

CURRICULUM VITAE OF PROFESSOR DR. JAVED BARI, PE

Name: JAVED BARI
Position: Professor and Chair
Department of Civil and Environmental Engineering (CEE)
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SUMMARY

- Obtained Ph.D. and M.S. degrees in Civil Engineering from Arizona State University, USA.
- Obtained B.S. degree in Civil Engineering from BUET.
- Have 21 years' professional/corporate/research experience that includes 15 years' active Civil Engineering teaching experience in universities of Bangladesh and USA.
- Registered Professional Civil Engineer (P.E.) in USA (have an active license).
- Renowned Transportation Engineering/Materials expert of the South-West region of USA.
- Enlisted Consultant of the World Bank and Asian Development Bank.
- In Bangladesh, the only first-hand expert on the new AASHTO Mechanistic-Empirical Pavement Design Guide (MEPDG) and its software. I was a key researcher in the team of researchers that developed this guide and its software at Arizona State University, USA.
- Have many peer-reviewed journal and conference papers including many publications in prestigious international on Civil Engineering journals such as ASCE, TRB, AAPT, ASC etc.
- Conducted numerous advanced research and completed many sponsored projects worth US\$ 2 million and consultancy projects worth US\$ 417.6 million.
- Life Fellow of Institute of Engineers, Bangladesh (IEB).

EDUCATIONAL QUALIFICATIONS

- **Ph.D. in Civil Engineering:** *Major in Transportation and Geotechnical Engg.* Arizona State University (ASU), Tempe, Arizona, USA. 2005. GPA = 3.63/4.00.
- **Master of Science (M.S.) in Civil Engineering:** *Major in Transportation and Geotechnical Engg.* Arizona State University, Tempe, Arizona, USA. 2001. GPA = 3.43/4.00.
- **Master of Engineering (M.Engg.):** *Major in Environmental Engg.* Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh. 1999. All course works and fieldwork of project were complete. Final project report was pending as I went to USA.
- **Bachelor of Science (B.S.) in Civil Engineering:** *Major in Structural Engg.* Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh. 1993. First Class.

PROFESSIONAL REGISTRATION

- Licensed Professional Civil Engineer (P.E.) registered in USA. Have active license.
- Life Fellow of Institute of Engineers, Bangladesh (IEB).

PROFESSIONAL AFFILIATIONS

- Member of American Society of Civil Engineers (ASCE).
- Member of Institute of Transportation Engineers (ITE), USA.
- Reviewer of technical papers of ASCE publications.
- Member of and contributor to several U.S. National and Arizona State committees on Transportation Engineering.

TEACHING EXPERIENCES

| Duration | Position/ Organization | Experiences and Achievements |
|------------------------------------|---|---|
| March 1, 2015 to Present | Professor and Chair, Dept. of Civil & Environmental Engg., NSU, and Member of Syndicate, NSU | <ul style="list-style-type: none">- Manage the CEE departmental administrative works including managing faculty and staff.- As a member, effectively participate in Syndicate Meetings of NSU.- Teach/conduct/manage classes, labs & exams.- Mentor students.- Initiate and direct researches and various projects.- Work in various central and departmental committees. |
| September 1, 2013 to Present | Associate Professor, Dept. of Civil & Environmental Engg., NSU | <ul style="list-style-type: none">- Taught civil engineering courses.- Conducted/managed classes, labs & exams.- Mentored students.- Initiated and directed researches and various projects.- Worked in various central and departmental committees on accreditation, curriculum, strategic planning, etc. |
| January 3, 2011 to August 31, 2013 | Professor, Dept. of Civil Engg., IUBAT; and Director, South Asian Disaster Management Center (SADMC), IUBAT | <ul style="list-style-type: none">- Taught civil engineering courses.- Conducted/managed classes, labs & exams.- Mentored students in research and practicum.- Initiated and directed researches and projects.- Worked as the Task Force Chairperson to establish an Engineering Graduate Program at IUBAT.- As the Chairperson of the committee to evaluate research and publications for potential rewards, installed a highly acclaimed "Publication Reward System" policy at IUBAT.- As the Director, managed the portfolio of South Asian Disaster Management Center (SADMC) that included conducting training sessions, lectures, |

| Duration | Position/ Organization | Experiences and Achievements |
|---------------------------------------|---|---|
| | | seminars, meetings, etc. |
| January 15, 2006 to December 31, 2010 | Faculty (Adjunct Professor), Arizona State University, USA | <ul style="list-style-type: none"> - Taught civil engineering courses. - Conduct/manage classes, labs & exams. - Mentored/supervised graduate students. - Managed lab assistants and insured that all equipments are calibrated & operating safely. |
| January 15, 2000 to May 15, 2005 | Sr. Teaching Associate (full-time), Arizona State University, USA | <ul style="list-style-type: none"> - Taught civil engineering courses. - Conducted/managed classes, labs & exams. - Managed lab assistants and insured that all equipments are calibrated & operating safely. |

