



U.S. Department of Transportation
Federal Highway Administration
Office of Infrastructure

Technical Committee for Bridge Preservation (T-9)

2019 Committee on Bridges and Structures Annual Meeting
June 24, 2019

Montgomery, AL

Raj Ailaney, PE

Senior Bridge Preservation
Engineer

FHWA Office of Bridges and
Structures

FHWA Bridge Preservation Expert Task Group (BPETG)

Goals & Strategic Objectives

1. Provide information on cost-effective bridge preservation strategies
2. Communicate the benefits of including bridge preservation as a component of asset and performance management
3. Advise and assist in developing educational materials on bridge preservation
4. Foster a collaborative environment that encourages research and innovation

www.fhwa.dot.gov/bridge/preservation/



FHWA's Recent Activities Update

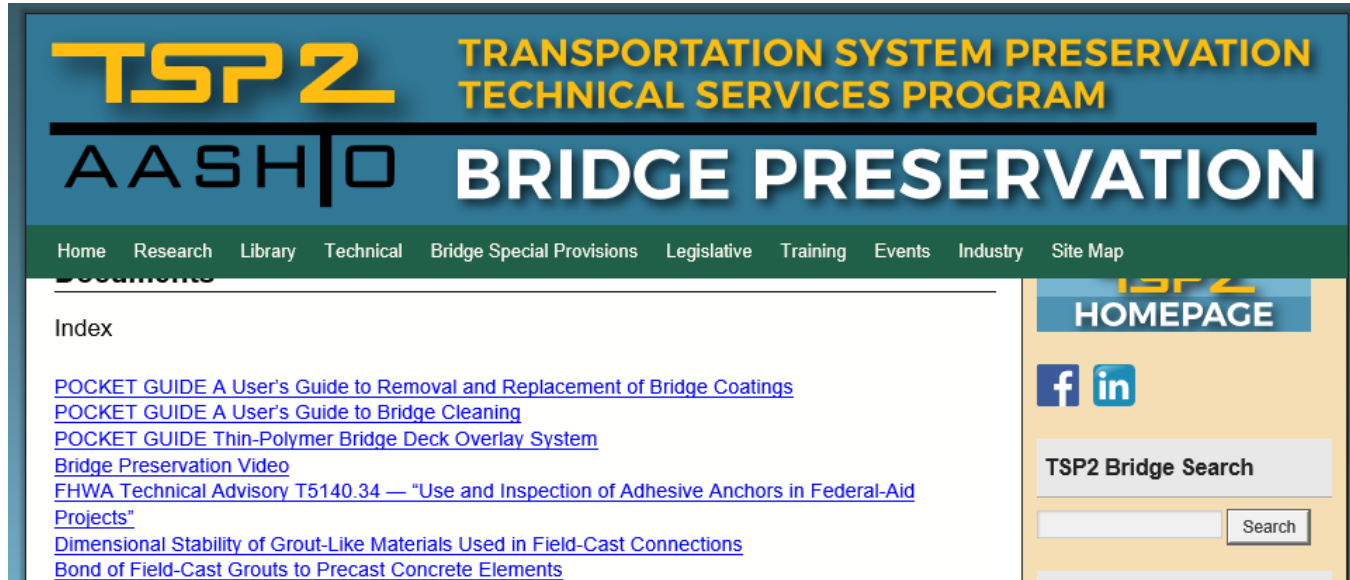
- Bridge Preservation Activities
 - What have we accomplished?
 - What's coming?



Promoting Bridge Preservation – Video (Accomplished)



Develop Pocket Guide Series (Accomplished)



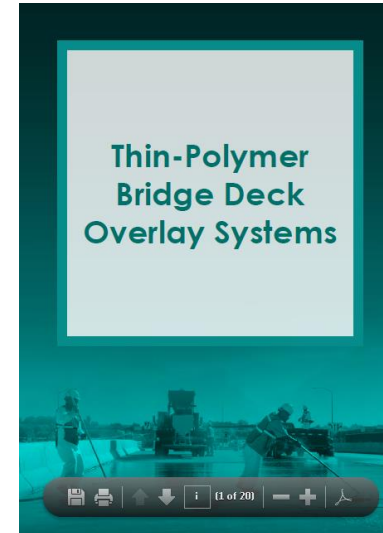
AASHTO TSP2 Web Page

Download Smart Phone App:

