

SCHOOL OF TECHNOLOGY FACULTY HIGHLIGHTS 2010-2011

Rendong Bai - Assistant Professor, PhD., 2007, University of Kentucky

Proposal "3D Vision Platform for Computer Aided Design" won Eastern Illinois University FY11 Redden Grant.

Proposal "Wireless Network Connectivity for Solar Energy Deployments" Won 2011 LCBAS Research/Creative Activity Grant.

Conference Proceedings: Rendong Bai, Yu-Ju Wu, and Peter Ping Liu, "Technologies Behind the 3D Movie Avatar," Association of Technology, Management, and Applied Engineering (ATMAE) 2010 Conference Proceedings, Panama City Beach, Florida.

Engaged in "EIU Center for Clean Energy Research and Education (CENCERE)", \$56,500 approved funding from Charleston Area Charitable Foundation. The project was led by Dr. Peter Ping Liu.

Graduate Faculty Marshal, EIU 2010 Fall Commencement

Bruce K. Barnard - Instructor, M.S., 2004, Eastern Illinois University

April, 2011 Felstehausen-Boldrey Excellence in Career & Organizational Studies Award
Presentation - Responding to Crisis in Persons with Co-Occurring Substance Abuse and Mental Illness East Central Illinois Police Training Project

Presentation - Stages of Change, Applications for Working With Persons Who Are Homeless Transitional Initiatives and Men's Empowerment Services Center

Presentation - Strength-Based Coaching for Executives United Way

Presentation - Telephone Crisis Intervention for Substance Abuse Crisis Line Volunteer Training

Kaninika Bhatnagar - Assistant Professor, PhD., 2008, Eastern Michigan University

Bhatnagar, K., & Brake M. L. (2010). "Gender differences in technology perceptions of high school students and their intent to choose technology college majors", *Journal of Engineering Technology*, American Society of Engineering Education (ASEE), 27(2), 8-16.

Bhatnagar, K. (2010). "Engineering Technology and Gender: Enhancing Voice and Access for minority groups by Curricular Design for Distance Learning", *Proceedings, 3rd. International Multi-Conference on Engineering and Technological Innovation (IMETI 2010)*, Orlando, USA, July 2010, pp.176 – 180

Bhatnagar, K. (2010). "Modeling Instruction for the Net Generation: The Use of New Media to Frame Classroom Conversation In A Graduate Seminar Course: Possibilities and Predicaments", *Proceedings, ATMAE Annual Conference*, 159-165, available at <http://atmae.org/conven/ATMAE2010ConfProc.pdf>

Invited speaker for WISM SP11, College of Science event: "Overcoming Barriers: Diverse Women in Science at Eastern Illinois University", Mar 4, 2011, 6-8 pm, Booth Library, EIU

Julie Chadd - Associate Professor, Career and Technical Education Coordinator, Ph.D., 2003, Southern Illinois University-Carbondale

President of the Illinois Business Education Association

Advise Pi Omega Pi, the national business education honor society

Chadd, J. (2011, February). *Active Learning Strategies: Moving from Sit, Listen, Learn, and Memorize to Engage, Explore, Evaluate, and Extend*. Orlando, FL: 2011

Association of Teacher Educators Annual Meeting.

Chadd, J. (2010, October). *Building Your Cooperative Education Program*. Charleston, IL: Fall Classic Institute, Regional Office of Education #11.

John S. and Margaret Redden Fund for the Improvement of Undergraduate Instruction (2010). Purchase Teaching Skills and Strategies Materials for Career and Technical Education Program. (\$1,500)

Rigoberto Chinchilla - Assistant Professor, Telecommunication Laboratory Coordinator, Ph.D., 2004, Ohio University

2010 recipient of the William G. Kirk International Leadership Award for the significant leadership in the internationalization of the EIU campus.

Chairman of the Second Student Research School of Technology Symposium

Presenter at the ATMAE

Incorporated as a referee in the Journal Of Industrial Technology

Peer reviewed Publications:

a) "Wind Power Technologies in the United States: A Technical Comparison between Vertical and Horizontal Axis Wind Turbines" (Journal Of Industrial Technology) (JIT)

b) "Facial Recognition System Screening Evaluation Methodology for Complexion Biases" (American Society for Engineering Education (ASEE))

Jerry Cloward - Assistant Professor, Production Laboratory Coordinator, PhD., 2008, Utah State University

Presentation and publication: 2010 ATMAE Annual Conference: *Bridging the Gulf with Hearing Protection: A Classroom Study on the Effectiveness of Alternatives to Commercial Hearing Protection*.

Elected to second term on the COTE Committee.

Directed students in the metal fabrication of the new Fox Ridge State Park sign.

