

2015 Illinois-Indiana Section Conference Proceedings - Author Index

1. [Lankie Abeygunasekara, Purdue University, "Hands-on Laboratory Experience with Scanning Probe Microscopy: Challenges and Opportunities" \(Abeygunasekara.pdf\)](#)
2. [Ali Alavizadeh, IPFW, "Further improvement of a course on discrete-event modeling and simulation: a follow up study" \(Alavizadeh1.pdf\)](#)
3. [Ali Alavizadeh, \(IPFW\) "Investigating the Impact of offering Statistics on Students Success" \(Alavizadeh2.pdf\)](#)
4. [Khalid Al-Olimat, Ohio Northern University, "Integrating Entrepreneurship in Engineering Class Projects through Hypothetical Modifications of Existing Products" \(LeBlanc.pdf\)](#)
5. [Khalid Al-Olimat, Ohio Northern University, "Transient Analysis of First-Order Circuits: Approaches and Recommendation" \(Al-Olimat.pdf\)](#)
6. [Lisa Anneberg, Lawrence Technological University, "Our funded project: National Science Foundation's 'Be a Nuclear Expert in Southeast Michigan' and Four Approach Points" \(Anneberg.pdf\)](#)
7. [Constantin Apostoia, Purdue University Calumet "An Educational Platform for Electric Machines and Drives Simulation for Power and Energy Systems Programs" \(Apostoia.pdf\)](#)
8. [Suleiman Ashur, IPFW, "Digital Image Correlation and its Application in the Undergraduate Civil Engineering Materials Laboratory" \(Hedyat.pdf\)](#)
9. [Suleiman Ashur, IPFW, "Use of CAD Software to Solve Trigonometry and Vector Problems" \(Mueller2.pdf\)](#)
10. [Sherif Attallah, Ball State University, "Competencies of Construction Management Professionals in MEP Contracting Companies" \(Attallah.pdf\)](#)
11. [Jason Barnes, IPFW, "Sustainable Enterprise and Manufacturing System Design" \(Cochran.pdf\)](#)
12. [Linsay Bartle, University of Michigan – Flint, "Motivation and Learning Strategies of Students in Turkey" \(Dakeev.pdf\)](#)
13. [L. Bartlett, Texas State University, "Attempted Replication of Frank Richtig's Forgotten Steel Heat Treatments" \(Teague.pdf\)](#)
14. [Zhuming Bi, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
15. [Zhuming Bi, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
16. [Zhuming Bi, IPFW, "Use of CAD Software to Solve Trigonometry and Vector Problems" \(Mueller2.pdf\)](#)
17. [Ishaan Biswas, Purdue University, "A Pedagogical Framework to Teach HW-SW Co-Design" \(Johnson.pdf\)](#)
18. [Timothy Boles, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
19. [Harold Broberg, IPFW, "A Sequence of courses using 8, 16, and 32 bit Microcontroller/DSP Boards" \(Broberg.pdf\)](#)
20. [Zachary Brunner, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)
21. [Mark Budnik, Valparaiso University, "Signals and Systems Lectures using Chalk-and-Talk Active Learning approach" \(El-Howayek.pdf\)](#)
22. [Chao Chen, IPFW, "Innovative Redesign to Enhance Student Learning and Practice in Data Structures Course" \(Chen.pdf\)](#)
23. [Xin Chen, Southern Illinois University Edwardsville, "Heterogeneous Group Forming Using Mixed-Integer Programming for an Integrated Engineering Design Course" \(Onal.pdf\)](#)
24. [David Cochran, IPFW, "Sustainable Enterprise and Manufacturing System Design" \(Cochran.pdf\)](#)
25. [Christopher Coffee, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
26. [Alfonso Costas, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)