CORPORATE/INDUSTRIAL EXPERIENCES

| Duration | Position/ Organization | Experiences and Achievements |
|---------------------------------------|---|--|
| May 7, 2005 to December 27, 2010 | Sr. Pavement Design and Development Engineer (Team Leader), Arizona Dept. of Transportation (ADOT), USA | <ul style="list-style-type: none"> - Conducted research on advanced pavement design, lab testing, recycling & traffic loadings. - Provided flexible and rigid pavement structural and materials design services, and review design concept reports (DCR), geotechnical design report, cost estimates, plans and bid documents of federal, state, local government and privately funded highway projects throughout the State. - Managed a team of transportation and general professionals, reviewed and approved their work products, and provide leadership, training and coaching to them. |
| January 19, 1999 to December 26, 1999 | Assistant Engineer, Roads & Highways Department, Bangladesh | <ul style="list-style-type: none"> - Supervised and inspected civil construction and maintenance works of roads, bridges, drainage structures and traffic control systems. - Analyzed accident data and reviewed traffic safety reports of various projects. |
| February 28, 1998 to January 18, 1999 | Assistant Engineer, Public Works Department, Bangladesh | <ul style="list-style-type: none"> - Supervised engineering survey of different civil engineering projects across the country. - Supervised construction and maintenance works of deep foundations and buildings. |
| January 2, 1994 to February 27, 1998 | Upazila Engineer, Local Govt. Engg. Department, Bangladesh | <ul style="list-style-type: none"> - Supervised construction and maintenance works of rural roads, bridges, drainage structures, public buildings, primary schools, and growth centers. - Prepared and managed budget, project proposals, estimates, bid documents, and selected contractors. |

RESEARCH EXPERIENCES

Academic Research Experiences:

Ph.D. Research (2002 - 2005): Developed a new revised version of the famous “Witczak E* Model” (dynamic modulus predictive model) for hot mix asphalt mixtures and new predictive models for the viscosity and complex shear modulus of asphalt binders for use with the globally known new AASHTO Mechanistic-Empirical Pavement Design Guide (MEPDG). World-famous professor, writer and researcher Dr. Matthew W. Witczak was my Ph.D. supervisor and leader of the U.S. National research team that has developed the new AASHTO MEPDG and its software. I was a key member of that research team.

M.S. Research (2000 - 2001): Characterized the typical asphalt binders used in Arizona through the most advanced laboratory tests and analyses under supervision of Professor M. W. Witczak.

M.Engg. Research (1997-1999): Conducted a survey among the citizens of Dhaka and analyzed the data to find out the willingness to pay of the citizens of the Dhaka Metropolitan City for the reduction of air pollution from automobiles under the supervision of Prof. Dr. Habibur Rahman and co-supervision of Prof. Dr. Jobair Bin Alam at Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh.

B.Sc. Research (1992 - 1993): Developed a FORTRAN computer programme capable of analysing design and performance of mat foundations using finite difference technique.

Professional Research Experiences (Externally and Internally Funded Projects):

2011 - Present: Advised/Mentored Civil Engineering students at NSU and IUBAT to accomplish their Practicum and researches. I am also conducting some independent researches.

2009 - 2011: Technical Advisor of ADOT Research Project #SPR-674 “Engineering Properties of Recycled ARFC overlays”. **Budget** = USD 50,000.

2008 - 2011: Champion and Researcher of ADOT Research Project #SPR-610 “Development of AASHTO DARWin-ME Software for the MEPDG”. **Budget** = USD 50,000.

2008 - 2010: Technical Advisor of ADOT Research Project #SPR-631 “Evaluation of Warm Mix Technology for Use in Asphalt Rubber Asphalt Concrete Friction Courses”. **Budget** = USD 150,000.

