2008 Engineering Technology Education Bibliography

Compiled by

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Introduction

The 2008 bibliography lists books, articles, and proceedings papers related to engineering technology education under the following headings: administration, aerospace/aviation, architectural, assessment, biomedical/biotechnology, civil, computers, curriculum, distance education, diversity, electrical/electronics, faculty development, industrial, industry/government/employers, information technology, instructional technology, international, laboratories, liberal studies, manufacturing, mechanical, nuclear, teaching methodology, tech prep, technical communication, and technical graphics. Five categories—instructional technology, liberal studies, teaching methodology, technical communication, and technical graphics—include listings reflecting general technical education concerns.

Entries are listed according to area of primary emphasis, and items that apply to two or more academic disciplines are entered under the area of major interest. For example, ECET-related items are included under “Electrical/Electronic”; mechatronics papers are listed under “Mechanical.” We apologize for any entries that may have been missed or inadvertently placed in the wrong category.

Contributors

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Abbreviations


INTERTECH  Proceedings of the International Conference on Engineering and Technology Education. March 2-5, 2008, Peruibe and Santos, Brazil. Proceedings are available on CD.


Administration


Bernstein, Stuart. “Developing an Interdisciplinary Service Learning Collaboration amongst University, Community College and High School Programs.” CIEE.

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Dandu, Raju, and John DeLeon. “Kansas State’s Elite Scholarship Program Enhancing Lives through Technology and Engineering.” ACP.

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Gehrig, Bruce et al. “A Comprehensive and Integrated Approach to Increase Enrollments in Engineering Technology.” ACP.

Genis, Vladimir, and Gerry Marekova. “Applied Engineering Technology Program’s Curriculum.” ACP.

Hill, Warren. “Accreditation of Engineering Technology Associate Degree Programs.” ACP.
Hundley, Stephen et al. “Enhancing Engagement in Faculty Governance.” ACP.


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Baluon, Katie et al. “No Hassle Check-in of Aircraft Customers and Baggage.” IJME. Paper no. 043.


Architectural

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Cowan, Daniel. “A Client-Based Assessment Tool for Service Learning Projects.” *ACP.*

Cowan, David. “Ditching Digital: The Building of Physical Miniatures.” *ACP.*

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Ding, Suining. “Cognitive Mapping in Service Learning and Civic Engagement in a Studio Course with an ADA Accessible Project.” *ACP.*

Haque, Mohammed, and Pallib Desgupta. “An Architectural Walkthrough Using 3D Game Engine.” *ACP.*


Hsu, Kun-jung et al. “Exploring the Eco-Pedagogy of an Urban Eco-Tourism Hill Path Design.” *ACP.*


Nichols, Anne. “Using Calibrated Peer Review as a Teaching Tool for Structural Technology in Architecture.” *ACP.*

Nickolson, Darrell. “Merging ADA & LEED to Enhance Older Adult Living: A Capstone Project.” *ACP.*

Assessment

Anitsal, Meral. “An Exploratory Assessment of Distance and On-Ground Delivery of Business, Math and Engineering Technology Courses.” *ACP.*

Balascio, Carnine et al. “Nationally Normed Exams for Outcomes Assessment of Engineering Technology Programs and Certification of Engineering Technology Graduates.” *ACP.*

Biney, Paul et al. “Development of Performance Criteria for Assessing Program Outcomes in Engineering, Engineering Technology & Computer Science Programs.” *ACP.*


Carpinelli, John et al. “A Rubric to Evaluate Standards-Based Lesson Plans and Students’ Achievement of the Standards.” *ACP.*

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Chin, Robert. “Characterizing the Engineering Technologists: Implications for Program Assessment.” *ACP.*

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Das, Nirmal. “Assessment and Evaluation of Engineering Technology Program Outcomes Using Direct Measures.” *ACP.*


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Ahn, Yong Han et al. “Integrated Sustainable Construction: A Course in Construction for Students in the U.S.A.” ACP.


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Shaurette, Mark. “Implementation of Wireless Webcam Technology for Construction Management Field Trips.” ACP.


Varma, Virendra. “Advances in the Production of Shop Drawings and Their Impact on Constructability.” ACP.

Vidalis, Sofia, and Joseph Cecere. “A Model Partnership between Penn State Harrisburg’s Construction Engineering Technology Program and the Construction Industry.” ACP.


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Attarzadeh, Farrokh. “Innovations in Laboratory Development for Computer Engineering Technology Programs.” *The Technology Interface* 9, no. 1 (Fall 2008). Available at [http://technologyinterface.nmsu.edu/Fall08/](http://technologyinterface.nmsu.edu/Fall08/).


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Helps, C. Richard, and Mark Patterson. “Keeping Technology Courses Current While Minimizing Disruption to the Instructional Design.” ACP.


