Using Data to Drive Institutional Change: University of Delaware ADVANCE Institute Research on Faculty Women of Color

**Conference Session**
Faculty Track - Technical Session III

**Collection**
2018 CoNECD - The Collaborative Network for Engineering and Computing Diversity Conference

**Authors**
Shawna Vican, University of Delaware

**Tagged Topics**
Faculty

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Working Toward More Equitable Team Dynamics: Mapping Student Assets to Minimize Stereotyping and Task Assignment Bias

**Conference Session**
Undergraduate Track - Technical Session II

**Collection**
2018 CoNECD - The Collaborative Network for Engineering and Computing Diversity Conference

**Authors**
Elisabeth (Lisa) Stoddard, Worcester Polytechnic Institute; Geoff Pfeifer, Worcester Polytechnic Institute

**Tagged Topics**
Diversity, Undergraduate Education

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Effect of Reflection Prompts on Efficacy, Duration, and Persistence of Assignments

**Collection**
... occupy the entire room block. Rooms set aside by Hotel are as follows: Rate $ Wed Thu Fri Sat Mon Tue Wed /D 6/20/18 6/21/18 6/22/18 6/23/18 6/24/18 6/25/18 6/26/18 6/27/18 Total Guest $169 1 1 7 45 50 50 20 224 Rooms TOTALS 1 1 7 45 50 50 20 224Should a suite be sold, based on availability, the number of units listed above will be taken out of the existing room block.RATES: Rates are confirmed for 2018, the applicable group rates would be ...

What Delays Student Graduation

Conference Session
Perspectives on Degree Completion and Graduate School Application
Collection
2015 ASEE Annual Conference & Exposition
Authors
Amir Karimi, University of Texas, San Antonio; Randall D. Manteufel, University of Texas, San Antonio; Lynn L. Peterson, University of Texas, Arlington
Tagged Divisions
Mechanical Engineering


Which Courses Influence Engineering Students' Views of Social Responsibility?

Conference Session
Assessing Social Responsibility & Sustainability
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2015 ASEE Annual Conference & Exposition
Authors
Nathan E Canney PE, Seattle University; Angela R Bielefeldt, University of Colorado, Boulder; Mikhail Russu
Tagged Topics
Diversity
Tagged Divisions
Educational Research and Methods, Engineering Ethics, Liberal Education/Engineering & Society

... Additional funding for undergraduate research was provided by the 2014 Seattle University Fr. Woods Fellowship Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.Bibliography1 National Academy of Engineering, Educating the Engineer of 2020: Adapting Engineering Education to the New Century, Washington DC: The National Academies Press, 2005.2 ABET, “Criteria for Accrediting Engineering Programs Effective for Evaluation During the 2009-2010 Accreditation Cycle,” ABET Engineering Accreditation Commission, 2008.3 American Society for Civil Engineering, “Civil Engineering Body of Knowledge for the 21st Century …
Assessment of STEM e-Learning in an Immersive Virtual Reality (VR) Environment

Conference Session
Online, Hybrid, and other Virtual Learning Environments
Collection
2016 ASEE Annual Conference & Exposition
Authors
Hazim A El-Mounayri, Indiana University Purdue University, Indianapolis; Christian Rogers, Indiana University Purdue University, Indianapolis; Eugenia Fernandez, Indiana University Purdue University, Indianapolis; Jesse Connor Satterwhite, Indiana University Purdue University, Indianapolis
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Diversity
Tagged Divisions
Computers in Education


A New Robotics Educational System for Teaching Advanced Engineering Concepts to K-12 students

Conference Session
Innovative Use of Technology in K-12 Outreach
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Fernando Garcia Gonzalez, Florida Gulf Coast University; Janusz Zalewski, Florida Gulf Coast University
Tagged Divisions
Computers in Education


Blended Learning in a Rigid-Body Dynamics Course Using On-Line Lectures and Hands-On Experiments

Conference Session
Mechanics Classroom Demonstrations
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Aldo A. Ferri, Georgia Institute of Technology; Bonnie H. Ferri, Georgia Institute of Technology
Tagged Divisions
Mechanics
A Quarter Century of Resounding Success for a University/Federal Laboratory Partnership

Conference Session
Institutional Capacity and Supportive Structures in Engineering Education
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2016 ASEE Annual Conference & Exposition
Authors
Robert W. Whalin, Jackson State University; Ismael Pagán-Trinidad, University of Puerto Rico, Mayaguez Campus; Evelyn Villanueva, US Army Engineer Research and Development Center; David W. Pittman PE, US Army Engineer Research and Development Center
Tagged Topics
Diversity
Tagged Divisions
Minorities in Engineering

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References
2. L. Ramirez, J. Zayas, J. Lamancusa and J. Jorgensen, "Making a Partnership Work: Outcomes Assessment of a Multi-Task, Multi-Institutional Project ...

BYOE: A Desktop Apparatus for Demonstrating Convective Heat Transfer

Conference Session
Division Experimentation & Lab-Oriented Studies: BYOE Session
Collection
2016 ASEE Annual Conference & Exposition
Authors
Gerald W. Recktenwald, Portland State University
Tagged Topics
Diversity
Tagged Divisions
Division Experimentation & Lab-Oriented Studies

... power leads, a smaller amount is conducted out of the thermocouple leads, and some heat is conducted down into the base where it is lost by convection to the moving air stream. Some additional heat is lost by radiation. A more 35 34 33 32 T (C) 31 30 29 28 27 26 25 0 100 200 300 400 500 600 700 800 900 1000 Time (s) Figure 11: Typical transient response ...

