

CURRICULUM VITAE

Khalid Al-Shamsi

PERSONAL INFORMATION

EDUCATION AND EMPLOYMENT INFORMATION

EDUCATION

- Ph.D.** Civil Engineering, Louisiana State University, USA, 2006
- MSc.** Civil Engineering, University of Birmingham, UK, 1995
- B.Sc.** Civil Engineering, Sultan Qaboos University, Oman, 1993

EMPLOYMENT HISTORY

Assistant Professor, Department of Civil and Architectural Engineering, 2006-present.

Assistant Lecturer, Department of Civil and Architectural Engineering, 1995-2006.

Demonstrator, Department of Civil and Architectural Engineering, 1993-1995

AWARDS AND RECOGNITION

- Full MS.c scholarship, Sultan Qaboos University, 1994
- Full PhD scholarship, Sultan Qaboos University, 2006
- Distinguished research paper award, Sultan Qaboos University, 2011

TEACHING

CIVL5216: Pavement Design and Maintenance
CIVL5206: Traffic Engineering and Management
CIVL5204: Engineering Economics
CIVL4036: Highway Engineering
CIVL3076: Transportation Engineering
CIVL2400: Professional Practice and Ethics
ENGR1500: Introduction to Engineering

SERVICES

UNIVERSITY ADMINISTRATION AND COMMITTEES

- University: Department's Curriculum Committee (member), Department's Graduate Studies Committee (coordinator, 2007-2012). Department's Accreditation Committee (focus group member, 2011-2013), College Graduate Studies Committee (member, 2007-2012). The Civil and Architectural Engineering Society, (Advisor, 2006-2007). College of Engineering Board Member (2012-2014)
- Served as a member in the committee in charge of the follow up of the final recommendations of the "Third Gulf Conference on Roads, March 6-8 2006, Sultan Qaboos University". The committee was formulated as a joint effort between Ministry of Transport & Communications and the Sultan Qaboos University
- Served as the chairman of the project examination committee for a number of graduate students (MSc).
Member of the University academic appointment committee, November 2013-November 2015

PROFESSIONAL SERVICE

- Member, the Technical Committee of the third Middle East Society of Asphalt Technologists (MESAT) Conference 2015, Dubai, April 6-8, 2015
- A member of the Board of Directors, Middle East Society of Asphalt Technologists (MESAT), 2013-2015
- A member of the "Road Safety National Competition" evaluation committee, Royal Oman Police. 2013-2015
- A member in a Joint committee between SQU and Ministry of Transportation and Communications 2012- present.
- Session Organizer, Second International Conference on Coastal Zone Engineering and Management, November 1-3 2010, Muscat, Oman
- A member of the Road Safety Research Program (RSRP) Steering Committee, The Research Council (TRC), Oman, 2009-present
- A member of the scientific committee of the Gulf Conference on Transportation, 2008, Dubai, UAE.
- Reviewed papers for the International Journal of Pavement Engineering, the Journal of Engineering Research (TJER), the International Journal of Engineering (IJE), Sultan Qaboos University Medical Journal (traffic safety related article), SIIV2012 conference "Sustainability of Road Infrastructures", The third Middle East Society of Asphalt Technologists (MESAT) Conference 2015, Dubai, April 6-8, 2015
- Reviewed technical proposals submitted for the Road Safety Research Program, The Research Council (TRC)
- Session moderator- Gulf Conference on Transportation, Dubai, UAE, 2008.
Secretary (Organizing Committee)-International Conference on Geoenvironment (ICG 2000)-SQU, Oman, March 2000.

SERVICE TO THE PUBLIC HONORS/MEMBERSHIPS

- Gulf Road Engineering Society (GRES), life-time member
- Middle East Society of Asphalt Technologists (MESAT), member of the board of directors

SCHOLARLY ACHIEVEMENTS

PUBLISHED REFEREED JOURNAL PAPERS

- **Alshamsi K**, Baawain M, Aljabri K, Taha R, Al-kamyani Z. "Utilizing Waste Spent Catalyst in Asphalt Mixtures" *Procedia - Social and Behavioral Sciences* 53 (2012) pp. 326-344.
- Ramzi Taha, Zahran Al-Kamyani, Khalifa Al-Jabri, Mahad Baawain and **Khalid Al-Shamsi**. "Recycling of Waste Spent Catalyst in Road Construction and Masonry Blocks". *Journal of Hazardous Materials*, Vol. 229-230 (2012), pp 122-127
- Khalifa Al-Jabri, Mahad Baawain, Ramzi Taha, Zahran Al-Kamyani, **Khalid Al-Shamsi** and Aysser Ishtieh. "Potential use of FCC spent catalyst as partial replacement of cement or sand in cement mortars". *Construction and Building Materials*, Vol. 39 (2013), pp 77-81
- H.F. Hassan and **K. S. Al-Shamsi**. "Characterization of Asphalt Mixes Containing MSW Ash using the Dynamic Modulus $|E^*|$ test. *International Journal of Pavement Engineering*, Vol. 11, No. 6, December 2010.
- **Al Shamsi, K.**, Mohammad, L.N., "Estimating Optimum Compaction Level for Dense-Graded Hot-Mix Asphalt Mixtures. *The Journal of Engineering Research (TJER)*, Sultan Qaboos University, Vol. 7, No.1, pp 11-21, 2010.
- Mohammad, L.N., and **Al Shamsi, K.**, "A Look at the Bailey Method and Locking Point Concept in Superpave Mixture Design." *E-Circular of the Transportation Research Board, National Academy of Science*, No. 124, Washington,D.C. December 2007.
- **Al Shamsi, K.**, Mohammad, L.N., Wu, Z., and Cooper, S., "Compactability and Performance of Superpave Mixtures with Aggregate Structures Designed Using the Bailey Method." *Journal of the Association of Asphalt Paving Technologist*, Vol. 75, 2006.
- Taha, R. Al-Harthy, A., **AL Shamsi, K.**, AL-Zubeidi, M."Cement Stabilization of Reclaimed Asphalt Pavement Aggregate for Road Bases and Subbases." *ASCE Journal of Materials*, Vol. 14, No. 3, 2002, pp. 239-245

