

PETER SEBAALY

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Director of Western Regional Superpave Center
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Education

Ph.D.	Civil Engineering Arizona State University, Tempe 1987
M.S.C.E.	Civil Engineering State University of New York, Buffalo 1983
B.S.C.E.	Civil Engineering State University of New York, Buffalo 1982

Principal Fields of Interest

Pavement Design and Materials, Pavement Management, Structural Evaluation of Pavement Materials and Systems, In-Situ Instrumentation of Soils and Pavement Structures, Geotechnical Engineering.

Professional Membership

Registered Professional Engineer in the State of Nevada
Transportation Research Board (TRB)
American Society of Testing and Materials (ASTM)
Association of Asphalt Paving Technologists
American Society of Civil Engineers
Asphalt Recycling and Reclaiming Association
Asphalt Emulsion Manufacturers Association

Professional Experience

Director of Western Regional Superpave Center and Professor, Department of Civil & Environmental Engineering, University of Nevada, Reno, Since July 1, 1998.

Associate Professor, Department of Civil Engineering, University of Nevada, Reno, July, 1993 to June 1998.

Assistant Professor, Department of Civil Engineering, University of Nevada, Reno, August 15, 1990 to June 30, 1993.

Research Assistant Professor, Pennsylvania Transportation Institute, The Pennsylvania State University, August 1987 to August 15, 1990.

Laboratory Manager: Department of Civil Engineering, Arizona State University, August 1984 to May 1987.

Teaching Assistant: Department of Civil Engineering, State University of New York at Buffalo, May 1982 to August 1983.

Administrative Experience

Director of the Western Regional Superpave Center (WRSC)

WRSC is one of five national centers established by FHWA in 1992 to assist highway agencies and private industry in the implementation of the Superpave system. WRSC conducts research and training activities for states and private industry in the western and rocky mountain regions. Research includes: states sponsored projects, Westrack,

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and NCHRP sponsored projects. Training include: the Superpave Binder Grading System, the Superpave Volumetric Mix Design, and the Superpave Mixtures Analysis System.

Publications

Refereed Journal Papers

P.E. Sebaaly, Fernandez, G.C., Hoffman, B., "Evaluation of Construction Techniques for Longitudinal Joints in HMA Pavements," Journal of the Association of Asphalt Paving Technologists, Volume 77, pp. 143-182, 2008.

L. Loria, Sebaaly, P.E., Hajj, E., "Long-Term Performance of Reflective Cracking Mitigation Techniques in Nevada," Journal of the Transportation Research Board, National Research Council, TRR #2044, pp. 86-95, Washington, DC, 2007.

P.E. Sebaaly, D. Little, E. Hajj, and A. Bhasin, "Impact of Lime and Liquid Antistrip on the Properties of an Idaho Mixture," Journal of the Transportation Research Board, National Research Council, TRR #1998, pp. 65-74, Washington, DC, 2007.

E. Hajj, R. Siddharthan, P.E. Sebaaly, and D. Weitzel, "Laboratory-based Unified Permanent Deformation Model for Hot Mix Asphalt Mixtures," ASTM Journal of Testing and Evaluation, Volume 35(3), pp. 272-280, 2007

G. Bazi, P.E. Sebaaly, D. Weitzel, and M. EliceGUI, "A laboratory Study of Construction Variability Impacts on Fatigue and Thermal Cracking Resistance of HMA Mixtures," International Journal of Pavements, Volume 5(1-2-3), pp. 37-49, 2006.

E. Hajj, Sebaaly, P. E., Siddharthan, R. (2006). Response of Asphalt Pavement Mixtures under a Slow Moving Truck. ASCE Journal of Transportation Engineering, Volume 146, pp. 134-146, April 2006.

P.E. Sebaaly, G. Bazi, E. Hitti, D. Weitzel, and S. Bemanian, "Performance of Cold In Place Recycling in Nevada," Journal of the Transportation Research Board, National Research Council, TRR 1896, pp. 162-169 Washington, DC, 2005.

Elie Y. Hajj, Peter E. Sebaaly, and Dean Weitzel, "Fatigue Characteristics of Superpave and Hveem Mixtures," ASCE Journal of Transportation Engineering, Volume 131, No. 4, pp. 302-310, April, 2005.

Raj V. Siddharthan, Peter E. Sebaaly, Magdy El-Dasouky, Dan Strand, and David Huft, "Heavy Off-Road Vehicle Tire-Pavement Interactions and Response," ASCE Journal of Transportation Engineering, Volume 131, No.3, pp. 239-247, March, 2005.