Jablokow, Kathryn, and Danielle DeCristoforo. “Sorting Out Creativity in Design Assessment.” ACP.

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Hsuing, Steve et al. “Design and Develop a Cost Effective Microcontroller Training System for Distance Learning Engineering Students.” ACP.

Lewis, Vernon. “Effective Execution of Surveying Laboratories in Distance Learning Using Local Mentors.” ACP.

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Rajagopal, Chitra. “Distance Learning Delivery of a Web-Based Degree in Electrical/Electronics Engineering Technology, Which Incorporates Hands-On Laboratory Experiments and Real Time Video.” *ACP.*


**Diversity**

Agajanian, Aram et al. “Multiple Regression Analysis of the Factors That Affect Male/Female Enrollment/Retention in Electronics and Computer Engineering Technology Programs at a For-Profit Institution.” *ACP.*

Bilen-Green, Canan et al. “Mentoring Young Girls into Engineering and Technology.” *ACP.*

Birmingham, Stacy, and Mara Wasburn. “On or Off the Tenure Track: The Work Lives of Women Engineering and Technology Faculty.” *ACP.*

Brožovj, S. et al. “The Increasing Integration of Young Worker’s Rate, Especially Woman, into Research of Complex Environment Protection.” *ICEE.*


Harris, Kara. “Recruitment in Engineering/Technology Teacher Education: Factors That Influence Females.” *ACP.*


Kowalski, Joan, and Tracie L. Brockhoff. “The ‘FIRSTE’ Fifteen Years.” *ACP.*

Leite, Pedro, and Jung Oh. “An Analysis of Successful Minority Students Enrolled in Technology Degree Programs.” *ACP.*

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Walser, Andy. “Building Academic Paths in Engineering and Technology for Underrepresented Students.” *ACP.*


**Electrical/Electronics**

Ahmadian, Mohamad H. “Promoting Critical Thinking Skills through a Capstone Course.” *GSW.*


Allen, Gale. “Concept Learning Experiment in Electronics.” *IL/IN.*

Allen, Gale. “DSP Communications Experiment.” *IL/IN.*


Azemi, Asad. “Teaching Electric Circuits Using Tablet PC and Centra.” *ACP.*

Bernadin, Shonda L., and Youakim Al-Kalaani. “An Effective Model for Course-Level Continuous Improvement in an Electrical Engineering Technology Communications Course.” SEE.


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Fong, Roger et al. “The Shower Zone 350.” The Technology Interface 9, no. 1 (Fall 2008). Available at http://technologyinterface.nmsu.edu/Fall08/.


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Kalaani, Youakim, a et al. “Bridging the Gap between Lab and Lecture Using Computer Simulation.” *ACP.*


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Mohtar, Aaron et al. “A Remote Laboratory for Microelectronics Fabrication.” *FIE.*

Moussavi, Massoud. “Bridging Health and Food Science to Electronic Engineering.” *ACP.*

Moy, Kin. “Integration of Electromagnetics (EM) and Electromagnetic Compatibility (EMC) with Electrical Engineering Technology Program.” *ACP.*


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**Faculty Development**

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Craft, Elaine et al. “Addressing Faculty Development as a Vital Step in Transformational Change to Improve Engineering Technology and Technician Education.” *ACP*.

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Khan, Ahmed et al. “Students’ Perceptions of the Importance of Faculty Technical Currency, Teaching Techniques, and Their Commitment to Student Success for Their Learning Success.” *ACP*.

Zhang, James et al. “Scholarship Reconsidered and Its Impact on Engineering and Technology Graduate Education.” *ACP*.

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Scachitti, Susan et al. “Adding Lean and Six Sigma to Industrial Engineering Technology Programs: Does This Constitute a Change in Curriculum?” *ACP*.


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Stickel, Micah, and Sean V. Hum. “Lessons Learned from the First-Time Use of Tablet PCs in the Classroom.” *FIE.*

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**Biography**

Marilyn Dyrud is a full professor in the Communication Department at Oregon Institute of Technology and regularly teaches classes in business and technical writing, public speaking, rhetoric, and ethics; she is part of the faculty team for the Civil Engineering Department’s integrated senior project.

She is active in ASEE as a regular presenter, moderator, and paper reviewer; she has also served as her campus’ representative for 17 years, as chair of the Pacific Northwest Section, and as section newsletter editor. She was named an ASEE Fellow in 2008 and has compiled the bibliography for more than 20 years. Currently, she serves on two division boards: Engineering Technology and Engineering Ethics.

In addition to ASEE, Marilyn is active in the Association for Practical and Professional Ethics and the Association for Business Communication, serving on the editorial boards of two journals and editing a teaching column for ABC’s pedagogical journal.

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