2008 - 2010: Champion and Researcher of ADOT Research Project #SPR-672 “Traffic Data Input System for ADOT”. **Budget** = USD 100,000.

2007 - 2010: Champion and Technical Advisor of ADOT Research Project #SPR-606 “Calibration and Validation of MEPDG for the State of Arizona”. **Budget** = USD 300,000.

2007 - 2010: Technical Advisor of ADOT Research Project #SPR-628 “Maintenance Strategies for the State of Arizona”. **Budget** = USD 100,000.

2008 - 2011: Co-Principal Investigator of the project titled “Implementation of Superpave Binder and Asphalt Mix Specifications to Improve Pavement performance in Pakistan” under the Joint Pakistan-USA Science and Technology Cooperative Program being conducted jointly by the

Michigan State University, USA and the University of Engineering and Technology, Lahore, Pakistan. **Budget** = USD 600,000.

2003 - 2004: Sole researcher of the ASU-NLA joint ventured research project “Development of a Master Curve (E*) Database for Lime Modified Asphaltic Mixtures”. This project was funded by National Lime Association (NLA), USA. **Budget** = USD 50,000.

2002 - 2006: Main researcher of the ASU-ADOT joint ventured research project “Performance Evaluation of Asphalt Rubber Mixtures in Arizona”. The project was funded by ADOT, USA. **Budget** = USD 50,000.

2002: Sole researcher of the research titled “Application of Performance Based System in the Pavement Contracting”. This independent study was conducted at ASU in association with its School of Construction.

2002: Sole researcher of the research titled “Developed a standard procedure for achieving target air void content of gyratory HMA specimens (provisional protocol)”. This independent study was conducted at ASU in conjunction with the NCHRP 9-19 Project.

2001 - 2005: Key researcher of Subtasks C4b, C4c, C4e and C5 included in Task C (Field Validation of the Simple Performance Test) of NCHRP 9-19 Project (Superpave Support and Performance Models Management). This multi-year U.S. National project funded by the National Cooperative Highway Research Program, USA. **Budget** = USD 250,000.

2001 - 2003: Key researcher of the development of the AASHTO test protocol TP 62-03, titled “Determining Dynamic Modulus of Hot-Mix Asphalt Concrete Mixtures”. The research was conducted at ASU in conjunction with the NCHRP 9-19 Project. **Budget** = USD 50,000.

2000 - 2006: Key researcher of projects #2, #3, #5 and #7 of ADOT’s large long-term research program #SPR-402 (Development of Performance Related Specifications for Asphalt Pavements in the State of Arizona). **Budget** = USD 200,000.

2000 - 2004: Sole researcher of the ASU-ADOT joint ventured research titled “ADOT Crumb Rubber Modified Asphalt Cements Characterization Project”. This multi-year research was funded by ADOT, USA. **Budget** = USD 50,000.

SELECTED EXPERIENCES AS ENLISTED CONSULTANT

July 23, 2013 to Present

Technical Consultant, World Bank, Bangladesh Resident Mission. For RTIP-II (Second Rural Transport Improvement Project), Project Budget: US\$417 Million, Duration: 2013 to 2016.

April 1, 2014 to Present

Lead Structural Assessor, Bureau Veritas (Bangladesh) Private Limited, 89/2, West Panthopath, Dhaka-1205.

June 16, 2008 to June 30, 2011

Co-Principal Investigator (Consultant), “Implementation of Superpave Binder and Asphalt Mix Specifications to Improve Pavement performance in Pakistan Project” under the Joint Pakistan-USA Science and Technology Cooperative Program being conducted jointly by the Michigan State University, USA and the University of Engineering and Technology, Lahore, Pakistan. Budget = USD 600,000.

ADVANCED LAB TESTING EXPERIENCES

August 2003 - April 2005: Personally conducted and directed all lab testings included in the “Civil Engineering Materials”, “Bituminous Materials” and “Pavement Design and Analysis” courses of Arizona State University. Tests include compressive, tensile and flexural strength of concrete, steel, aluminium and wood, mix design of PCC and AC, aggregate gradation, Marshall and SuperPave test, conventional and Superpave asphalt binder testing etc.

January 2001 - April 2005: Personally conducted all asphalt concrete Dynamic Modulus (E*) testing and many Repeated Load Permanent Deformation (Flow Number and Flow Time) testing, analyzed the test data and wrote technical papers for the following research projects: (i) Projects C4b, C4c, C4e and C5 of NCHRP 9-19 Research Program, (ii) ADOT-ASU Research Program, (iii) NLA-ASU Research Program, etc.

