



## **Ghazi G. Al-Khateeb, Ph.D.**

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[http://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/ced/Pages/ppl\\_detail.aspx?mcid=31&clt=en](http://www.sharjah.ac.ae/en/academics/Colleges/eng/dept/ced/Pages/ppl_detail.aspx?mcid=31&clt=en)

<https://scholar.google.com/citations?user=ZDW7AeAAAAAJ&hl=en>

[https://www.researchgate.net/profile/Ghazi\\_Al-Khateeb](https://www.researchgate.net/profile/Ghazi_Al-Khateeb)

On leave from:  
Jordan University of Science and Technology  
Irbid 22110, Jordan

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### **Education:**

- Ph.D. Civil Engineering / Transportation (January 2001)  
GPA = 3.96 out of 4.00  
Dissertation: “Development of a Hollow-Cylinder Tensile Tester to Obtain Fundamental Mechanical Properties of Asphalt Paving Mixtures”  
University of Illinois at Urbana-Champaign (UIUC), Urbana, IL, USA
  - M.S. Civil Engineering / Transportation (January 1994)  
Ranked 1<sup>st</sup>  
Dissertation: “Effect of Traffic Movement and Volume on Air Pollution in Irbid City”  
Jordan University of Science and Technology (JUST), Irbid, Jordan
  - B.S. Civil Engineering (January 1991)  
Ranked 1<sup>st</sup> in Semester  
Jordan University of Science and Technology (JUST), Irbid, Jordan
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## **Honors and Awards:**

- ❑ Certificate of Recognition, in recognition of participation as session moderator, The 1st International Innovation X.0 Forum, College of Engineering, University of Sharjah, Sharjah, UAE, May 04, 2023.
- ❑ Certificate of Recognition, in recognition of valuable contribution as a member of the organizing committee, COE Senior Design Projects Exhibition, University of Sharjah, Sharjah, UAE, May 04, 2023.
- ❑ Certificate of Appreciation, in recognition of valuable participation, UOS Open Day, Sharjah, UAE, May 2-4, &6, 2023.
- ❑ Certificate of Appreciation, in recognition of valuable participation, Kalba 2nd Forum on Building and Construction, Sharjah, UAE, February 21, 2023.
- ❑ Certificate of Appreciation, in recognition for attending the seminar, Beyond Industry 4.0 and 5.0- Towards Smart-Digital Green Society: A Canadian Perspective in Education and Research, December 05, 2022.
- ❑ Certificate of Appreciation, in recognition of the valuable efforts as a member of the organizing committee, College of Engineering Senior Design Project Exhibition, University of Sharjah, Sharjah, UAE, May 25, 2022.
- ❑ Certificate of Appreciation, in recognition for sharing valuable knowledge and research activities as a guest speaker, Annual Master's Seminar in Environmental Science and Engineering (ESE), February 28, 2022.
- ❑ Certificate of Appreciation, in recognition of active efforts in chairing a conference session during The Sharjah International Conference on Education in Post COVID-19, "The Future Trends in Teaching & Learning: Employability & Skills driven curriculum," University of Sharjah, UAE, March 14-16, 2022.
- ❑ Certificate of Appreciation, in recognition of sharing knowledge and research activities as a guest speaker in the Annual Master's Seminar in Environmental Science and Engineering, February 28, 2022.
- ❑ Letter of Appreciation, UOS Chancellor's Office, in recognition of the renewal of program accreditation for the B.Sc. in Civil Engineering and M.Sc. in Civil Engineering, University of Sharjah, Sharjah, UAE, December 27, 2021.
- ❑ Certificate of Appreciation, in recognition of valuable coordination and leadership during the session entitled SESSION A3 - eSystems Engineering (Main Track) during the 14 th International Conference on Developments in eSystems Engineering (DeSE), December 07-10, 2021.
- ❑ Certificate of Appreciation, in recognition of the valuable participation, Department of Municipalities and Transport, Abu Dhabi Municipality, UAE, April 29, 2021.
- ❑ Certificate of Appreciation, in recognition of valuable contributions as a coordinator of the organizing committee of the College of Engineering Research Week (International Symposium of Engineering and Business Administration--ISEBA), University of Sharjah, Sharjah, UAE, April 10-11, 2021.
- ❑ Certificate of Appreciation, in recognition of valuable contributions as a coordinator of the organizing committee of the College of Engineering Research Week, University of Sharjah, Sharjah, UAE, February 29-March 01, 2020.
- ❑ Sharjah Sustainability Award, Outstanding Student's Award, Domain: Applied Scientific Research, 9<sup>th</sup> Cycle, Sharjah Environment and Protected Areas Authority, Project Title "Evaluating the Performance of Date Seeds Bio Oil-Modified Asphalt Binders," 2020-2021, June 30, 2021.
- ❑ Sharjah Sustainability Award, Outstanding Student Team Award, Domain: Assessment Scientific Research, 9<sup>th</sup> Cycle, Sharjah Environment and Protected Areas Authority, Project Title

- “Performance Assessment of Polymer Modified Asphalt Binders against Rutting, Fatigue and Thermal Cracking to Meet Local Conditions in the UAE,” 2020-2021, June 30, 2021.
- ASTM 2nd Prize, Assessment of the Effect of Carbon Nanotube Fibers for Superior Performing Roadways in the UAE, ASTM International UAE Chapter Student Poster Competition, September 8, 2020.
  - ASTM 3rd Prize, Modification of Asphalt binder using Crumb Rubber in UAE, ASTM International UAE Chapter Student Poster Competition, September 8, 2020.
  - Sharjah Sustainability Award, Outstanding Team Award, Domain: Assessment Scientific Research, 8<sup>th</sup> Cycle, Sharjah Environment and Protected Areas Authority, “Assessment of Synergistic Effect of Nanoparticles and Nanotube Fibers for Superior Performing Roadways in the UAE,” 2019-2020.
  - Sharjah Sustainability Award, Outstanding Student’s Award, Domain: Assessment Scientific Research, 8<sup>th</sup> Cycle, Sharjah Environment and Protected Areas Authority, Project Title “Advanced Characterization of Asphalt Mixtures with Steel Slag Aggregates for Superior Performing Roadways in the UAE,” 2019-2020.
  - Certificate of Appreciation, in recognition of valuable contributions in the 2<sup>nd</sup> Engineering Undergraduate Design Project Exhibition (EUDPE), University of Sharjah, Sharjah, UAE, May 02, 2019.
  - Certificate of Appreciation, in recognition of the valuable efforts as the chair of the organizing committee of the 2<sup>nd</sup> Engineering Undergraduate Design Project Exhibition (EUDPE), University of Sharjah, Sharjah, UAE, May 02, 2019.
  - Dubai Award for Sustainable Transport 2019 under the category, “Best Academic Institution Supportive of Sustainability,” February 07, 2019.
  - Certificate of Outstanding Contribution in Reviewing, in recognition of the contributions made to the quality of the Construction and Building Materials Journal, December 2017.
  - Certificate of Reviewing, in recognition of the review made for the Construction and Building Materials Journal, November 2017.
  - Graduate Research Scholarship, University of Illinois at Urbana-Champaign, Illinois, USA, 1997-2000.
  - College Honor Award for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, June 1990.
  - College Honor Award for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, June 1989.
  - College Honor Award for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, June 1988.
  - College Honor Award for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, June 1987.
  - College Honor Award for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, January 1987.
  - University Honor Award, for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, June 1987.
  - University Honor Award, for Outstanding Performance Students, Department of Civil Engineering, Jordan University of Science and Technology, January 1987.
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## **Professional Experience:**

- ❑ Professor, University of Sharjah, Sharjah, UAE (January 18, 2021-present).
  - ❑ Associate Professor, University of Sharjah, Sharjah, UAE (September 01, 2017-present).
  - ❑ Visiting Associate Professor, University of Sharjah, Sharjah, UAE (September 01, 2015-August 31, 2017).
  - ❑ Visiting Associate Professor, American University of Sharjah, Sharjah, UAE (September 01, 2014-August 31, 2015).
  - ❑ Associate Professor, Jordan University of Science and Technology, Irbid, Jordan (September 2011-September 2014).
  - ❑ Assistant Professor, Jordan University of Science and Technology, Irbid, Jordan (September 2006-September 2011).
  - ❑ Senior Research Scientist and On-Site Technical Manager, Pavement Materials and Construction Team, Turner-Fairbank Highway Research Center (TFHRC) of the Federal Highway Administration (FHWA), McLean, VA, USA (November 2000-September 2006).
  - ❑ Graduate Research and Teaching Assistant, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, USA (January 1997-November 2000).
  - ❑ Highway Laboratory Manager, Department of Civil Engineering, Applied Science University, Amman, Jordan (November 1994-August 1996).
  - ❑ Researcher, Department of Civil Engineering, Jordan University of Science and Technology, Irbid, Jordan (January 1994-November 1994).
  - ❑ Graduate Research and Teaching Assistant, Department of Civil Engineering, Jordan University of Science and Technology, Irbid, Jordan (January 1991-January 1994).
  - ❑ Project Supervisor Engineer, Training Course, Irbid, Jordan (June 1990-September 1990).
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## **Academic Experience:**

### University Courses (Teaching Undergraduate and Graduate):

University of Sharjah, Sharjah, UAE (September 2015-present)

- ❑ 0401100 Introduction to Civil and Environmental Engineering
- ❑ 0401201 Statics
- ❑ 0401305 Computational Methods in Civil Engineering
- ❑ 0401405 Numerical Methods
- ❑ 0401491/498 Senior Design Project I Coordination
- ❑ 0401492/499 Senior Design Project II Coordination
- ❑ 0401527 Advanced Pavement Analysis and Design
- ❑ 0401529 Advanced Topics in Transportation Engineering
- ❑ 0401705 Design and Analysis of Experiments
- ❑ 0401773 Modeling of Asphalt Materials

University Courses (Teaching Undergraduate):

American University of Sharjah, Sharjah, UAE (September 2014-September 2015)

- CVE 241 Elementary Surveying
- CVE 263 Urban Transportation Planning
- CVE 456 Traffic Engineering
- CVE 490 CE Design Project I
- CVE 491 CE Design Project II

University Courses (Teaching Undergraduate and Graduate):

Jordan University of Science and Technology, Irbid, Jordan (September 2006-September 2014)

- CE 341 Surveying
- CE 343 Surveying Laboratory
- CE 442 Pavement Materials and Design I
- CE 444 Highway Laboratory
- CE 540 Pavement Materials and Design II
- CE 541 Traffic Engineering
- CE 543 Advanced Transportation Engineering
- CE 546 Highway Maintenance
- CE 582 Special Topics in Transportation
- CE 743 Advanced Pavement Analysis and Design
- CE 746 Highway Safety

University Courses (TA):

University of Illinois at Urbana Champaign, Urbana, IL, USA (August 1998-November 2000)

- CE 321 Bituminous Materials with Lab

University Courses (TA):

Applied Science University, Amman, Jordan (November 1994-August 1996)

- CE 100 Engineering Drawing
- CE 216 Surveying Laboratory
- CE 261 Construction Materials
- CE 262 Construction Materials Laboratory
- CE 323 Structural Design I
- CE 324 Structural Design II
- CE 341 Highway Engineering
- CE 342 Highway Engineering Laboratory
- CE 441 Transportation and Traffic Engineering

Jordan University of Science and Technology, Irbid, Jordan (January 1991-January 1994)

- CIV 211 Fluid Mechanics and Hydraulics
- CIV 222 Surveying I

- ❑ CIV 343            Surveying Laboratory
  - ❑ CIV 344            Route Surveying
  - ❑ CIV 352            Hydraulics
  - ❑ CIV 354            Fluid Mechanics and Hydraulics Laboratory
  - ❑ CIV 441            Transportation Engineering
  - ❑ CIV 442            Highway and Traffic Engineering
  - ❑ CIV 444            Highway Laboratory
  - ❑ CIV 546            Highway Maintenance
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### **Administrative Experience:**

- ❑ Chairman, Department of Civil and Environmental Engineering, College of Engineering, University of Sharjah, Sharjah, UAE (August 2020-present).
  - ❑ Vice Dean of Engineering, College of Engineering, Jordan University of Science and Technology, Irbid, Jordan (September 1, 2012-September 1, 2014).
  - ❑ Vice-Director of the Consultative Center for Science and Technology (CCST), Jordan University of Science and Technology, Irbid, Jordan (September 1, 2009-September 1, 2010).
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### **Professional Affiliations:**

- ❑ Member, the Association of Asphalt Paving Technologists (AAPT).
  - ❑ Member, the American Society of Civil Engineers (ASCE).
  - ❑ Member, Jordan Engineers Association (JEA).
  - ❑ Member, Jordan Society for Scientific Research (JSSR).
  - ❑ Member, Jordan Road Accidents Prevention (JRAP).
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### **Technical and Academic Proficiency:**

#### Pavement Performance, Design, and Analysis Programs:

- ❑ BISAR
- ❑ KENLAYER
- ❑ KENPAVE
- ❑ KENSLABS
- ❑ ILLISLAB
- ❑ ILLIPAVE
- ❑ LEDFAA
- ❑ LTPP
- ❑ VESYS
- ❑ BOUSDEF
- ❑ BISDEF
- ❑ EVERCALC
- ❑ EVERPAVE

- ❑ EVERSTRS
- ❑ EVERFLEX
- ❑ WINLEA

Advanced Materials Testing and Data Acquisition Software:

- ❑ LabVIEW
- ❑ Labtech
- ❑ Test Star
- ❑ Fast Track: Max and Wavemaker

Universal Mechanical / Dynamic Testing Frames/Systems:

- ❑ Instron
- ❑ MTS
- ❑ IPC
- ❑ Interlaken

Finite Element Programs:

- ❑ ABAQUS
- ❑ EVERFLEX

Statistical Analysis Programs / Software:

- ❑ SAS
- ❑ Statistica
- ❑ SPSS
- ❑ Excel

Attended Academic and Professional Development / Teaching and Learning Workshops:

- ❑ Webinar on “The Federal Highway Administration (FHWA) Turner-Fairbank Highway Research Center and Infrastructure Research,” Presented by Cheryl Allen Richter, Federal Highway Administration’s Director of Office of Infrastructure R&D, Missouri Center for Transportation Innovation (MCTI), July 21, 2020.
- ❑ Webinar on “Operating a DOT During an International Pandemic,” Presented by Ed Hassinger, MoDOT Deputy Director and Chief Engineer, Missouri Center for Transportation Innovation (MCTI), June 9, 2020.
- ❑ Workshop on “Blended Learning”, Institute of Leadership in Higher Education, University of Sharjah, Sharjah, UAE, February 29, 2020.
- ❑ Workshop on “Active Learning Strategies”, Institute of Leadership in Higher Education, University of Sharjah, Sharjah, UAE, November 10, 2019.
- ❑ Workshop on “Modern Strategies in Teaching Methods”, Jordan University of Science and Technology, Irbid, Jordan, August 06-07, 2019.
- ❑ Workshop on “New Promotion Regulations”, Center of Continuing Education and Professional Development, University of Sharjah, Sharjah, UAE, November 16, 2017.

