

Pavement Preservation Training Opportunities



*For
Chip Seals,
Slurry Seals &
Micro Surfacing*



NEPPP

4-29-2013

Annapolis, MD



Pavement Preservation Training Opportunities

(Slurry Seal, Micro Surfacing & Chip Seal Treatments)

- International Slurry Surfacing Association
Slurry Systems Workshop (SSWS)
- National Center for Pavement Preservation at Michigan State University
Slurry Seal, Micro Surfacing, and Chip Seals Classes
- Federal Highway Administration & International Slurry Surfacing Association
Interactive Web Based Training



Slurry Systems Workshop



SLURRY SEAL NEWS

1101 CONNECTICUT AVENUE, N.W.
WASHINGTON, D.C. 20036
202-857-1160

MARCH/APRIL 1986



**1986 ISSA Operators School:
Teaching the Way to Jobsite Excellence**



Inside: Convention '86
New Guide Specifications





ISSA

Slurry Systems Workshop



- **Workshop topics include:**
 - **Pavement preservation concept / site selection**
 - **Introduction to slurry/micro, chip sealing and crack sealing**
 - **Mix designs and testing**
 - **Project management**
 - **Best practices**
 - **Calibrations**
 - **Inspection tips**
 - **Troubleshooting**
 - **Live demonstrations**

