

## School of Technology Faculty Accomplishments, 2014-2015

### **Dr. Rendong Bai**

**Assistant Professor, Ph.D., 2007, University of Kentucky**

Rendong Bai and Peter Ping Liu, "Develop an Effective Way to Multi-Task While Messaging on Mobile Devices," 2014 Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference, November 19-22, 2014, St. Louis, Missouri.

Rendong Bai, Jerry Cloward, and Peter Ping Liu, "Curriculum Development for Renewable Energy Education," 2014 Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference, November 19-22, 2014, St. Louis, Missouri.

George Buzard, Peter Ping Liu, and Rendong Bai, "Renewable Energy and the Future of Electric-Based Cars," 2014 Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference, November 19-22, 2014, St. Louis, Missouri.  
2014 EIU Redden Grant "Cloud Computing Lab Test Environment," \$1422.

Ongoing NSF grant "Enhancing Undergraduate Education Through Student-Led Research in Biomass Renewable Energy," \$198,695. In collaboration with Dr. Peter Ping Liu (PI), Rose Zhang Gong, Jerry Cloward, Isaac Slaven, and David Melton.

### **Mr. Bruce Barnard**

**Instructor, M.S., 2004, Eastern Illinois University**

Recipient of a Redden Grant to purchase materials used in a work redesign simulation in OPD 4820, Change in Organizations.

#### Presentations

July 31, 2014 Champaign County Crimestoppers  
Mental Health, Substance Abuse, and Crime: What is the Relationship?

Sept. 22, 2104 Crisis Line of Champaign County  
Co-Occurring Mental Health and Substance Use Issues

Nov. 13, 2014 Champaign County Board (Public Meeting)  
Criminal Justice Response & Community Reentry

Dec 3, 2014 University of Illinois & the Ministry of Justice, China  
With Allen Jones, Chief Deputy Champaign County Sheriff's Office  
Designing, Implementing, and Evaluating Community-Based Criminal Justice and Prisoner Reentry Programs to enhance Public Safety and Reduce Recidivism

**Ms. Kelly Best**  
**Instructor, MBA, 2008, Eastern Illinois University**

University of Illinois College of Education - Thelma & Orin Hove Scholarship recipient - Oct 2014

Presented at the International Academy of Human Resource Development Conference - Literature Review - Utilizing Practice-Based Educational approaches to develop Instructional Design novices - February 19, 2015

Presented at the UIUC College of Education Graduate Conference - An Integrative Literature Review on Continuing Professional Development for Trainers and Instructional Designers

**Dr. Wutthigrai Boonsuk**  
**Assistant Professor, Ph.D., 2009, Iowa State University**

Boonsuk, W. & Surjadi, F. F. (2015). Gender Differences in 3D Stereoscopic Vision for Teleoperation. Presented at International Convention of Psychological Science (ICPS). Amsterdam, Netherlands.

Boonsuk, W. (2015). Usability of stereoscopic view in teleoperation. Proceeding of SPIE-IS&T Electronic Imaging: Stereoscopic Displays and Applications XXVI, 93911G.  
doi:10.1117/12.2083383.

Boonsuk, W. (2014). Development of GIS-Based Approach for Facilities Layout Planning. Presented at the ATMAE Conference: Technology-Tomorrow's Gateway, St. Louis, MO.

Boonsuk, W. Handheld 3D scanner for rapid prototyping applications. Funded by Eastern Illinois University, Redden Fund for the Improvement of Undergraduate Instruction (FY15), \$1,450.

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

Advisor, Pi Omega Pi – National Business Education Honor Society

Chadd, J. & VanGuntten, D. (2015, February). Finding Our Voices: Preparing Pre-service Teachers to Work Effectively with English Language Learners. Phoenix, AZ: 2015 Association of Teacher Educators Annual Meeting.

Chadd, J. (2014, November). Building the Bridge through Service Learning. Bloomington, IL: Illinois Business Education Association Fall Conference.

Member, Policies Commission for Business and Economic Education

Member, The Agnew Group

**Dr. Austin Cheney**  
**Chair, School of Technology, Ph.D., 2011, Vanderbilt University**

Cheney, A. C., Pence, K. R., and Dilts, D. M. (2014). Organizational Impacts of Participation in Development of Industry-Level Technology Roadmaps. 2014 IAJC-ISAM Conference, Orlando, FL. September, 2014.

Cheney, A. C. (2015). Viability of an Engineering Technology Internship Program at a Rural Institution. 2015 Conference of Industry and Education Collaboration Conference Proceedings. Palm Springs, CA. February, 2015.

EIU Campus Representative, Louis Stokes Midwest Center of Excellence

Executive Committee, Central Illinois Non-Profit Training Institute

Vice President of Marketing and Sponsorship Affairs, International Association of Journals and Conferences

**Dr. Rigoberto Chinchilla**  
**Associate Professor, Telecommunication Laboratory Coordinator, Ph.D., 2004, Ohio University**

Recipient of the 2014-2015 Michael R. Hoadley Instructional Technology Award

Published "Implementing Telecommunications Switching and Routing Laboratory Practices: Migration to a Distance-Learning-Based Instruction" (American Society for Engineering Education)

Telecommunication and cyber security laboratory renovation (A \$60,000 dollars investment)

Created a new course "C# technological applications"

Leadership in the creation of the Computer Technology area of study at the Bachelors of Applied Engineering and Technology.