- ❑ Workshop on “Skills Development in Using UOS e-Services”, Center of Continuing Education and Professional Development, University of Sharjah, Sharjah, UAE, August 30 and September 3, 2015.
- ❑ Workshop on “Academic Faculty Bylaws”, Center of Continuing Education and Professional Development, University of Sharjah, Sharjah, UAE, August 24-25, 2015.
- ❑ One Full Day Faculty Workshop, “Microsoft Technology Enriched Instruction”, American University of Sharjah, Sharjah, United Arab Emirates, November 15, 2014.
- ❑ Workshop on “Statistical Package for Social Sciences (SPSS)”, the Academic Development Center, Jordan University of Science and Technology, Irbid, Jordan, July 08-09, 2012.
- ❑ Workshop on “Testing and Evaluation”, the Academic Development Center, Jordan University of Science and Technology, Irbid, Jordan, April 28-29, 2010.
- ❑ Workshop on “Modern University Instructional Methods: E-Learning”, the Academic Development Center, Jordan University of Science and Technology, Irbid, Jordan, September 10-11, 2007.

#### Delivered Seminars/Lectures:

- ❑ Lecture on “Highway Pavement Performance,” at Kalba 2<sup>nd</sup> Forum on Building and Construction, Sharjah, UAE, February 21, 2023.
- ❑ Lecture on “Characterization and Modeling of Asphalt Binders and Mixtures,” at the Advanced Materials Congress (AMC), Stockholm, Sweden, August 28-31, 2022, International Association of Advanced Materials (IAAM)---Online via Zoom, August 28, 2022.
- ❑ Lecture delivered in the Annual Master’s Seminar in Environmental Science and Engineering (ESE), Department of Civil and Environmental Engineering, University of Sharjah, February 28, 2022.
- ❑ Paper presented at the 4<sup>th</sup> HCT International Multi-Conferences, Advances in Science and Engineering Technology (ASET), Higher Colleges of Technology (HCT), Dubai Men’s Campus, February 21-24, 2022.
- ❑ Seminar on “Development of Asphalt Mix Design Specifications for Future Superior Performing Roadways in UAE,” Sharjah Research Academy (SRA), Sharjah, UAE, June 07, 2018.
- ❑ Seminar on “Fatigue Failure Criterion for Hot-Mix Asphalt (HMA),” the University of Sharjah, Sharjah, UAE, March 16, 2016.
- ❑ Lecture on “Innovations in Civil Engineering,” the University of Sharjah, in the UAE Innovation Week (November 22-28, 2015), Sharjah, UAE, November 25<sup>th</sup>, 2015.
- ❑ Lecture on “Superpave System,” Philadelphia Private University, Amman, Jordan, December 05, 2013.
- ❑ Lecture on “Strategies for Traffic Jams in Irbid City” for traffic-concerned parties and engineers at Irbid Governorate, Irbid, Jordan, July 22, 2009.
- ❑ Lecture and presentation entitled “Scientific Research and Development” at Jumana Bent Abi Taleb High School, Ramtha, Irbid, Jordan, November 27, 2008.
- ❑ Lecture and presentation entitled “Scientific Research and Development” at Abi Tammam High School, Ramtha, Irbid, Jordan, November 20, 2008.
- ❑ Lecture and presentation on “Leading Causes and Road Safety Strategies for Traffic Accidents in Jordan,” Presented at *Jordan Engineers Association (JEA) in the Traffic Safety Day*, Irbid, Jordan, June 10, 2008.

#### Delivered Technical Workshops:

- ❑ Workshop on “Superpave System Level II,” Jordan University of Science and Technology, Irbid, Jordan, July 18-22, 2010.



- ❑ Workshop on “Superpave System Level I,” Jordan University of Science and Technology, Irbid, Jordan, June 21-24, 2010.
- ❑ Workshop on “Superpave System and Asphalt Mixture Design,” Jordan University of Science and Technology, Irbid, Jordan, June 21-25, 2009.
- ❑ Seminar on “Leading Causes and Road Safety Strategies for Traffic Accidents in Jordan,” Jordan Engineers Association (JEA) on the Traffic Safety Day, Irbid, Jordan, June 10<sup>th</sup>, 2008.

#### Prepared Manuals:

- ❑ As a Head of the Superpave Technical Committee, prepared a Superpave Manual for the Specifications and Test Methods of Asphalt Mixtures commissioned by the Ministry of Public Works and Housing (MPWH), Amman, Jordan, 2010.
- ❑ Prepared numerous of technical reports for research studies at the FHWA Turner-Fairbank Highway Research Center during the period (2000-2006).
- ❑ Prepared Quality System Manuals for the Bituminous Mixtures Laboratory (BML) and Binder Rheology Laboratory (BRL) by the AASHTO Materials Reference Laboratory (AMRL) Accreditation Program, FHWA, TFHRC, McLean, VA, USA, April 2004. The manual preparation is done in accordance with the criteria and guidelines in the AASHTO Practice R18 “Establishing and Implementing a Quality System for Construction Materials Testing Laboratories.” These manuals must comply with the requirements of the AASHTO Practice R18, April 2004.

#### Membership in Technical /Organizing Committees:

- ❑ Member of the Organizing Committee and the Judging Committee, the College of Engineering Senior Design Project Exhibition, under the patronage of His Excellency the Chancellor of the University, Prof. Hamid Al Naimiy, University of Sharjah, May 04, 2023.
- ❑ Member of the Organizing Committee and the Judging Committee, the College of Engineering Senior Design Project Exhibition, under the patronage of His Excellency the Chancellor of the University, Prof. Hamid Al Naimiy, University of Sharjah, May 25, 2022.
- ❑ Session Co-chair, Sharjah International Conference on Education in Post COVID-19, Future Trends in Teaching and Learning: Employability and Skills Driven Curriculum, University of Sharjah, through Zoom, March 14-16, 2022.
- ❑ Committee Member and Session Chair, The 14<sup>th</sup> International Conference on Developments in eSystems Engineering (DeSE2021), University of Sharjah and Liverpool John Moores University, Hybrid Mode, December 7-10, 2021.
- ❑ Member of Organizing Committee, Workshop on Fiber Reinforced Concrete (FRC), University of Sharjah, Sharjah, UAE, April 23, 2018.
- ❑ Chair of Judging Committee, Session on Civil Engineering, the 5th UAE Undergraduate Research Competition, Abu Dhabi University, Abu Dhabi, UAE, May 08, 2017.
- ❑ Session Chair, “the Joint 8<sup>th</sup> International Forum on Engineering Education (IFEE) and 4<sup>th</sup> International Conference Towards Sustainable Development (ICTSD), Sharjah, United Arab Emirates, April 18 – 20, 2017.
- ❑ Technical Committee Member for Road Master Plan in Jordan, European Investment Grant, MPWH, Amman, Jordan, 2010.
- ❑ Member (JUST Representative), Traffic Technical Committee for Irbid City, Irbid Governorate and the Traffic Department of Irbid Municipality, Irbid, Jordan, 2010.
- ❑ Member, Asphalt and Roads Technical Committee, MPWH, Amman, Jordan, 2010.
- ❑ Head, Superpave Technical Committee, MPWH, Amman, Jordan, 2010.

- ❑ Organizing Committee Member, The 4<sup>th</sup> Conference on Scientific Research in Jordan (CSRJ), Amman, Jordan, November 7, 2009.
- ❑ Organizing Committee Member, Traffic Engineering Day, Jordan Engineers Association (JEA), Irbid, Jordan, June 10, 2008.
- ❑ Federal Highway Administration (FHWA) Representative as a Reviewer in the US National Technical Committee to Review the Western Research Institute (WRI) Research Results and Findings (2002-2006).

Review of Promotions (for confidentiality, the names are not mentioned):

- ❑ Application for Promotion from Assistant to Associate Professor, Qassim University, KSA, December 2022.
- ❑ Application for Promotion from Assistant to Associate Professor, Umm Al-Qura University, KSA, September 2017.
- ❑ Application for Transfer from B to A within Associate Professor Rank, JUST, Jordan, May 2014.
- ❑ Application for Promotion from Assistant to Associate Professor, Hail University, KSA, April 2014.

**Research:**

Funded Research Projects at the University of Sharjah:

Sponsor	PI Name Co-PI Names	Project Title	Status	Fund Amount (Dhs)	Dates
University of Sharjah	Ghazi Al-Khateeb Waleed Zeiada	Utilizing Optimal Aggregate Gradations to Enhance Rutting Performance of Asphalt Mixtures for UAE Roadways	Active	114,000	01/2023-01/2025
Ajman University University of Sharjah	Khalid Ghuzlan Ghazi Al-Khateeb	High Temperature Performance of Styrofoam-Modified Asphalt Binders	Active	20,000	9/2022-9/2023
Ministry of Energy and Infrastructure & Richmond Group	Waleed Zeiada Ghazi Al-Khateeb	Advanced Characterization of Asphalt Mixture Using Elrich® SBS Polymer-Modified Bitumen- Protective Maintenance of Federal Roads Phase 1	Active	84,000	2022-2023
Ministry of Energy and Infrastructure	Waleed Zeiada Ghazi Al-Khateeb	Experimental Study on Pervious	Active	300,000	2022-2024

	Salah Al-Toubat Mohamed Arab	Concrete: An Eco-Friendly Concrete Pavement			
Ajman University University of Sharjah	Khalid Ghuzlan Ghazi Al-Khateeb	Low-Temperature Performance of Sasobit-Modified Asphalt Binders Containing Date Seeds Bio Oil	Done	20,000	9/2021-9/2022
University of Sharjah	Ghazi Al-Khateeb Waleed Zeiada	Performance of Crumb Rubber-Modified Warm Mix Asphalt in the UAE	Extended	79,600	2020-2022
University of Sharjah	Waleed Zeiada Ghazi Al-Khateeb Abdallah Shanableh	Effect of Bio-Oils Extracted from Local Date Seeds on Rheological Properties of Modified Asphalt Binder	Done	79,400	09/2019-09/2021
University of Sharjah	Ghazi Al-Khateeb Waleed Zeiada	Producing Sustainable Modified Asphalt Binders Using Dates Seeds Filler	Done	40,000	06/2018-06/2020
Abu Dhabi Municipality	Waleed Zeida Ghazi Al-Khateeb Abdallah Shanableh	Advanced Characterization and Testing of Asphalt Mixes Containing Steel Slag Aggregates	Done	54,800	2018-2019
Sharjah Research Academy	Mufid Samarai Waleed Zeiada Ghazi Al-Khateeb Abdallah Shanableh	Asphalt Binder PG Mapping and Impact of Climate Change on Pavement Performance in the UAE	Done	1,131,000	06/2019-06/2021

Funded Research Projects at JUST:

Sponsor	PI Name Co-PI Names	Project Title	Status	Fund Amount (JD)	Dates
Deanship of Research, Jordan University of Science and Technology	Khalid Ghuzlan Ghazi Al-Khateeb	Studying the Fatigue Behavior of Asphalt Binders Using the Dynamic Shear Rheometer (DSR)	Done	3,000	11/2010-11/2014

Scientific Research Support Fund / Ministry of Higher Education and Scientific Research	Ghazi Al-Khateeb Turki Obaidat Taisir Khedaywi	Introducing New Technologies and Advanced Methodologies for Asphalt Mixtures of Highway Pavements in Jordan	Done	279,200	11/2008-11/2012
Deanship of Research, Jordan University of Science and Technology	Ghazi Al-Khateeb	Investigation of the Combined Effect of Dynamic Loading Frequency and Temperature on Fatigue Life of Asphalt Paving Mixtures	Done	5,100	09/2007-09/2009

Research Projects (Mostly Pooled Fund Projects at the FHWA):

PI Name Co-PI Names	Project Title	Status	Type and Sponsor	Dates
Jack Youtcheff Nelson Gibson Aroon Shenoy Ghazi Al-Khateeb	Evaluation of Epoxy Asphalt Materials	Done	Pooled Fund Study-States	03/2006-11/2006
Xicheng Qi Aroon Shenoy Ghazi Al-Khateeb Other Team Members	Laboratory Characterization and Full-Scale Accelerated Performance Testing of Crumb Rubber Asphalts and Other Modified Asphalt Systems	Done	Pooled Fund Study-States	10/2004-10/2006
Ghazi Al-Khateeb Kevin Stuart Nelson Gibson	Evaluation of ALF Modified Asphalt Mixtures for Intermediate-Temperature Fatigue Performance	Done	Pooled Fund Study-States	06/2002-09/2006
Ghazi Al-Khateeb Kevin Stuart Jack Youtcheff Nelson Gibson Other Team Members	Evaluation of ALF Modified Asphalt Mixtures for High-Temperature Rutting Performance	Done	Pooled Fund Study-States	06/2002-09/2006
Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	ALF Testing for Development of Improved Superpave Binder Specifications	Done	Pooled Fund Study-States	06/2002-09/2006
Xicheng Qi Ghazi Al-Khateeb Other Team Members	Performance of the FHWA's ALF Modified Binder Pavements	Done	Pooled Fund Study-States	08/2004-08/2006

Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	Strain Responses in ALF Modified-Binder Pavement Study	Done	Pooled Fund Study-States	12/2002-09/2004
Jack Youtcheff Kevin Stuart Ghazi Al-Khateeb Aroon Shenoy	Understanding the Performance of Polymer Modified Binders	Done	Pooled Fund Study-States	12/2002-09/2004
Xicheng Qi Ghazi Al-Khateeb Terry Mitchell Kevin Stuart Other Team Members	Construction of the Accelerated Loading Facility (ALF) Pooled Fund Study Pavements	Done	Pooled Fund Study-States	06/2002-06/2003
Zhiwang Zhang Ghazi Al-Khateeb Thomas Harman Kevin Stuart	Evaluation of Bulk Specific Gravity of Fine Aggregate Using AASHTO T84, SSDetect and CoreLok Methods	Done	Pooled Fund Study-States	10/2002-05/2003
Ghazi Al-Khateeb Kevin Stuart Other Team Members	Quality Control/Quality Assurance (QC/QA) of Asphalt Mixtures Used in the Construction of the Accelerated Loading Facility (ALF) Pooled Fund Study Pavements	Done	Pooled Fund Study-States	06/2002-05/2003
Ghazi Al-Khateeb Kevin Stuart Zhiwang Zhang	Understanding Low-Temperature Behavior of Modified Asphalt Mixtures using the Thermal Stress Restrained Specimen Test (TSRST), the Indirect Tensile Test (IDT), and the Hollow-Cylinder Test (HCT)	Done	Pooled Fund Study-States	02/2002-02/2003
Ghazi Al-Khateeb Kevin Stuart Other Team Members	Mixture Designs of Asphalt Mixtures Used in the Construction of the Accelerated Loading Facility (ALF) Pooled Fund Study Pavements	Done	Pooled Fund Study-States	06/2002-12/2002
Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	Long-Term Pavement Performance (LTPP) Ruggedness Study	Done	LTTP P07-FHWA HRDI-13	10/2000-11/2002
Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	Understanding the Performance of Modified Asphalt Binders in Mixtures	Done	NCHRP 90-07	06/1999-06/2002