Advisor to the CTE Technology Education Teacher Association (TECA) Club

Karen Drage - Assistant Professor, Ph.D., 2005, Southern Illinois University-Carbondale

North Central Business Education Association President

University Strategic Planning Committee

Association of Career and Technical Education School Reform Committee

Drage, K. (2011, February). Preparing the next generation of entrepreneurs: Teaching resources to promote transition from the classroom to the conference room, *National Business Education Forum*, 65(3), 35-41.

Drage, K. (2010, Winter). Professional development: Implications for Illinois career and technical education teachers. *Journal of Career and Technical Education*, 25(1), 24-37.

Gabe Grant - Instructor, Digital Printing Laboratory Coordinator, MS., 2008, Eastern Illinois University

Samuel A. Guccione - Associate Professor, Automation and Control Laboratory Coordinator, Ed.D., 1992, Temple University-Philadelphia

Created the Alternative Energy and Sustainability Concentration which was approved Fall 2011

"Wind Power Technologies: A Need for Research and Development in Improving VAWT's Airfoil Characteristics" (Dr. Rigoberto Chinchilla, Dr. Samuel Guccione, & Mr. Joseph Tillman) published in the online *Journal of Industrial Technology* Volume 27, Number 1.

Faculty member for the EIU Solar PV Beta Test Site sponsored by Indeck Energy Services, Inc.

Students in Spring 2011 Semester Machine Design AET3703 class are designing the mounting frame and support structure for the PV Solar Panels to be used at the Indeck Energy Service, Inc. Test Site.

Thomas Hawkins - Associate Professor, Career and Organizational Studies Coordinator, Ed.D., 1994, University of Illinois-Urbana

Served as acting assistant chair of the School of Technology beginning January, 2011. Initiated with Dr. Tom Boldrey a physicians academy for Sarah Bush Lincoln Health Systems.

Received on behalf of Organizational and Professional Development program the EIU Technology Day award for "excellence in use of technology" for online program development and delivery.

R. Lance Hogan - Assistant Professor, Ph.D., 2005, Southern Illinois University-Carbondale

Recipient of EIU Achievement & Contribution Award, November 2010.

Thesis Advised: Rausch, T. (2010). The Relationship between the Myers-Briggs Type Indicator and the Dispositional Resistance to Change Scale

Publication: Flowers, W., & Hogan, R.L. (2010). Employee development approach for generation yers: A conceptual framework. *The Journal of Global Business Management*, 6(1), 170-177.

Presentation Hogan, R. L. (2009). "The Bortz Learning Module: A Framework for Industrial Technology Curriculum Development." Presented 10/13 at The Association of Technology, Management, and Applied Engineering, Louisville, KY.

Presentation Hogan, R. L. (2009). "Myers-Briggs Preference Types of Technology Graduate Students." Presented 10/12 at The Association of Technology, Management, and Applied Engineering, Louisville, KY.

Peter Ping Liu - Professor, Coordinator of Graduate Studies, Ph.D., 1991, Iowa State University

R. Bai, J. J. Wu and P. P. Liu, Technologies behind the Phenomenal 3D Movie Avatar, Proceedings of Association of Technology, Management and Applied Engineering (ATMAE), Oct. 28-30, 2010

V. Chandra and P. P. Liu, Making the Leap of Understanding: Metaphors for Expanding Student Learning in Technology Association of Technology, Management and Applied Engineering (ATMAE), Panama City, FL, Oct. 28-30, 2010

R. Bai, J. J. Wu and P. P. Liu, Technologies behind the Phenomenal 3D Movie Avatar, Association of Technology, Management and Applied Engineering (ATMAE), Panama City, FL, Oct. 28-30, 2010

P. P. Liu, Integrated Renewable Energy Research and Education: A Mission to Balance Economy and Environment, Annual Meeting of Illinois Deans of Arts and Sciences, Mattoon, IL, Sept. 30, 2010.

Patent: P. Bonutti, M. Cremens and P. Liu, Method for Implanting a Flowable Fastener, (United States Patent 7879072, Released Feb. 2011)

Tom McDonald - Assistant Professor, Ph.D., 2005, Virginia Polytechnic Institute and State University

Presentation: "Utilizing Simulation to Evaluate Production Line Performance Under Varying Demand Conditions" at the 2011 International Association of Journals and Conference – American Society of Engineering Education Joint Conference - in West Hartford, CT April 28 – 30 2011.

Received Six Sigma Green Belt certification.

Jim McKirahan - Instructor, Polymers Laboratory Coordinator, M.S., 1994, Eastern Illinois University

Completed feasibility study toward manufacturing research using Polyhydroxyalkanoate (PHA) to develop polymer clay nanocomposites for market application.

