

Dr. Mohammad Ali Khasawneh, P.E.

Associate Professor
Department of Civil Engineering
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<https://scholar.google.com/citations?user=hUr3X08AAAAJ&hl=en>



I. Education

Ph.D. in Civil Engineering, August 2008

The University of Akron, Akron, Ohio
Dissertation Title “The Development and Verification of a New HMA Accelerated Polishing Machine”

M.Sc. in Civil Engineering, August 2005

The University of Akron, Akron, Ohio
Thesis Title “Laboratory Characterization of Cohesive Subgrade Materials”

B.Sc. in Civil Engineering, February 2003

Jordan University of Science and Technology, Irbid, Jordan

II. Professional Experience

Associate Professor, April 2016 to Present

Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan

- Developed and Taught the following civil engineering and general engineering courses:
 - Advanced Pavement Materials and Design (M.Sc. Level)
 - Analytical Methods (M.Sc. Level)
 - Soil Mechanics
 - Highways Geometric
 - Pavement Materials and Design I
 - Graduation Project I
 - Graduation Project II

Assistant Professor, January 2013 to April 2016

Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan

- Developed and Taught the following civil engineering and general engineering courses:
 - Soil Mechanics
 - Land Surveying
 - Highways Geometric
 - Pavement Materials and Design I
 - Traffic Engineering

- Strength of Materials
- Graduation Project I
- Graduation Project II
- Practical Engineering Applications

Assistant Professor, September 2008 to January 2013

Civil Engineering Department, Ohio Northern University, Ada, Ohio

- Developed and Taught the following civil engineering and general engineering courses:
 - Geometric design of highways
 - Traffic engineering
 - Advanced traffic engineering
 - Pavement analysis and design
 - Highway materials
 - Land Surveying
 - Soil mechanics
 - Project Management and Engineering Economy
 - Engineering statics
 - Strength of materials
 - Graduation Project I
 - Senior design projects
- Worked on the following Engineering projects:
 - The redesign of the interchange of Interstate I-75 with U.S. Route 15 in Findlay, Ohio.
 - Design of the realignment of the Westerville Square Plaza entrance drive on State Street north of the Schrock Road intersection to accommodate the projected traffic increase due to additional commercial development at the plaza, City of Delaware, Ohio.
 - Collins Avenue, Milford Avenue and Ninth Street Corridor Design, City of Marysville, Ohio.
 - Road Safety Audit for SR 117 & SR 501/Wapak Road (TR 91), ODOT District #1, Ohio.
 - State Route 3 and Freeman Road Intersection Improvements Delaware County, Ohio.
 - SR 347/CR 191 Intersection Re-Alignment, Union County, Ohio.
 - Redesign of SR 235 corridor, Ada, Ohio.
 - Realignment of US-30 bypass, Sandusky, Ohio.
 - Interchange realignment of I-75, Perrysburg, Ohio.
 - Traffic Impact Studies and Trip Generations.
- Member of the following organizations and committees:
 - OCA Construction Estimating Team advisor
 - TSA coordinator and ONU test site host
 - Student Activities Committee
 - Cultural Affairs Committee
 - Grade Appeals Committee
 - Accommodations (Disabilities) Appeals Committee
 - Phi Beta Delta

Research Assistant, September 2003 to August 2008

Civil Engineering Department, University of Akron, Akron, Ohio

- Worked on the following Transportation/Pavement Engineering research projects funded by FHWA and/or ODOT:
 - Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregate in Ohio.
 - Evaluation of Drainable Bases under Asphalt Pavements.
 - Polymer Modified Asphalt Binder Test.
 - Effect of Moisture on Asphalt Concrete Paving Mixtures.
- Worked on the following Geotechnical Engineering research projects funded by FHWA and/or ODOT:
 - Artificially Induced Slope Failure.
 - Landslide Stabilization Using a Single Row of Rock-Socketed Drilled Shafts.
 - Landslide Risk Management and Ohio Database.

Teaching Assistant, September 2003 to August 2008

Civil Engineering Department, University of Akron, Akron, Ohio

- Teaching assistant for the Earth Retaining Structures course.
- Teaching assistant for the Geotechnical Engineering Lab.
- Grading different Civil Engineering courses.