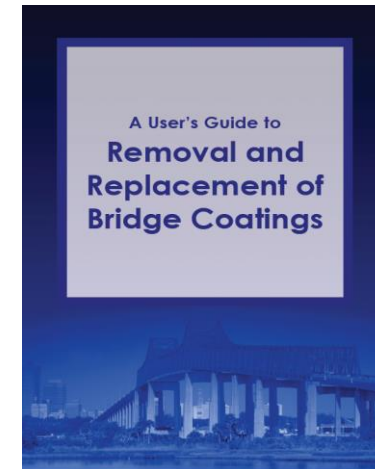
- “TPO Pocket Guide” – Thin Polymer Bridge Deck Overlay Systems
- “BC Pocket Guide” – Bridge Cleaning
- “RBC Pocket Guide” – Bridge Coatings



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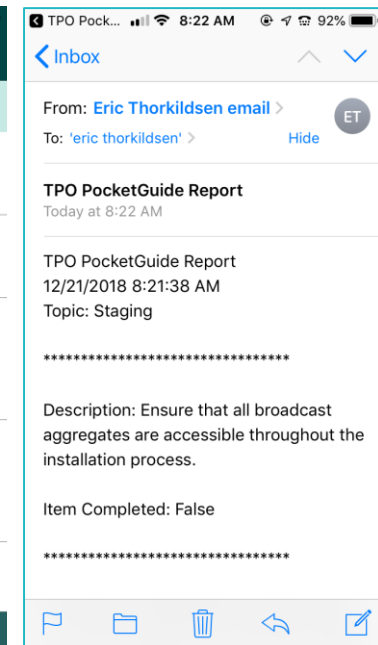
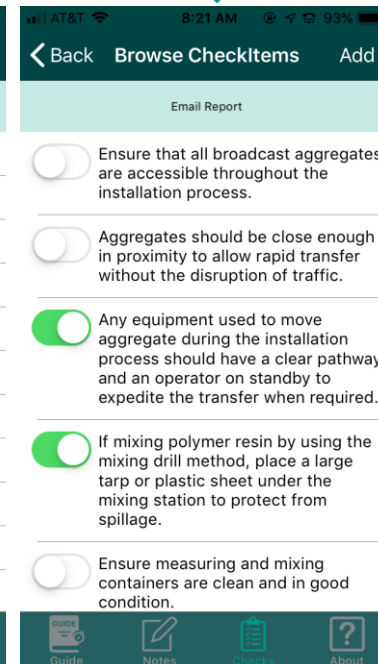
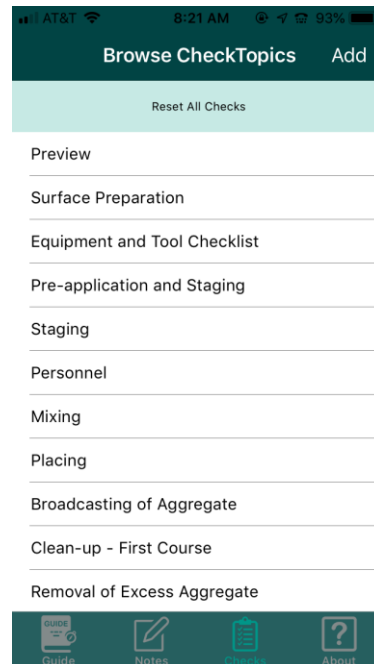
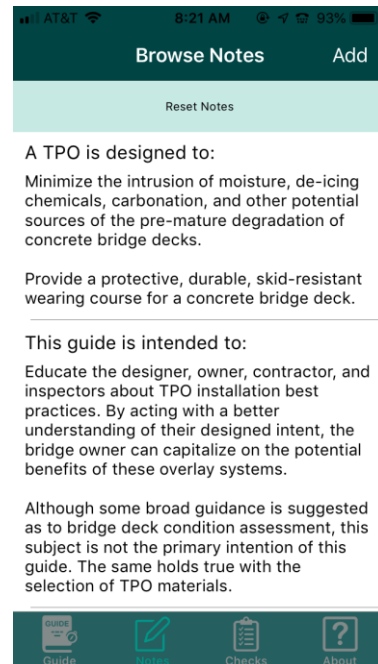
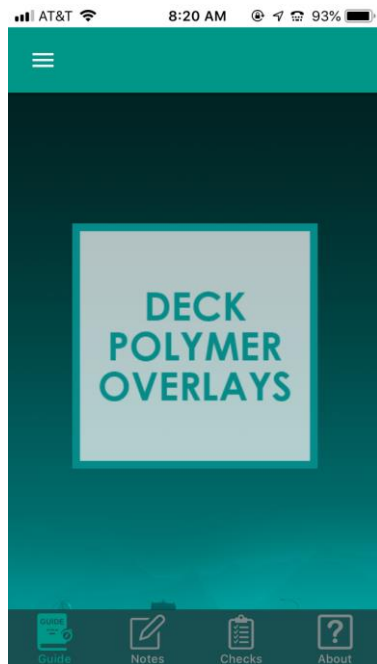
Published by AASHTO TSP2/FHWA BPETG