BOOKS AND CHAPTERS IN BOOKS CONFERENCE PROCEEDINGS

- Khalifa Al-Jabri, Zahran Al-Kamyani, Ramzi Taha, Mahad Baawain, **Khalid Al-Shamsi** and Abdullah Al-Saidy. "Performance of Concrete Made with Spent Catalyst as Partial Cement Replacement". *FIB Symposium*, Sweden, June 11-14, 2012.
- Khalifa Al-Jabri, Zahran Al-Kamyani, Ramzi Taha, Mahad Baawain and **Khalid Al-Shamsi**. "Use of spent catalyst as an additive cementitious material in concrete and masonry blocks". *American Concrete Institute - Kuwait Chapter*, Kuwait, May 8-10, 2012
- Ramzi Taha, Zahran Al-Kamyani, Khalifa Al-Jabri, Mahad Baawain, **Khalid Al-Shamsi** and Ahmed Al-Futaisi. "Use of Waste Spent Catalyst in Construction". *1st Annual International Conference on Construction*, Athens Institute for Education and Research, Athens, Greece, June 20-23, 2011
- Khalifa Al-Jabri., Aysser Ishtieh., Zahran Al-Kamyani., Ramzi Taha., Mahad Baawain., **Khalid Alshamsi.**, "Use of FCC Spent Catalyst as Partial Replacement of Cement or/and Fine Aggregates in Cement Mortars". *Proceedings of International Symposium on Cement & Concrete Materials*, ISCCM, Ningbo, China, November 7-9, 2011.
-

- Taha, R., and **Alshamsi, K.**, “Utilization of Petroleum-contaminated Soils in Road bases and Subbases.” Proceedings of the International Conference on Geotechnical and Highway Engineering GEOTROPIKA 2008, Kuala Lumpur, Malaysia, May 26-27, 2008.
 - Taha, R., and **Alshamsi, K.**, “Characterization of Road Bases and Subbases Made of Reclaimed Asphalt Pavement and Recycled Concrete.” Proceedings of the 3rd European Conference on Pavement and Asset Management, Coimbra, Portugal, July 7-9 2008.
 - **Alshamsi, K.**, and Mohammad, L.N., "Laboratory Optimization of Asphalt Concrete Mixture Design." Proceedings of the Third Gulf Conference on Roads, Muscat, Oman, March 6-8, 2006, pp. 82-91.
 - Sivakugan, N., **Al-Shamsi, K.S.M.** and Al-Futaisi, A.M. “Bearing Capacity of Shallow Foundations in Granular Soils, Proceedings of Buildings and Structures Subjected to Ground Movement”, Newcastle, 1995, pp. 29-32
- WORKSHOP/SYMPOSIUM/FORUM PROCEEDINGS**
- Mohammad, L.N., and **Al Shamsi, K.**, “A look at the Bailey Method and Locking Point Concepts in Superpave Mixture Design.” Presented at the Transportation Research Board Workshop on Practical Approaches to Design of Hot Mix Asphalt, Washington, D.C., January 22, 2006
 - **Al Shamsi, K.**, and Mohammad, L.N., K., “Locking Point Concept in HMA Mixture Design.” Presented at the 2006 Southeastern Asphalt User Producer Group Annual Meeting, Wilmington, North Carolina, November 14-16, 2006

TECHNICAL REPORTS

FUNDING GRANT AND CONTRACT SUPPORT

Grants

K. Alshamsi and H. Hassan. “Evaluation of Warm Asphalt Mixtures using Local Materials from Oman” , Internally funded project by Sultan Qaboos University, Project Number: IG/ENG/08/08 (Funding: O.R. 5774 = \$14959, 2008-2011)

R.A. Taha, M. Baawain, K. Al-Jabri and **K. Al-Shamsi**. “Beneficial Applications of Spent Catalysts and Charcoal Generated by Mina Al-Fahl and Sohar Refineries.” Oman Refineries and Petrochemicals Company, LLC, October 2009. (Funding: O.R. 110,400=\$286,000, 2009-2011)

H.Hassan, K. Al-Shamsi, and K. Al-Jabri “Performance Testing of Asphalt Mixes Containing Waste Materials.” Assistant Vice Chancellor for Postgraduate Studies & Research, Sultan Qaboos University, (US\$ 10,000) for 3 years.

Contracts & Support Services

Heavy vehicle safety in Oman (Local Research Partner). Total budget of the project. The Research Council (TRC), Oman (R.O 25387.992= \$63470)