Concrete Pavement Preservation and Rehabilitation Workshop

In 2006, as a subconsultant to Snyder and Associates, Inc., Applied Pavement Technology, Inc. (APTech) created a Concrete Pavement Preservation and Rehabilitation Workshop course for the Iowa State University Center for Portland Concrete Cement (PCC) Technology. The workshop was developed to provide the latest information on the design, construction, and selection of concrete pavement maintenance and rehabilitation techniques (excluding hot-mix asphalt or PCC overlays). The specific preservation treatments covered in the workshop materials included slab stabilization, partial-depth repairs, full-depth repairs, retrofitted edge drains, load transfer restoration, joint resealing and crack sealing, and diamond grinding.

The course trained participants to evaluate the condition of existing PCC pavements, appropriately select cost-effective and timely preservation or rehabilitation techniques based on the evaluation, and determine the materials and construction procedures of each technique that will provide the optimal combination of extended pavement service life and cost. APTech prepared a detailed reference manual for each of these treatments, with recommended procedures for design, construction, installation, and troubleshooting, and provided visual aids, the accompanying Participant Workbook, and Instructor Guide documents.

APTech participated in several meetings with an Expert Task Group that convened for the project, and led pilot presentations of the workshop in Oklahoma and Iowa for participants, who ranged from local agency engineers to consultants and contractors. In 2008, APTech began working with Snyder and Associates, Inc. to develop National Training for PCC Preservation for the Federal Highway Administration.