P.E. Sebaaly, A. Hand, E. Hitti, W.M. McNamara, D. Weitzel, and J. Epps, "Field and Laboratory Performance of Superpave Mixtures in Nevada," Journal of the Transportation Research Board, National Research Council, TRR #1891 pp. 76-84, Washington, DC, November 2004.

A. Hand, A. Epps, P.E. Sebaaly, and D. Weitzel, "Evaluating Field Performance: case Study Including HMA PRS," ASCE Journal of Transportation Engineering, Volume 137, No. 2, pp. 251-261, April-March 2004.

P. Tohme, P.E. Sebaaly, E. Hajj, and D. Johnston, "Effectiveness of Antistrip Additives for Bituminous Mixtures," International Journal of Pavements, Volume 3, NO. 1-2, pp. 50-62, Sao Paulo, Brazil, 2004.

P.E. Sebaaly, R. Siddharthan, and D. Huft, "Impact of Heavy Vehicles on Low Volume Roads," Journal of the Transportation Research Board, National Research Council, TRR #1819, pp. 228-235, Washington, DC, 2003.

M. McCann and P.E. Sebaaly, "Resilient Modulus, Tensile Strength, and Simple Shear Test to Evaluate Moisture Sensitivity and the Performance of Lime in Hot Mix Asphalt Mixtures," Journal of the Transportation Research Board, National Research Council, TRR #1832, pp. 9-16, Washington, DC, 2003.

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P.E. Sebaaly, E. Hitti, and D. Weitzel, "Effectiveness of Lime in Hot Mix Asphalt Pavements," Transportation Research Board, National Research Council, TRR #1832, pp. 34-41, Washington, DC, 2003.

P.E. Sebaaly, V.T. Gopal, and J.A. Epps, "Low Temperature Properties of Crumb Rubber Modified Binders," International Journal of Road Materials and Pavement Design, Vol. 4 – Issue 1/2003, pp. 29-50, 2003.

P.E. Sebaaly, R. Siddharthan, M. El-Desouky, D. Strand, and D. Huft, "Effects of Off-Road Equipment on Flexible Pavements," Journal of the Transportation Research Board, National Research Council, TRR #1821, pp. 29-38, Washington, DC, 2003.

P.E. Sebaaly, A. Lake, and J.A. Epps, "Evaluation of Low temperature Properties of HMA Mixtures," ASCE Journal of Transportation Engineering, Vol. 128, No. 6, Nov. 2002.

P.E. Sebaaly, O. Abdel-Mageid, M. Dunn, and W. Brinkmeyer, "Influence of Hot-Mix Asphalt Parameters on the Correction Factors of the Ignition Oven Test," Journal of Testing and Evaluation, Vol. 30, No. 3, May 2002, pp. 228-238.

R. Siddharthan, N. Krishamenon, M. El-Mously, and P.E. Sebaaly, "Validation of a Pavement Response Model Using Full Scale Field Tests," The International Journal of Pavement Engineering, Vol. 3(2), 2002, pp. 85-93.

M. McCann and P.E. Sebaaly, "A Quantitative Evaluation of Stripping Potential in Hot Mix Asphalt Using Ultrasonic Energy for Moisture Accelerated Conditioning," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1767, pp. 48-59, Washington DC, 2001.

W.M. McNamara, P.E. Sebaaly, J.A. Epps, and D. Weitzel, "Evaluation of Superpave Mixtures in Nevada," Journal of the Association of Asphalt Paving Technologists, Volume 69, pp. 340-365, 2001.

S. Bemanian and P. Sebaaly, "Cost-Effective Rehabilitation of Portland Cement Concrete Pavements in Nevada," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1684, p.p. 156-165, Washington, D.C., 2000.

A. Hand, P. Sebaaly, and J.Epps, "Development of Performance Models Based on DOT's PMS Data," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1684, p.p. 215-222, Washington, D.C., 2000.

A. Hand, J.Epps, and P. Sebaaly, "Precision of ASTM D5821, Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregates," ASTM Journal of Testing and Evaluation, Vol. 28, No. 2, p.p. 67-77, West Conshohocken, PA, 2000.

P. Sebaaly, S. Bemanian, and S. Lani, "Nevada's Approach to the Backcalculation Process," ASTM STP 1375, p.p. 59-71, West Conshohocken, PA, 2000.

R. Siddharthan, N. Krishnamenon, and P. Sebaaly, "Finite-Layer Approach to Pavement Response Evaluation," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1709, p.p. 43-49, Washington, D.C., 2000.

