Plenary Presentation on Asphalt Pavement Preservation

“Why Preservation-Treatment Types, Benefits, and Challenges”

R. Gary Hicks, P.E.
Program Manager, CP2 Center and Consulting Engineer

Biosketch

Dr. Gary Hicks is currently a part time Program Manager for the California Pavement Preservation Center established at CSU, Chico. Prior to his current position, Dr. Hicks was the Technical Director for the Center, senior principal for MACTEC E&C (now AMEC) in Sacramento, and a Distinguished Professor of Civil Engineering at Oregon State University for over 25 years before retiring in 1997. He also was an Associate Professor at Georgia Tech in the early 1970’s.

Dr. Hicks has worked in the area of pavements and pavement preservation for nearly 50 years and has worked on rubber modified asphalt since the late 70’s. He has been active with the Transportation Research Board (having served as the head of the pavements section and as a member of the pavement maintenance and preservation committees.), Association of Asphalt Paving Technologists (having served as president and selected as an honorary member), Foundation for Pavement Preservation (served on the Board), and the International Society of Asphalt Pavements (Founder member, served on the board, and an honorary member). He was co-chair of the organizing committees for the 1992 and the 1997 ISAP conferences in Nottingham and Seattle. He is a registered Civil Engineer in the states of California, Oregon, and Alaska and has authored more than 200 publications. He is still active as a consultant to several companies and organizations.

Abstract

Pavement preservation has been an important topic for flexible pavements for many years. It was not until the Foundation for Pavement Preservation was established in 1992 that it became an important aspect in the area of system maintenance and preservation. There are several types of treatments included in the pavement preservation tool box including thin HMA, chip seals, slurry surfacings, and cape seals. This paper addresses the types of treatments currently included in the tool box, the reported benefits of the treatments (including, cost, energy and environmental), and the challenges still facing agencies in documenting the benefits and increasing the use of these types of treatments. Recent developments with funding pavement preservation and rehabilitation and the implications of the new Technical Advisory for the ADA act are also discussed.