

# SWOT Analysis for SCDOT Pavement Preservation Program

By  
David Cook  
State Maintenance Engineer

# Strengths

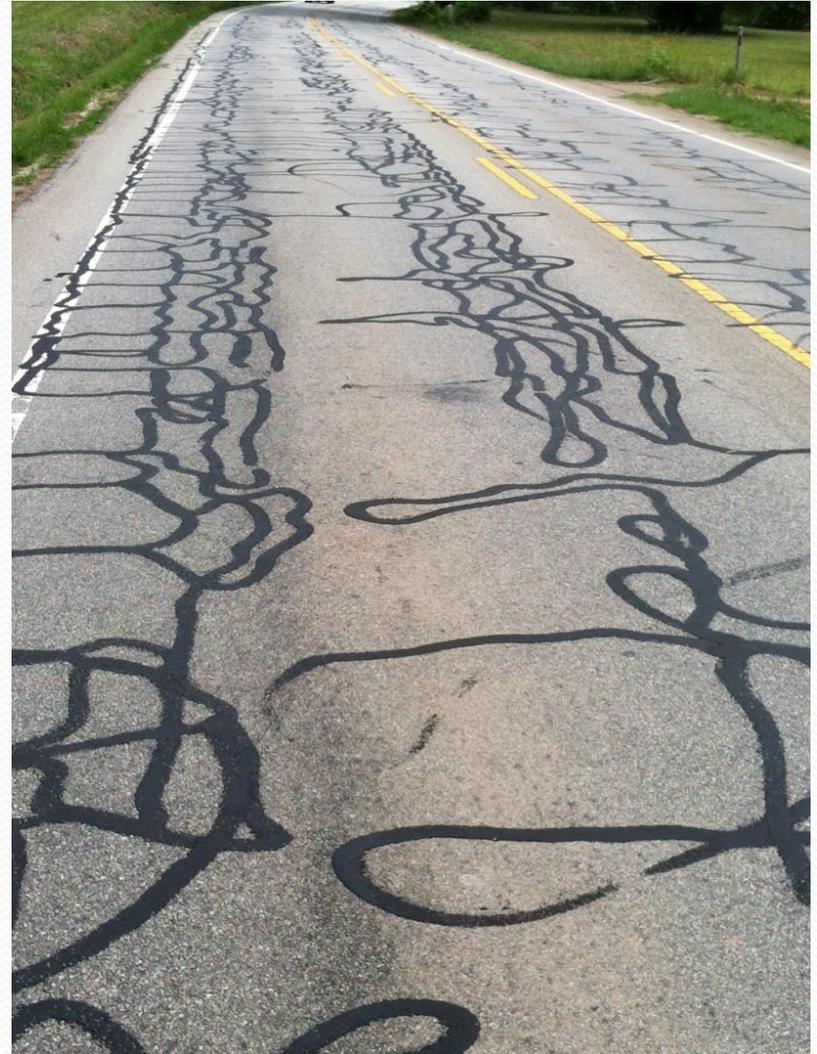
- Management Support
- Certification Program
- Georgia-Carolina  
Pavement Preservation  
Council (GCPPC)
- Chip seal specification





# Weaknesses

- No dedicated and consistent funding source
- Selection of Poor Candidates





# Opportunities

- Expand Tool Box
  - Cape Seal
  - Fog seal
  - Rejuvenators
  - FiberMat

# Threats

- Funding
- Lack of Resurfacing Program
- Improper Application



Questions?

# SCDOT Pavement Preservation Technician Certification Update

May 2013

# SCDOT Technician Certification Programs

- Tri-County Technical College
  - HMA
  - Earthwork and Base Course
  - Foundations
  - Coarse Aggregate
  - Pavement Preservation
- University of South Carolina
  - PCC

# SCDOT Technician Certification Programs

- All SCDOT Technician Certification programs are governed by a Task Force with members from
  - SCDOT
  - FHWA
  - Industry
  - Academia
  - Other interested parties, if needed

# SCDOT Pavement Preservation Technician Certification

- Potential levels of certification
  - Level 1 for field personnel
  - Level 2 for designers and/or supervisors
- Only Level 1 currently exists
- Task Force will decide whether or not to develop Level 2

# Pilot Course

- Held April 3-5, 2012 in Columbia, SC
- Attendees were mostly SCDOT representatives
- Certification is not yet required for contractor personnel
- Presenters from:
  - Academia
  - Industry
  - SCDOT

# Pilot Course Topics

- Pavement Preservation and Pavement Management Systems (overview)
- Flexible Pavement Patching
- Flexible Pavement Crack Treatment
- Chip Seals
- Other Types of Seals
- Preventative Maintenance Thin Lift HMA

# Pilot Course Topics

- Slurry Seals
- Micro Surfacing
- Rigid Pavement Distresses
- Rigid Pavement Repairs
  - Full Depth
  - Partial Depth
- Diamond Grinding
- Joint Resealing

# Revisions: Course Organization

- Task Force decided upon 3 separate Pavement Preservation Level 1 Certification courses:
  1. Asphalt Seal Coats
  2. Micro Surfacing and Slurry Seals
  3. Concrete Pavements
- Same topics covered as in pilot course
- Each course is 1 day
- Courses are held consecutively in same week
  - Courses stand-alone, but could be attended all at one time for those choosing to attend all three

# Revisions: Prerequisites

- PP Level 1: Asphalt Seal Coats
  - EITHER at least 6 months experience in Asphalt Seal Coat construction and testing OR certified as SCDOT Asphalt Roadway Technician
  - Completion of FHWA-NHI-131132 course, *Chip Seal Best Practices*
- PP Level 1: Micro Surfacing/Slurry Seals
  - EITHER at least 6 months experience in Micro Surfacing and Slurry Seal Coat construction and testing OR certified as SCDOT Asphalt Roadway Technician

# Revisions: Prerequisites

- PP Level 1: Concrete Pavements
  - EITHER at least 6 months related experience in Concrete Pavement construction and testing OR certified as ACI Field Grade 1 Technician
  - Completion of FHWA-NHI-131126 course, *Concrete Pavement Preservation Series (modules A-J)*

# Courses Held

September 2012 – May 2013

- Since the pilot course in April 2012, 5 additional “sets” of the Pavement Preservation Level 1 courses have been held

Year	Number of Courses
2012	2
2013 (through May)	3

# Technicians Certified

April 2012 – May 2013

Course Name	# Participants	# Certified
PP Level 1: Asphalt Seal Coats	130	127
PP Level 1: Micro Surfacing /Slurry Seals	133	133
PP Level 1: Concrete Pavements	127	126
<b>Totals:</b>	<b>390</b>	<b>386</b>

# Future

- July 2013 Letting:
  - Effective date for having certified technicians (SCDOT and contractors) on Pavement Preservation projects
- Course schedules:
  - [www.tctc.edu/scdot](http://www.tctc.edu/scdot)
  - Fall 2013 schedule will be posted after July 1st
- Task Force to discuss potential Level 2 course



# Questions