**Dr. Jerry Cloward**

**Assistant Professor, Production Laboratory Coordinator, Ph.D., 2008, Utah State University**

Worked with students performing research and collecting data on biomass gasification resulting with presentations and publication at the ATMAE Conference and LCBAS Research Symposium.

Received a Redden Grant to help with teaching materials for biomass gasification.

Directed students from other courses working in the production lab on various projects and research for undergraduate and graduate studies including gasifier modifications, fabrication of the tension tester for rope, mechanical screening machine for UV testing, student built 3D printer, tension test samples, and Charpy's impact testing. Many of these projects provided significant research data used in presentations.

**Dr. Karen Drage**

**Associate Professor, Ph.D., 2005, Southern Illinois University-Carbondale**

Presented "Let the Games Begin: Tools to Prepare Students for College and Career Readiness" at the 2015 Connections Conference

Member of the EIU Student Standards Committee

Member of the LCBAS Curriculum Committee

Chair, School of Technology Marketing Committee

Reviewer for The Journal for Research in Business Education

**Mr. Gabriel Grant**

**Instructor, Digital Printing Laboratory Coordinator, M.S., 2008, Eastern Illinois University**

Elected First Vice-President of the Graphic Communications Education Association (GCEA)

Received 3 Redden Grants

**Dr. Thomas Hawkins**

**Associate Professor and Assistant Chair, Ed.D., 1994, University of Illinois-Urbana**

New book published in 2015, Every Step Along the Way: The Science, Technology, and Practice of Walking.

National Webinar for GBOD in July, 2015, Group Dynamics: Implications for Teaching and Learning.

**Dr. R. Lance Hogan**

**Associate Professor, Ph.D., 2005, Southern Illinois University-Carbondale**

Recipient of EIU Achievement & Contribution Teaching Excellence Award, November 2014.

Recipient of ACTE Distinguished Service Award, November 2014.

Adams, R.E., Hogan, R.L., Steinke, L.J. (2015). DACUM: The seminal book. Wilmington, DE: Edwin & Associates.

Hullinger, M., & Hogan, R.L. (2014). Student anxiety: Effects of a new student graduate orientation program. Administrative Issues Journal: Connecting Education, Practice, & Research, 4(2), 27-34.

Hogan, R.L., Cepela, D., & Fentress, B. (2014). Training evaluation: Audience response system as an evaluation tool. Journal of Education and Human Development, 3(2), 259-269.

Hogan, R. L. & Steinke, L. (2015). "Ensuring Employer Satisfaction: Designing Curriculum for Student Success." Presented 03/10 at the League for Innovation Innovations 2015 National Conference, Boston, MA.

Hogan, R. L. & Steinke, L. (2015). "The DACUM System: Developing Workplace Driven Curricula." Presented 03/08 at the League for Innovation Innovations 2015 National Conference, Boston, MA.

Steinke, L. & Hogan, R. L. (2014). "Determining the Level of Skill Needed for Trainees Using the DACUM Rating Scale." Presented 11/21 at the ACTE CareerTech VISION 2014 National Conference, Nashville, TN.

**Dr. Peter Ping Liu**  
**Professor, Coordinator of Graduate Studies, Coordinator, Scanning Electron Microscope Lab, Ph.D., 1991, Iowa State University**

Faculty Excellence Award, Association of Technology, Management and Applied Engineering (ATMAE), St. Louis, MO, November 21, 2014.

Invited on behalf of CENCERE: “Developing and delivering a multi-disciplinary master’s degree program on Sustainable Energy,” 2015 National Energy Education Summit, Council of Energy Research & Education Leaders (CEREL), Washington, DC, Jan. 26, 2015.

Hosting Dr. Xia Xia Hu, from China, as a visiting research scholar at EIU.

Accepted our first Fulbright Scholar from Honduras, for Master of Science in Sustainable Energy program.

**Dr. James McKirahan**  
**Instructor, Polymers Laboratory Coordinator, Auto/Control Laboratory Coordinator, M.S., 1994, Eastern Illinois University**

**Mr. Aaron Melton**  
**Instructor, M.S., 2011, Eastern Illinois University**

Redden Grant recipient, for purchase of a heat press, 3D scanner, and drawing tablets

**Dr. David Wayne Melton**  
**Associate Professor, Applied Engineering and Technology Program Coordinator, Materials Testing Laboratory Coordinator, Ph.D., 2007, Utah State University**

2014, served as the Applied Engineering and Technology Program Coordinator for the School of Technology.