January 2000 - December 2004: Personally conducted all asphalt cement binder testing, analyzed data and wrote technical paper for “ADOT AC Binder Characterization Project” and “ADOT Crumb Rubber Modified Asphalt Cements Characterization Project”.

January 2000 - December 2004: Calibrated and maintained numerous advanced testing machines including various universal testing machines (UTM) used for E*, IDT, Fn and Ft testing, Bending Beam Rheometer, Rotational Viscometer, etc.

RESEARCH INTERESTS:

- Highway materials characterization
- Traffic and crash data analysis
- Pavement and geotechnical design and analysis
- Civil and construction engineering materials
- Transportation economics
- Recycling of highway materials.

PROFESSIONAL PUBLICATIONS

INTERNATIONAL JOURNAL PAPERS:

1. Syed Waqar Haider, M. Waseem Mirza, Ashvini K. Thottempudi, **Javed Bari**, and Gilbert Y. Baladi. “Characterizing Temperature Susceptibility of Asphalt Binders Using Activation Energy for Flow”. Journal of American Society of Civil Engineers (ASCE). Transportation & Development Institute (T&DI) Paper No. 10.1061/41167(398)48, ISBN 978-0-7844-1167-4, USA, March 2011.

2. Syed Waqar Haider, M. Waseem Mirza, Ashvini K. Thottempudi, **Javed Bari**, and Gilbert Y. Baladi. “Effect of Test Methods on Viscosity Temperature Susceptibility Characterization of Asphalt Binders for the Mechanistic-Empirical Pavement Design Guide”. Journal of American

Society of Civil Engineers (ASCE). Transportation & Development Institute (T&DI) Paper No. 10.1061/41167(398)47, ISBN 978-0-7844-1167-4, USA, March 2011.

3. **Javed Bari** and M.W. Witzak. “New Predictive Models for the Viscosity and Complex Shear Modulus of Asphalt Binders for Use with the Mechanistic-Empirical Pavement Design Guide”. Transportation Research Record No. 2001, pp. 9-19. Transportation Research Board, National Research Council, Washington, DC, USA, 2007.

4. **Javed Bari** and M.W. Witzak. “Development of a New Revised Version of the Witzak E* Predictive Model for Hot Mix Asphalt Mixtures.” Association of Asphalt Paving Technologists (AAPT), Savannah, Vol. No. 75, pp. 381-423. AAPT, White Bear Lake, MN, USA, 2006.

5. **Javed Bari** and M.W. Witzak. “Evaluation of the Effect of Lime Modification on the Dynamic Modulus Stiffness of Hot-Mix Asphalt: Use with the New Mechanistic-Empirical Pavement Design Guide.” Transportation Research Record No. 1929, pp. 10-19. Transportation Research Board, National Research Council, Washington, DC, USA, 2005.

INTERNATIONAL CONFERENCE PROCEEDINGS:

1. **Javed Bari**. “ADOT’s Mechanistic-Empirical Pavement Design Guide Implementation”. ProCEEings of the Arizona Pavement, Materials & Transportation Conference, Tempe, Arizona, USA. February 3, 2009.

2. **Javed Bari**. “Effect of Lime Modification on Dynamic Modulus Stiffness of HMA for Use with the New NCHRP 1-37A M-E Pavement Design Guide Procedures”. ProCEEings of the Arizona Institute of Transportation Engineers (AZITE), March 2005. Won the Best AZITE Graduate Transportation Paper Award in 2005.

3. Dean T. Kashiwagi, **Javed Bari**, and Bevan Sullivan. “Application of Performance Based System in the Pavement Contracting”. Associated Schools of Construction (ASC), ProCEEings of the 39th Annual Conference, pp 303-314, Clemson, South Carolina, April 8-12, 2003. Nominated as ASC 2003 best paper.

NATIONAL (USA) CONFERENCE PAPERS:

1. “Inputs and Models for Asphalt Rubber Mixes and Binders in MEPDG”. Written and presented by Dr. Bari in the South-West MEPDG (Mechanistic-Empirical Pavement Design Guide) User Group Conference (comprised of ten U.S. State DOTs and AASHTO), Las Vegas, Nevada, USA. March 23-24, 2009.

