually to a Construction Management sequence student.



Elizabeth Bolin is a junior in the Construction Management Sequence. She is a member of the Construction Management Student Association and has been an active volunteer with the Bloomington/Normal Habitat for Humanity.

Joe Talkington Scholarship

Presented annually to a student who has transferred to Illinois State University and is pursuing a degree in Industrial Technology.

Ryan Cross is a Printing Management student. He intends to graduate in May 2004. He is an active member of TAGA. Ryan is a conscientious student and effective leader.



Charles Porter Scholarship

Given annually to an Industrial Technology major who displays outstanding leadership characteristics.

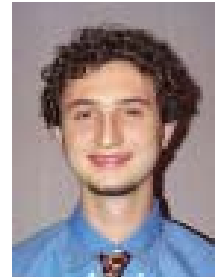


Matthew Feuerborn is a senior in the Technology Education sequence. Matthew has served as president of ISU's Technology Education Collegiate Association chapter. He was also a finalist for the Bone Student Scholar Award. During Fall 2003, Matt will be student teaching in St. Charles, IL.

Society of Plastics Engineers Scholarship

Presented to an upper level student in plastics.

Aldo Fazio is a senior in the Integrated Manufacturing Systems sequence. He plans to graduate in December 2003. He is interested in a variety products made from plastic. Aldo is an active member of the student chapter of the Society of Manufacturing Engineers.



Jeld-Wen Scholarships

Two awards, presented annually to incoming freshmen in the Integrated Manufacturing Systems sequence.

Justin Von Holten is a freshman in the Manufacturing Sequence. He graduated from Bureau Valley High School and is interested in product or structure design. He placed first in a regional competition of the Worldwide Youth in Science and Engineering team.



Alex Ford is a Freshman in the Manufacturing Sequence. He graduated from Momence High School in May 2003 and is a member of the Momence Honor Guard, a group that provides military funeral rights for veterans. He is interested in automotive manufacturing and prototype and concept cars.



Wayne Zook Scholarship

Awarded annually to Construction Management Students



Elizabeth Bolin is a member of the Construction Management Student Association.



Scott Regnier is a senior in the Construction Management sequence. He is on the Construction Management Student Association Executive Board.

Robert Vance (Picture not Available) is a junior in the Construction Management sequence. He transferred to ISU from Florida State University. Robert likes the variety of commercial construction. In his spare time, he has volunteered for Habitat for Humanity.

William McKnight, Jr. Technology Education Scholarships

Three awards presented annually to exemplary students who desire to become Technology Education teachers.



John Nanney is an incoming freshman in the Technology Education sequence. He graduated from Triad High School in Troy, Illinois in June 2003. John has been an active member of VICA and ICCCTSO.

Adam Weis is a transfer student from Moraine Valley Community College. He has worked as a teacher's aide for four years. He is dedicated to pursuing a career as a technology education teacher in secondary education.



James Van Bladel is a sophomore in the Technology Education sequence and is a member of TECA. In 2001, Jim volunteered at the Oglala Lakota Indian Reservation. He plans to pursue a career as a secondary technology teacher.

The deadline for submission of scholarship applications for 2003-2004 is April 1, 2004. For more information or an application, contact: Department of Technology, Illinois State University, Campus Box 5100, Normal, IL 6190-5100 or call (309) 438-3661 or visit the department website at www.tec.ilstu.edu

AWARD 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 outstanding recipients are pictured below.



Keith Otten
Franzie L. Loepf
Technology Education
Leadership Award



Ryan Farrell
Industrial
Computer
Systems



Matt Collins
Integrated
Manufacturing
Systems



Rick Brodsky
Printing Management
and Imaging
Technologies



Scott Ludwig
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.



Giancarlo "John" Ferrentino is a May 2003 graduate of the Technology Master's Degree Program in Training and Development. John was a graduate assistant in the Printing Management and Imaging Technologies Sequence where he taught TEC 150.

