



Local Technical Assistance Program
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 Michigan Technological University
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 Houghton, MI 49931-1295

Non-Profit Organization
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 Permit No. 11
 Houghton, Michigan
 49931

Michigan Concrete Paving Association's

2008 LOCAL ROADS SEMINAR

Ensuring Quality Concrete

Making Sure You Get the Performance You Pay For

October 8..... Novi
 October 15.....Grand Rapids
 October 22..... Okemos
 October 29.....Troy

Sponsored by



**Michigan's
 Local Technical
 Assistance Program**



2008 LOCAL ROADS SEMINAR

How can you make sure the concrete delivered and placed on your job is what you specified and paid for?

The Michigan Concrete Paving Association in conjunction with Michigan's Local Technical Assistance Program will host a one-day local roads seminar in four locations across the state to help answer this question. Industry experts will discuss concrete specifications and materials, mixture design and analysis, inspection and testing, and other topics for ensuring quality concrete.

Seminar Locations and Dates

- October 8, 2008** **Novi**
Hotel Baronette
27790 Novi Road
Novi, MI 48377
248-349-7800
- October 15, 2008** **Grand Rapids**
Hilton Grand Rapids Airport
4747 28th Street
Grand Rapids, MI 49512
616-957-0100
- October 22, 2008** **Okemos**
Mich. Infrastructure and Transportation
Association/MCPA Office
2937 Atrium Dr.,
Okemos, 48864
517-347-7720
- October 29, 2008** **Troy**
MSU Management Education Center
811 W. Square Lake Road
Troy, MI 48098
248-879-2456

To register, contact Michigan's LTAP

Tel 906-487-2102

registration fee (all locations): \$65

No-shows and cancellations within three business days of the session will be charged the full registration fee. Substitutions will be accepted.

Agenda

- 8:00 Registration, Coffee and Continental Breakfast**
- 8:30 Welcome and Introductions**
- 8:40 Concrete Specifications**
What should good concrete specifications contain? What should be avoided in concrete specification language? The terminology of concrete specs will be discussed, and MDOT concrete specifications will be examined.
- 9:30 Concrete Materials**
This session will cover the basic material properties of concrete mixtures and the critical items that need attention in today's concrete mixtures. With the ever-increasing use of supplementary cementitious materials (SCMs) such as fly ash, slag cement, and silica fume, concrete is not the same as it used to be. Along with the benefits that SCMs bring, there are some changes that need to be made to the materials handling and construction processes to ensure the good performance and sustainability that concrete is known for.
- 10:00 BREAK**
- 10:15 Concrete Materials (continued)**
- 10:45 Concrete Mixture Design and Analysis**
What should a good mix design look like? On what basis should you approve or reject a mix design? Attendees will learn how concrete mixtures are typically developed and proportioned for specific applications. They will also learn about analyzing aggregates, gradation, cementitious content, and other components to economize your concrete mix design.
- 12:00 Lunch (on your own)**
- 1:00 Inspection and Testing**
When concrete is delivered to the job site, what are you really buying? What should you look for and expect? From batching to delivery, and placement to finishing, attendees will be trained on how to properly inspect a concrete construction project. Items such as workability, testing of the concrete, and basis of acceptance or rejection will be covered.
- 2:15 Scaling and Durability**
Severe winter weather can stress even the best-built concrete pavement, bridge, curb, or sidewalk. Learn the reasons behind scaling and other durability topics so that these issues can be avoided in the future.
- 2:45 Questions and Discussion**
- 3:00 Adjourn**



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