2. “ADOT’s Mechanistic-Empirical Pavement Design Guide Implementation”. Written and presented by Dr. Bari in the Arizona Pavement, Materials & Transportation Conference, Tempe, Arizona, USA. February 3, 2009.

3. “Effect of Lime Modification on Dynamic Modulus Stiffness of HMA for Use with the New NCHRP 1-37A M-E Pavement Design Guide Procedures”. Written and presented by Dr. Bari in

the Arizona Institute of Transportation Engineers Annual Conference, Tempe, Arizona, USA. April 27, 2005.

AWARD WINNING PUBLICATIONS:

1. **Javed Bari**. “Effect of Lime Modification on Dynamic Modulus Stiffness of HMA for Use with the New NCHRP 1-37A M-E Pavement Design Guide Procedures”. Won the “AZITE Graduate Transportation Paper” Award in 2005 given by the Arizona Institute of Transportation Engineers (AZITE), March 2005.
2. Dean T. Kashiwagi, **Javed Bari**, and Bevan Sullivan. “Application of Performance Based System in the Pavement Contracting”. Nominated as “ASC 2003 Best Paper” by Associated Schools of Construction (ASC) in its 39th Annual Conference, Clemson, South Carolina, April 8-12, 2003.

RESEARCH REPORTS:

1. Kamil E. Kaloush, Aleksander Zborowski, **Javed Bari**, Krishna P. Biligiri, and Maria C. Rodezno. “Performance Evaluation of Asphalt Rubber Mixtures in Arizona – Two Guns and Jackrabbit Projects”. Arizona Department of Transportation Research Report. Arizona State University, Tempe, AZ, USA, March 2006.
2. M.W. Witczak and **Javed Bari**. “Flow Number (Fn) and Flow Time (Ft) Test Database”. Research Report. Task C (Field Validation of the Simple Performance Test), NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, December 2004.
3. M.W. Witczak and **Javed Bari**. “Development of a Master Curve (E*) Database for Lime Modified Asphaltic Mixtures”. National Lime Association (NLA) Research Report. Arizona State University, Tempe, AZ, USA, July 2004.
4. M.W. Witczak, **Javed Bari**, and Andres Sotil. “Dynamic Modulus (E*) Test and Master Curve Database of HMA Mixtures”. Research Report. Task C (Field Validation of the Simple Performance Test), NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, June 2004.
5. M.W. Witczak, **Javed Bari**, and Andres Sotil. “Dynamic Modulus (E*) Test and Master Curve Database of Arizona HMA Mixtures”. Research Report. Project 3 (ADOT AC Mix Stiffness Characterization Database), Arizona Department of Transportation (ADOT) Project No. SPR-402 (Development of Performance Related Specifications for Asphalt Pavements in the State of Arizona). Arizona State University, Tempe, Arizona, USA, June 2004.
6. M.W. Witczak and **Javed Bari**. “An Evaluation of the Probable Aging Effects of Plant Mixtures Used in the NCHRP 9-19 Project”. Research Report. NCHRP 9-19 Project (Superpave

Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, February 2004.

7. M.W. Witzcak and **Javed Bari**. “Standard Procedure for Achieving Target Air Void Content of Gyrotory HMA Specimens (Provisional Protocol)”. Research Report. Subtasks C4 through C6 (Field Validation of the Simple Performance Test), NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, September 2002.

8. M.W. Witzcak and **Javed Bari**. “Validation Analysis: MnRoad Plant Mixtures Dynamic Modulus (E*) Test Data”. Subtask C5 Report, NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, May 2002.

9. **Javed Bari**. “Comparison of APADS versus MnPave Mechanistic-Empirical Design Procedures”. Independent Research Report. Arizona State University, Tempe, Arizona, USA, April 2002.

10. M.W. Witzcak, **Javed Bari**, and M. M. Quayum. “Sensitivity of Simple Performance Test: Dynamic Modulus (E*)”. Subtask C4b Report, NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, December 2001.

11. M.W. Witzcak, **Javed Bari**, and M. M. Quayum. “Utilization of Full Gyrotory Samples: Dynamic Modulus (E*)”. Subtask C4c Report, NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, December 2001.