III. Conferences, Workshops, Short Courses and webinars

Conferences

- 4th International Conference on Computational and Experimental Science and Engineering, ICCES-2017, 4-8th October 2017.
- International Conference on Building Science and Engineering, ICBSE 2016, New York, USA, 4-5 June 2016.
- International Conference on Building Science and Engineering, ICBSE 2015, New York, USA, 4-5 June 2015.
- International Conference on Building Science and Engineering, ICBSE 2014, New York, USA, 5-6 June 2014.
- Civil Engineering for Sustainability and Resilience International Conference, CESARE '14 Amman, Jordan, 24-27 April 2014.
- American Society of Engineering Education (ASEE) Annual Conference and Exposition, June 23rd to 26th, 2013, Atlanta, Georgia, USA.
- American Society of Engineering Education (ASEE) North Central Conference, April 5th to 6th, 2013, Columbus, Ohio, USA.
- Transportation Research Board (TRB) 92nd Annual Meeting, January 13th - 17th 2013, Washington, D.C., USA.
- Ohio Transportation Engineering Conference (OTEC) Annual Conference, Columbus, OH, USA, 2012.
- American Society of Engineering Education (ASEE) North Central Conference, March 23rd to 24th, 2012, Ada, Ohio, USA.
- Transportation Research Board (TRB) 91st Annual Meeting, January 22nd - 26th 2012, Washington, D.C., USA.

- Ohio Transportation Engineering Conference (OTEC) Annual Conference, Columbus, OH, USA, 2011.
- 2nd International Conference on Warm Mix Asphalt, October 11-13, 2011, St. Louis, Missouri, USA.
- National Collegiate Inventors and Innovators Alliance (NCIIA) 15th annual conference, Washington, D.C., March 24th – 26th 2011.
- Ohio Transportation Engineering Conference (OTEC) Annual Conference, Columbus, OH, USA, 2010.
- Ohio Transportation Engineering Conference (OTEC) Annual Conference, Columbus, OH, USA, 2009.
- 2nd International Conference on Perpetual Pavement, Hilton Columbus at Easton, 2009 Columbus, OH, USA.
- Ohio Transportation Engineering Conference (OTEC) Annual Conference, Columbus, OH, USA, 2008.
- Transportation Research Board (TRB) 87th Annual Meeting, January 13th - 17th 2008, Washington, D.C., USA.
- 1st International Conference on Perpetual Pavement, Hilton Columbus at Easton, 2006 Columbus, OH, USA.
- 12th Annual Great Lakes Geotechnical and Geoenvironmental Engineering Conference (GLGGC), Advances in Deep Foundations: Design, Construction, and Quality Control, May 7th 2004, Akron, OH, USA.

Workshops

- Statistical Data Analysis using Minitab, August 3rd and 10th 2017, Jordan University of Science and Technology, Irbid, Jordan.
- Statistical Data Analysis using R, January 25th and 26th 2017, Jordan University of Science and Technology, Irbid, Jordan.
- SPSS Workshop, May 26th and 27th 2014, Jordan University of Science and Technology, Irbid, Jordan.
- Advanced Statistical Analysis using SPSS, September 15th and 16th 2013, Jordan University of Science and Technology, Irbid, Jordan.
- Introduction to Statistical Analysis using SPSS, May 22nd and 23rd 2013, Jordan University of Science and Technology, Irbid, Jordan.
- Teaching and Evaluation, May 19th and 20th 2013, Jordan University of Science and Technology, Irbid, Jordan.
- Learning styles, November 6th, 2012, Ohio Northern University, Ada, Ohio.
- Railroad Engineering Education Symposium (REES 2012), June 11-13, Johnson County Community College, Overland Park, Kansas, USA.
- True North Surveyor's Workshop 2012 on April 19th, 2012 in the McIntosh Center at Ohio Northern University, Ada, Ohio, USA.
- DARWin-ME: Initial Experience of Software Users, Transportation Research Board (TRB) 91st Annual Meeting, January 22nd, 2012, Washington, D.C., USA.
- Innovating curriculum with entrepreneurial-mindset – Focus on structural mechanics, October 7-8, 2011, St. Louis, Missouri, USA.