R. Siddharthan, and P.E. Sebaaly, "Investigation of AC Layer Strains from Wide-Base Tires," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1655, p.p. 168-174, Washington D.C., 1999.

L. Raad, S. Suboumdjian, P.E. Sebaaly, and J. Epps, "Thermal Cracking Models for AC and Modified AC Mixes in Alaska," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1643, pp. 117-126, Washington D.C., 1998.

L. Raad, S. Suboumdjian, P.E. Sebaaly, and J.A. Epps, "Minimum Pavement Temperature Modeling and Mapping

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P.E. Sebaaly, D. Ridolfi, R. Gnagavaram, and J. Epps, "Selection of the Most Desirable HMA Mixtures," Journal of the Transportation Research Board, National Research Council, Transportation Research Record, No. 1590, pp. 99-107, Washington D.C., 1997.

R. Siddharthan, J. Yao, and P. Sebaaly, "Pavement Strain From Moving Dynamic 3-D Load Distribution," ASCE Journal of Transportation Engineering, Vol. 124, No. 6 pp. 557-566, 1998.

P.E. Sebaaly, S. Lani, S. Bemanian, and C. Cocking, "Flexible Pavement Overlays: The State Experience," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1568, pp. 139-147, Washington D.C., 1997.

P.E. Sebaaly, A. hand, J. Epps, and C. Busch, "Nevada's Approach to Pavement Management," Journal of the Transportation Research Board, National Research Council, Record #1524, pp. 109-117, Washington D.C., 1996.

R. Siddharthan, J. Yao, and P.E. Sebaaly, "Field Verification of a Moving Load Model for Pavement response," Journal of the Transportation Research Board, National Research Council, Record #1540, pp. 125-131, Washington D.C., 1996.

A. Gibby, R. Dawson, and P.E. Sebaaly, "Local Urban Transit Bus Impact on Pavement," ASCE Journal of Transportation Engineering, Vol. 122, No. 3, pp. 215-217, May 1996.

K. Troy, P. E. sebaaly, J. Epps, "Evaluation Systems for CRM Binders and Mixtures," Journal of the Transportation Research Board, National Research Council, Record #1530, pp. 3-10, Washington D.C., 1996.

P.E. Sebaaly, S. Lani, and A. Hand, "Performance Models for Flexible Pavement Maintenance Treatments," Journal of the Transportation Research Board, National Research Council, Record #1508, pp. 9-21, Washington D.C., 1995.

X. Qi, P.E. Sebaaly, and J. Epps, " Evaluation of Polymer-Modified Asphalt Concrete Mixtures," ASCE Journal of Materials in Civil Engineering, Vol. 7, No. 2, pp. 117-124, May 1995.

P.E. Sebaaly, N. Tabatabaee, and B. Kulakowski, "Evaluation of the Hall Effect Sensor for Pavement Instrumentation," ASTM Journal of Testing and Evaluation, Vol. 23, No. 3, pp. 189-195, May 1995.

R. Siddharthan, P.E. Sebaaly, and Z. Zafir, "Dynamic Response Evaluation of Inclined Pavements with Interface Shear," International Journal of Vehicle Design - Heavy Vehicle Systems, Vol. 3, Nos 1-4, pp. 382-398, 1996.

Z. Zafir, R. Siddharthan, and P.E. Sebaaly, "Dynamic Pavement Strains from Moving Traffic Loads," ASCE Journal of Transportation Engineering, Vol. 120, No. 5, pp. 821-842, 1994.

R. Siddharthan, P.E. Sebaaly, and Z. Zafir, "Pavement Strains Induced by Spent Fuel Transportation Trucks," Journal of the Transportation Research Board, National Research Council, Record # 1448, pp. 8-15, Washington, D.C., 1995.

P.E. Sebaaly, and N. Tabatabaee, "Influence of Vehicle Speed on Dynamic Loads and Pavement Response," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1410, pp. 107-114, Washington DC, 1994.

N.C. Krutz, and P.E. Sebaaly, "The Effects of Aggregate Gradation on Permanent Deformation of Asphalt Concrete," Journal of Association of Asphalt Paving Technologists (AAPT), Vol. 62, pp. 450-474, 1993.

P.E. Sebaaly, N. Tabatabaee, and T. Scullion, "Comparison of Backcalculated Moduli from FWD & Truck Loading," Journal of the Transportation Research Board, National Research Council, Transportation Research

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Record #1377, pp. 88-98, Washington D.C., 1992.

