

**Kenneth Ray Hobson, P. E.**

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**QUALIFICATIONS**

I started by asphalt career at Oklahoma Department of Transportation (ODOT) July 1984 as an asphalt plant inspector. Shortly I took a position in bituminous branch as an asphalt design laboratory technician. In the fall of 1989, I transferred to the ODOT bridge design squad at the University of Oklahoma. While there I worked on my 2<sup>nd</sup> college degree, Bachelor of Science in Civil Engineering. May 1993, I entered ODOT's Engineer-In-Training (EIT) program. In 1994 I was back in ODOT's Materials Division working in the liquid asphalt laboratory helping with implementation of the Superpave binder testing protocols and equipment setup. Acted as the bituminous branch manager from 1999-2003 and managed both the liquid and asphalt design laboratories. I helped with implementation of Superpave mix design method. I implemented the Asphalt Pavement Analyzer (APA) as a proofing test. 2003-2009 saw me working as the office manager and liaison branch manager. I helped answer asphalt related questions in the absence of others. I helped develop spreadsheets in Lotus123 and Excel for Percent-Within-Limits demonstration projects for both asphalt and Portland cement projects. From 2009 until now, I was again managing the liquid and asphalt mix design laboratories. I implemented the Hamburg rut tester to replace the APA rut tester. I wrote specifications for partial to full implementation of the Multiple Stress Creep Recovery (MSCR) test method.

**EDUCATION**

1971-1975      Graduated with honors, Yukon High School, Yukon, Oklahoma

1975-1979      Bachelor of Arts in Education with minor in Science, University of Central Oklahoma, Edmond, Oklahoma

1985-1989      Miscellaneous course in Civil Engineering, Rose State College, Midwest City, Oklahoma

1989-1993      Bachelor of Science in Civil Engineering, University of Oklahoma, Norman, Oklahoma

**REGISTRATIONS AND CERTIFICATIONS**

1996-2004      Engineer Intern #6944, State of Oklahoma

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2004- Professional Engineer #21510, State of Oklahoma  
2011-2016 Certified PG Binder Technician, # A184

**COMMITTEE POSITIONS HELD**

1999-2003 Asphalt Quality Improvement Task Force  
2009  
1999-2003 ODOT Pavement Improvement Committee  
2014- Chair NCHRP 9-59

**RELEVANT PROFESSIONAL TRAINING**

1993-2003 Engineer-In-Training Program, ODOT

**TRAINING SUPPLIED AND PUBLIC PRESENTATIONS**

**PAPERS AND REPORTS**

Title of Publication and Contributing Author	Publication Info
Elastic Recovery Testing in Oklahoma	Asphalt Contractor Magazine, <a href="http://www.asphalt.com/equipment/elastic.html">http://www.asphalt.com/equipment/elastic.html</a> <a href="http://www.utexas.edu/research/superpave/articles/er.html">http://www.utexas.edu/research/superpave/articles/er.html</a>
Tarefder, R. A., Zaman, M. M., and Hobson, K., "A Laboratory and Statistical Evaluation of Factors Affect Rutting", International Journal of Pavement Engineering, IJPE, Vol. 4, No. 1, pp. 59-68, August 2003	Contact: Vincent Janoo, Taylor & Francis publisher. <a href="http://www.nottingham.ac.uk/~evzard/ijpe.html">http://www.nottingham.ac.uk/~evzard/ijpe.html</a>
Tarefder, R. A., Zaman, M. M., and Hobson, K., "Micro-Deval Test for Evaluating Mechanical Strength Properties of Aggregate", International Journal of Pavement, IJP, Vol. 2	Contact: WAHEED UDDIN, Ph.D., P.E. Associate Professor and Director, CAIT, Department of Civil Engineering, <a href="http://www.olemiss.edu/depts/civil_eng">http://www.olemiss.edu/depts/civil_eng</a> The University of Mississippi <a href="http://www.olemiss.edu">http://www.olemiss.edu</a> , University, MS 38677-1848, USA, Phone: (662) 915-5363, Fax: (662) 915-5523 email: cvuddin@olemiss.edu