- National Center for Asphalt Technology (NCAT) Professors Training Course in Highway Materials, Auburn University, Auburn, Alabama, June 21st – June 30th 2011.
- Highway Capacity Manual (HCM) 2010 Workshop, January 12th, 2011, McTrans Center Training, Kansas City, Missouri, USA.
- Synchro and SimTraffic Level I, II, and III Training Classes, November 9th – November 11th, 2010, Institute for Transportation Research and Education, Raleigh, North Carolina, USA.
- Excellence in Civil Engineering Education, ExCEED, July 18th – July 23rd, 2010, University of Colorado at Boulder, Boulder, Colorado, USA.
- American Concrete Pavement Association professor’s seminar, June 21st – June 25th, 2010, Skokie, IL, USA.
- Quality Matters Rubric Workshop, May 20th, 2010, Lorain County Community College, Elyria, OH, USA.
- Workshop on MEPDG: Climatic Considerations, (7 PDH), ODOT Central Office, June 22nd 2006, Columbus, OH, USA.

Short Courses and webinars

- Asphalt Institute Webinar: Using the MSCR Test in Asphalt Binder Specifications, September 9, 2017.
- TRB Webinar: Overview of Nanotechnology and Use of Nanomaterials as Modifiers for Asphalt Binders, November 8, 2012.
- TRB Webinar: Overview and Current Practice of Ground Tire Rubber Use in Asphalt, November 14, 2012.
- TRB Webinar: Basics of Asphalt Modeling: Part 1, October 18, 2012.
- Short Course on Mechanically Stabilized Earth Walls & Reinforced Soil Slopes (ASD and LRFD), (23 PDH), November 08th-10th 2007, University of Akron, Akron, OH, USA, Instructors: Jerry A. DiMaggio and Dov Leshchinsky.
- Short Course on Foundations & Earth Retaining Structures, (4.5 PDH), March 24th 2006, University of Akron, Akron, OH, USA, Instructor: Jerry A. DiMaggio.
- Short Course on Earth Retaining Structures, (12 PDH), December 1st-2nd 2005, University of Akron, Akron, OH, USA, Instructor: Jerry A. DiMaggio.
- Short Course on Ground Improvement Methods, (20 PDH), April 14th-16th 2005, University of Akron, Akron, OH, USA, Instructor: Jerry A. DiMaggio and Ryan R. Berg.
- Short Course on Soil Slope and Embankment Design, (16 PDH), November 18th-20th 2004, University of Akron, Akron, OH, USA, Instructors: Jerry A. DiMaggio and Dov Leshchinsky.

IV. Publications

Refereed Journals Papers

- **Mohammad Ali Khasawneh**, Investigation of Factors Affecting the Behavior of Subgrade Soils Resilient Modulus Using Robust Statistical Methods, International Journal of Pavement Engineering, DOI: 10.1080/10298436.2017.1394101, November 2017.

- Aslam Ali Al-Omari, Taisir Khedaywi and **Mohammad Ali Khasawneh**, Laboratory Characterization of Asphalt Binders Modified with Waste Vegetable Oil Using SuperPave Specifications, International Journal of Pavement Research and Technology, DOI: 10.1016/j.ijprt.2017.09.004, License: CC BY-NC-ND 4.0, September 2017.
- **Mohammad Ali Khasawneh**, Laboratory Study on the Frictional Properties of HMA Specimens Using a Newly Developed Asphalt Polisher, International Journal of Civil Engineering, 15(7), 1007-1017, DOI: 10.1007/s40999-017-0186-7, 2017.
- **Mohammad Ali Khasawneh**, Macrottexture characterisation of laboratory-compacted hot-mix asphalt specimens using a new asphalt polishing machine, International Journal of Road Materials and Pavement Design, DOI: DOI: 10.1080/14680629.2016.1261727, 2016, published online.
- Khalid A. Ghuzlan, Bashar H. Al-Omari and **Mohammad Ali Khasawneh**, Parking Demand for Residential Apartment Buildings, Institute of Transportation Engineers, submitted for publication.
- **Mohammad Ali Khasawneh**, Mamoud Smadi and Habtamu Zelelew, Investigation of the Factors Influencing Wavelet-Based Macrottexture Values for HMA Pavements, International Journal of Road Materials and Pavement Design, DOI: 10.1080/14680629.2015.1120229, 2015, published online.
- **Mohammad Ali Khasawneh**, The Prediction of LWST Values from DFT and CTM Measurements for Flexible Pavements using Linear and Nonlinear Regression Analyses, Jordan Journal of Civil Engineering, September 2015, Vol. 9 No. 4, pp. 487-498.
- **Mohammad Ali Khasawneh**, Characterization of Asphalt Pavement Surfaces using Torque Measurements, International Journal of Pavement Engineering, DOI: 10.1080/10298436.2015.1065986, 2015, published online.
- Habtamu Zelelew, **Mohammad Ali Khasawneh** and Ala Abbas, Wavelet-based Characterization of Asphalt Pavement Surface Macro-texture, International Journal of Road Materials and Pavement Design, 2014, Vol. 15, No. 3, pp. 622-641.
- **Mohammad Ali Khasawneh** and Robert Y. Liang, Air Void Effect on Frictional Properties of Existing Asphalt Pavement Surfaces, International Journal of Pavements, 2011, Vol. 10, No. 1-2-3, pp. 62-71.
- **Mohammad Ali Khasawneh** and Robert Y. Liang, Temperature Effect on Frictional Properties of HMA at Different Polishing Stages, Jordan Journal of Civil Engineering, January 2012, Vol. 6 No. 1, pp. 39-53.
- Liang, R. Y., Rabab'ah, S., and **Mohammad Ali Khasawneh**, Predicting Moisture-Dependent Resilient Modulus of Cohesive Soils Using Soil Suction Concept, Journal of Transportation Engineering, ASCE, January 2008, vol. 134, No. 1, pp. 34-40.