Outstanding Graduate Student Research Award

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



Cory Culbertson is a 2003 graduate of the Technology Master's Degree Program in Technology Education. He wrote his thesis on "Effects of Modular Technology Education on Junior High Students' Achievement Scores".

IN-KIND DONATIONS ARE TAX-DEDUCTIBLE

The Department of Technology greatly appreciates all donations and gifts. Monetary contributions are the first thing people think of when "donations" and "gifts" are mentioned. Another type of tax-deductible donation is called "In-Kind Donations" and these can be usable equipment or services. Illinois' fiscal crisis has reduced the department's equipment budget. Our programs rely heavily on new equipment to maintain our "state of the art" status and to provide our students with the most current instruction.

In recent years, the Department of Technology has been the grateful recipient of different types of equipment, large and small. Students in the Integrated Manufacturing Sequence learn about automation by using the ABB robot, which was placed in the department on a consignment basis by ABB Flexible Automation, Inc. ABB Flexible Automation has also replaced the original robot with an updated version. This summer, the plastics technology laboratory was the recipient of a generous equipment donation from Winzeler Gear, a Chicago-based firm. The owner, John Winzeler, donated a 30-ton injection molding machine with a significant set of auxiliary equipment: a mold temperature controller, a pneumatic resin conveyor and dryer, a parts handling robot, and a granulator. The Heart of Illinois Chapter of Professional Land Surveyors provided and installed a 12-station course of surveying monuments for the Construction Management Sequence. In addition, two generous equipment donations by Tim Hollabaugh of Ingersoll-Rand, a long time friend of the program and by Bill Deschler of SMC, an ISU alum are enabling us to incorporate into our instruction solenoid controlled valves and various types of electrical switches to introduce students to electrically controlled pneumatic circuits. Mark Willis of Norman Equipment and an alum, processed our purchase of related additional equipment.

Due to space constraints, all donations of equipment must be pre-approved by sequence coordinators and/or the department chair. Arrangements for delivery and set up must be pre-approved and made in advance. For additional information, please contact the Department of Technology at (309) 438-3661.

Department of Technology Wish List

Stabila Mobile Laser Equipment
Automatic Self-Leveling Rotary Laser with Receivers
Atlas 550 for WAN Emulator by Adtran
Versa-Laser from Universal Laser Systems
DVD Editing and Creation System
PLC Programming Software
Digital Camera with USB Interface

DLT Tape Autoloader to backup the ITnet computer system.
Rapid Prototyping Machine
Plate Setter
Heidelberg GTO
Scanning Spectrophotometer
Sony Digital Video Camera DCR-DVD200

For additional information on making tax deductible gifts and/or donations to the Department of Technology, please contact the ISU Foundation Representative for the Department of Technology:

Joy Hutchcraft
Illinois State University Foundation
Development Office
Campus Box 3060
Normal, IL 61790-3060
(309) 438-7681

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Listed below are the donors and friends, who, through their generous contributions, have enabled the Department of Technology to make the 2002-2003 school year our best ever. Thanks and appreciation are extended to:

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Combined Central IL Construction Ind Fund
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Construction Management Student Association
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Custom Crafted Door Co
Diversified Buildings Inc
Elk Mountain Homes Inc
G. D. Construction
Gronemeier Concrete Cutting Inc
Industry Advancement Foundation
Jeld-Wen Foundation
Johnston Contractors Inc
Milling Millwork Contracting Inc
Ortinau Building
P. J. Hoerr
Paint Depot Inc
Parker Rentals
Pulte Homes Corporation-IL Div
Scott Insurance Agency
Sprague Construction Co
State Farm Companies
Sutter Enterprises
Wedgwood and Co LLC

WHAT'S NEW IN TECHNOLOGY

NEW FACULTY MEMBERS

Dan Wilson has taught printing management in higher education for 14 years, most recently at Penn State's Pennsylvania College of Technology. He has also worked in the printing industry as a lithographic press operator and technical trainer. He holds a B.S. and M.S. in Technology from Northern Illinois University and the Doctor of Industrial Technology degree from the University of Northern Iowa. Dr. Wilson is author and coauthor of several successful textbooks and training manuals used for printing education. He moved here with his wife Katy and three grade school-aged children. In addition to teaching courses and conducting research, Dan is also serving as sequence coordinator.



