Construction Research Track – ISERC 2014

PRESENTATION BREAKDOWN

Construction Methods CR 1

Date: Sunday, June 1, 2014  
Time: 8:00 AM - 9:15 AM  
Location: 512b

Chair: Isabelina Nahmens

Financial and Environmental Comparison of Military Housing Options for Forward Operating Bases  (396)  
Kevin Gebo, Rochester Institute of Technology (United States)  
Brian Thorn, Rochester Institute of Technology (United States)  
Steven Hart, US Army Engineer Research and Development Center (United States)

Alternatives to Landfilling Construction and Demolition Debris  (559)  
Joseph Laquatra, Cornell University (United States)  
Mark Pierce, Cornell University (United States)

Effect of Fly Ash and Nano-Silica on Concrete Compressive Strength at Early Age  (775)  
Nitza García, University of Puerto Rico at Mayagüez (United States)  
Marcelo Suárez, University of Puerto Rico at Mayagüez (United States)  
Luis Zapata, University of Puerto Rico at Mayagüez (United States)  
Mauricio Cabrera, University of Puerto Rico (United States)

Robotic Construction by Contour Crafting  (1610)  
Berok Khoshnevis, USC (United States)

Construction Productivity CR 2

Date: Tuesday, June 3, 2014  
Time: 8:00 AM - 9:15 AM  
Location: 512e

Chair: Laura Hughes Ikuma

Studying the Reasons for Delay and Cost Escalation in Construction Projects: A Case Study  (1058)  
Hamed Samarghandi, University of Saskatchewan (Canada)  
Seyed Mohammad Moosavi Tabatabaei, Tabuck Construction Co. Ltd. (Iran)  
Pouria Taabayan, Idea Group (Iran)  
Ahmad MirHashemi, ICT Organization of The City of Tehran Municipality (Iran)

A Qualitative Data Analysis of Supplier Quality Management in Construction
Crew Allocation System for Masonry Construction with Workforce Constraints

Laura Florez, Georgia Institute of Technology (United States)

Application of Total Quality Management (TQM) in the Construction Industry

Jan Evans, UTC College of Engineering and Computer Science (USA)

Information Technologies in Construction CR 3

Date: Tuesday, June 3, 2014
Time: 11:00 AM - 12:15 PM
Location: 512e

Chair: Gerald M Knapp

Integrating BIM with Automated Machine Guidance Technology in Transportation Construction Projects

Aston Williams, University of Southern Mississippi (United States)
Mohammad Rahman, The University of Southern Mississippi (United States)

Construction Engineering and Management Research Analytics

Henry Lester, The University of Alabama (United States)
Daniel Tran, The University of Kansas (United States)

A System to Track Work Progress at Construction Jobsites

Nelly Garcia-Lopez, Stanford University (United States)
Martin Fischer, Stanford University (United States)

Construction Safety & Health I CR 4

Date: Tuesday, June 3, 2014
Time: 2:00 PM - 3:15 PM
Location: 512e

Chairs: Brian Kleiner, Aric Slaughter, and Tonya Smith-Jackson

Enhancing Harness Usability to Reduce Injuries for Construction Workers

Jarrod Murphy (United States)
Sam Archer (United States)
Regina Pope-Ford, North Carolina A&T State University (United States)
Aric Slaughter (United States)
Tonya Smith-Jackson (United States)

**Designing a Safety Training Tool for Architects and Engineers**  (891)
Lance Saunders, Virginia Tech (United States)
Brian Kleiner, Virginia Tech (United States)
Andrew McCoy, Virginia Tech (United States)
Kimberly Ellis, Virginia Tech
Tonya Smith-Jackson (United States)
Christian Wernz, Virginia Tech (United States)

**The Ecological Validity of Scaled Models in Construction Research**  (1022)
Aric Slaughter (United States)
Jarrod Murphy (United States)
Sam Archer (United States)
Regina Pope-Ford (United States)
Tonya Smith-Jackson (United States)
Daniel Hindman, Virginia Tech (United States)
Tahmina Akter, North Carolina A&T State University (United States)

**Ergonomic Benefits of Short Interval Scheduling in Construction**  (1568)
Jan Evans, UTC College of Engineering and Computer Science (USA)

**Construction Safety & Health II CR 5**

Date: Tuesday, June 3, 2014
Time: 3:30 PM - 4:45 PM
Location: 512e

Chairs: Fereydoun Aghazadeh and Paul Ray

**Critical Incident Patterns of Residential Roofers**  (850)
Evan Middlebrooks (United States)
Angelica Heard (United States)
Alea Singletary (United States)
Tonya Smith-Jackson (United States)
Daniel Hindman, Virginia Tech (United States)

**An Integrative Literature Review of Sleep Disturbances on Construction Workers**  (927)
Yong Han Ahn, Western Carolina University (United States)
Heejung Kim, University of Kansas Medical Center (United States)
George Ford, Western Carolina University (United States)

**Wii Balance Board Determining if Postural Sway Effects Harness Usability**  (1021)
Samuel Archer (United States)
Jarrod Murphy (United States)
Aric Slaughter (United States)
Regina Pope-Ford, North Carolina A&T State University (United States)
Tonya Smith-Jackson (United States)
Risk Assessment of Occupational Injuries Using Accident Severity Grade
Nasibeh Azadeh-Fard, Virginia Tech (United States)
Anna Schuh, Virginia Polytechnic Institute and State University (United States)
Jaime Camelio, Virginia Tech (United States)