

# RÉSUMÉ

## **Kamyar Cyrus (K.C.) Mahboub, P.E., Ph.D.**

College of Engineering

University of Kentucky

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### **CURRENT POSITION**

- Associate Dean for Outreach and External Partnerships, and
- Lawson Professor of Civil Engineering

### **PREVIOUS POSITIONS**

- Director of Graduate Studies (1999-2013)
- Academic Coordinator -- UK Advanced Transportation Institute (1993-1996)
- Assistant Professor of Civil Engineering, and Head of Bituminous Materials Research Section, UK-KTC (1988-1994).
- Research Associate, Texas Transportation Institute, Texas A&M Univ. (1983-1988).
- Consulting Engineer (1985-1988).

### **CITIZENSHIP**

- U.S. Citizen

### **ENGINEERING LICENSE (P.E.)**

- Kentucky (License #16579)

### **EDUCATION**

- B.S. in Civil Engineering, The University of Texas at Austin, 1982
- MS in Civil Engineering, Texas A&M University 1985
- Ph.D. in Civil Engineering, Texas A&M University 1988

### **HONORS AND AWARDS**

- Tau Beta Pi, Engineering Honor Society, Eminent Engineer, 2012.
- ASCE Outstanding Service Award as Chair of Bituminous Materials Committee, 2006.
- Outstanding Engineer in Education, Kentucky Section of ASCE, 2005.
- Promotion to the rank of ASCE Fellow, 2005.
- Best Paper Award: American Society for Engineering Education, Civil Engineering Division. Title: "Creativity in Design – A Cross-Disciplinary Approach" (Mahboub, Liu, Chandraratna, and Portillo), 2004.
- Certificate of Recognition from President Lee Todd for serving as the inaugural member of President's Commission on Diversity, July 2004.
- Omicron Delta Kappa, National Leadership Honor Society, 2001.
- Recipient of the Kentucky Society of Professional Engineers (KSPE) statewide Outstanding Engineering Educator Award for the year 2000.
- Recipient of the American Society of Civil Engineers 1990 Edmund Friedman Young Engineer Award for Exceptional Professional Achievement. No more than five civil engineers in the U.S. under 32 years of age are selected annually for this award.
- Chi Epsilon - Civil Engineering Honor Society, Inducted 1989.

## **PROFESSIONAL ACCOMPLISHMENTS**

### ***Teaching and Advising***

- Developed five (5) new courses
- Experienced with Distance Learning Courses
- Active participant in the UK “Teaching Creativity Initiative”
- Advise approximately 30 students per semester
- Experience with Co-op Education

### ***Research and Scholarship***

- Secured over \$1.5 Million in research contracts and grants
- Prepared multi-disciplinary research proposals
- Published over 90 technical papers and publications
- Supervised more than 100 students engaged in research
- Managed multi-disciplinary research projects

### ***Professional Service***

- Served on the Board of Directors of Kentucky Society of Professional Engineers
- Delivered over 50 invited presentations at national and international forums
- Organized and moderated sessions in technical conferences
- Served on numerous national and international committees
- Provided consulting services to industry

### ***Administration***

- Coordinated Engineering Outreach and International Programs
- Managed Graduate Studies
- Involvement with Strategic Planning, Program Assessment, and Accreditation
- Managed Personnel
- Participated in Continuous Quality Improvement
- Managed complex projects through building coalitions

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

- American Society of Civil Engineers (ASCE, Transportation Engineering Journal Control Group, Bituminous Materials Control Group)
- American Society for Engineering Education (ASEE, CE Division Board Member)
- American Society for Testing and Materials (ASTM)
- American Concrete Institute (ACI)
- Association of Asphalt Paving Technologists (AAPT)
- Chi Epsilon, National Civil Engineering Honor Society (XE)
- Institute of Transportation Engineers (ITE)
- Kentucky Society of Professional Engineers (KSPE, Board Member)
- National Society of Professional Engineers (NSPE)
- Transportation Research Board (TRB, Four Technical Committees)

## **BOOKS**

- “**Pavements Analysis and Design**”, Y.H. Huang (Two Chapters by K.C. Mahboub), Prentice Hall, Second Edition, July 2003, and July 2004.
- “**Asphalt Mix Design and Construction: Past, Present, and Future**”, Editors: K. Wayne Lee, and K.C. Mahboub. ASCE Construction Institute, 2006.
- “**Pavements Analysis and Design**”, Y.H. Huang and K.C. Mahboub (Four Chapters by K.C. Mahboub), Prentice Hall, Third Edition, Scheduled for release in 2017.

## **PATENT**

“Load Transfer Assembly”, by: Southgate, Mahboub, and Zeinali. U.S. Patent Number: 8,206,059 (Issue Date: June 26, 2012).

## **EXAMPLE JOURNAL PUBLICATIONS**

- D.E. Rust, R. Rathbone, **K.C. Mahboub**, T. Robl. “Formulating Low Energy Cement Products”. ASCE Journal of Materials Engineering, American Society of Civil Engineering, Volume 24, Issue 9, September 2012, pp. 1125–1131.
- T.M. Clements, P.B. Blankenship, **K.C. Mahboub**. “The Effect of Loose Mix Aging on the Performance of Warm Asphalts”. Journal of Association of Asphalt Pavement Technologists (AAPT, December 2012).
- R.C. Graves, and **K.C. Mahboub**. “Streamlining the use of the NCHRP Mechanistic Empirical Pavement Design Guide (MEPDG)”. Journal of the Transportation Research Board, National Research Council, TRR 2305, 2013, pp. 170-176.
- J.V. Brien, K.R. Henke, **K.C. Mahboub**, “Observations on Peak Strength Behavior of Calcium Sulfo-aluminate (CSA) Cement Mortars”, Journal of Green Building, 2013, Volume 8 Number 3.
- J.V. Brien, **K.C. Mahboub**. “Influence of Polymer Type on Adhesion Performance of a Blended Cement Mortar”. International Journal of Adhesion and Adhesives, Elsevier, Volume 43, June 2013, Pages 7–13.
- Zeinali, **K.C. Mahboub**, H.F. Southgate. “Effects of Hinged Dowel System on Performance of Concrete Pavement Joints”. International Journal of Pavement Research and Technology, Vol. 6, No. 4, 2013, pp. 243-249.
- R.B. Jewell, **K.C. Mahboub**, T.L. Robl. “Interfacial Bond between Reinforcing Fibers and CSA Cements: Fiber Pullout Characteristics”. Journal of Concrete Materials, American Concrete Institute (ACI), 2014.
- Zeinali, P.B. Blankenship, R.M. Anderson, **K.C. Mahboub**. “Effect of Long-Term Ambient Storage of Compacted Asphalt Mixtures on Laboratory-Measured Dynamic Modulus and Flow Number”. Journal of Transportation Research Board, National Research Council, 2014.

- Zeinali, P.B. Blankenship, R.M. Anderson, **K.C. Mahboub**. “Effect of Laboratory Mixing and Compaction Temperatures on Asphalt Mixture Volumetrics and Dynamic Modulus”. Journal of Transportation Research Board, National Research Council, 2014.
- A. Zeinali, **K.C. Mahboub**. P.B. Blankenship, R.M. Anderson, “Development of the Indirect Ring Tension Fracture Test for Hot Mix Asphalt. Journal of AAPT 2014, jointly published with the Journal of Road Materials and Pavement Design (RMPD).
- Zeinali, **K.C. Mahboub**. P.B. Blankenship, “Development of a New Test for Fracture Characterization of Asphalt Concrete”. Journal of Road Materials and Pavement Design (RMPD), 2014.