Thomas Harman Ghazi Al-Khateeb	Investigation of the Restricted Zone for the Superpave Aggregate Gradations	Done	Pooled Fund Study-States	06/2001-02/2002
Ghazi Al-Khateeb Kevin Stuart Thomas Harman	Evaluation of the Dynamic Angle Validation Kit (AVK) for the Superpave Gyratory Compactor (SGC)	Done	Pooled Fund Study-States	11/2001-01/2002
Ghazi Al-Khateeb Thomas Harman Kevin Stuart	The Effect of Variability of the Top and Bottom Dynamic Internal Angles in the Superpave Gyratory Compactor on Hot-Mix Asphalt Properties	Done	Pooled Fund Study-States	06/2001-01/2002
Ghazi Al-Khateeb Kevin Stuart Charles Paugh Thomas Harman John D'Angelo	Target and Tolerance Study for the Angle of Gyration in the Superpave Gyratory Compactor (SGC)	Done	Pooled Fund Study-States	04/2001-11/2001
Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	Investigation of Modified Asphalt Systems	Done	NCHRP 90-04	06/1999-04/2001
Pavement Materials and Construction Team at TFHRC/FHWA including Ghazi Al-Khateeb	Development of Asphalt Mastics Tests to Predict Performance	Done	NCHRP 90-09	06/1999-04/2001
Ghazi Al-Khateeb Kevin Stuart	Rutting Performance for Environmentally Friendly Asphalt Mixtures Using Frequency Sweep at Constant Height (FSCH) and Repeated Shear at Constant Height (RSCH) Tests	Done	Pooled Fund Study-States	11/2000-03/2001
William Buttlar Ghazi Al-Khateeb	The Forensic Investigation of Thermal Cracking on I-155 Highway Using the Superpave Indirect Tensile Test (IDT) at UIUC	Done	Cooperative IDOT and UIUC Cooperative Research, Highway and Transportation Research Program, Project No. IHR-002, IDOT	01/1998-01/1999
William Buttlar Angela Waldhoff Ghazi Al-Khateeb	Calibration of TCMODEL for the Superpave IDT Using		UIUC and UF Cooperative Research	01/1999-01/2000

	Fundamental Properties at UIUC			
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Research Studies at TFHRC of the FHWA:

PI Name Co-PI Names	Project Title	Status	Type and Sponsor	Dates
Ghazi Al-Khateeb Thomas Harman	The Effect of Paper Sheet Thickness on the Compaction Effort in the Superpave Gyratory Compactor	Done	Pooled Fund Study-States	06/2004-09/2004
Ghazi Al-Khateeb Imad Basheer	Evaluation of Hamburg WTD and Modeling	Done	Pooled Fund Study-States	03/2005-09/2006
Nelson Gibson Ghazi Al-Khateeb Aroon Shenoy Thomas Harman	Analysis of High Temperature Binder Specification Parameters with Application of Time-Temperature Superposition and Statistical Measures	Done	Pooled Fund Study-States	08/2004-08/2005
Nelson Gibson Ghazi Al-Khateeb Aroon Shenoy Thomas Harman	Warm Mix Study	Done	Pooled Fund Study-States	03/2005-09/2006
Ghazi Al-Khateeb Aroon Shenoy Nelson Gibson Xicheng Qi	Mechanistic Analysis of the ALF Pavements using the Multilayer Elastic Theory (MLET)	Done	Pooled Fund Study-States	01/2006-08/2006
Haleh Azari Ghazi Al-Khateeb Aroon Shenoy Nelson Gibson	Comparison of Measured SPT E* of ALF Mixtures with Predicted E* Using NCHRP 1-37A and Witzak's New Equations	Done	Pooled Fund Study-States	01/2006-08/2006
Ghazi Al-Khateeb Aroon Shenoy Nelson Gibson, Thomas Harman	A New Simplistic Model for Dynamic Modulus Predictions of Asphalt Paving Mixtures	Done	Pooled Fund Study-States	01/2005-08/2005
Ghazi Al-Khateeb Xicheng Qi Aroon Shenoy Kevin Stuart	Assessment of Aging at the FHWA's Pavement Testing Facility	Done	Pooled Fund Study-States	02/2002-08/2004

Terry Mitchell				
Ghazi Al-Khateeb Thomas Harman Kevin Stuart	Evaluation of Troxler CoreReader Equipment for Determining the Bulk Specific Gravity of Asphalt Paving Mixtures	Done	Pooled Fund Study-States	02/2003-10/2003
Ghazi Al-Khateeb Kevin Stuart	ALF 1993 Beam Fatigue Study	Done	Pooled Fund Study-States	08/2002-08/2003
Ghazi Al-Khateeb Aroon Shenoy	A Distinctive Fatigue Failure Criterion	Done	Pooled Fund Study-States	06/2002-08/2003
Thomas Harman, Ghazi Al-Khateeb, and Kevin Stuart	Evaluation of Mechanical Mixture Simulation in the Measurement of the Dynamic Internal Angle of Gyration	Done	Pooled Fund Study-States	01/2003-08/2003
Ghazi Al-Khateeb Kevin Stuart Thomas Harman Charles Paugh	Sensitivity of Angle of Gyration to Mix Stiffness in the Superpave Gyrotory Compactor	Done	Pooled Fund Study-States	01/2002-08/2002
Ghazi Al-Khateeb Kevin Stuart Thomas Harman	The Effect of Asphalt Mix Position on the Angle of Gyration in the Troxler Gyrotory Compactor	Done	Pooled Fund Study-States	02/2001-06/2001
Ghazi Al-Khateeb Kevin Stuart Thomas Harman	The Effect of Asphalt Mix Height on the Angle of Gyration in the Superpave Gyrotory Compactor (SGC)	Done	Pooled Fund Study-States	01/2001-04/2001

Other Studies at TFHRC of the FHWA:

PI Name Co-PI Names	Project Title	Status	Type and Sponsor	Dates
Ghazi Al-Khateeb Kevin Stuart	Round-Robin Testing AMRL Proficiency Sample Testing	Done	Pooled Fund Study-States	11/2000-09/2006
Ghazi Al-Khateeb Kevin Stuart	Evaluation of Lime Added to Asphalt Mixtures Used for Construction of ALF Pavements	Done	Pooled Fund Study-States	06/2002-06/2004
Ghazi Al-Khateeb Kevin Stuart	Evaluation of Fiber Added to Asphalt Mixtures Used	Done	Pooled Fund	06/2002-06/2004



	for Construction of ALF Pavements		Study-States	
Ghazi Al-Khateeb Kevin Stuart	Rutting Evaluation of Asphalt Mixtures Used in the Construction of Turkey Run Park in McLean, VA, USA	Done	Pooled Fund Study-States	02/2001-06/2001

In addition to many other studies.

Test Equipment:

Through my Ph.D. study, I developed the Hollow-Cylinder Tester (HCT) at the University of Illinois at Urbana-Champaign. The HCT is a surrogate test device for the Superpave Indirect Tensile Tester (IDT) that is used in the Superpave to characterize asphalt-paving mixtures for low-temperature cracking and predict pavement performance at low temperatures. Thus, the HCT is used in the direct tension mode to obtain fundamental mechanical properties of asphalt-paving mixtures at low and intermediate temperatures.

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**Publications:**

Books:

1. Ghazi G. Al-Khateeb, “Solved Practical Problems in Transportation Engineering,” Volume I: “Traffic and Pavement Engineering,” Taylor and Francis Group, CRC Press, ISBN-13: 978-0-367-14983-3, July 2020.
2. Ghazi G. Al-Khateeb, “Solved Practical Problems in Transportation Engineering,” Volume II: “Highway Planning, Survey, and Design,” Taylor and Francis Group, CRC Press, ISBN-13: 978-0-367-14986-4, July 2020.

Chapters in a Book:

3. Ghazi G. Al-Khateeb and Ryada F. Al-Smadi, “PSI Models for Urban Highway Flexible Pavements in Jordan,” Chapter 17, Architecture Anthology I: Architectural Construction, Materials, and Building Technologies, Part 2: Building Materials and Construction, Edited by Jamal M. Khatib, Athens Institute for Education and Research, Athens, Greece, 2015, pp. 205-216.
4. Khalid A. Ghuzlan, Ghazi G. Al-Khateeb, and Yazeed Qasem, “Rheological Properties of Polyethylene-Modified Asphalt Binder,” Chapter 14, Architecture Anthology I: Architectural Construction, Materials, and Building Technologies, Part 2: Building Materials and Construction, Edited by Jamal M. Khatib, Athens Institute for Education and Research, Athens, Greece, 2015, pp. 165-178.
5. Nelson Gibson, Xicheng Qi, Aroon Shenoy, Ghazi Al-Khateeb, M. Emin Kutay, Adrian Andriescu, Kevin Stuart, Jack Youtcheff, and Thomas Harman, “Full-Scale Accelerated Performance Testing for Superpave and Structural Validation: Transportation Pooled Fund Study TPF 5(019) and SPR-2(174) Accelerated Pavement Testing of Crumb Rubber Modified Asphalt

Pavements,” US Department of Transportation, Federal Highway Administration (FHWA), Turner-Fairbank Highway Research Center, Office of Infrastructure Research and Development, McLean, Virginia, USA, *FHWA Publications*, Publication No. FHWA-HRT-11-045, November 2012.

#### Refereed Journal Papers:

1. Ghazi Al-Khateeb, Alaa Sukkari, Waleed Zeiada, Helal Ezzat, “Microscopy-based approach for measuring asphalt film thickness and its impact on hot-mix asphalt performance,” *Case Studies in Construction Materials*, Vol. 18, e01711, July 2023.
2. Khaled Hamad, Lubna Obaid, Salah Haridy, Waleed Zeiada, Ghazi Al-Khateeb, “Factorial design–machine learning approach for predicting incident durations,” *Computer-Aided Civil and Infrastructure Engineering*, Vol. 38, Issue 5, pp. 660-680, March 2023.
3. Khalid A Ghuzlan, Ghazi G Al-Khateeb, Abdulla A Sharo, Malak E Shwaikheh, “Viscoelastic-based finite element rutting predictive models for asphalt pavements,” *Emergent Materials*, Vol. 6, Issue 1, pp. 337-354, February 2023.
4. Rouba Joumblat, Zaher Al Basiouni Al Masri, Ghazi Al-Khateeb, Adel Elkordi, Abdel Rahman El Tallis, Joseph Absi, “State-of-the-Art Review on Permanent Deformation Characterization of Asphalt Concrete Pavements,” *Sustainability*, Vol. 15, Issue 2, pp. 1166, January 2023.
5. Ghazi Al-Khateeb, Khalid Ghuzlan, Mohammed Ismail, Ahmad Shabib, Marwan Naeem, and Yousef Elbaz, “Rheological Properties of Cement-Modified Asphalt Binders,” *Frontiers in Built Environment, Section: Construction Materials*, doi.org/10.3389/fbuil.2022.937199, 2022.
6. K Hamad, L Obaid, S Haridy, W Zeiada, G Al-Khateeb, “Factorial design–machine learning approach for predicting incident durations,” *Computer-Aided Civil and Infrastructure Engineering*, doi.org/10.1111/mice.12883, 2022.
7. W Zeiada, H Liu, H Ezzat, GG Al-Khateeb, BS Underwood, A Shanableh, M Samarai, “Review of the Superpave performance grading system and recent developments in the performance-based test methods for asphalt binder characterization,” *Construction and Building Materials*, Vol. 319, doi.org/10.1016/j.conbuildmat.2021.126063, 2022.
8. W Zeiada, H Liu, G Al-Khateeb, A Shanableh, M Samarai, “Evaluation of test methods for measurement of zero shear viscosity (ZSV) of asphalt binders,” *Construction and Building Materials*, Vol. 325(7), doi.org/10.1016/j.conbuildmat.2022.126794, 2022.
9. N Nassif, W Zeiada, G Al-Khateeb, S Haridy, S Altoubat, “Assessment of Punching Shear Strength of Fiber-reinforced Concrete Flat Slabs Using Factorial Design of Experiments,” *Jordan Journal of Civil Engineering*, Vol. 16 (1), pp. 139-154, 2022.
10. Hanqi Liu, Waleed Zeiada, Ghazi G. Al-Khateeb, Abdallah Shanableh, and Mufid Samarai, “Improved Test Method for Determination of the Equiviscous Temperature of Asphalt Binders,” *International Journal of Pavement Engineering*, Accepted for Publication, In-Press, 2021.
11. Hanqi Liu, Waleed Zeiada, Ghazi G. Al-Khateeb, Helal Ezzet, Abdallah Shanableh, and Mufid Samarai, “Analysis of MSCR test results for asphalt binders with improved accuracy,” *Materials and Structures*, Vol. 54 (2), pp. 1-14, 2021.
12. Sara Alattieh, Ghazi G. Al-Khateeb, Waleed Zeiada, “Evaluation of Low-and Intermediate-Temperature Performance of Bio Oil-Modified Asphalt Binders,” *Sustainability*, Vol. 13 (7), doi.org/10.3390/su13074039, 2021.
13. Khalid A. Ghuzlan, Ghazi G. Al-Khateeb, and Monther A. Khader, The Effect of Extended Aging, Modification, Strain Level and Temperature on the Fatigue Behavior of Asphalt Binders,” *Jordan Journal of Civil Engineering*, Vol. 15 (2), pp. 225-240, 2021.