27. [M. Austin Creasy, Purdue University Columbus “Data Extraction from Web-Based Learning Management Systems” \(Creasy.pdf\)](#)
28. [Ulan Dakeev, University of Michigan – Flint, “Motivation and Learning Strategies of Students in Turkey” \(Dakeev.pdf\)](#)
29. [Nancy Denton, Purdue University, “Exploring Plastic Foam Processing and Properties” \(Vian2.pdf\)](#)
30. [P. Desmond, Ball State University, “Competencies of Construction Management Professionals in MEP Contracting Companies” \(Attallah.pdf\)](#)
31. [David Devine, Cleveland State University, “Current status of surveying in curricula in Indiana and Illinois” \(Devine.pdf\)](#)
32. [Barry Dupen , IPFW, “How to Use Graphical Data Presentation Techniques to Improve Student Success, Curriculum, and Program Assessment” \(Dupen.pdf\)](#)
33. [Georges El-Howayek, Valparaiso University, “Signals and Systems Lectures using Chalk-and-Talk Active Learning approach” \(El-Howayek.pdf\)](#)
34. [Justin Galvan, “Low-Cost Reconfigurable Modular Robots: a Senior Design Project” \(Liu1.pdf\)](#)
35. [Tatiana V. Goris, Purdue University Columbus, “Current State of Advanced Manufacturing in the USA Challenges and Recommendations for Improvement \(Literature review\)” \(Goris.pdf\)](#)
36. [Donald Gray, Purdue University Calumet “An Educational Platform for Electric Machines and Drives Simulation for Power and Energy Systems Programs” \(Apostoaia.pdf\)](#)
37. [Steven Groff, “Low-Cost Reconfigurable Modular Robots: a Senior Design Project” \(Liu1.pdf\)](#)
38. [Les Grundman, Indiana Tech., “Reconfiguration of an Undergraduate Engineering Vibrations Course” \(Grundman.pdf\)](#)
39. [Ahmadreza Hedyat, IPFW, “Digital Image Correlation and its Application in the Undergraduate Civil Engineering Materials Laboratory” \(Hedyat.pdf\)](#)
40. [Aaron Hoover, Purdue University, “Hands-on Laboratory Experience with Scanning Probe Microscopy: Challenges and Opportunities” \(Abeygunasekara.pdf\)](#)
41. [Kun Hua, Lawrence Technological University, “Our funded project: National Science Foundation’s ‘Be a Nuclear Expert in Southeast Michigan’ and Four Approach Points” \(Anneberg.pdf\)](#)
42. [Eric Johnson, Valparaiso University, “An Active-Learning Approach to Teaching Digital Logic Design” \(Khorbotly.pdf\)](#)
43. [Mark Johnson, Purdue University, “A Pedagogical Framework to Teach HW-SW Co-Design” \(Johnson.pdf\)](#)
44. [J.W. Jones, Ball State University, “Competencies of Construction Management Professionals in MEP Contracting Companies” \(Attallah.pdf\)](#)
45. [Ibrahim Kahraman, Fatih University – Flint, “Motivation and Learning Strategies of Students in Turkey” \(Dakeev.pdf\)](#)
46. [Sami Khorbotly, Valparaiso University, “An Active-Learning Approach to Teaching Digital Logic Design” \(Khorbotly.pdf\)](#)
47. [Huseyin Kinay, Fatih University – Flint, “Motivation and Learning Strategies of Students in Turkey” \(Dakeev.pdf\)](#)
48. [Dennis Kroll, Bradley University, “Two Successful Techniques To Introduce Engineers To Ethics; And Considerations As To Why Needed” by \(Kroll.pdf\)](#)
49. [Heath LeBlanc, Ohio Northern University, “Integrating Entrepreneurship in Engineering Class Projects through Hypothetical Modifications of Existing Products” \(LeBlanc.pdf\)](#)
50. [Heath LeBlanc, Ohio Northern University, “Transient Analysis of First-Order Circuits: Approaches and Recommendation” \(Al-Olimat.pdf\)](#)

51. [R. LeMaster, The University of Tennessee at Martin, "Attempted Replication of Frank Richtig's Forgotten Steel Heat Treatments" \(Teague.pdf\)](#)
52. [Yanfei Liu, IPFW, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
53. [Yanfei Liu, IPFW, "Transforming the Microprocessor Course: Enhance Learning Objectives with Embedded Processors" \(Liu2.pdf\)](#)
54. [T. Mahfouz, Ball State University, "Competencies of Construction Management Professionals in MEP Contracting Companies" \(Attallah.pdf\)](#)
55. [Joyce Main, Purdue University, "Exploring the International Experiences of US Domestic Engineering Graduate Students" \(Sanchez-Pena.pdf\)](#)
56. [Armela Mane, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
57. [Elizabeth McClamrock, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)
58. [Blair McDonald, Western Illinois University - Quad Cities, "Impact of a Young Engineering Program on Local Industry and Student's Success from Integration of Internship and Senior Design" \(Shin.pdf\)](#)
59. [Helen McNally, Purdue University, "Hands-on Laboratory Experience with Scanning Probe Microscopy: Challenges and Opportunities" \(Abeygunasekara.pdf\)](#)
60. [Raihan Mir, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
61. [Marlon Mitchell, University of Illinois at Urbana-Champaign, "I-ME PROJECT: An interactive mathematics and engineering curriculum amid an established culturally relevant reading literacy program" \(Mitchell.pdf\)](#)
62. [Scott Moor, IPFW, "Use of CAD Software to Solve Trigonometry and Vector Problems" \(Mueller2.pdf\)](#)
63. [Donald W. Mueller, Jr., IPFW, "Sustainable Energy Sources and Systems: Course Description and Projects" \(Mueller1.pdf\)](#)
64. [Donald W. Mueller, Jr., IPFW, "Use of CAD Software to Solve Trigonometry and Vector Problems" \(Mueller2.pdf\)](#)
65. [Kyle Nieuwlandt, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)
66. [Jeremy Nyikos, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
67. [Philip Olivier, Lawrence Technological University, "Our funded project: National Science Foundation's 'Be a Nuclear Expert in Southeast Michigan' and Four Approach Points" \(Anneberg.pdf\)](#)
68. [Sinan Onal, Southern Illinois University Edwardsville, "Heterogeneous Group Forming Using Mixed-Integer Programming for an Integrated Engineering Design Course" \(Onal.pdf\)](#)
69. [Christopher Owen, Purdue University, "Building a Curriculum: Materials Engineering Course" \(Owen.pdf\)](#)
70. [Michelle Parker, IPFW, "Advising for Retention and Graduation" \(Parker.pdf\)](#)
71. [T. Perdue, Ball State University, "Competencies of Construction Management Professionals in MEP Contracting Companies" \(Attallah.pdf\)](#)
72. [Dara Plank, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)
73. [Carlos Pomalaza-Ráez, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
74. [William F. Pratt, Western Illinois University - Quad Cities, "Impact of a Young Engineering Program on Local Industry and Student's Success from Integration of Internship and Senior Design" \(Shin.pdf\)](#)
75. [Indrajit Ray, IPFW, "Use of CAD Software to Solve Trigonometry and Vector Problems" \(Mueller2.pdf\)](#)
76. [J. Rinks, Republic Doors and Frames, "Attempted Replication of Frank Richtig's Forgotten Steel Heat Treatments" \(Teague.pdf\)](#)
77. [Francisco Saldana, Purdue University, "Hands-on Laboratory Experience with Scanning Probe Microscopy: Challenges and Opportunities" \(Abeygunasekara.pdf\)](#)

