

ELIE Y. HAJJ, Ph.D.

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Current Affiliation

Research Assistant Professor of Civil Engineering

Contact Information

Department of Civil and Environmental Engineering

Mails Stop 258

University of Nevada, Reno

Reno, NV 89557

T: 775-784-1180

F: 775-784-1390

Education

YEAR	DEGREE	UNIVERSITY
2005	Ph.D.	University of Nevada, Reno
2003	M.S.	University of Nevada, Reno
1999	B.Sc.	Lebanese University, Lebanon

Research Interests

Pavement analysis and design, Mechanistic analysis of flexible pavements under dynamic heavy loads, Asphalt materials characterization and design, Recycled asphalt pavements, Warm mix asphalts, Pavement maintenance and rehabilitation design and analysis.

Recent Publications

Hajj, E. Y., Sebaaly, P. E., and R. Shresta. "Laboratory Evaluation of Mixes Containing Recycled Asphalt Pavement (RAP)," accepted for publication in *Int. J. of Road Materials and Pavements Design*, 2009.

Sebaaly, P. E., and E. Y. Hajj. "Evaluation of AASHTO T-283 Moisture Sensitivity Test," *Proc. of the Int. ISAP Symposium*, Zurich, Switzerland, Aug. 2008, pp. 473-484.

Loria, L., Sebaaly, P. E., and E. Y. Hajj. "Long-Term Performance of Reflective Cracking Mitigation Techniques in Nevada," *Transportation*

Research Record No. 2044, TRB, National Research Council, Washington, D.C., 2008, pp. 86-95.

Morian, N., Hajj, E. Y., and P. E. Sebaaly. "Mitigating Reflective Cracking under Nevada's Conditions," *Proc. of the 6th RILEM Int. Conference on Cracking in Pavements*, Chicago, USA, June 2008, pp. 821-831.

Hajj, E. Y., Sebaaly, P. E., Siddharthan, R. V., and D. Weitzel. "Investigation & Analysis of Hot Mix Asphalt Mixtures at Nevada's intersections," *Int. Conf. on Advanced Characterization of Pavement and Soil Engineering Materials*, Athens, Greece, Taylor & Francis Group, London, Vol. 2, 2007, pp. 1679-1689.

Sebaaly, P. E., Hajj, E. Y., and E. Berger. "Impact of lime and liquid antistripping on moisture sensitivity of HMA mixtures," *Int. Conf. on Advanced Characterization of Pavement and Soil Engineering Materials*, Athens, Greece, Taylor & Francis Group, London, Vol. 1, 2007, pp. 651-661.

Hajj, E. Y., Siddharthan, R. V., Sebaaly, P. E., and D. Weitzel. "Laboratory-based Unified Permanent Deformation Model for Hot-Mix Asphalt Mixtures." *J. of Testing and Evaluation*, ASTM, Vol. 35, No. 3, May 2007, pp.272-280.

Hajj, E. Y., Siddharthan R. V., Sebaaly, P. E., and D. Weitzel. "Hot Mix Asphalt Mixtures for Nevada's Intersections." *Transportation Research Record No. 2001*, TRB, National Research Council, Washington, D.C., 2007, pp. 73-83.

Sebaaly, P. E., Little, D., Hajj, E. Y., and E. Berger. "Impact of Lime and Liquid Antistripping on the Properties of an Idaho Mixture." *Transportation Research Record*, 1998, TRB, National Research Council, Washington, D.C., 2007, pp. 65-74.

Hajj, E. Y., Sebaaly, P. E., and R. V. Siddharthan. "Response of Asphalt Pavement Mixture Under a Slow Moving Truck." *Asphalt Concrete: Simulation, Modeling, and Experimental Characterization*, Geotechnical Special Publication No. 146, ASCE, 2006.

Courses Taught

Course Code	Course Title
CEE 375	Construction Materials
CEE 431/631	Pavement Analysis and Design
CEE 733	Advanced Pavement Design and Management
CEE 735	Pavement Management Systems

Other Activities within Engineering and Teaching Professions

Member of the TRB AFD80 Committee: Strength and Deformation
Characteristics of Pavement Sections

Nevada Alliance for Quality Transportation Construction Honorary Member
