Introduction

The 2013 bibliography lists books, articles, and proceedings papers related to engineering technology education under the following headings: administration, aerospace/aviation, architectural, assessment, biomedical/biotechnology, civil/construction, computers, curriculum, distance education, diversity, electrical/electronics, faculty development, industrial, industry/government/employers, information technology instructional technology, international, laboratories, liberal studies, manufacturing, mechanical, nanotechnology, renewable, service learning, teaching methodology, STEM, technical communication, and technical graphics. Several categories include 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. We apologize for any entries that may have been missed or inadvertently placed in the wrong category.

Contributors

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Abbreviations


NC  Proceedings of the ASEE 2013 North Central Section Conference. April 5-6, 2013, Columbus, Ohio. Proceedings are available at http://www.asee-ncs.org/


StL  Proceedings for the ASEE 2013 St. Lawrence Section Conference. April 5-6, 2013,

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Barnes, James L., Michael J. Dyrenfurth, and Susan Kuric Barnes. “Developing Innovation Capabilities and Competencies for Undergraduate Engineering and Technology Education.” ACP.


Dempsey, Ron D. “Boundary Work between Engineering and Engineering Technology: Knowledge, Expertise, and Power at Southern Polytechnic University.” ACP.


Johnson, Keith V. “Recruiting Post Docs to Diversity [sic] the Faculty in Engineering Technology.” ACP.

Latif, N., and J. Colwell. “Design, Development and Implementation of a Master of Science Degree in Modeling, Simulation, and Visualization.” ACP.


Miller, Amy L., and Jerry Samples."Obtaining Critical Mass and Coalescence in Engineering Technology–Moving an ET Program to a Successful Community.” ACP.

Richter, Donald C. et al. “A Formal Research Study on Correlating Student Attendance Policies to Student Success.” ACP.

Scherrer, Christina R. “Improved Retention and Other Impacts Benefiting Engineering Technology Undergraduates Involved in High School Outreach.” ACP.

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Jaramillo, Rebecca, and Colin Britcher. “Real-World Design Challenges–A Crucial Component of STEM Teaching and Learning.” SEE.

Khalid, Adeel. “Autonomous Patrol ad Surveillance System (APSS)–A Student Project to Aid the Campus Police.” ACP.


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Thorn, M. Barbara Silver, and Karla Bustamante. “North American Consortium on Rehabilitation Engineering and Technology for the Individual (NARETI).” **WIP. ACP**.


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Esmaeily, Asad. “Enhancement of Learning by Hands-On Experience in Design of Reinforced Concrete Structures.” **MW**.

Fattic, Jana, Andrew N. S. Ernest, and Joseph Lee Gutenson. “Water and Wastewater Technician Education.” **ACP**.


Kuzmar, Aiman Said. “Mini-Session Compared to Normal-Length Courses in the Construction Management Program at Sam Houston State University.” **MID2**.


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Little-Wiles, Julie M. et al. “Student Engagement Strategies in One Online Engineering and Technology Course.” *ACP*.

Pan, Rui (Celia), Joyce B. Main, and Matthew D. Pistilli. “Online Course Advising: Differences in Student Response by Gender and Ethnicity.” *FIE*: 1248-1253.

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Hossain, Akram. “Undefined Obstacle Avoidance and Path Planning of an Autonomous Mobile Robot in a Two-Dimensional Workspace.” *ACP.*

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Danielson, Scott, and Chell A. Roberts. “A Successful Engineering Program-Corporate Partnership.” *ACP*.

Duplisa, Derek. “Operation Phoenix.” *CIEC*.

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Friedrich, Bernadette, Terri Talbert-Hatch, and Jennifer Williams. “Strategies for Improving Cooperative Education.” *CIEC*.


Howe, Susannah, and Mary Moriarty. “Job Shadowing.” *CIEC*.

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Laux, Chad, and Diana Sanchez. “Curriculum Innovation Driven by Industry Inputs: Engineering Technology Pathways.” *CIEC*.


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Soeiro, Alfredo. “Continuing Professional Development Programs in 5 European Countries.” *CIEC.*


Widmann, James M., and K. C. Binaya. “Active Learning in Nepal: A Case Study of Effectiveness, Cultural Considerations and Student Attitudes at a South Asian University.” *ACP.*

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Ertakin, Yalcin, and Richard Chiou. “Interdisciplinary Senior Design Project to Develop a Teaching Tool: Mini CNC Mill.” ACP.


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Kalla, Devi K. “Teaching of Composites Manufacturing Course into Manufacturing/Mechanical Engineering Technology Program.” RM: 100-104.

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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, as section newsletter editor, as Zone IV chair, and has compiled the bibliography for nearly 30 years. Currently, she serves on the Engineering Technology Division Board and is a past chair of the Engineering Ethics Division. She was named an ASEE Fellow in 2008. In 2010, she received the McGraw Award and in 2013, the Berger Award.

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