

Architectural Engineering Research Seminar



Guest Speaker: **Dr. Saiedeh N. Razavi**

Chair in Heavy Construction
Assistant Professor
Dept. of Civil Engineering
McMaster University

Topic:

“Connected Construction and Smart Work Zones”

Abstract:

The Connected Construction and Smart Work Zone improve productivity and safe mobility by bringing a paradigm shift to the way entities in and around construction zones interact. In this presentation the key concepts and purposes behind Connected Construction and Smart Work Zone will be introduced with elaboration on the potential applications, benefits and challenges to be encountered. In such environment entities are enabled to wirelessly and simultaneously exchange location, situational information, advisory messages, and emergency responses to improve productivity, reduce congestion and the risks of hazards. Razavi will discuss her own research journey toward the Connected Construction and Smart Work Zones. She will explain automated materials and vehicle tracking in construction and then relate this to more general advances in Connected Vehicle and systems in the construction and transportation world and the broader opportunities that these developments present.

**PENN STATE
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Place: 107 Engineering Unit B

Date: Monday, Aug. 31, 2015

Time: 12:00 p.m. - 1:00 p.m.

Light refreshments will be served.

All faculty, staff and students are cordially invited to attend.

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GUEST SPEAKER BIO

Dr. Saiedeh N. Razavi is the inaugural Chair in Heavy Construction, and Assistant Professor at the Department of Civil Engineering at McMaster University. Through academic and industry involvement, Saiedeh has gained sixteen years of experience in collaborating and leading multi-disciplinary team-based projects. Her expertise is in the areas of sensing, data fusion, smart systems, and information and communication technology for improving safety, mobility, productivity, and environmental sustainability in Construction, Transportation, and Infrastructure Management. Saiedeh holds academic appointments in the Department of Civil Engineering and is also an associate member of the Department of Electrical and Computer Engineering at McMaster and the School of Geography and Earth Sciences. She is also an associate editor of the ASCE Journal of Computing in Civil Engineering. She has received several awards including McMasters Student Union Merit Award for Teaching, the Faculty of Engineering Team Excellent Award, and the CII best poster award. She teaches courses in project management, engineering economics, construction engineering and management, and optimization for civil engineering systems.