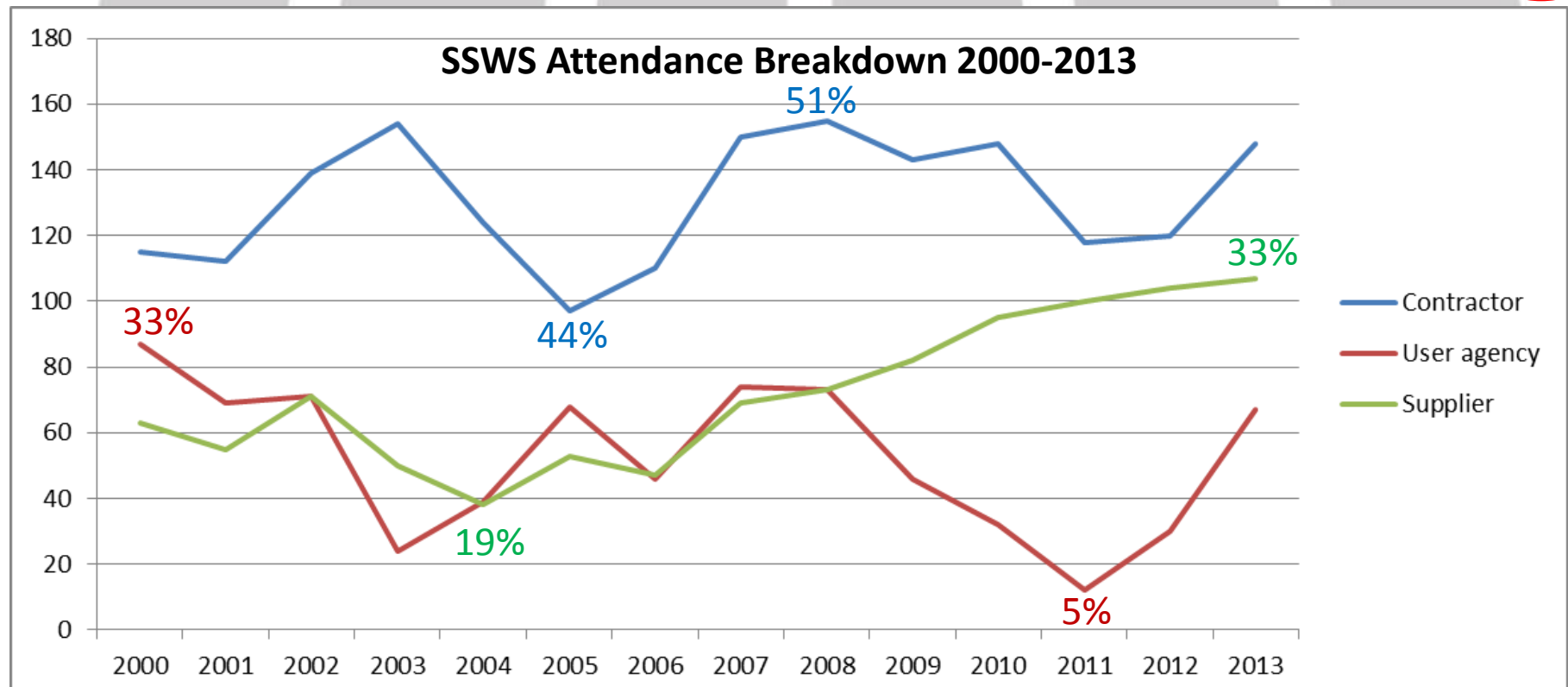


ISSA

Slurry Systems Workshop



	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Total
Contractor	115	112	139	154	124	97	110	150	155	143	148	118	120	148	1833
User agency	87	69	71	24	39	68	46	74	73	46	32	12	30	67	738
Supplier	63	55	71	50	38	53	47	69	73	82	95	100	104	107	1007
Total	265	236	281	228	201	218	203	293	301	271	275	230	254	322	3578





ISSA

Slurry Systems Workshop



Reasons to Attend

- **SSWS/ISSA's thirty year history of training industry/agency personnel**
- **Personalized instruction**
- **Topics of importance to agencies include**
 - **Site selection**
 - **Design and Testing**
 - **Inspection**
- **Networking**
- **Offers Continuing Education Units (CEU's)**
- **Special registration fees for agency personnel**
- **Live Demonstrations**



ISSA

Slurry Systems Workshop



SSWS 2014

January 21-24, 2014

Caribe Royale Hotel

Orlando, Florida

Phone: 410-267-0023

Fax: 410-267-7546

E-mail: cerone@slurry.org


International Slurry Surfacing Association

www.slurry.org

**ISSA is part of the Pavement
Preservation & Recycling Alliance**

For reservation please call
888-258-7501 and be sure
to mention ISSA.

www.cariberoyale.com/



Training Opportunities with the National Center for Pavement Preservation (NCPP)

We can deliver training in your area.



SLURRY SEAL/MICRO-SURFACING & CHIP SEAL

Course Description

These one-day courses are intended to provide a comprehensive understanding of each system. The principal focus is to offer pavement practitioners the essential skills for selecting good candidate pavements, designing and estimating projects, and gaining awareness of good construction practices for successful projects.

SLURRY SEAL/MICRO-SURFACING & CHIP SEAL

Course Content

- **Fundamentals** - differences between these treatment techniques
- **Materials** - understanding material components
- **Design** – mix design and test requirements
- **Equipment** - operating principles of placement machines
- **Construction** - practical best-practice methods

SLURRY SEAL/MICRO-SURFACING & CHIP SEAL

About the Course

- **One Day** – personalized instruction
- **Endorsed** – peer reviewed by ISSA
- **University Based** – approved by Michigan State University
- **Credits** – 6 PDH's or 0.6 CEU's
- **Book** - resource notebook containing all class materials
- **Instructor** - practical experience

BASIC CONCEPTS FOR PAVEMENT PRESERVATION

Course Description

This course is intended to provide elected officials and practitioners with an introduction to the concept of pavement preservation and its applicability within road agencies. Topics include definitions, pavement life, road networks, alternative strategies, pavement distresses, guidelines, and preservation treatments.

Additional One-Day Training Opportunities

Top of the Curve

**(Fog Seals, Rejuvenators, Crack Sealing
& Filling)**

This course is intended to provide a comprehensive understanding of treatments applied early in a pavement's life. Topics range from the perspectives of pavement performance, design, materials, equipment (including best practices), construction, and project administration.



Cold In-place Recycling

The course will introduce various pavement recycling processes, and discuss the relative economic benefits of adopting in-place recycling methods. Topics include methods to evaluate pavements prior to selecting projects and the pavement design process for various traffic loadings. The best practices for construction inspection will also be covered.

