

The Department of Mechanical Engineering/College of Engineering and Applied Sciences
Stony Brook University

Mechanical Engineering Seminar



Sreenivas Alampalli, PhD, PE

Director, Structures Evaluation Services Bureau
New York State Department of Transportation
Albany, NY

Lecture Title: Managing Aging Transportation Infrastructure

Friday, September 24, 2010, 11AM, Room 173 Light Engineering

Abstract

The typical State Transportation Agency manages diversified highway related assets that include pavements, bridges, retaining walls, tunnels, large and small culverts and overhead sign structures among others. Given the resource constraints, growing demand, and change in customer expectations, the role of the owner is a difficult one. This presentation will illustrate the assets managed by typical highway infrastructure owners and some of the issues faced by these owners. A special emphasis is placed on bridges. This presentation will also briefly discuss current management tools and allude to future needs.

Biography

Dr. Sreenivas Alampalli is the Director of the Structures Evaluation Services Bureau at the New York State Department of Transportation (NYSDOT). His responsibilities include managing Structures Inspection, Inventory, and Safety Assurance programs at the NYSDOT. His Bureau provides data collection and evaluation services to facilitate the preservation, structural integrity, and safety of more than 17,000 highway bridge infrastructure in New York State. He also has extensive experience in structural engineering related research. Dr. Alampalli obtained his Ph.D. and MBA from Rensselaer Polytechnic Institute, M.S. from Indian Institute of Technology (IIT), Kharagpur, India, and B.S. from S.V. University, Tirupati, India. His interests include infrastructure management, innovative materials for infrastructure applications, nondestructive testing, structural health monitoring, and long term bridge performance. Dr. Alampalli is a Fellow of American Society of Civil Engineers (ASCE), American Society for Nondestructive Testing (ASNT), and International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII). He authored or co-authored more than 225 technical publications. He is also co-authoring a two-volume Book on "Infrastructure Health in Civil Engineering," that will be published by CRC press in early 2011. Dr. Alampalli is an active member of several technical committees in TRB, ASCE, and ASNT; and currently chairs the ASCE Technical Committee on Bridge Management, Inspection, and Rehabilitation. He is currently an Associate Editor of the ASCE Journal of Bridge Engineering and also on the editorial board of the Journal of "Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance," and Journal of "Bridge Structures: Assessment, Design and Construction." Among the award he received include Charles Pankow Award for Innovation awarded by the Civil Engineering Research Foundation (2000), Herbert Howard Government Civil Engineer of the Year Award from ASCE Met Section (2009), and ASNT Mentoring Award (2009).

Refreshments will be served.

Directions: Please call Augusta Kuhn at 631-632-8310 for more information.

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