R. Siddharthan, P.E. Sebaaly, and M. Javaregowda, "Investigation of Statistical Variation in FWD on Pavement Analysis," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1377, pp. 57-66, Washington D.C., 1992.

K. Pickering, P.E. Sebaaly, M. Stroup-Gardiner, and J.A. Epps, "Evaluation of New Generation of Antistripping Additives," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1342, pp. 26-34, Washington D.C., May, 1992.

P. Sebaaly, N. Tabatabaee, "Effect of Tire Parameters on Pavement Damage and Load Equivalency Factors," ASCE, Transportation Engineering Journal, Vol. 118, No. 6, pp. 805-819, December, 1992.

N. Tabatabaee, P. Sebaaly, "Crack Monitoring System for Cracked and Seated PCC Pavements," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1307, pp. 194-200, Washington D.C., 1991.

N. Tabatabaee, I.L. Al-Qadi, and P. Sebaaly, "Field Evaluation of Pavement Instrumentation Methods," ASTM, Journal of Testing and Evaluation, Vol. 20, No. 2, Philadelphia, PA, 1992.

P.E. Sebaaly, T. Chizewick, G. Wass, and W. Cunigan, "Methodology for Processing, Analyzing, and Storing WIM Data," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1311, pp. 51-59, Washington D.C., 1991.

I.L. Al-Qadi, P. Sebaaly, "A New Technique to Measure Moisture in Hot-Mix Asphalt Concrete Nondestructively," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1317, pp. 122-127, Washington D.C., 1991.

N. Tabatabaee and P. Sebaaly, "State of the Art Pavement Instrumentation," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1260, pp. 246-255, Washington, D.C., 1990.

P. Sebaaly, N. Tabatabaee, R. Bonaquist, and D. Anderson, "Evaluating Structural Damage of Flexible Pavements Using Cracking and FWD Data," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1227, pp. 44-52, Washington, D.C., 1989.

P. Sebaaly and N. Tabatabaee, "Effect of Tire Pressure and Types on the Response of Flexible Pavement," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1227, pp. 115-127, Washington, D.C., 1989.

P. Sebaaly, D. Anderson, and N. Tabatabaee, "Performance of Full-Scale Pavements under Accelerated Loading," ASCE Transportation Engineering Journal, Vol. 115 No. 4, pp. 352-370, 1989.

P. Sebaaly and M. S. Mamlouk, "Development of Dynamic Fatigue Failure Criterion," ASCE Transportation Engineering Journal, Vol. 114, No. 4, pp. 450-464, 1988.

P. Sebaaly and M. S. Mamlouk, "Typical Curves for Evaluation of Pavement Stiffness from Dynaflect Measurements," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1070, pp. 42-53, Washington, D.C., 1986.

P. Sebaaly, M. S. Mamlouk and T. Davies, "Dynamic Analysis of Falling Weight Deflectometer Data," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #1070, pp. 63-69, Washington, D.C. 1986.

P. Sebaaly, T. Davies, and M. S. Mamlouk, "Dynamics of Falling Weight Deflectometer," ASCE Transportation Engineering Journal, Vol. 111, No. 6, pp. 618-632, 1985.

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M. S. Mamlouk and P. Sebaaly, "Overlay Thickness Design for Flexible Pavement," Journal of the Transportation Research Board, National Research Council, Transportation Research Record #993, pp. 63-67, Washington, D.C., 1984.

Refereed Conference Papers

P.E. Sebaaly and E. Hajj (2008), "Designing Asphalt Mixtures to Withstand Slow Loading," 4th International Gulf Conference on Roads, Doha, Qatar, Proceedings: Efficient Transportation and Pavement Systems.

P.E. Sebaaly and E. Hajj (2008), "Evaluation of AASHTO T-283 Moisture Sensitivity Test," ISAP Symposium on Asphalt Pavements and the Environment, Zurich, Switzerland.

P.E. Sebaaly, Morian, N., Hajj, E. (2007), "Mitigating Reflective Cracking under Nevada's Conditions," Chicago, IL: Sixth Rilem International Conference on Cracking in Pavements.

P.E. Sebaaly, Hajj, E., Berger, E. (2007), "Impact of Lime and Liquid Antistripping on Moisture Sensitivity of HMA Mixtures," (pp. 651-661). June 20-22, Athens, Greece: International Conference on Advanced Characterization of Pavement and Soil Engineering Materials.

