

University of Nebraska-Lincoln College of Engineering

ASEE Presentations 2010-2020

- Asgarpoor, J. S. (2020, June), *An Integrated Platform of Active Learning Techniques in a Supply Chain Management Program* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34132
- Baker, C. M., & Rilett, L. R., & Kunz, G. M., & Nugent, G. C. (2014, June), *Roads, Rails, and Race Cars: A STEM Educational Program for 4th-12th Grade Students* Paper presented at 2014 ASEE Annual Conference & Exposition, Indianapolis, Indiana. <https://peer.asee.org/22990>
- Bartelt-Hunt, S. (2018, June), *Board 7: REU Site: Sustainability of Horizontal Civil Networks in Rural Areas* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30089>
- Bartelt-Hunt, S. (2019, June), *Board 10: REU Site: Sustainability of Horizontal Civil Networks in Rural Areas* Paper presented at 2019 ASEE Annual Conference & Exposition , Tampa, Florida. <https://peer.asee.org/32163>
- Bartelt-Hunt, S., & Jones, E. G., & Wood, R. L., & Erdmann, R. M., & Stains, M. (2018, June), *Evaluating the Use of Peer Instruction in Civil Engineering Courses* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30450>
- Chen, Y. W., & Asgarpoor, J. S., & Sandekian, R., & Nelson, J. K., & Rynearson, L. K., & Bartelt-Hunt, S., & Callahan, J. (2020, June), *Managing Dual Academic Careers* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34949
- Curtis, E. T., & Kelly, A. M., & McCoy, J. I. E., & Jones, D., & Schulte, D. D. (2012, June), *Development of Evidence Management and Gap Analysis Tools for Continuous Improvement of Engineering Programs* Paper presented at 2012 ASEE Annual Conference & Exposition, San Antonio, Texas. <https://peer.asee.org/21219>
- Daher, T., & Bernstein, S., & Meyer, B. (2016, June), *Using Blended Learning to Address Instructional Challenges in a Freshman Engineering Course* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.27133
- Daher, T., & Koenig Kellas, J., & Babchuk, W. A., & Perez, L. C. (2019, June), *Instructional Profiles: Exploring Peer-Observation at an Engineering College* Paper presented at 2019 ASEE Annual Conference & Exposition , Tampa, Florida. <https://peer.asee.org/32975>
- Daher, T., & Pérez, L. C., & Babchuk, W. A., & Arthurs, L. A. (2018, June), *Exploring Engineering Faculty Experiences with COPUS: Strategies for Improving Student*

Learning Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30486>

Daher, T., & Peteranetz, M. S. (2020, June), *Bridging the Gap: Preparing Future Engineering Faculty for Post-secondary Teaching Excellence* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34225

Diefes-Dux, H. A., & Cruz Castro, L. M. (2019, June), *Validation of an Instrument to Measure Student Engagement with a Standards-Based Grading System* Paper presented at 2019 ASEE Annual Conference & Exposition , Tampa, Florida. <https://peer.asee.org/33530>

Diefes-Dux, H. A., & Iverson, N. M. (2020, June), *A Coding Scheme for Measuring Biomedical Engineering Students' Breadth of Exposure to the Discipline* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—33980

Edzie, R. L., & Meyer, B. (2015, June), *Exploring How an Engineering-focused After-school Activity Can Increase Student Self-Confidence in STEM (RTP, Strand 5)* Paper presented at 2015 ASEE Annual Conference & Exposition, Seattle, Washington. 10.18260/p.24064

Gettens, R., & Zimbhoff, A., & Spotts, H. E., & Houser, C., & Taylor, A., & Schoonmaker, M. G. (2016, June), *An Intensive Experiential Entrepreneurship Program (3-Day Startup)* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.26218

Gilmore, A. (2015, June), *Design Elements of a Mobile Robotics Course Based on Student Feedback* Paper presented at 2015 ASEE Annual Conference & Exposition, Seattle, Washington. 10.18260/p.23798

Gilmore, A. N., & Santos, J. M., & Mills, A. J. (2011, June), *Computer Interface Innovations for an ECE Mobile Robotics Platform Applicable to K-12 and University Students* Paper presented at 2011 ASEE Annual Conference & Exposition, Vancouver, BC. <https://peer.asee.org/17645>

Gilmore, A., & Daher, T., & Peteranetz, M. S. (2020, June), *A Multi-year Case Study in Blended Design: Student Experiences in a Blended, Synchronous, Distance Controls Course* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34018

