Follow this and additional works at: https://docs.lib.purdue.edu/jpeer

**Recommended Citation**


This document has been made available through Purdue e-Pubs, a service of the Purdue University Libraries. Please contact epubs@purdue.edu for additional information.

This is an Open Access journal. This means that it uses a funding model that does not charge readers or their institutions for access. Readers may freely read, download, copy, distribute, print, search, or link to the full texts of articles. This journal is covered under the CC BY-NC-ND license.
Contents

Journal of Pre-College Engineering Education Research

October Issue 3 : 2

Secondary Students’ Conceptual Understanding of Engineering as a Field 1
Devlin B. Montfort, Shane Brown, Victoria Whitenour

Determining the Effects of Pre-College STEM Contexts on STEM Major Choices in 4-year Post-Secondary Institutions Using Multilevel Structural Equation Modeling 13
Ahlam Lee

The Humanistic Side of Engineering: Considering Social Science and Humanities Dimensions of Engineering in Education and Research 31
Morgan Hynes, Jessica Swenson

Engineering-Based Problem Solving in the Middle School: Design and Construction with Simple Machines 43
Lyn D. English, Peter Hudson, Les Dawes

http://dx.doi.org/10.7771/2157-9288.1089