

Résumé of Syed Ashik Ali

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▣ RESEARCH INTEREST

- Rheological and chemical properties of asphalt binder
- Rutting and moisture induced damage of asphalt mixes
- Fillers and aggregates properties and their interaction with binder
- Pavement Design
- Transportation modeling and safety

▣ EDUCATIONAL BACKGROUND

■ *Master's of Science in Civil Engineering*

Institution : University of Oklahoma, Norman, Oklahoma
Research Area: Geotechnical Engineering
GPA obtained: **4.00 (out of 4.00)**
Degree Duration: 2 years

■ *Bachelor of Science in Civil Engineering*

Institution : Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh
Department : Civil Engineering
Position : First Class 1st out of 105 students
Degree Duration: 4 years
Degree awarded: Bachelor of Science in Civil Engineering (B.Sc. Engg. (Civil))

■ *Higher Secondary School Certificate (H.S.C)*

Institution : Rajuk Uttara Model School & College, Dhaka, Bangladesh
Discipline : Science
Degree Duration: 2 years
Degree awarded : Higher Secondary Certificate (H.S.C.)

■ *Secondary School Certificate (S.S.C.)*

Institution: Rani Bilasmoni Govt. Boys' high School, Gazipur, Bangladesh
Discipline : Science
Degree Duration: 10 years
Degree awarded : Secondary School Certificate (S.S.C.)

▣ PROFESSIONAL EXPERIENCE

■ Assistant Professor

December 1st, 2014 – Till now
Department of Civil Engineering, Khulna University of Engineering & Technology (KUET)

■ Lecturer

July 28th, 2011 – November 30th, 2014
Department of Civil Engineering, Khulna University of Engineering & Technology (KUET)

■ **Testing Officer**

July 28th, 2011 – Till now

Consultancy, Research & Testing Services (CRTS), Department of Civil Engineering, Khulna University of Engineering & Technology

□ **TRAINING AND WORKSHOP**

- Participate on 23rd International Course on Transportation Planning & Safety, 03-10 December, 2013, New Delhi, India.
- 4 days training program on “Community Participation and management of Water Supply and Sanitation” arranged by ITN, KUET, Bangladesh.
- An awareness program on Solid Waste Management in Khulna city.

□ **COURSE CONDUCTED EXPERIENCE DURING TEACHING PERIOD**

■ **Lecture on Courses**

Transportation Engineering, Engineering Materials, Numerical Analysis & Computer Programming, Engineering Hydrology

■ **Instruction on laboratory Works**

Sessional on Transportation Engineering, Details of Construction, Sessional on Engineering Materials

■ **Demonstration on Field Works**

- Practical on Surveying
- Study tour on Civil Engineering Construction Projects etc.

□ **AWARDS & SCHOLARSHIPS**

■ ***Awards***

- University Gold Medal for the academic session 2009-2010 for obtaining highest CGPA of Faculty of Civil Engineering at Khulna University of Engineering & Technology.

■ ***B.Sc Engineering Scholarships***

- KUET Merit Scholarship throughout the 4 Year's Study of B.Sc Engineering in Khulna University of Engineering & Technology (2006-2010).
- Scholarship from University Grant Commission (UGC) for first class first position in B.Sc Engineering in Civil Engineering Faculty (2010)

■ ***Merit Scholarships***

- Education Board Scholarship at Higher Secondary level (2004-2005)
- Junior Scholarship at Secondary School level (2002-2003)
- Primary Scholarship at Secondary School level (2000-2002).

□ **PUBLICATIONS**

■ ***Journal Papers***

- i. Rahman A., **Ali, S.A.**, Adhikary S.K. and Hossain Q.S. (2012). “Effect of Fillers on Bituminous Paving Mixes: An Experimental Study”. *Journal of Engineering Science* 03(1), 121-127.
- ii. Nazir M. I., Adhikary S.K., Hossain Q.S. and **Ali, S.A.** (2012). “Pedestrian Flow Characteristics in Khulna Metropolitan City, Bangladesh”. *Journal of Engineering Science* 03(1), 25-31.