E. Hajj, Sebaaly, P. E., Siddharthan, R., Weitzel, D. (2007), "Investigation & Analysis of Hot Mix Asphalt Mixtures at Nevada's Intersections," (pp. 1679 - 1689). June 20-22, 2007, Athens, Greece: International Conference on Advanced Characterization of Pavement and Soil Engineering Materials.

M. McCann, Sebaaly, P. E. (2006). Evaluating The Performance of Lime in Hot Mix Asphalt Mixtures (pp. 11). New York, NY: American Society of Civil Engineers.

P.E. Sebaaly, J. Ambroz, and G. Bazi, "Performance of HMA Overlays over Concrete Pavements in Nevada," 5th International Conference on Cracking in Pavements, Limoges, France, May 5-8, 2004.

K.S. Venukanthan, P. Sebaaly, and R. Siddharthan, "Development of Customized Pavement Management System Software," Proceedings of the 5th International Conference on Managing Pavements, Seattle, Washington, August 11-14, 2001. CD-ROM

K.S. Venukanthan, P. Sebaaly, and G. Fernandez, "Development of Performance Models from PMS Data," Proceedings of the 5th International Conference on Managing Pavements, Seattle, Washington, August 11-14, 2001. CD-ROM

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P. Sebaaly, V. Gopal, and M. Ardilla-Coulson, "Impact of Crumb Rubber and Sand on Rheological Properties of Binders," Proceedings of the Asphalt Rubber 2000, p.p. 371-382, Portugal, November 14-17, 2000.

P. Sebaaly, S. Venukanthan, and R. Siddharthan, "Performance Models for Pavement Rehabilitation," Proceedings of the 6th International Conference on Applications of Advanced Technologies in Transportation Engineering, CD-ROM, Singapore, June 28-30, 2000.

P.E. Sebaaly, "Rheological Properties of Polymer Modified Binders," Asphalt Science and Technology, Edited by A.M. Usmani, Marcel Dekker Publishing Co., pp. 235-248, New York, 1997.

P.E. Sebaaly, S. Blakely, and J. Epps, "Evaluation of Nevada's Binders Using SHRP Specifications," American Society of Testing and Materials, STP #1241, pp.89-116, Philadelphia, PA, 1995.

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American Society of Testing and Materials, STP #1265, pp. 146-165, Philadelphia, PA, 1995.

P.E. Sebaaly and S. Holikatti, "Phase Lag Effects on Analysis of FWD Data," American Society of Testing and Materials (ASTM), STP #1198, pp. 291-308, Philadelphia, PA, 1994.

P.E. Sebaaly, S. Lani, and J.A. Epps, "Development of Life Cycle Analyses Based on PMS Data," Proceedings of the 17th Australian Road Research Board Conference, Part 3, pp. 159-174, Gold Coast, Australia, August, 1994.

P.E. Sebaaly, I. Farooq, and J. Epps, "Behavior of AC-20P Versus AC-30 Asphalt Concrete Mixtures," Proceedings of ASCE Conference on Infrastructure: New Materials and Methods for Repair, San Diego, CA, 1994.

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P.E. Sebaaly, P. Schoener, R. Siddharthan, and J.A. Epps, "Implementation of Nevada's Overlay Design Procedure," Proceedings of the Fourth International Conference on Bearing Capacity of Roads and Airfields, pp. 1137-1161, Minneapolis, Minnesota, July 17-21, 1994.

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P. Sebaaly, N. Tabatabaee, "Field Evaluation of Strain Gauges in Asphalt Concrete Pavements," Proceedings of ASCE Conference on Road and Airport Pavement Response Monitoring Systems, pp. 382-396, West Lebanon, New Hampshire, September 1991.

P.E. Sebaaly, "Pavement Damage as Related to Tires, Pressures, Axle Loads, and Configurations," American Society of Testing and Materials STP #1164, pp. 54-68, Philadelphia, PA, 1992.

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N. Tabatabaee, P.E. Sebaaly and T. Scullion, "Analysis of Deflection Data from Two Test Sections at the PSU-Test Track," Proceedings of the Bearing Capacity of Roads and Airfields Third International Conference, Vol. 2, pp. 99-112, Trondheim, Norway, July 3-5, 1990.

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Technical Reports

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E. Hajj, Sebaaly, P.E., Kandiah, P. (2008). Use of Reclaimed Asphalt Pavement (RAP) in Airfield HMA Pavements. Auburn Alabama: FAA Airfield Asphalt Pavement Technology Program.

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P.E. Sebaaly and E. Hitti, "Investigation of Permanent Deformation at Intersection of McCarran and 7th Street," Final report, Nevada DOT, Carson City, NV, 2002.

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