Keith Rahn has joined the Department of Technology as an Instructor in the Construction Management Sequence. He received his Master's Degree from Ball State in Indiana. Keith has fifteen years of experience in the construction and engineering fields. In addition, Keith has taught middle school courses in manufacturing and construction. Keith is teaching TEC 222- Mechanical and Electrical Systems for Buildings, TEC 123 - Construction Documents and Quantity Takeoff, TEC 229 - Cost Estimating and Project Planning, and TEC 394 - Construction Management and Administration.

SEQUENCE UPDATES

Technology Graduate Certificates were awarded to eleven students; two in Training and Development; John Ferrentino, and Martin Pakla, and nine in Project Management; Dan Densburger, Raymond Dixon, John Ferrentino, Doug Bishop, Dennis Draper, Feby George, Matthew Powell, Karthikeyan Murugesan, and Martin Pakla. **Ten Technology students** earned their master's degrees last year; Scott Gummow, John Ferrentino, Martin Pakla, Dan Densburger, Tom Mirus, Michael Geist, Michael Foss, Debbie Fazio-Carroll, Tim Lucas, and Cory Culbertson.



Doug Bishop, a Project Management student in the Technology Graduate Program received the Project Management Institute Central Illinois Chapter's Professional Development Award on Thursday, September 4, 2003. This award is based on merit as measured by academic performance and extracurricular activities. Doug participated in a project for the United Way to find ways to increase funding and participation in volunteer activities by 18-35 year olds.

The Printing Management and Imaging Technologies Sequence made a major operating system change in their Macintosh labs over the summer, switching from OS 9 to OS X. In addition, an Apple X Serve (server) was added to the lab. The server will be used for lab management, file sharing and storage, and printing control. An HP Color LaserJet 5500 has also been added, which will be used for color design proofs.

The Construction Management Sequence. A 12-station course of surveying monuments was installed around Turner Hall on August 6, 2003. The monuments were provided and installed by the Heart of Illinois Chapter of Professional Land Surveyors. Mike Mohr of Clark Engineering coordinated the project with volunteer assistance from personnel from Randolph Engineering, Farnsworth Group, and Survey Instrument Consultants. Clark Engineering, Farnsworth Group and Will-Grundy Counties Home Builders and Associates provided funding for the project. The monuments will be used for instructional purposes by Construction Management students in TEC 233 Surveying and Building Layout.

TEC 223 Surveying and Building Layout students using the new 12-Station Monuments



In addition the CM sequence acquired a surveying total station - Electronic Distance Measurement (EDM) during summer 2003. A total station is the most widely used type of survey instrument used for building layout. Students will now have the opportunity to learn to shoot elevations, develop contours and invert elevations for pipe laying operations using both laser and EDM technology.

WHAT'S NEW IN TECHNOLOGY

Kevin Devine successfully defended his doctoral dissertation, "Using Instructional Design to Improve Knowledge Transfer in Manufacturing Education". He received his PhD in from Illinois State University's Curriculum and Instruction Department. Congratulations Dr. Devine!

The First Annual Construction Management Alumni Meeting will take place at the Doubletree Suites in Downers Grove, Illinois on Friday, November 7, 2003 at 7:00 p.m.

Technology Education faculty and graduate assistants (Rodney Custer, Chris Merrill and Michael Daugherty, Dustin Wyse-Fisher, Katherine Weber, and Erik Rich) participated in the ProBase Project over the summer 2003. The ProBase Project is developing technology curriculum for high school students. Seventeen technology teachers from across the country participated in the initial two week session. The Technology Education Collegiate Association (TECA) and graduate students in the technology education program have given several refereed presentations at state and international conferences, completed an action research-based project covering the Midwestern states, are completing joint research on biotechnology with another university, have published several refereed publications in technology education journals, constructed a insulation testing device for the Ecology Action Center, and are continuing to help the Illinois TSA with their local and state conferences.