78. [Matilde Sanchez-Pena, Purdue University, "Exploring the International Experiences of US Domestic Engineering Graduate Students" \(Sanchez-Pena.pdf\)](#)
79. [Il-Seop Shin, Western Illinois University - Quad Cities, "Impact of a Young Engineering Program on Local Industry and Student's Success from Integration of Internship and Senior Design" \(Shin.pdf\)](#)
80. [Cliff Sidwell, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
81. [Derek Stefen, IPFW, "Probe Mechanism for Deimos Exploration" \(Brunner.pdf\)](#)
82. [Jared Teague, The University of Tennessee at Martin, "Attempted Replication of Frank Richtig's Forgotten Steel Heat Treatments" \(Teague.pdf\)](#)
83. [Elizabeth Thompson, IPFW, "Society of Women Engineers \(SWE\) Activities Supporting Female Engineering Students" \(Thompson.pdf\)](#)
84. [Matthew Thompson, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
85. [Douglas Tougaw, Valparaiso University, "An Active-Learning Approach to Teaching Digital Logic Design" \(Khorbotly.pdf\)](#)
86. [Wei Dai Vian, Purdue University Kokomo "A Study of Course Design on the Spatial Visualization Abilities of Engineering Technology Students" \(Vian1.pdf\)](#)
87. [Wei Dai Vian, Purdue University Kokomo, "Exploring Plastic Foam Processing and Properties" \(Vian2.pdf\)](#)
88. [Guoping Wang, IPFW, "The Application Studies Of Embedded System Development Platforms" \(Wang1.pdf\)](#)
89. [Guoping Wang, IPFW, "Our Experience of Teaching Embedded Real-Time Operating System" \(Wang2.pdf\)](#)
90. [Guoping Wang, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
91. [Guoping Wang, IPFW, "Transforming the Microprocessor Course: Enhance Learning Objectives with Embedded Processors" \(Liu2.pdf\)](#)
92. [William Westrick, "Low-Cost Reconfigurable Modular Robots: a Senior Design Project" \(Liu1.pdf\)](#)
 - A. [Winkelmann, Vanderbilt University, "Attempted Replication of Frank Richtig's Forgotten Steel Heat Treatments" \(Teague.pdf\)](#)
93. [Colton Witte, IPFW, "Robotic Football" \(Wang3.pdf\)](#)
94. [Jade Yang, Purdue University Calumet, "Video Games for STEM Learning: How Does It Work?" \(Yang.pdf\)](#)
95. [Ziad Youssfi, Ohio Northern University, "Work in Progress: Learning from the Past in Teaching Microprocessors" \(Youssfi.pdf\)](#)
96. [Shengyong Zhang, Purdue University North Central, "Integrating Finite Element Analysis into Mechanical Engineering Undergraduate Courses" \(Zhang.pdf\)](#)
97. [Khaled Zbeeb, Western Illinois University - Quad Cities, "Impact of a Young Engineering Program on Local Industry and Student's Success from Integration of Internship and Senior Design" \(Shin.pdf\)](#)