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Tarefder, R. A., Zaman, M. M., and Hobson, K., "Laboratory Assessment of Binders' Contribution to Rutting Susceptibility", International Journal of Pavement, IJP, Vol. 1, No. 2, pp. 36-47, May 2002	Contact: Dr. Waheed Uddin
Tarefder, R. A., Zaman, M. M., and Hobson, K., "Evaluating the CoreLok™ Measurement of Bulk Specific Gravity for Hot Mix Asphalt Samples", ASTM Journal of Testing and Evaluation, Vol. 30, No. 4, pp. 274-282, July 2002	Contact: ASTM Staff, Harveyetta Edwards, Administrative Assistant, Journals (610) 832-9618, email: hedwards@astm.org
Tarefder, R. A., Zaman, M. M., Hobson, K., and Toney, R., "Evaluation of Relative Weight of Rutting Parameter", Proc. of the Canadian Technical Asphalt Association, Calgary, Canada, Vol. 1, pp. 119-134, November 18-20, 2002	<a href="http://www.ctaa.ca/en/contact_us.htm">http://www.ctaa.ca/en/contact_us.htm</a> Phone / Fax: (250) 361-9187
Hossain, Z., Zaman, M., and Hobson, K. "Effects of Liquid Anti-Strips on Rheological Properties of Performance Grade Binders," in the International Journal of Pavement Research and Technology (IJPRT), Volume 3, Number 4, July, 2010. pp. 160-170.	
Hossain, Z., Solanki, P., Zaman, M., Lewis, S., and Hobson, K., "Influence of Recovery Processes on Properties of Binders and Aggregates Recovered from Recycled Asphalt Pavement," In the International Symposium on Testing and Specifications of Recycled Materials for Sustainable Geotechnical Construction, February 2-4, 2011, Baltimore, Maryland.	
Hossain, Z., Solanki, P., Zaman, M., Lewis, S., and Hobson, K. "Influence of Recovery Processes on Properties of Binders and Aggregates Recovered from Recycled Asphalt Pavement," in the Journal of ASTM International (JAI), Version, Vol. 9, Issue 3, February 2012.	

Hossain, Z., Ghosh, D., Zaman, M., and Hobson, K. "Implementation of the Multiple Stress Creep Recovery (MSCR) Test Method to Characterize Polymer-Modified Asphalt Binders for Oklahoma Conditions," Under Review, in the Journal of Testing and Evaluation, July 2014.	
Hossain, Z., Zaman, M., Ghosh, D., and Hobson, K. "Guidelines for Implementing the Multiple Stress Creep Recovery (MSCR) Test Method," Under Review, in the 94th Transportation Research Board Annual Meeting, Washington D.C., to be held on January 11-15, 2015.	

## EMPLOYMENT

1984-1999	<i>Asphalt Plant Inspector/Technician, Oklahoma Department of Transportation (Materials Division)</i>
1999-2003	<i>Acting Bituminous Engineer, Oklahoma Department of Transportation (Materials Division)</i>
2009-2015	<i>Bituminous Engineer, Oklahoma Department of Transportation (Materials Division)</i>
\$	Write and provide training for new asphalt-related specifications. Interpret current specifications and special provisions.
\$	Manage ODOT's AMRL Accreditation for Bituminous Branch and related testing and reporting activities.
\$	Solve asphalt-related problems in planning, specifications, design, sampling, testing, and construction.
\$	Serve as liaison between ODOT Bituminous Branch and other ODOT Divisions, universities, other DOT's, and various asphalt-related organizations
\$	Manage ODOT's Asphalt Mix and Liquid Asphalt labs.
\$	Approve aggregate quarries, asphalt refineries, asphalt design labs, asphalt testing labs, and asphalt designs.
\$	Selected materials for and managed the Oklahoma Materials Reference Program (OMRL).