14. Hanqi Liu, Waleed Zeiada, Ghazi G. Al-Khateeb, Abdallah Shanableh, and Mufid Samarai, "Use of the multiple stress creep recovery (MSCR) test to characterize the rutting potential of asphalt binders: A literature review," *Construction and Building Materials*, [doi.org/10.1016/j.conbuildmat.2020.121320](https://doi.org/10.1016/j.conbuildmat.2020.121320), Vol. 269 (4), 2020.
15. Ghazi G. Al-Khateeb, Waleed Zeiada, Mohammed Ismail, Ahmad Shabib, Adel Tayara, "Mechanistic-empirical evaluation of specific polymer-modified asphalt binders effect on the rheological performance," *Science Progress*, Vol. 103(4), pp. 1–20, 2020.
16. Hanqi Liu, Waleed Zeiada, Ghazi G. Al-Khateeb, Abdallah Shanableh, and Mufid Samarai, "Characterization of the shear-thinning behavior of asphalt binders with consideration of yield stress," *Materials and Structures*, 53 (4), pp. 1-13, 2020.
17. Sara Alattieh, Ghazi G. Al-Khateeb, Waleed Zeiada, and Abdallah Shanableh, "Performance assessment of bio-modified asphalt binder using extracted bio oil from date seeds waste," *International Journal of System Assurance Engineering and Management*, Vol. 7(12), pp. 1266–1270, 2020.
18. Ghazi G. Al-Khateeb and Nagham Y. Khadour, "Distress-Based PSI Models for Asphalt Pavements of Rural Highways," *Jordan Journal of Civil Engineering*, Volume 14, Issue 2, pp. 281-293, 2020.
19. Hanqi Liu, Waleed Zeiada, Ghazi G. Al-Khateeb, Abdallah Shanableh, and Mufid Samarai, "A framework for linear viscoelastic characterization of asphalt mixtures," *Materials and Structures*, Volume 53, Issues 2, pp. 1-15, 2020.
20. Khaled Z. Ramadan, Ghazi G. Al-Khateeb, Madhar M. Taamneh, Mechanical Properties of Styrofoam-Modified Asphalt Binders, *International Journal of Pavement Research and Technology*, Vol. 13, 2020, pp. 205-211.
21. Ghazi G. Al-Khateeb, Syed W. Haider, Mujib Rahman, and Munir Nazzal, "Innovative Materials, New Design Methods, and Advanced Characterization Techniques for Sustainable Asphalt Pavements," *Advances in Materials Science and Engineering*, Volume 2019, Article ID 8241071, [doi.org/10.1155/2019/8241071](https://doi.org/10.1155/2019/8241071), 2019.
22. Ghazi Al-Khateeb, Taisir Khedaywi, and Motaz Irfaeya, "Shear Properties of Waste Glass-Asphalt Mastics," *International Journal of Pavement Research and Technology*, Vol. 12, 2019, pp. 307-314.
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24. Ghazi G. Al-Khateeb, "Conceptualizing the Asphalt Film Thickness to Investigate the Superpave VMA Criteria," *International Journal of Pavement Engineering (IJPE)*, Vol. 19, No. 11, 2018, pp. 957-965.
25. Ghazi Al-Khateeb, Taisir Khedaywi, and Motaz Irfaeya, "Mechanical Behavior of Asphalt Mastics Produced Using Waste Stone Sawdust," *Advances in Materials Science and Engineering*, Volume 2018, [doi.org/10.1155/2018/5362397](https://doi.org/10.1155/2018/5362397), June 2018.
26. Ghazi Al-Khateeb and Omar Alquah, "Effect of Short-Term and Long-Term Aging on Fatigue Performance of Superpave Hot-Mix Asphalt (HMA)," *Jordan Journal of Civil Engineering*, Volume 12, No. 4, 2018, pp. 580-589.
27. Ghazi G. Al-Khateeb, Turki I. Obaidat, Taisir S. Khedaywi, and Mohammad S. Elayan, "Studying Rutting Performance of Superpave Asphalt Mixtures Using Unconfined Dynamic Creep and Simple Performance Tests," *International Journal of Road Materials and Pavement Design*, Volume 19, Issue 2, 2018, pp. 315-333.

28. Ghazi G. Al-Khateeb, Motaz F. Irfaeya, and Taisir S. Khedaywi, "A New Simplified Micromechanical Model for Asphalt Mastic Behavior," *Construction and Building Materials*, Vol. 149, 2017, pp. 587–598.
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30. Ghazi G. Al-Khateeb and Khaled Z. Ramadan, "Investigation of the Effect of Rubber on Rheological Properties of Asphalt Binders using Superpave DSR," *Korean Society of Civil Engineers (KSCE) Journal of Civil Engineering*, Vol. 19, Issue 1, January 2015, pp. 127-135.
31. Ghazi Al-Khateeb and Khalid Ghuzlan, "The Combined Effect of Loading Frequency, Temperature, and Stress Level on the Fatigue Life of Asphalt Paving Mixtures Using the IDT Test Configuration," *International Journal of Fatigue (IJF)*, Vol. 59, February 2014, pp. 254-261.
32. Khalid Ghuzlan, Ghazi Al-Khateeb, and Abdullah Abu Damrah, "Using Oil Shale Ash Waste as a Modifier for Asphalt Binders," *Journal of Material Cycles and Waste Management*, Vol. 15, No. 4, October 2013, pp. 522–529.
33. Khalid Ghuzlan and Ghazi Al-Khateeb, "Selection and Verification of Performance Grading for Asphalt Binders Produced in Jordan," *International Journal of Pavement Engineering (IJPE)*, Vol. 14, No. 2, February 2013, pp. 116-124.
34. Ghazi Al-Khateeb, Taisir Khedaywi, Turki Obaidat, and Ahmad Mirwais Najib, "Laboratory Study for Comparing Rutting Performance of Limestone and Basalt Superpave Asphalt Mixtures," *American Society of Civil Engineers' Journal of Materials in Civil Engineering (JMCE)*, Vol. 25, Issue 1, January 2013, pp. 21-29.
35. Khalid Ghuzlan, Ghazi Al-Khateeb, and Mai Haddad, "Evaluation of 2008 Traffic Safety Policies in Jordan," *Jordan Journal of Civil Engineering (JJCE)*, Vol. 6, No. 1, 2012, pp. 122-133.
36. Taisir Khedaywi, Ghazi Al-Khateeb, and Motaz Irfaeya, "Effect of Medical Ash on Shear Properties of Asphalt Binder Using Superpave Dynamic Shear Rheometer (DSR)," *Journal of Solid Waste Technology and Management (JSWTM)*, Vol. 38, No. 1, February 2012, pp. 19-27.
37. Mohammad Abojaradeh, Michael Mamlouk, Basim Jrew, and Ghazi Al-Khateeb, "Framework for Level-I Alligator Cracking Methodology for Use in the Mechanistic-Empirical (M-E) Pavement Design Guide," *Jordan Journal of Civil Engineering (JJCE)*, Vol. 5, No. 4, 2011, pp. 530-544.
38. Ghazi Al-Khateeb and Aroon Shenoy, "A Simple Quantitative Method for Identification of Failure Due To Fatigue Damage," *International Journal of Damage Mechanics (IJDM)*, Vol. 20, No. 1, January 2011, pp. 3-21.
39. Ghazi G. Al-Khateeb and Nabil M. Al-Akhras, "Properties of Portland Cement-Modified Asphalt Binder Using Superpave Tests," *Construction and Building Materials*, Vol. 25, 2011, pp. 926-932.
40. Ghazi Al-Khateeb, "Analysis of Accident Data and Evaluation of Leading Causes for Traffic Accidents in Jordan," *the Jordan Journal of Civil Engineering (JJCE)*, Vol. 4, No. 2, Rabia' II 1431, April 2010, pp. 76-94.
41. Ghazi Al-Khateeb and Imad Basheer, "A Three-Stage Rutting Model Utilizing Rutting Performance Data from the Hamburg Wheel-Tracking Device (WTD)," *Road and Transport Research Journal (RTRJ)*, Vol. 18, No. 3, 2009, pp. 32-45.
42. Ghazi Al-Khateeb, Kevin Stuart, Walaa Mogawer, and Nelson Gibson, "Fatigue Performance: Asphalt Binders versus Mixtures versus Full-Scale Pavements," *Canadian Journal of*

*Transportation (CJT)*, Vol. 2, Part 1, 2008, pp. 13-33,  
<http://journals.hil.unb.ca/index.php/CJT/article/view/5927/>.

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45. Haleh Azari, Ghazi Al-Khateeb, Aroon Shenoy, and Nelson Gibson, "Comparison of Simple Performance Test  $|E^*|$  of Accelerated Loading Facility Mixtures with Prediction  $|E^*|$ : Use of NCHRP 1-37A and Witczak's New Equations," *Journal of the Transportation Research Board (TRB)*, Transportation Research Record No. 1998, National Research Council, Washington, D.C., 2007, pp. 1-9.
46. Ghazi Al-Khateeb, Aroon Shenoy, Nelson Gibson, and Thomas Harman, "A New Simplistic Model for Dynamic Modulus Predictions of Asphalt Paving Mixtures," *the Association of Asphalt Paving Technologists (AAPT) Journal*, Vol. 75E, 2006.
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49. Ghazi Al-Khateeb and Aroon Shenoy, "A Distinctive Fatigue Failure Criterion," *the Association of Asphalt Paving Technologists (AAPT) Journal*, Vol. 73, 2004, pp. 585-622.
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1. Mohammed W. Alani, Khalid A. Ghuzlan, Ghazi G. Al-Khateeb, Waleed Zeiada, Helal Ezzat, Alaa Sukkari, "Performance of Bio-Oil Modified Asphalt Binders Containing Warm-mix Additives," *Advances in Science and Engineering Technology International Conferences (ASET)*, Dubai, UAE, [10.1109/ASET56582.2023.10180817](https://doi.org/10.1109/ASET56582.2023.10180817), 2023.
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3. K Alraini, H Ezzat, W Zeiada, G Al-Khateeb, "Investigating the Effect of Polyethylene Terephthalate Recycled from Waste Plastics bottles on Asphalt Binder Under UAE's Climate Conditions," *Advances in Science and Engineering Technology (ASET) International Conference*, [10.1109/ASET53988.2022.9734955](https://doi.org/10.1109/ASET53988.2022.9734955), IEEE Publisher, 2022.
4. A Sukkari, G Al-Khateeb, W Zeiada, H Ezzat, "Investigating the Physical and Rheological Properties of Date Seed Ash-Modified Asphalt Binders in the UAE," *Advances in Science and Engineering Technology (ASET) International Conference*, [10.1109/ASET53988.2022.9735121](https://doi.org/10.1109/ASET53988.2022.9735121), IEEE Publisher, 2022.
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10. Muamer Abuzwidah, Mohsin Balwan, Mohamed Abdel-Aty, and Ghazi Al-Khateeb, "Traffic Safety Benefits of Using Highway Lighting Technology:(Case Study: 4-Lanes Expressways in the Rural Areas)," *Proceedings of the 6th International Conference on Advanced Engineering and Technology (ICAET 2019)*, Incheon National University, Incheon, South Korea, May 2020.

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16. Ghuzlan, K.A., Al-Khateeb, G.G. and Qasem, Y., "Rheological Properties of Polyethylene-Modified Asphalt Binder," *Proceedings of the 3<sup>rd</sup> Annual International Conference on Civil Engineering*, ATINER'S Conference Paper Series, No. CIV2013-0581, Athens Institute for Education and Research, Athens, Greece, June 10-13, 2013.
17. Ghazi Al-Khateeb and Taisir Khedaywi, "Comparison of Traffic Accidents between Jordan and Other World Countries," *Proceedings of the 6<sup>th</sup> International Safety Conference*, Amman, Jordan, November 19-20, 2012.
18. Ghazi Al-Khateeb, Khalid Ghuzlan, and Mohammad Al-Barqawi, "Effect of Superpave Restricted Zone on Volumetric and Compaction Properties of Asphalt Mixtures," *Proceedings of the 5<sup>th</sup> Jordanian International Civil Engineering Conference (JICEC)*, Jordan Engineers Association (JEA), Amman, Jordan, January 17-19, 2012.
19. Hadeel Maiah and Ghazi Al-Khateeb, "Effect of Basalt and Limestone Aggregate Combinations on Superpave Aggregate Properties," *Proceedings of the 5<sup>th</sup> Jordanian International Civil Engineering Conference (JICEC)*, Jordan Engineers Association (JEA), Amman, Jordan, January 17-19, 2012.
20. Ghazi Al-Khateeb, Turki Obaidat, and Taisir Khedaywi, "Evaluation of Construction Limestone Aggregate Sourced in the Northern Part of Jordan Using Superpave Tests," *Proceedings of the 6<sup>th</sup> International Structural Engineering and Construction (ISEC) Conference*, Modern Methods and Advances in Structural Engineering and Construction, Zurich, Switzerland, June 21-26, 2011, pp. 1207-1212.
21. Ghazi Al-Khateeb, Taisir Khedaywi, and Turki Obaidat, "Volumetric Analysis-Based Comparison between Superpave and Marshall Mixture Design Procedures," *Roads Evaluation and Maintenance (REM) Workshop*, Amman, Jordan, April 12<sup>th</sup> of 2010.
22. Ghazi Al-Khateeb, "Evaluation of the Effect of Heavy Vehicular Axle Loads on the Functional Behavior, Ride Quality, and Hence Safety of Highway Pavements in Jordan," *Proceedings of the 4<sup>th</sup> Conference on Scientific Research in Jordan (CSRJ)*, Amman, Jordan, November 7, 2009.
23. Ghazi G. Al-Khateeb, Raghu Satyanarayana, and Katherine Petros, "Sensitivity Analysis of the VESYS Program to Predict Critical Pavement Responses for Rutting and Fatigue Performances