Peer-Reviewed Papers in Conference Proceedings

- **Mohammad A. Khasawneh**, Introducing Principles of Land Surveying by Assigning a Practical Project, International Conference on Building Science and Engineering, ICBSE 2016, New York, USA, 6-7 June 2016.
- **Mohammad A. Khasawneh**, Polishing Machine Based on High-Pressure Water Jet, International Conference on Building Science and Engineering, ICBSE 2015, New York, USA, 4-5 June 2015.
- **Mohammad A. Khasawneh**, Estimation of Asphalt Pavement Surfaces using Image Analysis Technique, International Conference on Building Science and Engineering, ICBSE 2014, New York, USA, 5-6 June 2014.
- **Mohammad Ali Khasawneh** and Mohammad Obadat, Using DARWin 3.1 in Undergraduate Pavement Design Courses, ASEE Annual Meeting, Atlanta, Georgia, June 2013.
- **Mohammad Ali Khasawneh** and Mohammad Obadat, Incorporating Highway Capacity Software in Undergraduate Teaching of Transportation Courses, ASEE North Central Conference, Columbus Ohio, March 2013.
- Mohammad Obadat and **Mohammad Ali Khasawneh**, Using Turning Point Technology (Clickers) in Teaching Engineering Statics, ASEE Gulf Southwest Conference, Arlington, Texas, March 2013.
- Ahmad Abdel-Mohti and **Mohammad Ali Khasawneh**, Teaching Finite Element Analysis in Undergraduate Courses, ASEE North Central Conference, Ada, Ohio, March 2012.
- **Mohammad Ali Khasawneh** and Robert Y. Liang, Laboratory Study of Air Void and Temperature Effects on HMA Friction Properties, 5th International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, June 1st – 3rd 2011, pp. 481-490.
- **Mohammad Ali Khasawneh** and Robert Y. Liang, Aggregate Blending to Improve Skid Resistance, 5th International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, June 1st – 3rd 2011, pp. 1185-1194.
- Robert Y. Liang, **Mohammad Ali Khasawneh** and Madhar Taamneh, Accelerated Laboratory Polishing Device for Hot Mix Asphalt, GeoShanghai international conference, 2010.
- **Mohammad Ali Khasawneh**, and Liang, R. Y., Correlation Study between Locked Wheel Skid Trailer and Dynamic Friction Tester, CD-ROM Conference Proceeding, Transportation Research Board, National Research Council, Washington, D.C., 2008, 27p.
- Liang, R. Y., Abu Alfoul, B., and **Mohammad Ali Khasawneh**, Laboratory Investigation of Anisotropic Behavior of HMA, Conference Proceeding of 2006 International Conference on Perpetual Pavement, Columbus, Ohio, September 2006, 14p.