12. M.W. Witzcak, **Javed Bari**, Felix Doucet, and M. M. Quayum. “Comparison of Dynamic Complex Modulus Tests in Repeated Load Beam Flexure and Uniaxial Compression Modes”. Subtask C4e Report, NCHRP 9-19 Project (Superpave Support and Performance Models Management), National Cooperative Highway Research Program. Arizona State University, Tempe, Arizona, USA, October 2001.

13. M. W. Witzcak and **Javed Bari**. “ADOT Asphalt Cement Binder Characterization Database - Volume II”. Supplementary to Task 2 Report, Arizona Department of Transportation Project No. SPR-402 (Development of Performance Related Specifications for Asphalt Pavements in the State of Arizona). Arizona State University, Tempe, Arizona, USA, March 2001.

14. M. W. Witzcak, **Javed Bari**, Kamil E. Kaloush, and Terhi K. Pellinen. “ADOT Asphalt Cement Binder Characterization Database”. Task 2 Report, Arizona Department of Transportation Project No. SPR-402 (Development of Performance Related Specifications for Asphalt Pavements in the State of Arizona). Arizona State University, Tempe, Arizona, USA, December 2000.

DISSERTATION/THESIS

Ph.D. Dissertation (at ASU, USA): “Development of a New Revised Version of the Witczak E* Predictive Models for Hot Mix Asphalt Mixtures”. Supervisor: *Dr. Matthew W. Witczak*. Arizona State University, Tempe, Arizona, USA. December 2005.

M.S. Thesis (at ASU, USA): “Investigation of the Rheological Properties of Typical Asphalt Binders Used in Arizona”. Supervisor: *Dr. Matthew W. Witczak*. Arizona State University, Tempe, Arizona, USA. May 2001.

M.Engg. Project (at BUET): “Willingness to Pay of the Citizens of the Dhaka Metropolitan City for the Reduction of Air Pollution from Automobiles”. Supervisor: *Dr. Habibur Rahman*, Co-Supervisor: *Dr. Jobair Bin Alam*. Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh. 1999. Field work complete; final project report pending.

B.Sc. Thesis (at BUET): “Mat Foundation: Finite Difference Approach”. Supervisor: *Dr. Salek M. Seraj*. Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh. November 1993.

RECENT CONFERENCES/WORKSHOPS ATTENDANCE

- Bangladesh University of Engineering and Technology (BUET): Day-long workshop on “Structural Steel” organized by the Department of Materials and Metallurgical Engineering, BUET. June 21, 2013.
- IUBAT–International University of Business Agriculture and Technology, Dhaka, Bangladesh: 3-day Workshop on “Faculty Development” organized by IUBAT. April 16-18, 2013.
- Board of Accreditation for Engineering & Technical Education (BAETE): 3-Day workshop on Outcome-Based Education and Engineering Accreditation Issues, Institute of Engineers, Bangladesh (IEB), Dhaka, Bangladesh. June 9-10, 2012.
- ISAT2010: First International Symposium on Advances in Transport Sustainability, Tempe, Arizona, USA. November 17-19, 2010.
- Arizona Pavement/Materials/Transportation Conference, Tempe, Arizona, USA. November 16-17, 2010.
- American Association of State Highway and Transportation Officials (AASHTO) Open House on “Two-Lift Concrete Paving”, St. Louis, Missouri, USA, September 27-28, 2010.
- South-West MEPDG User Group Meeting at Las Vegas, Nevada, USA. March 2009.
- Arizona Pavement/ Transportation Conference at Tempe, Arizona, USA. February 2009.
- Rocky Mountain Asphalt User Group Annual Conference at Chandler, Arizona. March 2008.
- Arizona Roads and Streets Conference at Tucson, Arizona, USA. February 2008.
- AASHTO Joint Technical Committee Meeting on MEPDG at Irvine, California, USA. April 2007. Represented ADOT.
- Arizona Pavement/Materials Conference at Tempe, Arizona, USA. September 2007.
- TRB (Transportation Research Board) Annual Conference at Washington, DC, USA. January 2007.
- AAPT (Association of Asphalt Paving Technologies) Annual Conference at Savannah, Georgia, USA. May 2006.

- ITE (Institution of Transportation Engineers) Arizona Chapter's annual meeting, April 2005.
- TRB Annual Conference at Washington, DC, USA. January 2005.