NCPP Training Opportunities

For more information on the Slurry Seal & Micro-Surfacing class, a detailed cost quote, or to arrange a training session for your

organization, contact:

Patte at (517) 432-8220,

or email ncpp@egr.msu.edu.

International Slurry Surfacing Association (ISSA) & Federal Highway Administration (FHWA)

Interactive Web Based Training



International Slurry Surfacing Association
Slurry & Micro Surfacing, Chip Sealing & Crack Treatment



COMING SOON!

Free Training by ISSA and sponsored by the Federal Highways Administration

Improve your on-the-job performance. Learn cost saving pavement preservation techniques that benefit your agency/organization with training based on the ISSA High Performance Slurry Systems Inspectors Manual, the ISSA Technical Bulletins, and the Asphalt Emulsion Manufacturers Association's Basic Asphalt Emulsion Manual.

THREE WEB-BASED COURSES DEVELOPED BY ISSA COVER:

How to Construct High Quality Slurry Seal and Micro Surfacing Treatments – Part 1

The first of two modules, the purpose of which is to provide practical information to assist in the construction and inspection of high performance slurry system projects (slurry seal and micro surfacing). The Federal Highway Administration (FHWA) and ISSA have authorized this module to provide an educational tool that could be used by persons possessing limited familiarity with slurry system methods. Contractor performances along with user agency oversight both play an important role in the successful outcome of slurry systems projects. This training module will address both sides of the equation.

How to Construct a High Quality Slurry Seal and Micro Surfacing Project – Part 2

The second of two, this module focuses on construction best practices of both slurry seal and micro surfacing as published in the ISSA High Performance Slurry Systems Inspector's Manual.

How to Construct High Quality Chip Seal Treatments

Introducing best construction practices for chip seals, this course provides an overview of chip seal treatments and why they are needed. It discusses selecting the appropriate materials for chip seals, and how to store, transport, and apply sprayed asphalt treatments. This module also explains some best equipment practices.

**On-line access allows you to train when it's convenient for you!
New courses, session schedules, and syllabi will be posted
as they become available at slurry.org**

Founded in 1963, the International Slurry Surfacing Association (ISSA) is a nonprofit association dedicated to the interests, education and success of slurry seal, micro surfacing, chip sealing and crack treatment professionals and corporations around the world. Internationally recognized as the authority in asphalt slurry surfacing technology, ISSA promotes the highest standards of ethics and quality while providing its members with information, technical assistance and ongoing opportunities for networking and professional development.

Sponsored By:



[facebook.com/issa.social](https://www.facebook.com/issa.social)

twitter.com/ISSA4HQ

ISSA, #3 Church Circle – P.O. Box 260, Annapolis MD 21401, 410-267-0023
slurry.org

Date Issued: March 20, 2015





ISSA/FHWA Web Based Training



Course Titles & Descriptions

- **How to Construct High Quality Chip Seal Treatments**
- **How to Construct High Quality Slurry Seal & Micro Surfacing Treatments, Part 1**
- **How to Construct High Quality Slurry Seal & Micro Surfacing Treatments, Part 2**



ISSA/FHWA Web Based Training



- **NO COST**
- **Target Audience**
 - **Contractors**
 - **Agencies**
- **Self paced**
- **Interactive**
 - **Knowledge checks**
 - **Videos**



It is necessary to have some familiarity with aggregate properties to understand how the asphalt and the aggregate interact. The aggregate's key characteristics for suitable incorporation into a slurry system are:

- Aggregate Quality;
- Aggregate Gradation and Particle Size;
- Particle Shape;
- Particle Charge;
- Cleanliness;
- Toughness and Abrasion Resistance; and
- Durability and Soundness.

Select each key characteristic to learn more.

Aggregate

- The aggregate's key characteristics for suitable incorporation into a slurry system are:



Select each key characteristic to learn more.