■ **Journal Papers (Under Review)**

- i. **Ali, S.A.**, Ghabchi, R., Rani, S., and Zaman, M. (2016). "Characterization of Effect of Polymer Modification, Poly-Phosphoric Acid and Aging on Asphalt Binder Using X-ray Diffraction (XRD)". Submitted to *Construction and Building Materials*.

■ **Conference Papers**

- i. **Ali, S.A.**, Ghabchi, R., Rani, S., and Zaman, M. (2016). "Evaluation of Moisture-Induced Damage of an Asphalt Binder Modified with a Wax-Based Additive". In the proceedings of *12th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, Indian Institute of Technology (IIT) Bombay, India, December 19-21, 2016.
- ii. M.A., Rahman, **Ali, S.A.** and Hossain, Q.S. (2014) "Analysis Of Travel Behavior In Khulna Metropolitan City". In the proceedings of the *2nd International Conference on Civil Engineering for Sustainable Development (ICCESD-2014)*, 331-332.
- iii. **Ali, S.A.**, Ghabchi, R., Rani, S., Zaman, M. and Parker, C. (2016). "A Laboratory Study of Rutting Susceptibility of Asphalt Mix Containing High RAP Content Using Rheological and Performance-based Test Methods". Accepted in the *International Conference on Highway Pavements & Airfield Technology*, Philadelphia, Pennsylvania, will be held on August 27, 2017.
- iv. **Ali, S.A.**, Ghabchi, R., Rani, S., Zaman, M. and Parker, C. (2016). "Rutting Susceptibility Evaluation of RAP-Modified Asphalt using MSCR Method". Accepted in the *15th International Conference of the International Association for Computer Methods and Advances in Geomechanics (15th IACMAG)*, Wuhan, China, will be held on October 19-23, 2017.

■ **Posters**

- i. Rani, S., **Ali, S.A.**, Ghabchi, R., and Zaman, M. (2015). "Superpave® Performance Grading of Oklahoma Asphalt Binder." poster presented at Student Research and Performance Day 2015, held at National Weather Center, the University of Oklahoma, Norman, OK. Date: March 6th, 2015.
- ii. **Ali, S.A.**, Rani, S., Ghabchi, R., and Zaman, M. (2015). "Development of Guidelines Toward Adopting the Multiple Stress Creep Recovery (MSCR) Test Method for Extreme Weather Conditions Prevailing in the Southern Plains." poster presented at 2015 Oklahoma Transportation Research Day, held at the Moore Norman Technology Center, OKC, OK. Date: October 20th, 2015.
- iii. **Ali, S.A.**, Rani, S., Ghabchi, R., and Zaman, M. (2016). "Characterization of Rheological Properties of Polymer and RAP Modified Asphalt Binders Using Multiple Stress Creep and Recovery Method." Poster presented at the Graduate Student Research & Creativity Day, 2016, held at the University of Oklahoma, Norman, OK. Date: March 4th, 2016.
- iv. **Ali, S.A.**, Rani, S., Ghabchi, R., and Zaman, M. (2016). "Evaluation of High Temperature Characteristics of Polymer and RAP Modified Asphalt Binders Using Multiple Stress Creep and Recovery Method." Poster presented at 2016 Oklahoma Transportation Research Day, held at the Moore Norman Technology Center, OKC, OK. Date: October 18th, 2016.
- v. **Ali, S.A.**, Ghabchi, R., Rani, S., and Zaman, M. (2016). "Characterization of Effect of Polymer Modification, Poly-Phosphoric Acid and Aging on Asphalt Binder Using X-ray Diffraction (XRD)". Poster presented at *Transportation Research Record 96th Annual Meeting*, Washington, D.C. Date: January 8-12, 2017.

■ ***Presentations***

- i. **Ali, S.A.**, Arshadi, A., Ghabchi, R., and Zaman, M. (2016). “Field and Laboratory Investigation of Fatigue Performance of Oklahoma Warm Mix Asphalts.” Presented at the *2016 SPTC Summer Symposium*, organized by Southern Plain Transportation Center, held at the Association of General Contractors (AOGC) Conference Center, Oklahoma City. Date: August 10th, 2016.

▣ **MEMBERSHIP**

- Member of Institution of Engineers (IEB), Bangladesh
- Student member of American Soceity of Civil Engineers (ASCE).