V. Graduate Students Supervision

Ongoing M.Sc. Theses

- Assessing the Use of Ceramic fibers as Modifiers to Enhance Physical and Rheological Properties of Bitumen
- Investigation of the Bond Strength at the Asphalt-Aggregate Interface

- Comparative Laboratory Evaluation of Macrotexture Depth and Surface Friction of SuperPave Mixes at Different NMAS and Gradations
- Experimental and Statistical Evaluation of Different Penetration Grades of Asphalt Binders Treated with Different Rejuvenators
- Experimental and Statistical Investigation of the Combined Effect of Various Modifiers on the Physical and Rheological Properties of Asphalt Cement
- Investigating Key Factors Influencing the Severity of Car Accident Injury on American Roads Using Supervised Machine Learning Techniques
- Assessment of the Vehicular Speed at Right-Turn Roadways of Signalized Intersections
- Effect of On-Street Parking and Pedestrian Crossing on Through Traffic in Jordan

Past M.Sc. Theses

- Rheological Properties of Asphalt Binder Modified by SBS, Polyethylene or Lime
- Effect of using Carbon Nanotubes on Rheological Properties of Asphalt Binder Used in Jordan
- Evaluation of Traffic Accidents in Jordan using Time Series Analysis and Other Analytical Techniques
- The Development of Travel Time and Delay Contour Map for the City of Irbid
- Turbo Roundabout Usage in Lieu of Conventional Roundabouts for the Jordanian Traffic Conditions
- Static Creep of FORTA-FI Fiber-Reinforced Asphalt Mixtures Under Different Compactive Efforts

VI. Selected Presentations

Paper Presentations

- Parametric Sensitivity Analysis of AASHTO Rigid Pavement Design Equation, 4th International Conference on Computational and Experimental Science and Engineering, ICCES-2017, 7th October 2017.
- International Conference on Building Science and Engineering, ICBSE 2016, New York, USA, 4th June 2016.
- International Conference on Building Science and Engineering, ICBSE 2015, New York, USA, 4th June 2015.
- International Conference on Building Science and Engineering, ICBSE 2014, New York, USA, 6th June 2014.
- Using DARWin 3.1 in Undergraduate Pavement Design Courses, ASEE Annual Meeting, Atlanta, Georgia, June 2013.
- Laboratory Study of Air Void and Temperature Effects on HMA Friction Properties, 5th International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, June 1st – 3rd 2011.
- Aggregate Blending to Improve Skid Resistance, 5th International Conference on Bituminous Mixtures and Pavements, Thessaloniki, Greece, June 1st – 3rd 2011.

- Correlation Study between Locked Wheel Skid Trailer and Dynamic Friction Tester, Transportation Research Board, National Research Council, Washington, D.C., 2008.
- Laboratory Investigation of Anisotropic Behavior of HMA, International Conference on Perpetual Pavement, 2006.

Other Presentations

- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Akron, Ohio, October, 01 2007.
- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Columbus, Ohio, August, 24 2007.
- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Akron, Ohio, May, 24 2007.
- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Akron, Ohio, January, 22 2007.
- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Akron, Ohio, March, 23 2006.
- Continuing Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio, Akron, Ohio, February, 1 2006.

VII. Internal and External Grants

Internal Grants

- Principal Investigator, “TraffiCountApp For iPhone and iPad”, Deanship of Research at Jordan University of Science and Technology, under development.
- Principal Investigator, “Assessing the Use of Ceramic fibers as Modifiers to Enhance Physical and Rheological Properties of Bitumen”, Deanship of Research at Jordan University of Science and Technology (\$7,200.00, December 2017).
- Principal Investigator, “Investigation of the Bond Strength at the Asphalt-Aggregate Interface”, Deanship of Research at Jordan University of Science and Technology (\$12,200.00, December 2017).
- Principal Investigator, “Rheological Properties of Modified Asphalt”, Deanship of Research at Jordan University of Science and Technology (\$4,750.00, May 2015).
- Principal Investigator, “The Development of Highway Design and Traffic Analysis Manual”, Undergraduate Course Development Grant at Ohio Northern University (\$1,500.00, June, 2013).
- Principal Investigator, “The Development of MS project 2010 Software Manual”, Undergraduate Course Development Grant at Ohio Northern University (\$1,500.00, June, 2013).
- Principal Investigator, “The Development of Pavement Analysis and Design Manual”, Undergraduate Course Development Grant at Ohio Northern University (\$1,500.00, June, 2013).
- Principal Investigator, “Prediction of Asphalt Pavement Surface Characteristics using Torque Measurements”, Summer Research Stipend at Ohio Northern University (\$6,500.00, June, 2012).

