

city engineers are welcome too!

46th Annual Michigan County Engineers' Workshop

February 14-16, 2012

Includes **Hot Mix Asphalt Mix Design** professional development training on February 14



Professional Development: Hot Mix Asphalt Mix Design Workshop, February 14

When placing HMA pavement, how would you deal with poor compaction, shoving, segregation, or other problems? Fixing problems with HMA mixes can be challenging.

The HMA Mix Design Workshop will provide a detailed overview of the mix design process. Participants will learn about the strengths and weaknesses of Marshall and Superpave mixes. They will also learn how to properly evaluate asphalt binder performance characteristics, how to identify the right mix design for the job, how to troubleshoot placement problems and make adjustments to accommodate recycled materials. The workshop will include case studies from actual Michigan road projects.

Instructor

Timothy R. Murphy, P.E., is the founder and president of Murphy Pavement Technology of Chicago, IL. Mr. Murphy has been working in the asphalt industry for over 25 years. His range of research and training experience covers all aspects of asphalt design, construction, and testing. His clients include public road agencies, contractors, consultants, academia, and material suppliers around the world.

Workshop Overview

The 46th annual Michigan County Engineers' Workshop, sponsored by the County Road Association of Michigan (CRAM) and coordinated through Michigan's Local Technical Assistance Program (LTAP), provides county and municipal engineers opportunities to:

Listen as industry experts and peers present innovative ways to build, manage, and maintain roads and bridges.

Learn how the latest research and legislation affects the construction and maintenance of county roads and city streets.

Discuss equipment, products, and services that are relevant to the needs of county and city road agencies.

When and Where

February 14-16 at the Comfort Inn & Suites Hotel and Conference Center in Mount Pleasant, Michigan.

Cost and Registration

The cost is **\$195.00**, which includes professional development training, all workshop materials, break refreshments, and all meals that are listed on the agenda. The cost does not include accommodations.

To register, call Michigan's LTAP at 906-487-2102 by **February 7, 2012**. Please let us know if you have any special dietary needs. Call early to ensure registration.

No-shows or cancellations within seven business days prior to the event will be charged the full registration fee. Substitutions will be accepted.

Accommodations

A **block of rooms** has been set aside at the Comfort Inn & Suites. The cost is \$73.50 per night. To reserve a room, call 989-772-4000 and mention the County Engineers' Workshop. The deadline to reserve a room at the reduced rate is January 31.

➔ **Detailed agenda on pages 2 and 3**

Workshop Coordinators

Lance Malburg, P.E., Dickinson CRC (Chair) and Ryan Whiteherse, P.E., Saginaw CRC (Vice Chair)

CRAM Engineering Committee

- Wayne A. Schoonover, P.E., Ionia CRC (Chair)
- Tim O'Rourke, Roscommon CRC (Vice Chair)
- Thomas Blust, P.E., Oakland CRC
- John Cima, P.E., Houghton CRC
- Mark Craft, P.E., Gratiot CRC
- Karl Hanson, P.E., Wexford CRC

- Wayne Harrall, P.E., Kent CRC
- Craig Kelso, Schoolcraft CRC
- Robert Lindbeck, P.E., Alger CRC
- Joseph Michalsky, P.E., Jackson CRC
- Robert H. Peterson, P.E., Ingham CRC
- Ryan Whiteherse, P.E., Saginaw CRC





2012 County Engineers' Workshop

Agenda



Tuesday, February 14

Pre-Conference Workshop: Hot Mix Asphalt Mix Design

9:00 Morning Session

Michigan Mix Designs – Selecting the Right Mix
Strengths and Weaknesses of Marshall vs. Superpave
Managing Mix Designs – Binder Performance Characteristics

12:00 Lunch

1:00 Afternoon Session

Adjusting the Mix Design to Accommodate Recycled Materials
Troubleshooting Mixes – Case Studies from Michigan Road Projects

3:30 Adjourn

Dinner and Networking Roundtable

6:00 Dinner

7:00 Roundtable Discussion

9:00 Adjourn



Wednesday, February 15

Morning Session

8:10 Welcome and Introductions

8:15 When Heavy Loads Travel on Local Roads, Part 1:
Road Improvements for Large Manufacturing in Saginaw County
Russ Taylor – Thomas Township

9:00 Sources of Funding through MDOT Office of Economic Dev.
Michael Leon – MDOT Office of Economic Development

9:45 Break

10:00 Recycled Asphalt Shingles: Good and Bad Experiences
Brian Gutowski, P.E. – Emmett County Road Commission
Tim O'Rourke – Roscommon County Road Commission

11:00 Legal Issues Facing Local Transportation Agencies
Ed McNeely – Mcneely & Associates

12:00 Lunch Break



Registration deadline is February 7



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Wednesday, February 15

Afternoon Session

- 1:00 How to Rehab a Culvert Without Using a Backhoe
Robin Wolf – AP/M Permaform
- 1:30 Choosing, Processing, Stockpiling, and Using Aggregate
Stan Vitton, PhD., P.E. – Michigan Technological University
- 2:15 Summary of Changes in the MDOT 2012 Spec Book
Brenda O'Brien, P.E. – MDOT
- 3:15 Break
- 3:30 When Heavy Loads Travel on Local Roads, Part 2:
Wind Farm Construction from Start to Finish
Matt Lentini – Barton Malow
Kelly Bekken – Missaukee County Road Commission
Cliff Youngs, P.E. – Osceola County Road Commission
- 4:00 Building an Asset Management Plan
Brian Sanada – MDOT/TAMC
- 4:30 Adjourn

Awards Banquet and Special Presentation

- 6:00 Dinner and Awards
- 7:00 Presentation: Historic Michigan Maps
Christopher Bessert – Allegan County GIS Department

Thursday, February 16

Partner Updates

- 7:00 Breakfast
- 8:00 Updates from FHWA, MDOT, DEQ, and MITA
Kurt Zachary, P.E. – FHWA
Rudy Cadena, P.E. – MDOT
Jerry Fulcher, P.E. – DEQ
Doug Needham, P.E. – MITA
- 9:40 Break
- 9:50 Updates from NACE, CRAM, and LTAP
Luke Houlton, P.E. – NACE
John Niemela – CRAM
John Ryyanen – LTAP
- 10:50 Panel Discussion and Q&A
- 11:25 Adjourn

Call 906-487-2102 to register today

