

## **Paul McGinley Goodrum, P.E., Ph.D.**

### *Curriculum Vitae*

Associate Professor of Civil Engineering  
University of Kentucky  
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### **ACTIVITY SUMMARY**

Since 2001, Dr. Goodrum has remained active in the areas of research, teaching, and service. Between 2001 and 2010, Dr. Goodrum was awarded 16 research grants as the Principal Investigator totaling \$2,025,913 and 6 research grants as a co-Principal Investigator totaling \$600,418. Dr. Goodrum has published 28 referred journal publications, 12 refereed conference papers, and 14 technical reports. In 2008, Dr. Goodrum was also commissioned by the National Academy of Engineering (NAE) to author a paper summarizing his research on technical change and its impact on construction production and likewise presented it at the Workshop on Advancing the Competitiveness and Productivity of the U.S. Construction Industry in Washington, DC. Dr. Goodrum has been invited to present his research at other national forums sponsored by the National Institute of Standards and Technology, the Construction Industry Institute, and McGraw Hill. In 2008, Dr. Goodrum was awarded the Outstanding Researcher Award by the Construction Industry Institute for his research on workforce and construction productivity issues. In the area of teaching, Dr. Goodrum was awarded the Chi Epsilon Civil Engineering Honor Society Excellence in Teaching Award for the Cumberland District in 2005, the Outstanding Civil Engineering Faculty Award at the University of Kentucky in 2006, and was a finalist for the University of Kentucky Provost Teaching Award in 2005 and 2007. Dr. Goodrum also completed the supervision of 4 PhDs since 2005. Finally in the area of service, Dr. Goodrum is currently appointed to national committees with the National Research Council's Transportation Research Board, the Construction Industry Institute, and the Construction Economic Research Network. Dr. Goodrum was appointed in 2007 by the American Society of Civil Engineering the role of Specialty Editor for Labor and Personnel Issues within the Journal of Construction Engineering and Management. Dr. Goodrum was also hired as a content consultant for a series of 6 children's books on construction machinery by ABDO publishing in 2008.

### **SIGNIFICANT AWARDS AND HONORS**

1. Outstanding Researcher Award, Construction Industry Institute, 2008.
2. Outstanding Faculty Award in Civil Engineering, University of Kentucky, 2006.
3. Finalist – Provost Teaching Award, University of Kentucky, 2005.
4. Chi Epsilon Civil Engineering Honor Society Excellence in Teaching Award for the Cumberland District, 2005.
5. Outstanding Faculty Award in Civil Engineering, University of Kentucky, 2003.
6. Chi Epsilon Civil Engineering Honor Society Excellence in Teaching Award for the Cumberland District, 2003.

### **CURRENT RESEARCH CONTRACTS AND GRANTS**

1. Construction Productivity: A Path Forward for the development of Reliable Metrics for Selected Sectors and Tasks, PI, National Institute of Standards and Technology, Office of Applied Economics, \$49,473. Notification of award received September 2010.
2. Updating the Kentucky Contract Time Determination System (KY-CTDS), Co-PI with Taylor as PI, Kentucky Transportation Center, \$130,000. From July 1, 2010 to June 30, 2012.

3. Construction Training for the Current and Next Generation of Technicians, PI. Community Transportation Innovation Academy. \$28,000. From July 1, 2010 to To June 30, 2011.
4. Research Support on the Contractors Workforce Development Assessment Survey. PI. National Center for Construction Education and Research. \$19,000. From January 1, 2010 to December 31, 2010.
5. Craft Productivity Research Program, PI, with Dr. Carl Haas (University of Waterloo (UW)) as co-PI and Dr. Carlos Caldas (University of Texas at Austin) as co-PI, Construction Industry Institute, \$907,833 (UK portion \$320,665, UW portion \$284,950, UT portion \$302,218). From September 1, 2007 to December 31, 2013 (subject to annual approval).
6. Kentucky Design-Build Initiative: Case Study, PI with Don Hartman (KTC) as Co-PI, \$146,250. Community Transportation Innovation Academy . From October 1, 2006 to September 30, 2011.

## REFEREED JOURNAL PUBLICATIONS

(Note: Dr. Goodrum has authored and co-authored 32 refereed journal publications. Publications from last year and other significant publications are included below. Student co-authors are underlined)

1. Wang, Y., Goodrum, P., Haas, C., and Glover, R. (2009). "An Analysis of Skill Afinity in Construction." ASCE Journal of Construction Engineering and Management. 135(10). pp. 999-1008.
2. Zhai, D., Goodrum, P., Haas, C., and Caldas, C. (2009). "Relationship between the Automation and Integration of Construction Information Systems and Productivity." ASCE Journal of Construction Engineering and Management, 135(8). pp 746-753.
3. Grau, D., Caldas, C., Goodrum, P., and Haas, C. (2009). "Assessing the Impacts of Materials Tracking Technologies on Construction Craft Productivity." Elsevier Journal of Automation in Construction. (18)2009. Pp. 903-911.
4. Dai, J., Goodrum, P., Maloney, W., and Srinivasan, C. (2009). "Latent Structures of the Factors Affecting Construction Labor Productivity." ASCE Journal of Construction Engineering and Management. 135(5). pp. 397-406.
5. Goodrum, P., Zhai, D. and Yasin, M. (2009). "The Relationship between Changes in Material Technology and Construction Productivity." ASCE Journal of Construction Engineering and Management. 135(4). pp. 278-287.
6. Goodrum, P., Wang, Y., Fenouil, P., (2009). "A Decision making System for Accelerating Roadway Construction" Emerald Journal of Engineering, Construction, and Architectural Management. 16(2). pp. 116-135.
7. Dai, J., Goodrum, P., and Maloney, W. (2008). "Construction Craft Workers' Perceptions of the Factors Affecting Their Productivity." ASCE Journal of Construction Engineering and Management. 134(3). pp. 217-226.
8. Goodrum, P., McLaren, M., and Durfee, A. (2006). "The Application of Active Radio Frequency Identification for Tool Tracking on Construction Job Sites." Journal of Automation in Construction. Elsevier. 15(3). pp. 291-302.
9. Goodrum, P., and Gangwar, M. (2004). "The Relationship Between Changes in Equipment Technology and Wages in the U.S. Construction Industry." E & F.N. Spon Journal of Construction Management and Economics. 22(3).
10. Goodrum, P., and Haas, C. (2004). "The Long-Term Impact of Equipment Technology on Labor Productivity in the U.S. Construction Industry at the Activity Level." ASCE Journal of Construction Engineering and Management. 131(1). pp. 124-133.