- of Pavement Infrastructures,” *Proceedings of the 10<sup>th</sup> International Conference on Application of Advanced Technologies in Transportation (AATT)*, Athens, Greece, May 27-31, 2008.
24. Ghazi Al-Khateeb, Mohammed Obaidat, and Taisir Khedaywi, “Road Safety Strategies Through Excellence in Services, Awareness, and Law Enforcement in Jordan.” *Proceedings of the 5<sup>th</sup> International Safety Conference on “Road and Traffic Safety Strategies”*, Amman, Jordan, April 22-24, 2008, pp. 2-1 to 2-15.
  25. Mohammed Obaidat, Ghazi Al-Khateeb, and Taisir Khedaywi, “Evaluation of Drivers’ Behavioral Mistakes in Jordan.” *Proceedings of the 5<sup>th</sup> International Safety Conference on “Road and Traffic Safety Strategies”*, Amman, Jordan, April 22-24, 2008, pp. 6-1 to 6-10.
  26. Taisir Khedaywi, Mohammed Obaidat, Ghazi Al-Khateeb, and Thanaa’ Ramadan, “Pedestrian Accidents in Jordan: Causes and Solutions.” *Proceedings of the 5<sup>th</sup> International Safety Conference on “Road and Traffic Safety Strategies”*, Amman, Jordan, April 22-24, 2008, pp. 10-1 to 10-15.
  27. Jack Youtcheff, Nelson Gibson, Aroon Shenoy, and Ghazi Al-Khateeb, “Evaluation of Epoxy Asphalt and Epoxy Asphalt Mixtures,” *Proceedings of the 51<sup>st</sup> Annual Conference of the Canadian Technical Asphalt Association (CTAA)*, Polyscience Publications, Charlottetown Prince Edward Island, Canada, Issue 51, November 2006, pp. 351-368.
  28. Xicheng Qi, Aroon Shenoy, Ghazi Al-Khateeb, Terry Arnold, Nelson Gibson, Jack Youtcheff, and Tom Harman, “Laboratory Characterization and full-Scale Accelerated Performance Testing of Crumb Rubber Asphalts and Other Modified Asphalt Systems,” *Proceedings of the Asphalt Rubber Conference (ARC)*, San Diego, California, USA, October 2006.
  29. Xicheng Qi, Ghazi Al-Khateeb, Aroon Shenoy, Terry Mitchell, Nelson Gibson, Jack Youtcheff, and Tom Harman, “Performance of the FHWA’s ALF Modified-Binder Pavements,” *Proceedings of the 10<sup>th</sup> International Conference on Asphalt Pavements (ICAP)*, International Society for Asphalt Pavements (ISAP), Quebec, Canada, August 12-17, 2006.
  30. Xicheng Qi, Terry Mitchell, Kevin Stuart, Jack Youtcheff, Katherine Petros, Thomas Harman, and Ghazi Al-Khateeb, “Strain Responses in ALF Modified-Binder Pavement Study,” *Proceedings of the 2<sup>nd</sup> International Conference on Accelerated Pavement Testing (ICAPT)*, Minneapolis, MN, USA, September 26-29, 2004, <http://trid.trb.org/view/1157021>.
  31. Terry Mitchell, Kevin Stuart, Xicheng Qi, Ghazi Al-Khateeb, Jack Youtcheff, and Thomas Harman, “ALF Testing for Development of Improved Superpave Binder Specification,” *Proceedings of the 2<sup>nd</sup> International Conference on Accelerated Pavement Testing (ICAPT)*, Minneapolis, MN, USA, September 26-29, 2004, <http://trid.trb.org/view/1157016>.
  32. J. Youtcheff, K. Stuart, G. Al-Khateeb and A. Shenoy, “Understanding the Performance of Polymer-Modified Binders,” *Proceedings of the 3rd Eurasphalt & Eurobitume Congress*, Papers Technical Sessions 5-8, Vol. 2, Vienna, Austria, May 12-14, 2004, pp. BookII-2268-2278.
  33. Xicheng Qi, Ghazi Al-Khateeb, Terry Mitchell, Kevin Stuart, and Leslie Myers. “Construction of Modified Binder Accelerated Test Lanes-FHWA Accelerated Loading Facility: Determining Modified Asphalt Binder Properties for Superpave Specification,” *Texas A&M University Pooled Fund Research Website*, 2004.
  34. William G. Buttlar and Ghazi G. Al-Khateeb, “Evaluating Creep Compliance of Asphaltic Paving Mixtures Using a Hollow-Cylinder Tensile Tester,” *Proceedings of the 3rd International RILEM Symposium on Performance Testing and Evaluation of Bituminous Materials (PTEBM)*, Zurich, Switzerland, April 14-16, 2003.
  35. Ghazi G. Al-Khateeb and William G. Buttlar, “Evaluating Tensile Strength of Asphaltic Paving Mixtures Using a Hollow-Cylinder Tensile Tester,” *Proceedings of the 9<sup>th</sup> International Conference on Asphalt Pavements (ICAP)*, MIX DESIGN 1: 7-8, International Society for Asphalt Pavements (ISAP), Copenhagen, Denmark, August 2002.



36. Ghazi G. Al-Khateeb and William G. Buttlar, "Hollow-Cylinder Tensile Tester for Asphaltic Paving Mixtures," *Proceedings of the Mid-Continent Transportation Symposium*, Iowa State University, Ames, Iowa, USA, May 15-16, 2000, pp. 14-19.
37. T. I. Al-Suleiman, G. G. Al-Khateeb, A. Z. Rabi, and A. R. Awad, "Effect of Traffic Volume on Air Pollution in Urban Areas: Case Study in Jordan," *Proceedings of the 2<sup>nd</sup> International Conference on Air Pollution*, Computational Mechanics Publications, Air Pollution II, Volume 1: Computer Simulation, pp. 367-375, Barcelona, Spain, September 1994.

#### Other Publications:

1. G. G. Al-Khateeb, *Development of a Hollow-Cylinder Tensile Tester to Obtain Fundamental Mechanical Properties of Asphalt Paving Mixtures*, Ph.D. Dissertation, University of Illinois at Urbana-Champaign, Urbana, IL, USA, January 2001.
2. G. G. Al-Khateeb, *Effect of Traffic Movement and Volume on Air Pollution in Irbid City*, M.Sc. Dissertation, Jordan University of Science and Technology, Irbid, Jordan, January 1994.

#### Technical Reports and Proposals:

1. Nelson Gibson, Ghazi Al-Khateeb, Aroon Shenoy, and Thomas Harman, "Analysis of High Temperature Binder Specification Parameters with Application of Time-Temperature Superposition and Statistical Measures," FHWA, TFHRC, McLean, VA, USA, August 2005.
2. Ghazi Al-Khateeb and Thomas Harman, "The Effect of Paper Sheet Thickness on the Compaction Effort in the Superpave Gyrotory Compactor," FHWA, TFHRC, McLean, VA, USA, September 2004.
3. Kevin Stuart, Ghazi Al-Khateeb, and Walaa Mogawer, "A Comparison Study: Pavement Fatigue Cracking Provided by the FHWA's Accelerated Loading Facility vs. the Bending Beam Fatigue Test," FHWA, TFHRC, McLean, VA, USA, January 2004.
4. Xicheng Qi, Ghazi Al-Khateeb, Terry Mitchell, Kevin Stuart, and Jack Youtcheff, "Construction of the Accelerated Loading Facility (ALF) Pooled-Fund Study Pavements," Intermediate Report, FHWA, TFHRC, McLean, VA, USA, January 2004.
5. Ghazi Al-Khateeb, Kevin Stuart, and Thomas Harman "Evaluation of Troxler CoreReader Equipment for Determining the Bulk Specific Gravity of Asphalt Paving Mixtures," FHWA, TFHRC, McLean, VA, USA, September 2003.
6. Xicheng Qi, Ghazi Al-Khateeb, Terry Mitchell, Kevin Stuart, and Leslie Myers, "Construction of the Accelerated Loading Facility (ALF) Pooled-Fund Study Pavements," Short Report, FHWA, TFHRC, McLean, VA, USA, September 2003.
7. Xicheng Qi, Ghazi Al-Khateeb, Terry Mitchell, and Kevin Stuart, "Construction of the Accelerated Loading Facility (ALF) Pooled-Fund Study Pavements," Big Report, FHWA, TFHRC, McLean, VA, USA, June 2003.
8. Ghazi Al-Khateeb and Kevin Stuart, "Quality Control/Quality Assurance (QC/QA) of Asphalt Mixtures Used in the Construction of the Accelerated Loading Facility (ALF) Pooled Fund Study Pavements," FHWA, TFHRC, McLean, VA, USA, May 2003.
9. Ghazi Al-Khateeb and Kevin Stuart, "Mixture Designs of Asphalt Mixtures Used in the Construction of the Accelerated Loading Facility (ALF) Pooled Fund Study Pavements," FHWA, TFHRC, McLean, VA, USA, December 2002.

10. Ghazi Al-Khateeb, "Evaluation of the Energy-Based Fatigue Failure Criteria of Asphalt Mixtures," FHWA, TFHRC, McLean, VA, USA, December 2002.
11. Ghazi Al-Khateeb and Kevin Stuart, "Literature Review of the Energy-Based Fatigue Failure Criteria of Asphalt Mixtures," FHWA, TFHRC, McLean, VA, USA, October 2002.
12. Ghazi Al-Khateeb, Kevin Stuart, Thomas Harman, and Charles Paugh, "Sensitivity of Angle of Gyration to Mix Stiffness in the Superpave Gyrotory Compactor," FHWA, TFHRC, McLean, VA, USA, August 2002.
13. Thomas Harman and Ghazi Al-Khateeb, "Investigation of the Restricted Zone for the Superpave Aggregate Gradations," FHWA, TFHRC, McLean, VA, USA, February 2002.
14. Ghazi Al-Khateeb and Kevin Stuart, "Fatigue Behavior of Complex Asphalt Mixtures," FHWA, TFHRC, McLean, VA, USA, January 2002.
15. Ghazi Al-Khateeb, Kevin Stuart, and Thomas Harman, "Evaluation of the Dynamic Angle Validation Kit (AVK) for the Superpave Gyrotory Compactor (SGC)," FHWA, TFHRC, McLean, VA, USA, January 2002.
16. Ghazi Al-Khateeb, Thomas Harman, and Kevin Stuart, "The Effect of Variability of the Top and Bottom Dynamic Internal Angles in the Superpave Gyrotory Compactor on Hot-Mix Asphalt Properties," FHWA, TFHRC, McLean, VA, USA, January 2002.
17. Ghazi Al-Khateeb, Kevin Stuart, Charles Paugh, Thomas Harman, and John D'Angelo, "Target and Tolerance Study for the Angle of Gyration in the Superpave Gyrotory Compactor (SGC)," FHWA, TFHRC, McLean, VA, USA, August 2001.
18. Ghazi Al-Khateeb, Kevin Stuart, and Thomas Harman, "The Effect of Asphalt Mix Position on the Angle of Gyration in the Troxler Gyrotory Compactor," FHWA, TFHRC, McLean, VA, USA, June 2001.
19. Ghazi Al-Khateeb, Kevin Stuart, and Thomas Harman, "The Effect of Asphalt Mix Height on the Angle of Gyration in the Superpave Gyrotory Compactor (SGC)," FHWA, TFHRC, McLean, VA, USA, April 2001.
20. Ghazi Al-Khateeb and Kevin Stuart, "Rutting Performance for Environmentally Friendly Asphalt Mixtures Using Frequency Sweep at Constant Height (FSCH) and Repeated Shear at Constant Height (RSCH) Tests," FHWA, TFHRC, McLean, VA, USA, March 2001.
21. Ghazi Al-Khateeb, "Hollow Cylinder Tensile Test as a Rugged Portable Test to Obtain Fundamental Tensile Properties of Asphalt Paving Mixtures," Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, USA, 2001.
22. A proposal on "A Hollow-Cylinder Tensile Tester to Obtain Fundamental Mechanical Properties for Asphalt Paving Mixtures," Submitted to the NCHRP-IDEA Program, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, USA, 1999.
23. Ghazi Al-Khateeb Ph.D. Preliminary Exam Proposal Titled "Development of a Hollow-Cylinder Tensile Tester for Asphalt Paving Mixtures," University of Illinois at Urbana-Champaign, Urbana, IL, USA, June 1999.
24. William Buttlar and Ghazi Al-Khateeb, "Investigation of Thermal Cracking on Highway I-155," Illinois Cooperative Highway Research Program, Project IHR-002. Submitted to the Illinois Department of Transportation (IDOT), Springfield, IL, USA, September 1998.
25. A proposal on "Development of a New Hollow-Cylinder Tensile Tester for Asphalt Paving Mixtures," Submitted to the University of Illinois Research Board, University of Illinois at Urbana-Champaign, Urbana, IL, USA, 1997.

### Invited Presentations:

1. Ghazi Al-Khateeb, "History of Superpave System," Seminar on "Development of Asphalt Mix Design Specifications for Future Superior Performing Roadways in UAE," Sharjah Research Academy (SRA), Sharjah, UAE, June 07, 2018.
2. Ghazi Al-Khateeb, "Fatigue Failure Criterion for Hot-Mix Asphalt (HMA)," Presented at the University of Sharjah, Sharjah, UAE, March 16, 2016.
3. Ghazi Al-Khateeb, "Innovations in Civil Engineering," Presented at the University of Sharjah on the *UAE Innovation Week* (November 22-28, 2015), Sharjah, UAE, November 25<sup>th</sup>, 2015.
4. Ghazi Al-Khateeb, "Superpave System," Presented at Philadelphia Private University, Amman, Jordan, December 2013.
5. Ghazi Al-Khateeb, "Strategies for Traffic Jams in Irbid City" for traffic-concerned parties and engineers at Irbid Governorate, Irbid, Jordan, July 22, 2009.
6. Ghazi Al-Khateeb, "Leading Causes and Road Safety Strategies for Traffic Accidents in Jordan," Presented at *Jordan Engineers Association (JEA) in the Traffic Safety Day*, Irbid, Jordan, June 10<sup>th</sup>, 2008.

### Professional Presentations:

1. Ghazi Al-Khateeb, "History of Superpave System," Seminar on "Development of Asphalt Mix Design Specifications for Future Superior Performing Roadways in UAE," Sharjah Research Academy (SRA), Sharjah, UAE, June 07, 2018.
2. Ghazi Al-Khateeb, Seminar on "Fatigue Failure Criterion for Hot-Mix Asphalt (HMA)," Department of Civil and Environmental Engineering, University of Sharjah, Sharjah, UAE, March 16, 2016.
3. Ghazi Al-Khateeb, Lecture on "Innovations in Civil Engineering," UAE Innovation Week (November 22-28, 2015), University of Sharjah, Sharjah, UAE, November 25, 2015.
4. Ghazi Al-Khateeb and Riyada Al-Smadi, "PSI Models for Urban Highway Flexible Pavements in Jordan," Presented at *the 3<sup>rd</sup> Annual International Conference on Civil Engineering*, Athens Institute for Education and Research, Athens, Greece, June 10-13, 2013.
5. Ghazi Al-Khateeb and Taisir Khedaywi, "Comparison of Traffic Accidents between Jordan and Other World Countries" Presented at *the 6<sup>th</sup> International Safety Conference*, Amman, Jordan, November 19-20, 2012.
6. Ghazi Al-Khateeb, Khalid Ghuzlan, and Mohammad Al-Barqawi, "Effect of Superpave Restricted Zone on Volumetric and Compaction Properties of Asphalt Mixtures," Presented at *the 5<sup>th</sup> Jordanian International Civil Engineering Conference (JICEC)*, Jordan Engineers Association (JEA), Amman, Jordan, January 17-19, 2012.
7. Ghazi Al-Khateeb, Turki Obaidat, and Taisir Khedaywi, "Evaluation of Construction Limestone Aggregate Sourced in the Northern Part of Jordan Using Superpave Tests," Presented at *the 6<sup>th</sup> International Structural Engineering and Construction (ISEC) Conference*, Zurich, Switzerland, June 21-26, 2011.
8. Ghazi Al-Khateeb, Taisir Khedaywi, and Turki Obaidat, "Volumetric Analysis-Based Comparison between Superpave and Marshall Mixture Design Procedures," Presented at *Roads Evaluation and Maintenance (REM) Workshop*, Amman, Jordan, April 12<sup>th</sup> of 2010.
9. Ghazi Al-Khateeb, "Evaluation of the Effect of Heavy Vehicular Axle Loads on the Functional Behavior, Ride Quality, and Hence Safety of Highway Pavements in Jordan," Presented at *the 4<sup>th</sup> Conference on Scientific Research in Jordan (CSRJ)*, Amman, Jordan, November 7, 2009.