Gilmore, A., & Detloff, H. (2010, June), *Assessing Senior Student Experiences With A Novel Mobile Robotics Learning Platform In A Computer And Electronics Engineering Program* Paper presented at 2010 Annual Conference & Exposition, Louisville, Kentucky. <https://peer.asee.org/16835>

Hart, S. D., & Shockley, J. C., & Ellis, L. R., & Spittka, B. (2013, June), *The Goethals Infrastructure Challenge: A Proposal for a New Student Competition* Paper presented at 2013 ASEE Annual Conference & Exposition, Atlanta, Georgia. <https://peer.asee.org/22588>

- Hicks, N. M., & Douglas, K. A., & Diefes-Dux, H. A. (2019, June), *Understanding Grader Reliability through the Lens of Cognitive Modeling* Paper presented at 2019 ASEE Annual Conference & Exposition , Tampa, Florida. <https://peer.asee.org/33477>
- Hunt, G. A. (2018, June), *Board 98 : A Case Study of Interdisciplinary Capstone Engineering Design* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30149>
- Ibach, R., & Keshwani, J., & Keshwani, D. R., & Everhart, S. E., & Sandall, L. (2020, June), *Work in Progress: Participants of the Cultivate ACCESS Program* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—35676
- Ingram, E., & Keshwani, J., & Mittelstet, T. J., & Thomas, J. (2020, June), *Garden TOOLS: Technology-rich Agricultural Engineering Opportunities in Outdoor Learning Spaces* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual Online . 10.18260/1-2—34699
- Ivey, T., & Colston, N. M., & Thomas, J., & Utley, J. (2016, June), *Integrated Engineering in Elementary Education: Tackling Challenges to Rural Teacher Training* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.25772
- Jones, D., & Zafft, C. R., & Curtis, E. T. (2012, June), *Engineering Transfer Seminar: A Course to Enhance the Engineering Experience* Paper presented at 2012 ASEE Annual Conference & Exposition, San Antonio, Texas. <https://peer.asee.org/21321>
- Jones, D., & Zafft, C. R., & Sutton, J., & Pérez, L. C. (2011, June), *NSF STEP Award: The College of Engineering at the University of Nebraska* Paper presented at 2011 ASEE Annual Conference & Exposition, Vancouver, BC. <https://peer.asee.org/18989>
- Jones, E. G. (2018, June), *Lessons Learned: Collaborative Faculty Development in Civil Engineering—Moving from an Individual Practice of Teaching to a Community of Scholars of Teaching and Learning* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30768>
- Jones, E. G., & Soltaninejad, M., & Ponce de Leon, C. (2019, June), *Work in Progress: Moving from Outside to Inside - Traffic Engineering Field Exercises through Virtual Reality* Paper presented at 2019 ASEE Annual Conference & Exposition , Tampa, Florida. <https://peer.asee.org/33576>
- Kelly, A. M., & Curtis, E. T., & McCoy, J. I. E., & Schulte, D. D., & Jones, D. (2012, June), *Application of Data Management Tools for ABET Accreditation* Paper presented at 2012 ASEE Annual Conference & Exposition, San Antonio, Texas. <https://peer.asee.org/20952>
- Kelly, A. M., & Jones, D., & Hoy, R. M., & Curtis, E., & Pannier, A. K., & Stowell, R. R. (2013, June), *Implementation of a “Rapid Design Challenge” in a Cross-Disciplinary Senior*