- Principal Investigator, “The Development of a Highway Materials Laboratory Manual”, Undergraduate Course Development Grant at Ohio Northern University (\$1,500.00, June, 2011).
- Principal Investigator, “Laboratory Study of Air Void and Temperature Effects on HMA Friction Properties”, Summer Research Stipend at Ohio Northern University (\$6,500.00, June, 2010).

External Grants

- Principal Investigator, “Comparison of the Empirical and the Mechanistic-Empirical Flexible Pavement Design Methods”, King Abdullah II Fund for Development (KAJD), 2017, (\$7,200.00).
- Principal Investigator, “Effectively Collaborate in a Team Setting and apply Critical and Creative Thinking to Ambiguous Problems”, Course Revision, Kern Entrepreneurship Education Network (KEEN), 2012, (\$2,000.00).
- Principal Investigator, “Effectively Collaborate in a Team Setting and Effectively Manage Projects through Appropriate Commercialization or Final Delivery Process”, Course Module Development, Kern Entrepreneurship Education Network (KEEN), 2012, (\$1,000.00).
- Co-Principal Investigator, “Resilient Modulus Predictive Models for Ohio Granular Base and Subgrade”, Ohio Department of Transportation, 2009.
- Co-Principal Investigator, “Long Term Validation of an Accelerated Polishing Test Procedure for HMA Pavements”, Ohio Department of Transportation, 2009, (\$278,000.00, 2009).
- Co-Principal Investigator, “Continued Investigation of Polishing and Friction Characteristics of Limestone Aggregates in Ohio”, Federal highway Administration and Ohio Department of Transportation, 2006, (\$239,023.00, 2005, additional grant \$58,000.00).

VIII. Skills

Computer Skills

- Drawing Software (AutoCAD).
- Transportation Software (HCS 2010, HCS+, AutoCAD Civil 3D, and Synchro/SimTraffic).
- Pavement Software (DARWinME, DARWin 3.1, MEPDG, StreetPave 12, WINPASS 12, RCCPave, EICM 3.0, KENLAYER, KENPAVE, DFT, and CTM).
- Geotechnical Software (GEO-SLOPE, STABLE, LPILE, GROUP, SHAFT)
- Finite Element Software (ANSYS).
- Programming (Matlab and C++).
- Statistical Software (R, SPSS, MINITAB, SAS, JMP, CurveExpert, and staterunch).
- Mechanics Software (MDSolid)
- Project Management (MS Project 2010)

Communication Skills

- Excellent communication skills and very good in teamwork environment.

IX. Honors/Awards

- National Center for Asphalt Technology (NCAT) Professors Training Course in Highway Materials Scholarship, 2011 (\$2,000.00).
- American Society of Civil Engineering (ASCE) Excellence in Civil Engineering Education (ExCEED) 2010 Teaching Fellow (\$4,500.00).
- Flexible Pavements of Ohio Graduate Asphalt Scholarship, 2008 (\$2,200.00).
- Eisenhower Graduate Research Fellowship in Transportation Engineering, Federal Highway Administration, 2007 (\$1,500.00).

X. Registration

- Professional Engineer (P.E.), Ohio 2012 (registration #: 76806)
- Engineer in Training (E.I.T.) or Fundamentals of Engineering, Ohio 2004

XI. Professional Affiliations

- Associate Member, American Society of Civil Engineers, ASCE
- Member, American Society for Engineering Education, ASEE
- Member, Institute of Transportation Engineers, ITE
- Affiliate member, American Concrete Pavement Association, ACPA
- Member, Jordan Engineers Association, JEA
- Friend of the Geometric Design committee, AFB10, TRB
- Friend of the Surface Properties – Vehicle Interaction committee, AFD90, TRB
- Friend of the Characteristics of Asphalt-Aggregate Combinations to Meet Surface Requirements committee, AFK40, TRB
- Friend of the Full-Scale Accelerated Pavement Testing committee, AFD40, TRB
- Friend of the Rigid Pavement Design committee, AFD50, TRB
- Friend of the Flexible Pavement Design committee, AFD60, TRB
- Friend of the Concrete Materials and Placement Techniques committee, AFN40, TRB
- Friend of the Geosynthetics committee, AFS70, TRB
- Friend of the Characteristics of Nonasphalt Components of Asphalt Paving Mixtures committee, AFD60, TRB