UNIVERSITY SERVICES AT NSU AND IUBAT

- NSU ABET Accreditation Committee – Member
- NSU Strategic Planning Committee – Member
- SEPS Strategic Planning Committee at NSU – Member Secretary
- SEPS Curriculum Committee at NSU – Member Secretary
- CEE Strategic Planning Committee at NSU – Member
- CEE Curriculum Committee at NSU – Member
- CEE Lab Development Committee at NSU – Member
- Various other CEE Departmental Committees at NSU – Member
- South Asian Disaster Management Center (SADMC) at IUBAT – Director
- Committee to Improve the English Language Competency of Civil Engineering Students of IUBAT – Convenor
- Task Force on Establishing a Graduate Program (MS and PhD) in Engineering (Civil, Mechanical, CSE and EEE) at IUBAT – Convenor
- Annual Faculty Activity Report (AFAR) Committee at IUBAT – Convenor
- Publication Reward System Committee (PRSC) at IUBAT – Chair
- Bangladesh Government's Disaster Management Training and Awareness Task Force (DMTATF) formed by the Department of Disaster Management – Member

COMMUNITY SERVICES

2005-2010: Co-Founder, Director and Teacher of “Shikor Bangla Language and Culture School”, Arizona State University, Arizona, USA

2000-2010: Co-Founder, two-term President and Executive Member of “Bangladesh Theatre of Arizona” (BTA), Arizona, USA

1987-Present: Co-Founder and Member of “Forum-86” of BUET's H.S.C. Batch of 1986.

1988-1990: Member of “Young Writers' Forum”, Dhaka

1985-1990: Vice-President and Executive Member of Onirban Youth Forum, Dhaka

1985-1987: President of “Dhaka Science Club”, Dhaka

SCHOLARSHIPS

Received merit scholarships/awards throughout the student life, including the Chancellor's Award for outstanding performance in the Secondary School Certificate examination.

FORMAL TRAININGS TAKEN

Carbon Footprint of Pavements, Asphalt Emulsions, Rural Infrastructure Maintenance, Strategic Planning, Performance Measures, Operational Management, Budgeting Process, Incident Command System (ICS), Successful Management of Project Development Process, Project Reference, Managing Employee Performance, Counselling and Disciplining Employees, Leading by Example, Elements of Supervision, MicroStation, First Aid/CPR, EIA Practitioner's Training, Environmental Audit, Environmental Laws, GIS, Foundation Training of Public Employees, etc.

COMPUTER SKILLS

Proficient in using the following computer applications:

- Pavement Design: New Mechanistic-Empirical Pavement Design Guide Software, DarWin, ME-DarWin, Kenlayer and Kenslab.
- Pavement Management: conventional PMS software and ArcView.
- Statistical Analysis: Statistica, Matlab, Minitab and Design Expert.
- CAD: Microstation and AutoCAD.
- Project Management: Primavera and Suretrack.
- Engineering Estimates: HeavyBid Express.
- Programming: FORTRAN and Visual Basic.
- MS Office: MS Word, PowerPoint, Access and Excel.

REFERENCES

Dr. Md. Jahir Bin Alam

Professor and Dean of Engineering Faculty
Shahjalal University of Science and Technology (SUST)
Kumargaon, Sylhet-3114, Bangladesh
Phone: 01712091181 (Mobile); E-mail: jahiralam@yahoo.com, jahir-cee@sust.edu
Reference Type: Professional and personal (Friend and Batch-mate)

Dr A. Z. A. Saifullah

Professor and Chair, Department of Mechanical Engineering
IUBAT–International University of Business Agriculture and Technology
4 Embankment Drive Road, Sector-10, Uttara Model Town, Dhaka 1230
Phone: 01715209705 (Mobile), 8963523-27, Ext-321 (Work); E-mail: d_saifullah@yahoo.com
Reference Type: Professional (Colleague)

Dr. Kamil Kaloush

Associate Professor, Department of Civil and Environmental Engineering
Arizona State University
Tempe, Arizona 85287-5306, USA
Phone: 1-480-965-5509 (Work); E-mail: kaloush@asu.edu
Reference Type: Professional (Ex. Co-researcher and Colleague)

Ms. Sreelatha Gajula

Transportation Engineer, Highway Enhancement for Safety (HES) Team
Arizona Department of Transportation
1615 West Jackson Street, Phoenix, Arizona 85007, USA
Phone: 602-712-6863 (Work), 419-699-7827 (Mobile); E-mail: sgajula@azdot.gov
Reference Type: Professional (Ex. Colleague)