**SUDIP BHATTACHARJEE, Ph.D., P.E.**

Associate Professor

Civil Engineering Program

Department of Mechanical and Civil Engineering

Alabama A and M University, Engineering and Technology Building (RM 328)

Email: sudip.bhattacharjee@aamu.edu

Phone: 256-372-4148

Website: <https://sites.google.com/site/sbce0110/>

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**Education**

Ph.D. – Department of Civil and Environmental Engineering, Worcester Polytechnic Institute (WPI), 2005

MSc. (Eng.) – Department of Civil Engineering, Indian Institute of Science, Bangalore, India (IISc), 2001  
B.C.E. – Department of Civil Engineering, Jadavpur University, Calcutta, India

**Appointments**

2012-Present Associate Professor, Alabama A and M University, Huntsville, AL

2006-2012 Assistant Professor, Alabama A and M University, Huntsville, AL

2005-2006 Research Associate, University of New Hampshire, Durham, NH

**Research interests**Reliability based assessment of the impacts of climate change on transportation infrastructure

Reliability analysis of pavement and transportation infrastructure

Developing design code provisions for load and resistance factor based analysis

Transportation material characterization and modeling

Relaxation behavior of dielectric and viscoelastic materials

**Teaching Interests**Transportation Engineering, Pavement Design, Reliability Engineering

**Professional Memberships/Activities**

* Member, American Society of Civil Engineers (ASCE)
* Senate representative to Faculty Senate from Civil Engineering
* Member, CETPS Promotion and Tenure Committee
* Reviewer of the following journals: Transportation Research Record, ASCE Journal of Transportation, Mechanics of Time Dependent Materials, Transports of Institution of Civil Engineers, Construction Materials of Institution of Civil Engineers, International Journal of Pavement Engineering
* Reviewer in NSF proposal review panels.

**Selected Publications**

1. Bhattacharjee, S. (2019). "Effects of Climate Change on Fatigue Performance of Flexible Pavements in North Alabama." Transportation Research Board Annual Meeting, Washington, D.C., Under Review Transportation Research Record.

2. Bhattacharjee, S. (2017). “Incorporating Uncertainties in Flexible Pavement Design.” Transport, Proceedings of the Institution of Civil Engineers, Thomas Telford Ltd, 170(3), 158-170.

3. Bhattacharjee, S. (2016). “Imperfect Preventive Maintenance Strategy for Flexible Pavements Based on Threshold Reliability, Cost Optimization and Mechanistic Empirical Analysis.” Transportation Research Record, Transportation Research Board, 2589, 32-39.

4. Bhattacharjee, S., and Alim, M. A. (2015). “Frequency Dependent Impedance and Admittance (immittance) Data-Handling and Interpretation Using Complex Plane Formalisms Via Nonlinear Regression Analysis for Smart Electronic Materials and Devices: Overview and Case Studies.” Journal of Materials Science: Materials in Electronics, Springer, 26(7), 4521-4540.

5. Bhattacharjee, S. (2017). “Probabilistic Modeling of Material Properties of Flexible Pavements for Mechanistic Empirical and Reliability Analysis.” Proceedings of Geotechnical Frontiers 2017: Transportation Facilities, Structures, and Site Investigation, American Society of Civil Engineers, Orlando, Florida, March 12-15, 2017, 281-290.