10. Ghazi Al-Khateeb, "Leading Causes and Road Safety Strategies for Traffic Accidents in Jordan," Presented at *Jordan Engineers Association (JEA) in the Traffic Safety Day*, Irbid, Jordan, June 10<sup>th</sup>, 2008.
11. Ghazi Al-Khateeb, "Road Safety Strategies Through Excellence in Services, Awareness, and Law Enforcement in Jordan," Presented at *the 5<sup>th</sup> International Safety Conference on "Road and Traffic Safety Strategies"*, Amman, Jordan, April 22-24, 2008.
12. Ghazi Al-Khateeb, "Mechanistic Analyses of ALF Pavements Using Multilayer Elastic Theory (MLET)," Presented at *the Technical Work Group Meeting* for the Pooled Fund Study Participants, FHWA, TFHRC, McLean, VA, USA, February 2006.
13. Ghazi Al-Khateeb, "Rutting Performance of the ALF Pavements at the FHWA's TFHRC," Presented at *the Technical Work Group Meeting* for the Pooled Fund Study Participants, FHWA, TFHRC, McLean, VA, USA, June 28-29, 2005.
14. Ghazi Al-Khateeb, "Fatigue Performance of the ALF Pavements at the FHWA's TFHRC," Presented at *the Technical Work Group Meeting* for the Pooled Fund Study Participants, FHWA, TFHRC, McLean, VA, USA, June 28-29, 2005.
15. Ghazi Al-Khateeb, "Assessment of Aging at the FHWA's Pavement Testing Facility," Presented in *the Transportation Research Board (TRB) Annual Meeting*, Washington, D.C., USA, January 2005.
16. Ghazi Al-Khateeb, "A Distinctive Fatigue Failure Criterion," Presented at *the Association of Asphalt Paving Technologists (AAPT) Annual Meeting*, Baton Rouge, Louisiana, USA, March 8-10, 2004.
17. Ghazi Al-Khateeb, "High-Temperature Performance Testing," Presented at *the Technical Work Group Meeting* for the Pooled Fund Study Participants, FHWA, TFHRC, McLean, VA, USA, February 3-4, 2004.
18. Ghazi Al-Khateeb, "Construction of the Accelerated Loading Facility (ALF) Pooled-Fund Study Pavements," Presented at *the Technical Work Group Meeting* for the Pooled Fund Study Participants, FHWA, TFHRC, McLean, VA, USA, February 3-4, 2004.
19. Ghazi Al-Khateeb, "Development of a Hollow-Cylinder Tensile Tester to Obtain Fundamental Mechanical Properties of Asphalt Paving Mixtures," Ph.D. Dissertation, Presented at *the University of Illinois at Urbana-Champaign*, Urbana, IL, USA, November 10, 2001.
20. Ghazi Al-Khateeb, "Hollow-Cylinder Tensile Tester for Asphalt Paving Mixtures," Presented in *the Mid-Continent Transportation Symposium*, Ames, Iowa, USA, May 15-16, 2000.
21. Ghazi Al-Khateeb, "Development of a Hollow-Cylinder Tensile Tester to Obtain Fundamental Mechanical Properties of Asphalt Paving Mixtures," Ph.D. Preliminary Exam Proposal, Presented at *the University of Illinois at Urbana-Champaign*, Urbana, IL, USA, June 1999.
22. Ghazi Al-Khateeb, "Hollow-Cylinder Tensile Tester," Presented in *the North Central Regional Research Meeting*, University of Wisconsin, Madison, WI, USA, September 1997.
23. Ghazi G. Al-Khateeb, "Effect of Traffic Movement and Volume on Air Pollution in Irbid City," M.S. Dissertation, Presented at *Jordan University of Science and Technology*, Irbid, Jordan, December 27<sup>th</sup>, 1993.

## Graduate Students:

### Jordan University of Science and Technology

#### *M.Sc. Thesis Supervisor*

1. Mohammad Elayan, "Comparison Between Dynamic Creep and Simple Performance Tests for Rutting Performance of Superpave Asphalt Mixtures," 2012.
2. Khalid Al-Balas, "Performance-Based Comparison Between SUPERPAVE and MARSHALL Asphalt Mixtures Using Limestone Aggregates in Jordan," May 2011.
3. Ahmad Mirwais Najib, "Performance-Based Comparison Between Basalt Asphalt Mixtures and Limestone Asphalt Mixtures," July 2010.
4. Tariq Al-Baher, "Investigation of the Effect of Test Variables on Permanent Deformation of Superpave Asphalt Paving Mixtures in Jordan," December 2009.
5. Omer Al-Qudah, "Effect of Short-Term and Long-Term Aging on Fatigue Performance of Superpave Hot-Mix Asphalt (HMA) in Jordan," September 22, 2009.
6. Motaz Irfaeya, "Utilizing Superpave Dynamic Shear Rheometer (DSR) to Investigate Asphalt Mastics Behavior Through Micromechanics in Jordan," July 22, 2009.

#### *M.Sc. Thesis Co-Supervisor*

1. Tareq Al-Saleh, "The Development of Travel Time and Delay Contour Map for the City of Irbid," 2016.
2. Malak Shuwaikheh, "Rutting Prediction of Flexible Pavements Using Finite Element Models," 2016.
3. Monther A. Khader, "Fatigue Behavior of Aged Asphalt Binder," Summer 2015.
4. Mai Haddad, "Studying of Vehicle-Pedestrian Crashes in Irbid City," November 2011.

### University of Sharjah

#### *Ph.D. Thesis Proposal Defense (Co-Supervisor)*

1. Ali Alnaqbi, Development of Regional and Global Dynamic Modulus  $|E^*|$  Predictive Models Using Artificial Intelligence, May 10, 2023.

#### *M.Sc. Thesis Supervisor*

2. Khalil Almbaidheen, Development of Optimal Aggregate Gradations to Enhance Rutting Performance of Asphalt Mixtures for UAE Roadways, 2020.
3. Sara A. Alattieh, Evaluating the Performance of Date Seeds-Bio Oil-Modified Asphalt Binders, May 17, 2020.
4. Alaa Sukkari, Measuring Asphalt Film Thickness in Asphalt Mixtures Using Microscopy to Further Enhance the Performance of UAE Roadways, November 29, 2021

#### *M.Sc. Thesis Co-Supervisor*

1. Kusi Mohamed Al Naser, Influence of Laboratory Mixing Conditions on the Rheological Properties of Asphalt Binder with Iron Oxide Nanoparticle, December 15, 2022.

2. Ali Juma Alnaqbi, Performance Assessment of Polymer Modified Asphalt Binders against Rutting and Fatigue to Meet Local Conditions in the UAE, February 14, 2021.
3. Mohammed Ismail, Investigating the Rheological Properties of Rubber-Modified Asphalt Binders to Meet Climate and Traffic Conditions in the UAE, December 07, 2021.
4. Mohammed Wajeeh Al-Ani, Assessment of Thermal Cracking for Asphalt Binders in the UAE Using Dynamic Shear Rheometer, December 14, 2020.
5. Myasar Abulkhair, Evaluation of Asphalt Mixtures with Steel Slag Aggregates Using Advanced Characterization Tests, 2019.

*M.Sc. Committee Member*

1. Rawan Zannerni, "Experimental Modeling of Methane Production from Bio-electrochemical Anaerobic Digestion based on Substrate Organic Composition," University of Sharjah, Sharjah, UAE, May 08, 2023.
2. Yahya El Traboulsi, The Impact of COVID-19 on UAE's Mobility: Short- and Long-Term Assessment", University of Sharjah, Sharjah, UAE, May 04, 2023.
3. Mohammed Alfarra, The In-situ Dynamic Modulus of Asphalt Layers, Qatar University, Qatar, January 12, 2023.
4. Zakiya Begum, Experimental Investigation of Magnetic Induction in Anaerobic Digestion, University of Sharjah, Sharjah, UAE, October 25, 2022.
5. Ahmed Alyasi, Modeling Sharjah's Travel Mode Choice Using Machine Learning, University of Sharjah, Sharjah, UAE, June 23, 2022
6. Yousef Elbaz, Stabilization of Sabkha Soils Using Alkali Activated Binders, University of Sharjah, Sharjah, UAE, May 17, 2022.
7. Ahmed Elawady, Assessment of Traffic Safety and Operation of Connected and Autonomous Vehicles During Adverse Weather Conditions, University of Sharjah, Sharjah, UAE, May 11, 2022.
8. Sham Mirou, Impact of Potential Climate Change on Simulated Pavement Performance in the UAE, University of Sharjah, Sharjah, UAE, April 27, 2022.
9. Nafisa Kaisari, Assessment of Adverse Weather Impacts on Traffic Safety in The United Arab Emirates, University of Sharjah, Sharjah, UAE, December 12, 2021.
10. Reem Nasef, Impact of Potential Climate Change on Asphalt Binder Performance Grade for Roads Construction in the UAE, University of Sharjah, Sharjah, UAE, December 08, 2021.
11. Abdallah Almarzooqi, Evaluation of Recycled Demolition Concrete Aggregates as Base and Sub-base Material for Pavement Construction in UAE, University of Sharjah, Sharjah, UAE, December 06, 2021.
12. Omar Mostafa, 3D Finite Element Modeling of Suction Caissons used as Foundations for Offshore Wind Turbines in Clayey Soils, University of Sharjah, Sharjah, UAE, December 06, 2021.
13. Fahmieh Lotfi, Developing an Artificial Neural Network ModeChoice Model for Sharjah University City, United Arab Emirates, University of Sharjah, Sharjah, UAE, May 20, 2021
14. Ala G. Ibrahim, "Characterization of Truck Traffic towards Implementation of Mechanistic-Empirical Pavement Design Guide in Northern Emirates of the UAE," University of Sharjah, Sharjah, UAE, May 14, 2020.
15. Lubna Ghassan Obaid "Forecasting Travel Demand at Sharjah University City, United Arab Emirates", University of Sharjah, Sharjah, UAE, December 18, 2019.
16. Haider Safaa Hashim, "Soil Improvement Using Enzyme Induced Carbonate Precipitation (EICP) for Pavement Applications," University of Sharjah, Sharjah, UAE, December 16, 2019.

17. Abdulsalam Birawi, "Analysis and Prediction of Traffic Fatalities in the UAE," University of Sharjah, Sharjah, UAE, University of Sharjah, Sharjah, UAE, May 21, 2019.
18. Abdul Razak Alozi, "Quantifying the Impacts of Connected and Autonomous Vehicles on Traffic Operation and Greenhouse Gas Emissions Using Micro Simulation," University of Sharjah, Sharjah, UAE, May 16, 2019.
19. Abdulmalek Abttan, "Development of Climate Data Inputs Towards the Implementation of Mechanistic-Empirical Pavement Design in Sharjah," University of Sharjah, Sharjah, UAE, December 2018.
20. Mohammad Trabulsi, "Developing a Framework for Evaluating Accessibility Density and Coverage (for Mega-Scale Projects Development)," Master of Urban Planning, College of Architecture, Art, and Design, American University of Sharjah, Sharjah, UAE, June 2015.
21. Muhammad Salah, "Effect of Glass Concentration on Properties of Glasphalt," University of Jordan, 2009.
22. Abdullah Al-Adhami, "Development of Pavement Quality Index (PQI) for the Primary Road Network in Jordan," Jordan University of Science and Technology, Irbid, Jordan, August 2014.
23. Raed Rehaibeh, "Evaluation of Bond Strength between Old and New Overlay Pavements," Jordan University of Science and Technology, Irbid, Jordan, August 2010.
24. Abbas T. J. Al-Hyazai, "Jordanian Automobile Drivers' Traffic Safety Culture," Community Health Nursing, Jordan University of Science and Technology, Irbid, Jordan, May 2009.
25. Ekhlas Q. Alzoubi, "Estimation of Emergency Rescue Time for Road Accident Casualties in Northern Part of Jordan," Jordan University of Science and Technology, Irbid, Jordan, August 2007.
26. Mohannad W. Ahmed "Evaluating Marshall and Superpave VMA Requirements by Using the Rational Surface Area," Jordan University of Science and Technology, Irbid, Jordan, May 2007.

Undergraduate Students:

*Project Supervisor at UOS*

Student Name	Project	Academic Year
Yazan A. Fu'ad Mubarak Mouhamad Walid M. Raslan Amro A. Khayri Seif Elnasr	Nano Materials Effect on Performance and Behavioral Properties of Asphalt Binder	AY 2022-2023
Moza S. I. Almadhloum Alsuwaidi Ghaya M. M. Hamad Alsulaiti Meera A. Eisa Hassan Aljasmii Rzan A. Abdulwadood Alqaysi	Investigating the Rheological Properties of Colored Asphalt Binder	
Fatima N. Muhammad Hassan Khadija F. Khalifa B. Alnaqbi	Evaluating the Performance of Asphalt Binders Modified by Phase Change Materials to Mitigate the Urban Heat Island in the UAE	

Karam Alaram Khalifa Abujarad Jaber Al Naimi Omar Alteneiji	Performance of Crumb Rubber- Modified Warm Mix Asphalt	Spring 2021-2022 Fall 2022-2023
Mohammed Othman Hazem Almajzoub Salim Mawed Abdullah Wathik Mohammed Albayoumi (Co)	Impact of Diverse Nanomaterials on the Rheological Properties of Asphalt Binders to Meet the Climate and Traffic Conditions of the UAE	AY 2021-2022
Naela Abdullah Haneen Maged Hiba Radwan Aisha Obaid Muneerah Alrudaini (Co)	Investigating the Effect of Anti-aging Additives on Mechanical Testing of Asphalt Binder and Pavement Performance in the UAE	AY 2020-2021
Ali Arfan Samha Hossam Salah Hassan Mohammad Abdul Karim Tawfiq Peter Ezzat Raouf (Co)	Designing a Highway between Falaj al Mualla and Idhn	
Abdullah Hesham Allam Maitha Ali Alshamsi Sarah Mohammed Almarri Khaled Hosam Shalaby Ibrahim Lotfi (Co)	Designing a Highway between Falaj al Mualla and Idhn	
Yousif S. Humaid Almaynoun Alzaabi Ahmed F. Hussein Ba Fadhl Saud F. Mohamed Salman Alkaabi Ammar M. Muntaser Al-Muntaser	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Mohammad B. B Gh Alharbi Mohamed T. Galal Mohamed Raslan Abdullah H. Ali Al-Khadri Ahmed M. Mahmoud Mahmoud	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Hussein W. Abd Ali Al Naqeeb Ibrahim F. Abdulmajeed Al-Taie Nasouh B. Hawari Ahmed O. Nafea	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Mohamed E. Mahmoud Abouraia Moamen M. Hanafy Mohamed Ahmed Ahmed M. Hussein Abouelseoud Ahmed T. Mahmoud Samy Abdellatif Elgazar	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020



