Repair of Concrete Bridges, Parking Decks, and Other Transportation Structures

ONE DAY, 7.5 HOURS

Proven repair techniques and materials for repair of bridge decks and superstructures

Program Content:

- Evaluation of Deterioration—the condition survey; importance of this must be stressed
- Repair Materials
  Selection of materials
  Descriptions of when and how to use portland cement concrete and various polymer or polymer-modified concretes
- Repair Methods
  Selection of methods based on condition surveys, what methods will provide the best results
  Preparation for repairs (removal of deteriorated concrete, cleaning of concrete surfaces, and cleaning and replacement of reinforcement)
  Column and beam repair
  Joint repair
  Deck repair
  Repairs during bridge widening
  Repairs to overhead surfaces
  Repair of long-span prestressed beams
  Crack and fracture repair with epoxy resin injection
  Examples of methods used on bridges
  Safety and structural support during repairs
- Strengthening of Existing Bridges
- Protection Methods
  Overlays—methods and materials for successfully overlaying bridge decks
  Sealers and membranes
  Cathodic protection
- Maintenance Techniques for Reducing Bridge Deterioration

Who should attend:
Engineers, repair contractors, material suppliers, maintenance personnel, and public works engineers

Instructors:
Michael M. Sprinkel.

Seminar handouts:
Guide for Making a Condition Survey of Concrete in Service (ACI 201.1R)
Causes, Evaluation, and Repair of Cracks in Concrete Structures (ACI 224.1R)
Guide for Maintenance of Concrete Bridge Members (ACI 345.1R)
Guide for the Use of Polymers in Concrete (ACI 548.1R)
Course Notes authored by the instructors

+1.248.848.3754
WWW.CONCRETESEMINARS.COM