The Industrial Computer Systems Sequence has a new addition to its collection of servers! Our new server will be used exclusively for Linux/Unix purposes. This server will allow us to expand our horizons into the world of Open Source Code operating systems, and provide students with the opportunity of working in a mainframe type arena. We are very happy to add this opportunity to our students. Linux/Unix has been highly successful in industry and is a good skill to put on our graduates' resume. Industry leaders and our Advisory Board have been instrumental in adding this cutting edge technology for our sequence.

Anu Gokhale's NSF project "Pathways" has begun integrating STEM material into select Foundations of Inquiry classes. The themes are "understanding the role of science and technology in society", and "how to prepare oneself to live successfully in a technologically-sophisticated society" combined with a more gender-related subtext - choosing female scientists as authors, showing female engineers and technologists at work, or raising the issue of gender bias in science research.



30-ton Injection Molding Machine donated by Winzeler Gear

The donation represents a significant addition of contemporary technology that will be used to advance the quality of our manufacturing technology program. The new machine showcases contemporary control technology to new students and provides more sophisticated process control for advanced students than the machine it replaced. The new components replace old and worn equipment and additionally incorporate solenoid controlled valves and various types of electrical switches. These new features will allow us to introduce students to electrically controlled pneumatic circuits, the most common type used today. This is a new opportunity for students to integrate two areas of study, electricity and fluid power, and prepare them for using PLCs (Programmable Logic Controllers) to control automated systems.

Ron Meier, Klaus Schmidt and Dan Brown initiated a Project Management Certification Program for business and industry senior management executives. This program is being offered through Extended University and Illinois State University. It is a thirteen week program with 75 contact hours of instruction. For additional information, please contact the Extended University Office at (309) 438-5288.

FACULTY SEARCHES

Two tenure track faculty searches have been approved for the Department of Technology for this academic year. One position is in the **Construction Management Sequence**, with an emphasis on construction materials and methods; surveying and building layout; computer applications in construction; project management; construction finance and accounting; contracts and law; equipment management; mechanical and electrical systems; and building codes.

The second approved position is in the **Integrated Manufacturing Sequence** in the areas of CAD and automated systems. The job description specifies competence in engineering drawing conventions with emphasis on product design and working drawing creation using CAD (2-D and 3-D modeling). Candidates will also need to demonstrate competence in manufacturing automation including computer numerical control, NC verification, robotics, programmable control, and

coordinate measuring machine programming/operation.

If you know of qualified individuals who should consider this opportunity to join the faculty, please encourage them to apply or contact us with their information so that we can make contact. Full position announcement information is located on the Department of Technology website at: http://www.cast.ilstu.edu/tec/faculty_staff/faculty_pos_none.shtml

2003 DISTINGUISHED ALUMNUS

Dr. Linda Rae Markert has been selected as this year's Department of Technology Distinguished Alumnus. Dr. Markert is the Dean of the College of Education at the State University of New York at Oswego. While Dean, SUNY Oswego's School of Education received accreditation of its educator certification programs by the National



Council for Accreditation of Teacher Education (NCATE). She holds a tenured professorship and chaired the Department of Technology. Dr. Markert co-authored *Contemporary Technology: Innovations, Issues, and Perspectives* in January 2003. She has also been published in a number of professional journals

and books, has served on various editorial boards, and is a renowned public speaker.

There will be a reception honoring Dr. Markert on Friday, October 17, 2003 in Turner Hall 104A from 9:30 to 10:00 a.m. Following the reception, Dr. Markert will give a presentation from 10:00 to 11:00 a.m.

2004 TECHNOLOGY CAREER DAY

It's just around the corner! The 2004 Technology Career Day is scheduled for Friday, February 13, 2004. If you or your company are looking for an intern, or a full or part-time employee, consider participating in the 2004 Technology Career Day. In order to participate, please send in a business card or contact:

Kevin Devine
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Perspectives
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Printed on recycled paper

Perspectives is
published for
Department of
Technology alumni
through the support of
the
Illinois State University
Foundation.