ROLL UP YOUR SLEEVES & GET READY FOR SPRING TRAINING!

2018 Slurry Systems Workshop

JANUARY 22-25, 2018
Texas Station Hotel & Casino | Las Vegas, NV
Profile of a Winning Public Agency

2018 Slurry Systems Workshop

JANUARY 22-25, 2018
Texas Station Hotel & Casino | Las Vegas, NV

Speakers:

Dan Patenaude, P.E.
Sales & Marketing Manager
Sealcoating, Inc.

Scott Bartlett
Superintendent of Public Works
Town of Fairfield, CT
Population = 60,855

Geographical Area = 30.3 sq. mi

288 Centerline Miles of Road

Over 5,000,000 S.Y. of Pavement in Network

$3,548,000 Pavement Management Budget
Why Is Fairfield a Winner?

★ Fearless Innovators
★ Committed to Pavement Preservation
★ Outstanding Communicators
★ Astute Asset Managers
★ Regional Leaders

#2018SSWS
SLURRY.ORG
Why Is Fairfield a Winner?

Fearless Innovators
### Micro Surfacing Performance Additives Demonstration Project

Fairfield, CT  
“Test Track” 2016

<table>
<thead>
<tr>
<th>Micro Surfacing Variations</th>
<th>Square Yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiMA micro surfacing</td>
<td>10,117</td>
</tr>
<tr>
<td>HiMA micro surfacing w/fibers</td>
<td>8,694</td>
</tr>
<tr>
<td>Conventional micro surfacing</td>
<td>6,456</td>
</tr>
<tr>
<td>Conventional micro surfacing w/fibers</td>
<td>5,663</td>
</tr>
<tr>
<td>Total</td>
<td>30,930</td>
</tr>
</tbody>
</table>
Treatments Utilized

Crack Sealing:
- PG + fibers
- PCRM + fibers

Chip Seal:
- 3 aggregate types
- 3 different emulsions

Micro Surfacing:
- 4 mix compositions

Cape Seal:
- 9 variations over the last 10 years
Committed to Pavement Preservation
Preserve

pre·serve \pri-ˈzərv\ 

1. to keep in good condition
2. to keep safe from harm
3. to prevent decay
4. maintain

Source: Merriam-Webster.com/dictionary
2016 Treatment Miles by Category

- **Crack Sealing**
  - 3/8" Chip Seal w/PASS Emulsion
  - Single Course Conventional Micro Surfacing
  - Double Course Conventional Micro Surfacing
  - Double Course Micro Surfacing w/ HiMA Emuls. (Test Track)
  - Double Course Micro w/ HiMA Emuls. & Fibers (Test Track)
  - Cape Seal w/Double Course Micro Surfacing

- **Surface Treatments**
  - 21.11 miles crack seal
  - 12.42 miles rehabilitation
  - 32.66 miles surface treatments

- **HMA & Rehab**
  - Hot In-Place Recycling
  - Asphalt Leveling (3/4" - 1" Thick)
  - Asphalt Leveling (1" - 1.5" Thick)
  - 1.5" Mill & Fill

54 of 62 Miles Treated = ISSA Preservation Treatments!
Why Is Fairfield a Winner?

Outstanding Communicators

#2018SSWS
The 2 Huge Challenges

1. Not Enough $
2. Not Optimizing $
When are you going to pave my road!?
3 Board of Selectmen

9 Board of Finance Members

40 Town Meeting Representatives

70 Staff Members

60,000 Residents

#2018SSWS
Astute Asset Managers
Remaining Service Life (RSL) Concept

A Quick Check of Your Highway Network Health

By Larry Galehouse, Director, National Center for Pavement Preservation
and
Jim Sorenson, Team Leader, FHWA Office of Asset Management

Available at:
http://www.fhwa.dot.gov/pavement/pub_details.cfm?id=478
• Every road segment has some Remaining Service Life

• 100 mile network with NO repairs or maintenance in a given year will lose 100 mile-years of the network’s Remaining Service Life

• To “break even”, the annual work program needs to inject 100 mile-years of New Service Life
For Each Treatment:

Miles × Service Life = Mile-Years
# 2016 Pavement Management Program
## Analysis of Network Life Extension

<table>
<thead>
<tr>
<th>Treatment Type</th>
<th>Est. Life Extension</th>
<th>2016 Miles Completed</th>
<th>New Mile-Years Added to Network</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crack Sealing</td>
<td>2</td>
<td>21.11</td>
<td>42.22</td>
</tr>
<tr>
<td>3/8&quot; Chip Seal with PASS Emulsion</td>
<td>6</td>
<td>12.42</td>
<td>74.52</td>
</tr>
<tr>
<td>Single Course Conventional Micro Surfacing</td>
<td>4</td>
<td>0.43</td>
<td>1.72</td>
</tr>
<tr>
<td>Double Course Conventional Micro Surfacing</td>
<td>7</td>
<td>16.7</td>
<td>116.90</td>
</tr>
<tr>
<td>Double Course Micro w/HiMA Emulsion (&quot;test track&quot;)</td>
<td>9</td>
<td>0.52</td>
<td>4.68</td>
</tr>
<tr>
<td>Double Course Micro w/HiMA Emulsion &amp; Fibers (&quot;test track&quot;)</td>
<td>10</td>
<td>0.44</td>
<td>4.40</td>
</tr>
<tr>
<td>Cape Seal w/Double Course Micro Surfacing</td>
<td>9</td>
<td>2.15</td>
<td>19.35</td>
</tr>
<tr>
<td>Hot In-Place Recycling</td>
<td>7</td>
<td>0.3</td>
<td>2.10</td>
</tr>
<tr>
<td>Asphalt Leveling (3/4&quot; to 1&quot; thick)</td>
<td>6</td>
<td>4.76</td>
<td>28.56</td>
</tr>
<tr>
<td>Asphalt Leveling (1&quot; to 1.5&quot; thick)</td>
<td>8</td>
<td>1.8</td>
<td>14.40</td>
</tr>
<tr>
<td>1.5&quot; Mill &amp; Fill</td>
<td>10</td>
<td>1.02</td>
<td>10.20</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>61.65</strong></td>
<td><strong>319.05</strong></td>
<td></td>
</tr>
<tr>
<td>Lost Annually</td>
<td></td>
<td></td>
<td><strong>(288.30)</strong></td>
</tr>
<tr>
<td><strong>2016 Surplus/(Deficit)</strong></td>
<td></td>
<td></td>
<td><strong>30.75</strong></td>
</tr>
</tbody>
</table>
Why Is Fairfield a Winner?

Regional Leaders
Fairfield’s Regional Influence
Park Avenue
September 22, 2016

Neighbor in CT
2004: 2” Mill & Fill

Fairfield, CT
2004: 2” Mill & Fill
2010: Crack Sealing & Micro Surfacing
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