



## **Nader Tabatabaee**

### **Professor**

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### **Education**

Ph.D. in Civil Engineering, Pennsylvania State University, 1991

M.S. in Civil Engineering, Pennsylvania State University, 1987

B.S. in Civil Engineering, University of California at Berkeley, 1982

### **Selected Administrative Positions**

Dean of Graduate Studies, Sharif University of Technology, 2001-2006

Chair, Department of Civil Engineering, Sharif University of Technology, 1997-2001

### **Selected Research Projects**

2010: Principal Investigator, Refinement of the QC Protocol for Production of Performance Graded Binders in Tehran Bitumen Production Plant, Conducted for Pasargad Oil Company, Iran.

2009-2010: Principal Investigator, Evaluation and Improvement of Asphalt Mixes in City of Ahwaz, Conducted for the Municipality of Ahwaz, Iran.

2008-2009: Principal Investigator, A Feasible Plan for Long Term Pavement Performance Monitoring Program for Iran's Roadways (I-LTPP), Conducted for Transportation Research Institute, Ministry of Road and Transportation, Iran.

2007-2008: Principal Investigator, Modification of Bitumen with Crumb Rubber and its Effect on

Performance Grade and Properties of Binder, Conducted for Pasargad Oil Company, Iran.

2007-2008: Principal Investigator, Development of a QC Protocol for Production of Performance Graded Binders in Iran, Conducted for Pasargad Oil Company, Iran.

2006: Principal Investigator, Determination of Performance Grade (PG) of Bitumen Produced in Pasargad Bitumen Plants, Conducted for Pasargad Oil Company, Iran.

### Selected Recent Refereed Journals

Tabatabaee, N., and Ziyadi, M., "Bayesian Approach to Updating Markov-Based Pavement Performance Prediction Models," *Transportation Research Record 2360*, TRB, National Research Council, Washington, D.C., 2013.

Asgharzadeh, S.M., Tabatabaee, N., Naderi, K., and Partl, M., "An Evaluation of Asphalt Binders Rheological Master Curve Models," *Materials and Structure*, RILEM, (DOI) 10.1617/s11527-013-0191-5, 2013.

Asgharzadeh, S.M., Tabatabaee, N., Naderi, K., and Partl, M., "An Empirical Model for Modified Bituminous Binder Master Curves," *Materials and Structure*, RILEM, Vol. 46, No. 9, pp. 1459-1471, 2013, DOI 10.1617/s11527-012-9988-x.

Tabatabaee, N., Ziyadi, M., and Shafahi, Y., "A Two-Stage Support Vector Classifier and Recurrent Neural Network Predictor for Pavement Performance Modeling," *Journal of Infrastructure Systems*, Vol. 19, No. 3, pp. 266-274, September 2013, DOI: ASCE10.1061/(ASCE)IS.1943-555X.0000132.

Miller, T., Swiertz, D., Tashman, L., Tabatabaee, N., and Bahia, H., "Characterization of Asphalt Pavement Surface Texture," *Transportation Research Record 2295*, TRB, National Research Council, Washington, D.C., 2012.

Tabatabaee, N., and Tabatabaee, H.A., "Multiple Stress Creep and Recovery and Time Sweep Fatigue Tests: Crumb Rubber Modified Binder and Mixture Performance," *Transportation Research Record 2180*, TRB National Research Council, Washington, D.C., 2010.

Kargah-Ostadi, N., Stoffels, S.M., and Tabatabaee, N., "Network-Level Pavement Roughness Prediction Model for Rehabilitation Recommendation," *Transportation Research Record 2155*, TRB National Research Council, Washington, D.C., 2010.

Aflaki, S. and Tabatabaee, N., "Proposals for Modification of Iranian Bitumen to Meet the Climatic Requirements of Iran," *Construction and Building Materials*, Vol. 23, No. 6, June 2009, pp. 2141-2150.

### Invited Lectures

Tabatabaee, N., "New Directions in Asphalt Research," The Fourth National Conference on Asphaltic Cement and Concrete, Tehran, Iran, November 2008, (in Farsi).

Tabatabaee, N., "Proposed Framework of A Pavement Management System for Iran," The Third National Congress on Civil Engineering, Tabriz, Iran, May 2007, (in Farsi).

Tabatabaee, N., "Advancements in the Asphalt Mixture and Pavement Design," The Third National Conference on Asphaltic Cement and Concrete, Tehran, Iran, November 2006, (in Farsi).

Tabatabaee, N., "Pavement Engineering in the Past Two Decades," The Seventh International Congress on Civil Engineering, Tehran, Iran, May 2006, (in Farsi).

## Selected Recent Conferences

Naderi, K., Asgharzadeh, S.M., Tabatabaee, N., and Partl, M., "Evaluation of the Aging Properties of Crumb Rubber and SBS Modified Binders Using the Double Logistic Master Curve Model," Presented at the 93rd Annual Meeting of Transportation Research Board, TRB, National Research Council, Washington, D.C., January, 2014

Asgharzadeh, S.M., Tabatabaee, N., Naderi, K., and Partl, M., "Evaluation of Rheological Master Curve Models for Bituminous Binders," *Proceedings of 1st RILEM International Conference on Rheology and Processing of Construction Materials*, September 2013

Motamed, A., and Tabatabaee, N., "A Time Efficient GA Layer Moduli Back Calculation Method for Flexible Pavements," Presented at the 92nd Annual Meeting of Transportation Research Board, TRB, National Research Council, Washington, D.C., January, 2013.

Tabatabaee, N., Shafiee, M.H., Effect of organoclay modified binders on fatigue performance. *Proceedings of 7th RILEM International Conference on Cracking in Pavements*, Delft, Netherlands, June 2012, 869-878.

Bahia, H., Tabatabaee, N., Clopotel, C., and Ghalipour, A., "Evaluation of Using the MSCR test for Modified Binders Specification," *Proceedings of the 56th Annual Canadian Technical Asphalt Association (CTAA) Conference*, Quebec City, QC, Canada, November 2011.

Tabatabaee, N., and Teymourpour, P., "Effect of Modification on Rut Susceptibility of Asphalt Binders and Mixtures," *Proceedings of the 11th International Conference on Asphalt Pavements (ISAP)*, Nagoya, Japan, August 2010.

Tabatabaee, N., Firoozifar, H., and Kamali, Z., "Implementation of PG Grading in Iran," Presented in the First Meeting and Technical Conference, Middle East Society of Asphalt Technologists, (MESAT), Beirut, Lebanon, July 2010.

Tabatabaee, N., Tabatabaee, H.A., Sabouri, M.R., and Teymourpour, P., "Evaluation of Performance Grading Parameters for Crumb Rubber Modified Asphalt Binders and Mixtures," *Proceedings of the Seventh International RILEM Symposium on Advanced Testing and Characterization of Bituminous Materials*, Rhodes, Greece, May 2009.

Tabatabaee, N., and Alavi, M.Z., "Laboratory Investigation on Performance Properties of Rubber Modified Vacuum Bottom Residuum," *Proceedings of the Eight International Congress on Civil Engineering*, Shiraz, Iran, May 2009.

Tabatabaee, N., and Saliminejad, S., "A Pavement Management Software Package for Iran," *Proceedings of the Eight International Congress on Civil Engineering*, Shiraz, Iran, May 2009.