Published by AASHTO TSP2/FHWA BPETG

Pocket Guides - Smart Phone App

- PDF of Guide on App
- Notes
- Checklists
- Email Report



Pocket Guides – Future Topics

- Spot, Zone and Overcoat Painting
- Deck Patching
- Concrete Substructure Repairs
- Concrete Superstructure Repairs
- Steel Superstructure Repairs
- Bearings: Clean, Reset and Grease
- Removing Channel Debris and Scour Repairs



Activities / Projects (In the works...)

- Bridge Preservation Actions: Developing a Decision Methodology
 - Supports NCHRP 14-36
 - Lead - University of Colorado (Dr. George Hearn – Principal Investigator)
- Deck Preservation Portal
 - Two Phase Project
 - Phase 1 – Developing Proof of Concept
 - Lead – IA DOT
 - Contractor – WJE Associates, Inc.
 - Phase 2 – Develop the Portal
 - Possible Pooled Fund Project



Training (Web-based Microlearning Sessions)

Formed an Alliance with AASHTO Transportation Curriculum Coordination Council (TC3)

- FHWA Bridge Preservation Guide –

Module 1 – Bridge Preservation Overview

Module 2 – How to start a Bridge Preservation Program?

- Bridge Cleaning
- Thin Polymer Overlays
- Bridge Coatings

The screenshot shows the AASHTO TC3 Technical Training web page. The page is titled "Technical Training" and features a search interface. The left sidebar contains filters for "Find Training", "PDHs", "Category", "Subcategory", and "Discipline". The main content area displays a list of training courses, including "Bridge Cleaning (1 PDH)", "Bridge Preservation Guide (1.5 PDH) - Price shows 50% DISCOUNT normally \$75", and "CDL Air Brakes (1.5 hours)". Each course listing includes a description and pricing information.

| Course Title | PDHs | Non-Member Price | Member Price | Subscription Price |
|--|------|------------------|--------------|--------------------|
| Bridge Cleaning (1 PDH) | 1 | \$50.00 | \$25.00 | \$0.00 |
| Bridge Preservation Guide (1.5 PDH) - Price shows 50% DISCOUNT normally \$75 | 1.5 | \$38.00 | \$19.00 | \$0.00 |
| CDL Air Brakes (1.5 hours) | 1.5 | \$75.00 | | |

AASHTO TC3 Web Page

Latest NHI Web-based Training

- [FHWA-NHI-130107B](#) – Bridge Maintenance Painting – Gain knowledge of the types of steel bridge elements, coating materials, coating defects, maintenance activities, and coating repair techniques to preserve bridge coatings.
- [FHWA-NHI-13010C](#) – Maintenance of Movable Bridges – Basic knowledge on preventive maintenance activities associated with the various components and systems encountered on movable bridges. Emphasis on lubrication of bridge components, including the types of lubricants used and their selection.
- [FHWA-NHI-130107D](#) – Maintenance of Masonry Bridge Elements – Gain knowledge of the materials and defects associated with masonry bridges, as well as preventive maintenance activities and repair techniques used to address deterioration.



Thank You!