David Melton - Assistant Professor, Materials Testing and Computer Integrated Manufacturing Laboratories Coordinator, Ph.D., 2007, Utah State University

Nominated and Invited to full membership to the Mississippi Valley Technology Teacher Education Conference. The longest Technology Teacher Association in the world.

ATMAE Conference Presentation: "Development of Learning Objectives for an Undergraduate Electrical Discharge Machining Technology Course Using the Delphi Technique".

ATMAE Conference Presentation: "Bridging the Gulf with Hearing Protection: A Classroom Study on the Effectiveness of Alternatives to Commercial Hearing Protection" with Dr Jerry Cloward.

Instrumental in the coordination of the School of Technology – Graduate Program – Technology Management – Chicago Cohort

Instrumental in the Curriculum and Instruction development of the architectural CAD software – Chief Architect.

Luke Steinke - Assistant Professor, Ph.D., 2006, Southern Illinois University-Carbondale

Association for Career and Technical Education - Board of Directors (Engineering and Technology Education Division – Vice President)

Steinke, L. J. (2010). *Mentoring teachers in technology education: Analyzing the need*. Manuscript submitted for publication to the Journal of Technology Studies.

Steinke, L. J. & Putnam, A. R. (2010, December). *Model mentoring programs for technology education teachers*. Manuscript accepted for presentation for at the 2010 Association of Career and Technical Education Conference, Las Vegas, NV.

Fazarro, D. E. & Steinke, L. J. (2010, December). *Creating Nanotechnology Courses Using the DACUM Approach: Linking Academia and Industry to Create Programs for the 21st Century*. Manuscript accepted for presentation for at the 2010 Association of Career and Technical Education Conference, Las Vegas, NV.

Grant, G. J. & Steinke, L. J. (2010, October). *Could you spare some change? Developing cost effective integrative learning for digital and print media courses in financially constricted times*. Manuscript accepted for presentation for at the 2010 Association of Technology, Management, and Applied Engineering Conference in Panama City, FL.

Wafeek Wahby - Professor, Industrial Technology Coordinator, Ph.D., 1988, University of Alexandria, Egypt

Worked with SoT Chair, Assistant Chair, colleagues, and staff and Chaired the effort on preparing the Self Study Report for the 2011 reaccreditation of the Applied Engineering and Technology (AET) program by The Association of Technology, Management, and Applied Engineering (ATMAE). The ATMAE visiting team recommended the program for reaccreditation.

Administered the on-campus 2011 ATMAE reaccreditation Team Visit, and will later represent the AET program at the Hearing Sessions during the 2011 Annual ATMAE convention, to acquire the ATMAE reaccreditation of the AET program.

ATMAE paper: "Producing Thermoplastic Polymer Concrete Blocks from Non-Recyclable Non-Biogradable Thermoplastic Scrap,"

ATMAE paper "Development of Polymer Concrete Solar Tile Panels.

Developed "A Blackstone View of Precast Prestressed Concrete, October 2010," a video production of a documentary that would be used as instructional material to explain the manufacturing processes involved in producing this specialty construction elements.

Deborah A Woodley - Professor, Assistant Chair, Ph.D., 1994, University of Illinois-Urbana

Served as Interim Chair for School of Technology October – July

Designer & Editor of School of Technology Newsletter

Photographic Expedition to China

Recipient: Redden Fund grant

Mandy Wu - Assistant Professor, PhD., 2008, Western Michigan University

Board member of the Technical Association of the Graphic Arts (TAGA), March 2011 – present.

Conference Presentation, September 2010, "Key Factors Affecting Color Reproduction on Polyester Fabrics Using Heat Transfer Printing," Pittsburgh, PA

Conference Presentation, March 2011, "The Effects of Lamination on Image Quality and Light Stability of Display Media," Austin, TX.

Received Redden grant for \$1,500 (Project title: Application of Automatic Digital Combo Heat Transfer Press).

Received 2011 Lumpkin College of Business and Applied Sciences Faculty Research/Creative Activity Grant for \$1,000 (Project title: Key Factors Affecting Color Reproduction on Garments Using Heat Transfer Printing).

Diana Wyatt - Assistant Professor, PhD., 2009 Capella University

Completed two advanced courses to received Mastery Certification in Experiential Learning from Council for Adult Experiential Learning Attended University of Illinois' Faculty Summer Institute

Delivered three presentations at the National PBL Conference in Nashville, TN Delivered two presentations at Illinois Business Education Association Conference in Springfield, IL

Delivered two presentations at Illinois Association for Career and Technical Education in Effingham, IL Advisor for PBL

Adjunct Faculty

Linda Allen
Tom Boldrey
Karen Deering
Kimberly Hogan
Pat Laube
Roger Luft
Dave Pollard
Fidel Salinas
Cecil Smith
Lorenzo Smith
Robert Stevens
Mandana Toosi
Robert Wiseman