Omar S. Abdulkarim Abdelfatah S. Elawady Mohamed Elawady Anmar M. Jawdat Al-Obaidi Motaz F. Younus Abugabal	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Yousef J. Al Halaki Mohammad Hussein A. Kadah Ahmad Sayour Yaala Y. Sulaiman	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Kholoud M. Anwar Elbasuony Sherif Latifa E. R A S Almansour (SDP I) Fatima Sultan Ali Saif Alketbi Fatema A. Jamous	Designing a Highway between Madam and Shawka	Fall 2019-2020 Spring 2019-2020
Omar B. Alchakouch Bakar B. Chikh Al Ghannama Ali M. Faeq Hosam Aldin H. Khalil Ibrahim	Modification of Asphalt Binder Using Activated Rubber for Enhanced Roads in the UAE	Fall 2019-2020 Spring 2019-2020
Hamda I. Ali Talib Alkhaja	Modification of Asphalt binder using Crumb Rubber	Fall 2019-2020 Spring 2019-2020
Mariam A. Mohamed Binsultan Alshamsi		
Dana E. Salah Mohamed		
Alya S. Salim Hassan Alsuwaidi		
Roaa M. Alyounes Farah A. Abdul Kareem Abusadeh Aman O. Abdul Samad	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Ossama S. Fitieh Majd Hassan Mohamed A. Fayez Elmasri	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Mohammed M. A. Al-Zaiwary Ali N. A. Alagha Abdullah M. Thabit Al-Hadithi Wael M. Abdulmoula	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Mohamad A. Wali Baki Tarek M. Hannounch Fouad M. Haidar	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Mohamed K. Salama Hemdan Andrew E. Henin Reiad Sorial Mohamed A. Hassan Adam Mohamad H. Al Kadi	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Irfan H. Abbas Ahmed M. Khalil Albualzarazeer Alqasem A. A.Jabbar Al-Abboodi Laith N. Idris Al-Naimi	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019

Ameer A. Hadi Haidar M. Hussein Al-Dahan Ahmad M. Abedalfattah Alhitawi	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Ahmed G. Elgarhy Fouda Mohammed A. Alsayed Mohammed Albahnsy Farhan Akhtar Akhtar Hussain Ahmed H. Abdelfatah Nasr	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Ahmed S. Amin Mohamed Bakr Mohamed Ashraf Ahmad K. Salama Hemdan	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Musallam N. Musallam Khalayleh Osama H. A. Abdelwahab Mohammed B. Anwar Abdo	Designing a Highway between Masafi and Khor Fakkan	Fall 2018-2019 Spring 2018-2019
Basel A. Ibrahim Mohamed Kiwan Antonyous R. Shokry Guirguis Ahmed M. Mohamed E. Zaina Karim M. Hussein Abouelseoud Homam O. Daghmach	Designing a Road between Idhn/Ras Al-Khaimah and Al Halah/Al-Fujairah	Spring 2017-2018 Fall 2018-2019
Yousif S. Yahya Maizar R. Abdulmohsin Al-Ani Mustafa A. Dheyaa Alabdullah	Designing a Road between Idhn/Ras Al-Khaimah and Al Halah/Al-Fujairah	Spring 2017-2018 Fall 2018-2019
Mariam M. Salim Almutawa Fatima A. Eisa Fadl Alnuaimi Mariam Al-Zouabi	Designing a Road between Idhn/Ras Al-Khaimah and Al Halah/Al-Fujairah	Spring 2017-2018 Fall 2018-2019
Mohammad Y. Fareed Taqatqeh Mohammed A. M. Abuzayda Yasser S. Abdi Ali F. Abidalhassan	Designing a Road between Idhn/Ras Al-Khaimah and Al Halah/Al-Fujairah	Spring 2017-2018 Fall 2018-2019
Zinab M. Alhariri Aisha M. Ali Alsari Almheiri Basma B. Bali	Designing a Road between Idhn/Ras Al-Khaimah and Al Halah/Al-Fujairah	Spring 2017-2018 Fall 2018-2019
Adel M. Elmoslemany Ahmed J. Alyazji Mahmoud Y. Khalil Ahmed E. Ibrahim Hussein M. Naser	Designing a New Highway that connects the town of Al-Dhaid with the town of Al-Manamah	Fall 2017-2018 Spring 2017-2018
Amjad S. Gharez Eddin Abdulrahman E. Ghazizadeh Fahad M. Weli	Designing a New Highway that connects the town of Al-Dhaid with the town of Al-Manamah	Fall 2017-2018 Spring 2017-2018
Rawan A. Abdelrazek Kouther A. Bata Fatima Y. Salim Ghaya A. Alteneiji Rawan K. Shehadeh Razan H. Ibrahim	Designing a New Highway that connects the town of Al-Dhaid with the town of Al-Manamah	Fall 2017-2018 Spring 2017-2018

Raghdaa S. Karknawi Dana I. Choman Marah N. Elhodaliya Lubna G. Obaid Hala H. Al Kadi Shahd M. Humaid	Designing a New Highway that connects the Town of Al Rashidiya / Umm Al Quwain with the Town of Idhn / Ras Al Khaimah	Spring 2016-2017 Fall 2017-2018
Narjess B. Otoum Maryem M. Almazrouei Asma A. Eid Maram K. Abdullah Shaikha Hatam	Designing a New Highway that connects the Town of Al Rashidiya / Umm Al Quwain with the Town of Idhn / Ras Al Khaimah	Spring 2016-2017 Fall 2017-2018
Nasser R. Alsuwaidi Ibrahim M. Almet Mustafa A. Al-Khazraji Mohamad N. Ajjawi Ibrahim M. Abed Alaa M. Sukkari	Designing a New Highway that connects the Town of Al Rashidiya / Umm Al Quwain with the Town of Idhn / Ras Al Khaimah	Fall 2016-2017 Spring 2016-2017
Azmi Y. Khalaf Mohammad I. Abu Farhah Ahmed M. Hassan Mohamed Umar Ebrahim A. Mollaei Mamdouh M. Alahdab	Designing a New Highway that connects the Town of Al Rashidiya / Umm Al Quwain with the Town of Idhn / Ras Al Khaimah	Fall 2016-2017 Spring 2016-2017
Mohammad W. Mansour Mohammed J. Abuolwan Abdulnaser S. U'Shaaban Waid M. Abdalla	Designing a New Highway Between Masafi and Khor Fakkan	Spring 2015-2016 Fall 2016-2017
Rashed A. Alkaabi Mohammed Z. Babelli Anwar M. Hamdan Yousef N. AlNazli Muaioia N. Al Mazouni Ahmad M. Abedrabbob	Designing a New Highway Between Masafi and Khor Fakkan	Fall 2015-2016 Spring 2015-2016
Abdelaziz W. Alhammadi Omer M. Fadhil Anas M. Shahin Mohamed T. Alqahtani Mammon A. Derbas	Designing a New Highway Between Masafi and Khor Fakkan	Fall 2015-2016 Spring 2015-2016
Rana J. Al-tibi Magdoline M. Ali Shahd G. Al Sarraj Deemah S. Dalaq Hana S. Eltahir	Designing a New Highway Between Masafi and Khor Fakkan	Fall 2015-2016 Spring 2015-2016
Abdul Kareem M. Hamdan Mohamad K. Sabbagh Hassan M. Hamdoun Abdullah K. Abdullah Omar A. Sharaf El Din	Designing a New Highway Between Masafi and Khor Fakkan (Project II only)	Fall 2015-2016

Eihab M. Elsherbeny	
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*Project Supervisor at AUS*

Student Name	Project	Academic Year
Sophie Ziai Obaid Al Marri Amineh Ahmed	Designing a New Highway Between Mohammed Bin Zayed Highway and Al-Khail Highway.	Fall 2014-2015 Spring 2014-2015

*Project Supervisor at JUST*

Student Name	Project	Academic Year
Alaa' Mallouh Wafaa' Al-Halahleh	Designing a New Highway	Fall 2006-2007 Spring 2006-2007
Reema Al-Suwayti (Project I) Mohammad Khasawneh	Designing a New Highway Development of a Windows-Based Program to Determine Aggregate Blend Gradations According to the Superpave Specifications	Spring 2006-2007 Spring 2006-2007 Fall 2007-2008
Osama Darweish Mohannad Atawneh	Designing a New Highway	Fall 2007-2008 Spring 2007-2008
Nagham Yaqup Riada Al-Smadi	Development of Models for the Present Serviceability Index (PSI) for Asphalt Pavement for Rural Highways in Jordan Development of Models for the Present Serviceability Index (PSI) for Asphalt Pavement for Urban Highways in Jordan	
Reema Al-Suwayti (Project II)	Designing a New Highway	Spring 2007-2008
Ala' Malkawi Hadeel Shatnawi Murad Al-Na'washi Salah Al-Shawwaf	Designing a New Highway	Spring 2007-2008 Fall 2008-2009
Arafat Gahwash Basem Anagreh Ula Halloush	Designing a New Highway	Fall 2008-2009 Spring 2008-2009
Katie Al-Ziyadine (Project I)	Designing a New Highway	Spring 2008-2009
Ahmad Hayajneh	Evaluation of Highway Materials Using Superpave System	Spring 2008-2009 Fall 2009-2010
Qutadah Ababneh Suhair Obaidat	Designing a New Highway	Fall 2009-2010 Spring 2009-2010

Hamzeh Al-Umoush (Project II) Katie Al-Ziyadine (Project II) Lina Al-Waqfi (Project II)		Spring 2009-2010
Majd Hamdan Sanabel Pawlo	Designing a New Highway	Spring 2009-2010 Fall 2010-2011
Ahmad Simreen Hamzah Al-Qudah Ma'moon Damrah Mohammad Al-Barqawi (Main)  Mohammad Khaleel Abdallah Abdel-Rahman (Co) Yazeed Qasem (Co)	Designing a New Highway  Effect of Restricted Zone in Superpave Gradation Specification on Volumetric Properties of the Mix	Fall 2010-2011 Spring 2010-2011
Ahmad Al-Omari Rania Jaba'tah (Main) Shaima' Abu-Darweesh Talal Al-Damen Yazan Al-Athamneh Walaa' Darweesh (Co)	Designing a New Highway	Spring 2010-2011 Fall 2011-2012
Hadeel Maaiah  Hamzah Nakhleh Huda Ekbariah Majd Rehani Muawiyah Ababneh Raghad Al-Zu'bi	Effect of Basalt and Limestone Combinations on Superpave Aggregate Properties	Fall 2011-2012 Spring 2011-2012
Hisham Al-Khateeb (Project I)  Bayan Al-Malak Haneen Sosah Heba Abu-Ubaid Laith Momani	Designing a New Highway	Spring 2011-2012  Spring 2011-2012 Fall 2012-2013
Hisham Al-Khateeb (Project II)  Elham Ghunaimat Mohammad Al-Taani Mu'taz Ananbeh Norah Dalgamoni Saja Al-Deeb	Designing a New Highway	Spring 2012-2013  Fall 2012-2013 Spring 2012-2013
Mai Al-Qudsi Tasneem Megdadi Sandra Gharaibeh Yousuf Agha (Project II)	Designing a New Highway	Spring 2012-2013 Fall 2013-2014  Fall 2013-2014

Rawan Al-Omari (Projects I&II)		
Duha Al-Deeb Mujktar Hasan Ghazi Al-Bader Mohammad Al-Shurman Ali Al-Nusour	Designing a New Highway	Fall 2013-2014 Spring 2013-2014
Omar Al-Bataineh Abdelfatah Hiyasat Maan Al-Momani Muneeb Mohammad Eman Assaf Reema Nammas	Designing a New Highway (Project I only)	Spring 2013-2014

### **Service:**

#### Journal Editor / Editorial Board Member:

- ❑ Lead Guest Editor, Special Issue on “Sustainable Development of Pavement Materials, Design, and Road Construction Technologies,” Sustainability Journal.
- ❑ Editorial Board Member, Science Progress, Engineering and Materials Science Section, <https://journals.sagepub.com/editorial-board/sci>.
- ❑ Editorial Advisory Board Member, Materials Analysis and Characterization, Cambridge Scholars Publishing, <http://www.cambridgescholars.com/t/MaterialsAnalysisAdvisory>.
- ❑ Editorial Team Member, International Journal of Recent Development in Civil & Environmental Engineering, Eureka Journals Publisher, <http://technology.eurekajournals.com/index.php/IJRDCEE/about/editorialTeam>.
- ❑ Lead Guest Editor, Special Issue on “Innovative Materials, New Design Methods, and Advanced Characterization Techniques for Sustainable Asphalt Pavements,” International Journal of Advances in Materials Science and Engineering, Hindawi Publishers.
- ❑ Editorial Board Member, Journal of Sustainable Construction Materials and Technologies (JSCMT), <https://jscmt.yildiz.edu.tr/>.

#### Reviewer of International Journals and Conferences:

- ❑ ASCE Journal of Materials in Civil Engineering
- ❑ International Journal of Pavement Engineering
- ❑ Construction and Building Materials
- ❑ Road Materials and Pavement Design
- ❑ Journal of Materials and Design

- ❑ Journal of Transportation Engineering
- ❑ ASTM Advances in Civil Engineering Materials
- ❑ ASTM Testing and Evaluation
- ❑ ASTM International-Advances in Civil Engineering Materials
- ❑ Advances in Materials Science and Engineering
- ❑ Journal of the Association of Asphalt Paving Technologists (AAPT)
- ❑ International Journal of Pavement Research and Technology
- ❑ KSCE Journal of Civil Engineering
- ❑ Journal of Building and Environment
- ❑ Journal of Traffic and Transportation Engineering
- ❑ Journal of the ASCE Geo Frontier
- ❑ Cement and Concrete Composites
- ❑ Jordan Journal of Civil Engineering
- ❑ Jordan Journal of Earth and Environmental Sciences
- ❑ Springer Plus Research
- ❑ International Conference on Applications of Advanced Technologies in Transportation.
- ❑ Project Results of the Western Research Institute (WRI) Research Program sponsored by the FHWA.

Attended Conferences, Workshops, and Technical Meetings:

- ❑ Attended and Presented at Kalba 2nd Forum on Building and Construction, Kalba-Sharjah, UAE, February 21, 2023.
- ❑ Attended as a Member, “Climate Change Initiative (CCI) Cluster Meeting, through Zoom, Climate Change Research Network (CCRN),” Ministry of Infrastructure and Climate Change, January 22, 2023.
- ❑ Served as a Session Moderator, “Beyond Industry 4.0 and 5.0: Towards Smart-Digital Green Society-A Canadian Perspective in Education and Research,” University of Sharjah, December 05, 2022.
- ❑ Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, October 10, 2022.
- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, Item Bank Coding, June 16, 2022.
- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, to discuss the next stage of the preparations for the Exit Exam. The item bank coding will be discussed in another meeting, April 27, 2022.
- ❑ Sharjah International Conference on Education in Post COVID-19, Future Trends in Teaching and Learning: Employability and Skills Driven Curriculum, University of Sharjah, through Zoom, March 14-16, 2022.
- ❑ 3<sup>rd</sup> Annual Teaching and Learning Forum, Innovative Pedagogies for Authentic Learning and Employability, Institute of Leadership in Higher Education, University of Sharjah, through Zoom, February 24, 2022.
- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, February 14, 2022.
- ❑ The 14<sup>th</sup> International Conference on Developments in eSystems Engineering (DeSE2021), University of Sharjah and Liverpool John Moores University, Hybrid Mode, December 7-10, 2021.
- ❑ Attended as a committee member, Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, November 22, 2021.

- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Civil Engineering Subcommittee Meeting for Exit Exam, through Blackboard, October 18, 2021.
- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Civil Engineering Subcommittee Meeting for Exit Exam, Video Meeting through Google, October 11, 2021.
- ❑ Attended as a Committee Member, Ministry of Education (MOE) Taskforce, Pilot Study Meeting, through MS Teams, October 05, 2021.
- ❑ Face-to-Face Seminar, The Growing Waterfall: A New Water Source---Expo2020 Project and Other Innovations, By Ap Verheggen, Department of Civil and Environmental Engineering, University of Sharjah, October 03, 2021.
- ❑ Webinar through MS Teams, Performance Appraisals for the Academic Year 2021/2020, Human Resources Department, University of Sharjah, September 26, 2021.
- ❑ Webinar through Zoom, NovoCrete® - An Innovative Way for construction of Roads and Yards by Soil Stabilization By Nisco General Contracting LLC (exclusive agent in GCC countries of OPiS), September 19, 2021.
- ❑ Hybrid Learning Hands-on Training, Hands-on training session to get familiar with the new interactive screens (smart boards), Institute of Leadership in Higher Education (ILHE) and IT Department, University of Sharjah, August 23<sup>rd</sup>, 2021.
- ❑ The 17<sup>th</sup> International Operations and Maintenance Conference (OMAINTEC), Dubai, UAE, November 19-21, 2019.
- ❑ The 26<sup>th</sup> World Road Congress, Abu Dhabi, UAE, October 6-10, 2019.
- ❑ Workshop on “Building Design for Extreme Loads,” University of Sharjah, Sharjah, UAE, February 17-18, 2019.
- ❑ Presented “History of Superpave Mix Design”, in the Seminar “Development of Asphalt Mix Design Specifications for Future Superior Performing Roadways in the UAE, Sharjah Research Academy, Sharjah, UAE, June 07, 2018.
- ❑ Workshop on “Fiber Reinforced Concrete (FRC)”, Member of the Organizing Committee, University of Sharjah, Sharjah, UAE, April 23, 2018.
- ❑ The 12<sup>th</sup> Middle East Drymix Mortar Conference, University of Sharjah, Sharjah, UAE, November 26, 2017.
- ❑ The Joint 8<sup>th</sup> International Forum on Engineering Education (IFEE) and 4th International Conference Towards Sustainable Development (ICTSD), University of Sharjah, Sharjah, UAE April 18-20, 2017.
- ❑ Workshop on “Skills Development in Using UOS e-Services”, Center of Continuing Education and Professional Development, University of Sharjah, Sharjah, UAE, August 30 and September 3, 2015.
- ❑ Workshop on “Academic Faculty Bylaws”, Center of Continuing Education and Professional Development, University of Sharjah, Sharjah, UAE August 24-25, 2015.
- ❑ Workshop on “Microsoft Technology Enriched Instruction”, American University of Sharjah, Sharjah, UAE, November 15, 2014.
- ❑ The 3<sup>rd</sup> Annual International Conference on Civil Engineering, Organized by Athens Institute for Education and Research, Athens, Greece, June 10-13, 2013.
- ❑ The 6<sup>th</sup> International Safety Conference, Organized by the Jordan Traffic Institute (JTI), Amman, Jordan, November 19-20, 2012.
- ❑ Workshop on “Statistical Package for Social Sciences (SPSS)”, the Academic Development Center, Jordan University of Science and Technology, Irbid, Jordan, July 08-09, 2012.
- ❑ The 5<sup>th</sup> Jordanian International Civil Engineering Conference (JICEC), Jordan Engineers Association (JEA), Amman, Jordan, January 17-19, 2012.
- ❑ The 6<sup>th</sup> International Structural Engineering and Construction (ISEC) Conference, Zurich, Switzerland, June 21-26, 2011.



- Workshop on “Testing and Evaluation”, the Academic Development Center, Jordan University of Science and Technology, Irbid, Jordan, April 28-29, 2010.
- Roads Evaluation and Maintenance (REM) Workshop, Amman, Jordan, April 12<sup>th</sup> of 2010.
- The 4<sup>th</sup> Conference on Scientific Research in Jordan (CSRJ), “Evaluation of the Effect of Heavy Vehicular Axle Loads on the Functional Behavior, Ride Quality, and Hence Safety of Highway Pavements in Jordan,” Amman, Jordan, November 7, 2009.
- Traffic Committee Technical Meetings, Irbid Governorate and the Traffic Department of Irbid Municipality, 2009.
- Traffic Safety Day, Organized by the Jordan Engineers Association (JEA), Irbid, Jordan, June 10, 2008.
- The 10th International Conference on Applications of Advanced Technologies in Transportation (AATT), Athens, Greece, May 28-30, 2008.
- The 5<sup>th</sup> International Safety Conference on “Road and Traffic Safety Strategies,” Organized by the Jordan Traffic Institute (JTI), Amman, Jordan, April 22-24, 2008.
- Workshop on “The Use of Basalt Aggregate in Hot-Mix Asphalt (HMA) Mixes,” Municipality of Greater Amman, Jordan, May 21, 2007.
- The 3<sup>rd</sup> Jordan International Transportation Conference, Amman, Jordan on March 26-28, 2007.
- Reflective Crack Relief Workshop, Allentown, PA, USA, September 20, 2005.
- Superpave Asphalt Mixture Design Workshop at Turner-Fairbank Highway Research Center (TFHRC) in McLean, VA, USA, April 27, 2005.
- Technical Work Group (TWG) Meeting of the FHWA’s Accelerated Loading Facility (ALF) Pooled Fund Study sponsored by the State DOTs at TFHRC in McLean, VA, USA:
  - Annual Meeting, June 2005.
  - Annual Meeting, February 2004.
  - Annual Meeting, February 2003.
  - Annual Meeting, February 2002.
- Course on Advanced Material Modeling at TFHRC, McLean, VA, USA, June 2003.
- Course on Statistics and Its Applications in Engineering Research at TFHRC, McLean, VA, USA, June-July 2001.
- Association of Asphalt Paving Technologists (AAPT) Technical Meeting:
  - Annual Meeting in Baton Rouge, LA, USA, March 8-10, 2004.
  - Annual Meeting in Chicago, IL, USA, March 8-10, 1999.
- Transportation Research Board (TRB) Conference, Washington, D.C., USA:
  - 85<sup>th</sup> Annual Meeting, January 2006.
  - 84<sup>th</sup> Annual Meeting, January 2005.
  - 83<sup>rd</sup> Annual Meeting, January 2004.
  - 82<sup>nd</sup> Annual Meeting, January 2003.
  - 81<sup>st</sup> Annual Meeting, January 2002.
  - 80<sup>th</sup> Annual Meeting, January 2001.
  - 79<sup>th</sup> Annual Meeting, January 2000.
  - 78<sup>th</sup> Annual Meeting, January 1999.
  - 77<sup>th</sup> Annual Meeting, January 1998.
- Illinois Bituminous Paving Conference conducted by the University of Illinois at Urbana-Champaign, Urbana, IL, USA:
  - 40<sup>th</sup> Annual Meeting, December 1999.
  - 39<sup>th</sup> Annual Meeting, December 1998.
  - 38<sup>th</sup> Annual Meeting, December 1997.

- Transportation and Highway Engineering (THE) Conference conducted by the University of Illinois at Urbana-Champaign, Urbana, IL, USA:
  - 85<sup>th</sup> Annual Meeting, February 1998.
  - 84<sup>th</sup> Annual Meeting, February 1997.
  - 83<sup>rd</sup> Annual Meeting, February 1996.
- Illinois Traffic Engineering and Safety Conference conducted by the University of Illinois at Urbana-Champaign, Urbana, IL, USA:
  - 45<sup>th</sup> Annual Meeting, October 1996.

AMRL Accreditation for TFHRC Bituminous Mixtures and Binders Rheology Laboratories:

- Manager of Inspection and Testing Services certified by the AASHTO Materials Reference Laboratory (AMRL) Accreditation and Assessment for the Bituminous Mixtures Laboratory (BML) and the Binders Rheology laboratory (BRL) at TFHRC of the FHWA in McLean, VA, USA, April 2004.
- Established a Quality System for the BML and the BRL at TFHRC: The establishment involves activities associated with the development of policies, standard testing procedures and methods, standard equipment calibration and verification forms, operational activities, organizational structure, personnel qualifications and expertise, charts, listings and test record maintenance plans designed to achieve quality objectives, 11/2000-04/2004.
- Implemented the Quality System in these two laboratories. The implementation involves actions taken by laboratory staff including technicians, engineers, and managers in order to comply with established quality system policies and standards, standard testing procedures, maintenance requirements for standard equipment calibration and verification, and test record keeping requirements.
- Prepared Quality System Manuals for the BML and the BRL at TFHRC: The manual preparation is done in accordance with the criteria and guidelines in the AASHTO Practice R18 “Establishing and Implementing a Quality System for Construction Materials Testing Laboratories.” These manuals have to comply with the requirements of the AASHTO Practice R18, April 2004.
- AMRL Accreditation / Certification: It provides evaluation of lab performance and competency, promotes improvements in laboratory testing capabilities, and implants confidence in laboratory services and activities.
- Maintaining the AMRL Accreditation Documents and Records: Constantly maintained the quality system manuals, equipment calibration and verification, internal quality system evaluation, criteria compliance document (CCD), and training records for laboratory technicians according to the AASHTO Practice R18 as part of the AMRL accreditation and assessment.

University Services:

University of Sharjah

*Community Level*

- Chair of Judging Committee, Session on Civil Engineering, the 5th UAE Undergraduate Research Competition, Abu Dhabi University, Abu Dhabi, UAE, May 08, 2017.
- Lecturer, “Innovations in Civil Engineering,” University of Sharjah, in the *UAE Innovation Week* (November 22-28, 2015), Sharjah, UAE, November 25<sup>th</sup>, 2015.

### *University Level*

- ❑ Member, Management Committee, M.Sc. in Environmental Science and Engineering Program, University of Sharjah, January 03, 2022-present.

### *College Level*

- ❑ Session Moderator, The 1st International Innovation X.0 Forum, College of Engineering, May 04, 2023.
- ❑ Member, Organizing Committee, College of Engineering Senior Design Project Exhibition, (AY 2022/2023), May 04, 2023.
- ❑ Coordinator, Organizing Committee, College of Engineering Senior Design Project Exhibition, (AY 2021/2022), May 25, 2022.
- ❑ Coordinator, Organizing Committee, College of Engineering Research Week, ISEBA (AY 2020-2021), April 10-11, 2021.
- ❑ Coordinator, Organizing Committee, College of Engineering Research Week (AY 2019/2020), February 29-March 01, 2020.
- ❑ Coordinator, Organizing Committee, College of Engineering Senior Design Project Exhibition (AY 2018/2019), May 02, 2019.
- ❑ Member, Organizing Committee, College of Engineering Senior Design Project Exhibition (AY 2017/2018), May 09, 2018.
- ❑ Member, Organizing Committee, College of Engineering Senior Design Project Exhibition (AY 2016/2017), December 07, 2017.
- ❑ Chair, Senior Design Project Committee (AY 2018/2019, AY 2019-2020).
- ❑ Member, Senior Design Project Committee (AY 2020-2021, AY 2021-2022).
- ❑ Chair, Faculty Social Affairs Committee (AY 2017/2018).

### *Department Level*

- ❑ Chair, Senior Design Project Committee (September 01, 2017-present).
- ❑ Member, Assessment and Accreditation Committee (AY 2020-2021, AY 2021-2022, AY 2022-2023, AY 2023-2024)
- ❑ Member, Graduate Programs and Research Committee (AY 2021-2022, AY 2022-2023).
- ❑ Member, Research Committee (AY 2017/2018, AY 2018/2019, AY 2019/2020).
- ❑ Member, Community Service and Outreach Committee (AY 2017/2018, AY 2018/2019, AY 2019/2020).
- ❑ Member and Chair, Senior Design Project Committee (AY 2015/2016, AY 2016/2017, AY 2017/2018, AY 2018/2019, AY 2019/2020).
- ❑ Member, Social Affairs Committee (AY 2017/2018, AY 2018/2019, AY 2019/2020).
- ❑ Member, Accreditation Steering Committee (AY 2017/2018, AY 2018/2019, AY 2019/2020).
- ❑ Member, Undergraduate Program Committee (AY 2019/2020).
- ❑ Member, Department Strategic Plan Committee (AY 2019/2020).
- ❑ Department Associate Chair for Academic Affairs (AY 2019/2020).

## Jordan University of Science and Technology

### *Community Level*

- ❑ Technical Committee Member for Road Master Plan in Jordan, European Investment Grant, MPWH, Amman, Jordan, 2010.
- ❑ Member, Asphalt and Roads Technical Committee, MPWH, Amman, Jordan, 2010.
- ❑ Head, Superpave Technical Committee, MPWH, Amman, Jordan, 2010.
- ❑ Member (JUST Representative), Traffic Technical Committee for Irbid City, Irbid Governorate and the Traffic Department of Irbid Municipality, Irbid, Jordan, 2009.

### *University Level*

- ❑ Member, Administrative Development Committee (01/2014-09/2014).
- ❑ College of Engineering Representative, Graduate Studies Committee (9/2013-09/2014).
- ❑ Head, Permanent Technical Committee, Traffic Safety and Regulation Committee.
- ❑ Member, Technical Committee, “University Main Entrance and Traffic Inside the University Campus”.
- ❑ Member, Technical Committee, “Road Safety Studies for the Traffic System Inside the University Campus”.
- ❑ Member, Technical Committee, “University Parking Studies”.
- ❑ Member, Students Discipline Committee (AY 2007/2008).
- ❑ Member, Central Tenders Committee (09/2009-09/ 2010).

### *College Level*

- ❑ Member in the Scientific Research Committee, 09/2012-09/2013.
- ❑ Member in the Graduate Studies Committee, 09/2013-09/2014.
- ❑ Head, Engineering Training Committee, 09/2012-09/2013.

### *Department Level*

- ❑ Member in the Scientific Research Committee (several times during my service years 09/2006-09/2014).
- ❑ Member in the Library Committee.
- ❑ Member in the Tenders Committee (several times during my service years 09/2006-09/2014).
- ❑ Member in the Committee of Seminars and Community Service.
- ❑ Member in the Graduate Studies Committee (several times during my service years 09/2006-09/2014).
- ❑ Member in many other Committees.

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### **Personal Information:**

- ❑ Date of Birth: April 4<sup>th</sup>, 1969.
  - ❑ Marital Status: Married with four kids.
  - ❑ Residency: US permanent resident.
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