International Slurry Surfacing Association

Slurry & Micro Surfacing, Chip Sealing & Crack Treatment



Knowledge
Check

Select the best answer. What is a chip seal?

- a) A surface treatment that consists of a layer(s) of asphalt with a layer(s) of embedded aggregate
- b) A sealant used to cover chips in asphalt
- c) An aggregate spread on the roadway that fills in cracks or chips
- d) Small aggregate “chips” that are mixed in a binder to produce a sealant product

Select the
best answer



Submit

Clear



International Slurry Surfacing Association

Slurry & Micro Surfacing, Chip Sealing & Crack Treatment



Slurry Seal and Micro Surfacing - Part 1

Outline Narration Search

Slide Notes

Slurry system treatments are mixed in specially designed equipment, either compact or truck mounted pavers, trailer mounted pavers, or continuous run pavers. Each type of placement machine carries a quantity of unmixed materials which are blended together in a continuous flow pug mill. The component materials are measured volumetrically through the calibration procedure and fed into the pug mill according to the proportions set forth in the accepted mix design.

Select each one to learn more.

Application Equipment



Select each photo to learn more.

31 Minutes 0 Seconds Remaining



Slide 26 / 66 | Stopped

00:00 / 00:29





ISSA/FHWA Web Based Training



- **Links to:**
 - **Source documents**
 - **Sample specifications**
 - **Calibration forms**
 - **White papers**



International Slurry Surfacing Association

Slurry & Micro Surfacing, Chip Sealing & Crack Treatment

[Resources](#) [Glossary](#) [Help](#)



Source Materials

- [Basic Asphalt Emulsion Manual, Fourth Edition, Asphalt Emulsion Manufacturers Association \(AEMA\)](#)
- [Seal Coat and Surface Treatment Manual, TxDOT](#)
- [Minnesota Seal Coat Handbook 2006, MnDOT](#)
- [Maintenance Technical Advisory Guide, Caltrans](#)
- [Construction of Hot Mix Asphalt Pavements, Second Edition, Asphalt Institute](#)
- [NCHRP Synthesis 342, Chip Seal Best Practices, 2005](#)
- [Maintenance Solutions for Bleeding and Flushed Pavements, TxDOT, 2006](#)

- International Slurry Surfacing Association (ISSA)
#3 Church Circle, PMB 250
Annapolis, MD 21401
(410) 267-0023
www.slurry.org

Chip Seal Treatments

[Outline](#)

[Narration](#)

[Search](#)

Slide Notes

The source materials for this training module are:

- Basic Asphalt Emulsion Manual, Fourth Edition, Asphalt Emulsion Manufacturers Association (AEMA);
- Seal Coat and Surface Treatment Manual, TxDOT;
- Minnesota Seal Coat Handbook 2006, MnDOT;
- Maintenance Technical Advisory Guide, Caltrans;
- Construction of Hot Mix Asphalt Pavements, Second Edition, Asphalt Institute;
- NCHRP Synthesis 342, Chip Seal Best Practices, 2005; and
- Maintenance Solutions for Bleeding and Flushed Pavements, TxDOT, 2006.

Select the links to get access to the source materials. Additional materials are available through the International Slurry Surfacing Association (ISSA).

77 Minutes 7 Seconds Remaining



Slide 3 / 81 | Buffering

00:00 / 00:56





ISSA/FHWA Web Based Training



- **Links to:**
 - **Source documents**
 - **Sample specifications**
 - **Calibration forms**
 - **White papers**
- **Personal Development Hours issued**
- **Link to register (www.slurry.org)**
- **Stand alone version**



Summary

- **Increased usage of Chip Seals, Slurry Seal & Micro Surfacing**
- **Travel restrictions & Budget cuts**
- **Need for training options (agency & applicator)**
- **All three training options have great value**
- **Technology transfer**
- **Benefits agency & applicator (taxpayer)**



FHWA/ISSA Web Based Training



**Coming Soon to the ISSA website at
WWW.Slurry.org**

Questions?

Thank You!