REFERENCES

- 1. Robert Liang, Ph.D. PE.** Professor and Chairperson of School of Engineering, University of Dayton
Tel: (937) 229-3847
Mailing Address: Kettering Laboratories Room 422
300 College Park
Dayton, OH 45469
E-mail: rliang@uakron.edu; rliang1@udayton.edu
Relationship: Prof. Liang is my M.Sc. and Ph.D. advisor. I took several advanced courses in geotechnical engineering with prof. Liang. I helped Prof. Liang teach the advanced course on design of earth retaining structures.
- 2. Wasim Barham, Ph.D. P.E.** Associate Professor of Civil Engineering, Southern Polytechnic State University
Tel: (678) 915-3946
Mailing Address: Southern Polytechnic State University
1100 South Marietta Parkway
Building M, Room M160A
Marietta, GA 30060
Email: wbarham@spsu.edu
Relationship: Colleague in the Civil Engineering Department at Jordan University of Science and Technology during his visiting professor year at JUST.
- 3. Ghazi Al-Khateeb, Ph.D.** Associate Professor of Civil Engineering, Jordan University of Science and Technology
Tel: (+962)2-7201000 Ext: 22129
Mailing Address: Jordan University of Science and Technology
P.O.Box 3030, Irbid 22110, Jordan
Tel.: + 962 (0) 2 7201000 (ext. 22129)
Fax: + 962 (0) 2 7095123
Email: ggalkhateeb@just.edu.jo
Relationship: I taught with Dr. Ghazi Pavement Materials and Pavement Design course and co-advised MSc student at Jordan University of Science and Technology.
- 4. Jamal Nusairat, Ph.D. PE. ,** Geotechnical Group Manager
Tel: (614) 586-0642 and (614) 595-3537
Mailing Address: E.L. Robinson Engineering
1801 Watermark Drive, Suite 310
Columbus, OH 43215
E-mail: jamal@elrobinson.com
Relationship: I worked with Dr. Nusairat on several projects including instrumentation and lateral load testing of drilled shafts, slope monitoring using inclinometers, and laboratory testing of soils and rock. I also helped Dr. Nusairat to review geotechnical reports and design shallow and deep foundations to support retaining walls and bridges.

- 5. Ala R. Abbas, Ph.D.** Professor of Civil Engineering, University of Akron
Tel: (330) 972-8242
Mailing Address: ASEC Room 209D, Dept. of Civil Engineering,
The University of Akron,
Akron, OH 44325-3905.
E-mail: abbas@uakron.edu
Relationship: I have helped Dr. Abbas in teaching the Geotechnical Engineering Lab. Dr. Abbas has also been very helpful during my research. Dr. Abbas's expertise is in the field of transportation/pavement engineering.
- 6. Farhad Reza, Ph.D. PE.,** Associate Professor of Civil Engineering, Minnesota State University
Tel: (507) 389-5081
Mailing Address: Department of Mechanical & Civil Engineering
205 Trafton Science Center E
Minnesota State University
Mankato, MN 56001
E-mail: farhad.reza@mnsu.edu
Relationship: I had worked with Dr. Reza for one year in the Department of Civil Engineering at Ohio Northern University before he left to Minnesota State University.
- 7. Ahmed Mohamed Ali Abdel-Mohti, Ph.D. PE.,** Assistant Professor of Civil Engineering, Ohio Northern University
Tel: (419) 772-2374
Mailing Address: Biggs Room 105, Dept. of Civil Engineering,
Ohio Northern University,
Ada, OH 45810.
E-mail: a-abdel-mohti@onu.edu
Relationship: I have known Dr. Abdel-Mohti for two years now; he is my colleague in the Civil Engineering Department at Ohio Northern University.
- 8. David Powers, PE.** Asphalt Engineer - Industry, Specifications, Testing & QAR,
Ohio Department of Transportation
Tel: (614) 275-1387
Mailing Address: Ohio Department of Transportation
Office of Materials Management
1600 West Broad Street
Columbus, Ohio 43223.
E-mail: david.powers@dot.state.oh.us
Relationship: Mr. David Powers is the ODOT liaison of the research project that my Ph.D. is focused on. I have organized many meetings with Mr. Powers to discuss the progress of the research project and any modifications that could enhance the anticipated outcome of this research.