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PROFESSIONAL INTEREST

Structural Dynamics
Weapons Effects
Transportation Engineering
Recycled Materials in Roadway Construction

EDUCATION

M.S., Civil Engineering, Texas Tech University, 1972
B.S., Civil Engineering, Texas Tech University, 1971

EXPERIENCE

Senior Researcher, Texas Tech University, Lubbock, Texas, 1989 – Present
Senior Researcher, Southwest Research Institute, San Antonio, Texas, 1982 – 1989
Research Geotechnical Engineer/Technology Base Program Manager, Engineering Research Division, Engineering and Services Laboratory, Tyndall AFB, Florida, 1979 – 1982
Vulnerability Analyst/Structural Engineer, Vulnerability Assessments Branch, Air Force Armament Laboratory, Eglin AFB, Florida, 1972 – 1979

PROFESSIONAL REGISTRATION

Registered Professional Engineer in Texas, Registration No. 66985

AFFILIATIONS

Director, Civil Engineering Testing Laboratory
Member, American Society of Civil Engineers
Member, Sigma Xi, The Scientific Research Society
Member, Texas Department of Transportation, Technical Advisory Panel 2, Transportation Planning
Chairman, Civil Engineering Public Relations/Recruitment Committee
Member, Civil Engineering Higher Education Assistance Fund (HEAF) Committee

CONSULTING

Associated MetalCast
Continental Concrete
DYWIDAG Systems International
General Technologies Incorporated
IMPACT Composite Technology, LTD
KOCH Asphalt
Pantex Weapons Assembly Plant

Post Tension Sales, Inc.
Precision SURE-LOCK, LP
PTE Strand
Suncoast Post Tension
Texas Department of Transportation
Twister Shelter and Vault

HONORS/AWARDS

Meritorious Service Award, Engineering and Services Laboratory, 1981
Professing Excellence Award, 2004
Professing Excellence Award, 2005

COURSES TAUGHT

Civil Engineering Seminar
Construction Management
Construction Materials Laboratory
Engineering Analysis
Engineering Mechanics, Statics
Mechanical Systems Laboratory
Mechanics of Fluids
Mechanics of Solids
Mechanics of Solids Laboratory
Numerical Methods

SELECTED PUBLICATIONS

“Water Intrusion in Base/Subgrade Materials at Bridge Ends,” Jayawickrama, Priyantha, Nash, Phillip T., Leaverton, Michael, and Mishra, Debakanta, Final Report for Project 0-5096, submitted to the Texas Department of Transportation, October 2005.

“Managing Rural Truck Traffic in Texas,” Harrison, Rob, Prozzi, Jolanda, Prozzi, Jorge, and Nash, Phillip T., Final Report for Project 0-4169, submitted to the Texas Department of Transportation, October 2004.

“Rapid Bridge Replacement Techniques,” Burkett, William R., Nash, Phillip T., Bai, Yong, Hays, Cal, Jones, Cindy, Final Report No. 0-4568-1, Submitted to the Texas Department of Transportation, October 2004.

“A Study of Strategic Military Deployment Routes in the State of Texas,” by Phillip T. Nash, Lucia S. Barbato, Gary A. Dawson and Sarah J. Briscoe, Final Report submitted to the Texas Department of Transportation, January 2003.

“The Effect of Fatigue Loading on the Strength and Stiffness of CFRP-Reinforced Wooden Box Spars,” Budek, Andrew M. and Nash, Phillip T., Tenth International Conference on Composites/Nano Engineering, Hilton Head, South Carolina, August 2004.

“A Review of Several States Environmental Policies for Using Traditional or Recycled Materials in Roadway Construction and Environmental Characteristics of Traditional Materials Used in Texas,” Transportation Research Board 81st Annual Meeting, Washington, D.C., January 2002.

“A Summary of Findings for Eight Nonhazardous Recycled Materials (NRMs) Applied to Roadway Construction in Texas,” Nash, Phillip T., Senadheera, Sanjaya, and Davio, Rebecca, Beneficial Use of Recycled Materials in Transportation Applications, Washington, D.C., November 2001.

“Environmental Characteristics of Traditional Construction and Maintenance Materials: Final Report,” by Morse, Audra, Nash, Phillip T., Senadheera, Sanjaya, Jackson, Andrew, Tock, Richard, Leggoe, Jeremy, and Mollhagen, Tony, Texas Department of Transportation Report No. 4974-1, February 2001.

“Evaluate the Uses for Scrap Tires in Transportation Facilities,” Sonti, Kiran, Senadheera, Sanjaya, Jayawickrama, P.W., Nash, P.T., and Gransberg, Douglas D., Final Report, Texas Department of Transportation Project No. 0-1808, October 2000.

“Long-Term Monitoring of Recycled Material Performance,” Rana, Ashek A. S. M., Senadheera, Sanjaya P., Nash, Phillip T., and Davio, Rebecca, Proceedings, Texas Section of American Society of Civil Engineers, Spring Meeting 2000, Austin, Texas, April 2000.

“Road to Recycling,” by Senadheera, Sanjaya, Rana, Ashek, Nash, Phillip T., and Ervin, R. T., Final Report on Texas Department of Transportation Project No. 9-1509, November 1999.

“Driver Preference of Repair Options on IH 40, Wheeler County,” by Evans W. Curry, Edgar A. O’Hair, Marilyn O’Hair, Renee E. Wharton, and Phillip T. Nash, submitted to the Texas Department of Transportation, March 1999.

“Sensitivity of Overpass Bridges to Wind and Traffic Loading,” by P.P. Sarkar, K.C. Mehta, D.A. Smith, and P.T. Nash, Research Study No. 7-1983-3F, Technical Report submitted to the Texas Department of Transportation, February 1997.

“Spall Damage to Concrete Walls from Close-In Cased and Uncased Explosions in Air,” by P.T. Nash, C.V.G. Vallabhan, and T.C. Knight, Structural Journal of the American Concrete Institute, December 1995.

“Wind – and Traffic – Load Effects on Tied-Arch Bridges,” by P.P. Sarkar, W.P. Vann, and P.T. Nash, Proceedings of the Texas Section ASCE 1995 Fall Meeting in El Paso, October 5-7, 1995.

“Guidelines for Using Hydrated Fly Ash as a Flexible Base,” by P.T. Nash, P. Jayawickrama, S. Senadheera, J. Borrelli, and A.S.M. Ashek Rana, Research Study No. 0-1365-1, Technical Report submitted to the Texas Department of Transportation, August 1995.

“Use of Glass Cullet in Roadway Construction, Phases II and III. Laboratory Testing and Specification Development,” by P.T. Nash, P. Jayawickrama, R. Tock, S. Senadheera, K. Viswanathan, and B. Woolverton, Research Study No. 0-1331-3, Technical Report submitted to the Texas Department of Transportation, August 1995.

“Use of Glass Cullet in Roadway Construction, Phase I. Literature Review and Identification of Sources and Supplies,” by P.T. Nash, P. Jayawickrama, R. Tock, S. Senadheera, K. Viswanathan, and B. Woolverton, Research Study No. 0-1331-3, Technical Report submitted to the Texas Department of Transportation, March 1995.