- Capstone Course and Evaluation of Device Performance* Paper presented at 2013 ASEE Annual Conference & Exposition, Atlanta, Georgia. <https://peer.asee.org/19709>
- Keshwani, D. R., & Anderson, R. D., & Keshwani, J., & Subbiah, J., & Guru, A., & Rice, N. C. (2017, June), *Educational Immersive Simulation Game Design to Enhance Understanding of Corn-Water-Ethanol-Beef System Nexus* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/28198>
- Keshwani, D. R., & Keshwani, J. (2019, June), *Work in Progress: Understanding Student Successes, Challenges, and Perceptions of Community* Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. <https://peer.asee.org/33660>
- Keshwani, J., & Adams, K. L. (2015, June), *Preparing Pre-service Teachers to Make Connections Between Science and Engineering Concepts Through Teamwork with Engineering Students (RTP, Strand 1)* Paper presented at 2015 ASEE Annual Conference & Exposition, Seattle, Washington. 10.18260/p.24585
- Keshwani, J., & Adams, K. L. (2016, June), *Building Teaching Collaborations across Disciplines* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.26414
- Keshwani, J., & Curtis, E. (2017, June), *To Change the World: Student Motivation for Pursuing a Degree in Agricultural or Biological Engineering* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/29031>
- Kopocis-Herstein, K. R., & Stentz, T. L. (2020, June), *A Course in the Human Factors Approach to Construction Engineering and Management* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—33992
- Meyer, G. E., & Cluff, K., & Subbiah, J. (2012, June), *Electronic Student Homework Management Systems for Continuous Improvement and Program Assessment* Paper presented at 2012 ASEE Annual Conference & Exposition, San Antonio, Texas. <https://peer.asee.org/21269>
- Meyer, G. E., & Ge, Y. (2016, June), *Instrumentation and Controls Instruction for Agricultural and Biological Engineering Students* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.25752
- Moravec, T. J., & Herstein, K., & Stentz, T. L. (2019, June), *Finance Major to Construction Engineer and Manager: Summer Internship 2018* Paper presented at 2019 ASEE Annual Conference & Exposition, Tampa, Florida. <https://peer.asee.org/32841>
- Msall, C., & Panther, G. (2020, June), *Implementation of a Spatial Skills Curriculum in Grade 7: Analysis of the Teachers' Concerns* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34771

- Nelson, C. A., & Bashford, G. (2017, June), *Board # 108 : UNL Summer REU Program in Biomedical Devices* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/27682>
- Nelson, C. A., & Burnfield, J. M., & Gu, L., & Wagler, A., & Dick, W. E. (2017, June), *Board # 109 : Mechanical Engineering Capstone Projects in Rehabilitation Design* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/27684>
- Perez, L. C., & Rivera-Reyes, P. (2016, June), *Abstraction Thresholds in Undergraduate Electrical Engineering Curricula* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.26487
- Peteranetz, M. S., & Shell, D. F., & Soh, L., & Ingraham, E., & Flanigan, A. (2018, June), *IUSE Computational Creativity: Improving Learning, Achievement, and Retention in Computer Science for CS and non-CS Undergraduates* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30740>
- Retherford, J., & Hartmann, B. L., & Al-Hammoud, R., & Hunt, G. A. (2020, June), *Civil Engineering Capstone Inventory: Standards of Practice & The ASCE Body of Knowledge* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—34284
- Rice, N. C., & Guru, A., & Keeler, C. N., & Keshwani, D. R., & Keshwani, J. (2018, June), *Comparison of Game-based Learning and Traditional Lecture Approaches to Improve Student Engagement and Knowledge Transfer in STEM Education* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/30209>
- Rice, N. C., & Keshwani, J., & Keshwani, D. R. (2020, June), *Role of Agricultural Simulation Games to Promote Youth-Adult Discussions Related to Agricultural Sustainability* Paper presented at 2020 ASEE Virtual Annual Conference Content Access, Virtual On line . 10.18260/1-2—35167
- Rokooui, S., & Goedert, J. D. (2015, June), *Lessons Learned from a Simulation Project in Construction Education* Paper presented at 2015 ASEE Annual Conference & Exposition, Seattle, Washington. 10.18260/p.24420
- Rokooui, S., & Goedert, J. D., & Woldesenbet, A. K. (2017, June), *Simulation as Supplementary Tool in Construction Management Education* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/28825>
- Shen, Z., & Jensen, W. G., & Fischer, B. A., & Wentz, T. G. (2012, June), *Using BIM to Teach Design and Construction of Sustainable Buildings* Paper presented at 2012 ASEE Annual Conference & Exposition, San Antonio, Texas. <https://peer.asee.org/22177>

- Shen, Z., & Zhu, Y. (2011, June), *Complex Engineering System Learning through Study of Engineering Cases using 3D Animations* Paper presented at 2011 ASEE Annual Conference & Exposition, Vancouver, BC. <https://peer.asee.org/17636>
- Thomas, J., & Colston, N. M., & Ley, T., & DeVore-Wedding, B., & Hawley, L. R., & Utley, J., & Ivey, T. (2016, June), *Fundamental Research: Developing a Rubric to Assess Children's Drawings of an Engineer at Work* Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.26985
- Wei, S. T., & Wonch Hill, T. (2018, June), *An Evaluation on Engineering Identity of K-12 Youth Using the Engineering Ambassador Network (Evaluation)* Paper presented at 2018 ASEE Annual Conference & Exposition , Salt Lake City, Utah. <https://peer.asee.org/29783>