Changing Student Behavior through the Use of Reflective Teaching Practices in an Introduction to Engineering Course at a Two-Year College

Conference Session
Enhancing Student Success in Two-Year Colleges
Collection
2016 ASEE Annual Conference & Exposition
Authors
Clinical Immersion Internship Introduces Students to Needs Assessment

Conference Session
Education Programs in BME
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2016 ASEE Annual Conference & Exposition
Authors
Miiri Kotche, University of Illinois, Chicago
Tagged Divisions
Biomedical

An Alternative to Videos for Lecture Preparation in a Flipped First-Year Engineering Computing Course

Conference Session
First-Year Programs Division Technical Session 1: Using Technology and/or Technology Tools to Enhance Learning
Collection
2016 ASEE Annual Conference & Exposition
Authors
Gregory Warren Bucks, University of Cincinnati; Kathleen A. Ossman, University of Cincinnati
Tagged Topics
Diversity
Tagged Divisions
First-Year Programs

Conceptualizing Student Identity Development through Self-Directed Learning Opportunities in the First Year of an Engineering Program
Determined Student Learning Across a Range of Experiences During a Study Abroad Module

Conference Session
International Division Technical Session 1
Collection
2016 ASEE Annual Conference & Exposition
Authors
Catherine A. Twyman, Virginia Tech; David B. Knight, Virginia Tech
Tagged Divisions
International

Experience With A Multidisciplinary Project For Social Services

Conference Session
Promoting Multidisciplinary Efforts
Collection
2016 ASEE Annual Conference & Exposition
Authors
Harold R Underwood, Messiah College
Tagged Topics
Diversity
Tagged Divisions
Multidisciplinary Engineering

... research with Biometric Monitoring and Privacy Control as related to more effective delivery of social services via WERCware.VI.

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References
with the measurement taken by the DMM at the Figure 5 â€“ The Penn State EECS Anechoic Chamber lowest frequency within the range of measurement frequencies, in this case at 300 kHz. This does make sense because the DMM measures at the lowest possible frequency, 0 Hz or DC. Q: Compare all three network analyzer measurements. What are the difference(s) between the measurement results from the three different resistor lead lengths? Attempt to interpret …
Improving Engineers’ Ability by Strengthening University-Industry Collaboration: A Plan for Education and Training Outstanding Engineers (PETOE) in China

Conference Session
Engineering and Public Policy Division Technical Session 1
Collection
2016 ASEE Annual Conference & Exposition
Authors
Huiming Fan, East China University of Science and Technology; Huaizhong Shao, Zhejiang University
Tagged Divisions
Engineering and Public Policy

Incorporating Risk and Uncertainty into Undergraduate Environmental Engineering Curricula

Conference Session
Environmental Engineering Division: Curricula, Criteria, Student Performance, and Growth
Collection
2016 ASEE Annual Conference & Exposition
Authors
Ran Du P.E., United States Military Academy; Michael A. Butkus, U.S. Military Academy; Jeffrey A. Starke P.E., U.S. Military Academy
Tagged Divisions
Environmental Engineering

Incorporating Service-Oriented Programming into the Computer Science Curriculum

Conference Session
NSF Grantees Poster Session II
Collection
1 Background Engineering educators and practitioners increasingly value contextual competence. A psychometrically sound, practical, and useful scale for assessing undergraduate engineering students' contextual competence is needed.2 Purpose/Hypothesis This article provides comprehensive evidence of the content, structural, discriminant, and criterion-related validity of the contextual competence ... Finally, the scale may be a more accurate measure of contextual competence than faculty members' perceptions of students' ability.5 Conclusions The contextual competence scale allows engineering programs to meet ABET and other self-study requirements or do large-scale research with relative ease and little expense. The Development of a Scale that Measures Engineering Students' Contextual Competence The belief that engineers cannot solve any problem without understanding its relevant context has been widely emphasized by both engineering academia and professions. The National Academy of Engineering [1, 2] states that the "Engineer of 2020..." must not only be technically capable, but also be able to understand the contextual constraints and consequences of their work. Several ABET program accreditation criteria [3] also promote contextual engineering practice. The capability to adopt multiple perspectives allows the graduate to comprehend the complex interdisciplinary dependence between the profession and society. Cross-Cultural Competence: A Comparative Assessment of Engineering Students The belief that engineers cannot solve any problem without understanding its relevant contexts has been widely emphasized by both engineering academia and professions. The National Academy of Engineering [1, 2] states that the "Engineer of 2020..." must not only be technically capable, but also be able to understand the contextual constraints and consequences of their work. Several ABET program accreditation criteria [3] also promote contextual engineering practice. The capability to adopt multiple perspectives allows the graduate to comprehend the complex interdisciplinary dependence between the profession and society. Cross-Cultural Competence: A Comparative Assessment of Engineering Students The belief that engineers cannot solve any problem without understanding its relevant contexts has been widely emphasized by both engineering academia and professions. The National Academy of Engineering [1, 2] states that the "Engineer of 2020..." must not only be technically capable, but also be able to understand the contextual constraints and consequences of their work. Several ABET program accreditation criteria [3] also promote contextual engineering practice. The capability to adopt multiple perspectives allows the graduate to comprehend the complex interdisciplinary dependence between the profession and society. Cross-Cultural Competence: A Comparative Assessment of Engineering Students.