

**Courtney A. (Clum) Peckens**

## GRANTS AND CONTRACTS (CONT.)

### Hope College

*Field deployment of wireless sensors for noise monitoring purposes*  
Nyenhuis Faculty Development Grant  
April 2017 – September 2017, \$7,200.00

*Noise monitoring using wireless sensor nodes*  
Nyenhuis Faculty Development Grant  
April 2016 – September 2016, \$6,500.00

Invited participant in Continuum Scholars program (summer workshop focused on vocation and research) through this award

*Development of wireless sensor node for structural monitoring and damage detection in civil infrastructure*  
Howard Hughes Medical Institute, Faculty Research Award  
January 2015- December 2015, \$14,734.00

## PUBLICATIONS

### Book Chapters

M.B. Kane, C. Peckens, “Digital control” in . (ed. A. M. Sadegh, W. M. Worek), 12<sup>th</sup> ed., McGraw Hill Education, 2018.

C. Peckens, M.B. Kane, Y. Zhang, J.P. Lynch, “Introduction to wireless structural monitoring systems: permanent installation in infrastructure systems,” in *Sensor Technologies for Civil Infrastructures* (ed. M. Wang, J.P. Lynch and H. Sohn), Woodhead Publishing, London, 2014.

M.B. Kane, C. Peckens, J.P. Lynch, “Introduction to wireless structural monitoring systems: design and selection,” in *Sensor Technologies for Civil Infrastructures* (ed. M. Wang, J.P. Lynch and H. Sohn), Woodhead Publishing, London, 2014.

### Journal Papers

C. Peckens, I. Cook, C. Fogg, “Bio-inspired architecture for real-time feedback control in wireless sensing and actuating networks”, *Bioinspiration and Biomimetics*, 2019, 14(3).

C. Peckens, C. Porter, T. Rink, "Wireless Sensor Networks for Long-Term Monitoring of Urban M9(Ur)-4(15(k)6(s)3()-171(f)8(

PUBLICATIONS (CONT.)

**Conference Proceedings**

## PUBLICATIONS – ENGINEERING EDUCATION

### Conference Proceedings

C. Peckens, J.P. Lynch, "Deepening math and science skills in middle-school students using engineering-based learning modules," *Proceedings of American Society of Engineering Education Conference*, San Antonio, TX, June 10-13, 2012.

### Conference/Poster Presentations

M. Randolph, K. Slay, C. Peckens, "The Sense of Community is Really What Kept Me in It: The Role of Self-Organized Community in Promoting Persistence of Underrepresented Minority Students in Undergraduate Education," Association for the Study of Higher Education Annual Conference, St. Louis, Missouri, paper presentation, November, 2013.

M. Randolph, K. Slay, C. Peckens, "Factors Promoting Persistence: A Qualitative Study of the Academic, Social, and Institutional Experiences of African American Students in Engineering," American Educational Research Association Annual Conference, San Francisco, California, round-table discussion, May, 2013.

C. Peckens, J.P. Lynch, "Embedding math concepts into a civil engineering outreach program for middle-school students," Center for Research on Learning and Teaching in Engineering 7th Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, Michigan, poster presentation, March, 2013.

C. Peckens, M. Randolph, K.E. Slay, "Factors Promoting Persistence of African American Students in Undergraduate Engineering" Center for Research on Learning and Teaching in Engineering 7th Annual Research and Scholarship in Engineering Education Poster Fair, Ann Arbor, Michigan, poster presentation, March, 2013.

## INVITED SEMINARS

"Structural Control of Civil Infrastructure: Bio-Inspired Approach," Calvin College, Engineering Mnp f