2014, Received board certification as a Master Project Manager, granted by American Academy of Project Management (AAPM)

2014, Executed and conducted an NSF Grant during summer 2014, entitled, “Enhancing Undergraduate Education through Student-Led Research in Biomass Renewable Energy”

**Mr. Sean Roberts**  
**Instructor, Coordinator, Computer Integrated Manufacturing Lab, M.S., 2011, Eastern Illinois University**

**Dr. Isaac Slaven**  
**Assistant Professor, Ph.D., 2010, Purdue University**

Published an article in The Journal of Hydraulic Engineering

Won the Provost's Undergraduate Research Faculty Mentor Award

Presented at the National Association of Tower Erector's Conference and the Association of Technology, Management, and Applied Engineering Conference

Started GRITS: Graduate Research In Technology and Sustainability refereed academic journal hosted through Eastern Illinois University's Booth Library.

Won internal funding through the Proposal Initiative Fund; the Council on Faculty Research; the LCBAS Faculty Award for Interdisciplinary Research; the LCBAS Faculty Research and Creative Activity Award; two (2) Redden Fund Awards; and by mentoring two (2) Undergraduate Research, Scholarship, and Creative Activity award winners.

**Dr. Luke J. Steinke**  
**Associate Professor and OPD Program Coordinator, Ph.D., 2006, Southern Illinois University-Carbondale**

Leadership Award – Engineering and Technology Education Division, Association for Career and Technical Education

Dean's Award for Service – EIU School of Continuing Education

Student's Choice Award - EIU School of Continuing Education

Faculty Marshal – Graduate School (Fall 2014) and School of Continuing Education (Spring 2015)

**Dr. Mori Toosi**  
**Professor, Construction Laboratory Coordinator, Ph.D., 1990, Southern Illinois University-Carbondale**

I have lead the research team to finish the first phase of the concrete research and just finished the report writing; Evaluate Feasibility of Sustainable and Economical Utilization of Biomass Gasification Byproducts, Vinod Patel, B. K. Sharma, Wei Zhang, Illinois Sustainable Technology Center, Prairie Research Institute, University of Illinois at Urbana-Champaign, Peter Ping Liu, Mori Toosi, Center for Clean Energy Research and Education, Eastern Illinois University

I have lead the research team to start and finish the second phase of the concrete research and I am in the process to finish the related article for publication; This should be done by next week.

Utilizing Biomass Gasification Ash as an Admixture in Concrete for Sustainable Environment: Phase II of An Experimental Pilot Study, Mori Toosi, Ph.D. Wafeek Wahby, Ph.D. and Peter Ping Liu, Ph.D. Austin Cheney, Ph.D. John Cabage, Ph.D. Sailesh Adhikari, GA. Holden Reel, Senior Undergraduate Student, Center for Clean Energy Research and Education

**Dr. Wafeek Wahby**

**Professor, Industrial Technology Coordinator, Ph.D., 1988, University of Alexandria, Egypt**

Honored with 2015 Ellis Island Medal of Honor from the National Ethnic Coalition of Organizations (NECO).

Honored with the Eulalee L. Anderson International Friendship Award. Dr. Wafeek Wahby was awarded the Eulalee L. Anderson International Friendship Award from the Office of International Students and Scholars and the Office of Study Abroad for his work and support of EIU international students.

Selected to serve as a Scientific Committee Member of the 2015 International Congress on Polymers in Concrete (ICPIC's 2015) scheduled for October 15-17, 2015, in Singapore.

Appointed as an ATMAE Accreditation Visiting Team Member for the reaccreditation of the Iowa State University technology and management programs.

After initiating and cohosting the first School of Technology/Physics Department, EIU campus wide educational, transdisciplinary interdisciplinary, multidisciplinary, 45-day extended Technology & Science Symposium: "Revolutions in Science and Technology Paradigms," Dr. Wahby documented and posted on the Internet that symposium, at <http://castle.eiu.edu/~wahby/>.

Initiated and administered an educational social experience for our international students: All American Thanksgiving/Christmas Turkey Dinner at the Lincoln Garden Restaurant in Charleston.

Represented the School of Technology at the Micro Nano Tech 2014 Conference (MNT- Albuquerque, NM), the ProMat Tradeshow 2015 – Material Handling in Action (Chicago, IL), the NSF Advanced Technology Education (ATE) program-ARM microprocessor workshop (Farmingdale, NY,) the 2014 High Impact Technology Exchange Conference HI-TEC (Chicago, IL,) and as a voting member at the educational and professional committees of the Precast Prestressed Institute of Illinois (PCI), the latter maintain EIU as one in eight educational institutions in Illinois that are supported by PCI.

Organized and led groups of the Applied Engineering and Technology (AET) program students in professional field trips to architectural and structural precast prestressed concrete plants as well as to other plants specializing in varying types of construction in the area.



**Dr. Diana Wyatt**  
**Assistant Professor, PhD., 2009, Capella University**

Received Redden Grant for Career Development Facilitator Instructor e-Learning Credential

Attended National Institute of Assessment Conference

Attended Council of Adult and Experiential Learning Conference

**Adjunct Faculty**

Bryan Baker

Erik Benson

Tom Boldrey

Deborah Cloward

Bev Cruse

Evelyn Davidson

Karen Deering

John Gaal

Kimberly Hogan

Todd Kleine

Thomas MacMullen

Lorenzo Smith

R. Scott Stevens

Mandana Toosi

Robert Wiseman