What We Learned at ASEE - 2018

NCEER sponsors an annual “debriefing session” to discuss some of the ideas and papers we found especially interesting at the ASEE Annual Meeting. This year’s ASEE meeting was in Salt Lake City in late June.

The ASEE Debriefing session was held on August 14. The following people presented at this session, and discussed the paper or topic indicated. Most of these papers can be accessed from the ASEE website at the links below.

Casey Ankeny, Assistant Professor of Instruction in Biomedical Engineering

  Benefits of Active Learning Embedded in Online Content Material Supporting a Flipped Classroom
  Jean-Michel I. Maarek, USC

  Misconception Clarification in Online Graduate Courses
  Mansfield, J., & Alford, T. L., & Theodore, N. D

Ken Gentry, Senior Lecturer, Design Thinking and Communication, and McCormick Adviser

  Using Design Challenges to Develop Empathy in First-Year Courses
  James, J. O., & Svihla, V., & Qiu, C., & Riley, C

Gloria Kim, Associate Professor of Instruction in Biomedical Engineering

  Lean LaunchPad and Customer Discovery as a Form of Qualitative Research
  Hixson, C., & Ingram, E. L., & McCord, R., & Williams, J. M.

Mary Beth Finch, Visiting Assistant Professor of Instruction, Sociology

  Consensus Study Report: Sexual Harassment of Women, National Academies, 2018

Robert A. Linsenmeier, Professor, Biomedical Engineering and Neurobiology

  Satisfaction: Intrinsic and Extrinsic Motivation in Engineering Writing Coursework
  Stephanie Pulford, J. Tan, M.R. Gonzalez, A. Modell, UC Davis

Here are links to a few other interesting papers:
Work in Progress: Mandatory Attendance in Office Hours to Improve Students' Learning Experience  
S. Cyrus Rezvanifar, R. Amini, U. Akron

Exploring Biomedical Engineering Students' Self-Raised Motivations for Engaging in Instructional Design  
Jacqueline Handley, A. Huang-Saad, C.S.E. Woodcock, U. Michigan

Enhancing Student Leadership Competencies through Reflection  
Dianne Hendricks, K. Yasuhara, A.C. Taylor, U. Washington

Technical Communication across the ME Curriculum at Rose-Hulman  
Rebecca Bercich, S. Summers, P. Cornwell, J. Mayhew

Papers presented by Northwestern authors at ASEE 2018

Every year, Northwestern authors present several papers at ASEE. This year's papers were:

Creating and Scaling an Evidence-based Faculty Development Program  

Academic Advising and Student Affairs Working Together to Improve First-year Experience of Engineering Students  
Bacon, H. K. K., & Birdwell, J. A., & Brown, O., & Tevaarwerk, E., & Freeman, R. W., & Roldan, W., & Gentry, K., & Pokryfky, A. R.

Engineering and Technology Literacy Introduced in Cornerstone Design Courses  
Freeman, R. W., & Birdwell, J. A., & Tevaarwerk, E., & Gentry, K., & Brown, O.

Facilitating Change in Instructional Practice in a Faculty Development Program through Classroom Observations and Formative Feedback Coaching Paper  

Work in Progress: Bridging Research and Entrepreneurship - Master's Certificate in Translational Biomedical Research at Northwestern University  
Kim, G. J., & Ankeny, C. J., & Fisher, M. J.

IUSE: EHR - Enhancing and Expanding Experiential Learning Modules across Disciplines and Institutions  
Kim, G. J., & Linsenmeier, R. A., & Reissman, T., & Finch, M. B.

Assessing Faculty and Organizational Change in a Professional Development Program with Workshops and Disciplinary Communities of Practice  
A Multidisciplinary Professional Development Program that Shifts Faculty Attitudes and Practice Toward Evidence-Based Instructional Strategies (EBIS) for Teaching and Learning

Is There a Connection Between Classroom Practices and Attitudes Towards Student-Centered Learning in Engineering?