

**Final Agendum Materials Engineers' Organization (MEO) Meeting**  
**District 6 - Rochester Headquarters Thursday and Friday April 23 - 24, 2009**    Π4/20/2009

**Day 1 - Thursday April 23, 2009, AM Session MEO Pre-meeting District Materials Engineers, Glenn Engstrom, & MEO Chair Only**

9:30 - 10:10	Gcoprobe - <b>Glenn Engstrom</b>
10:10 - 10:15	MEO Out-of-State Trip
10:15 - 10:30	Prevention of Repetitive motion injures - <b>John Hagar</b>
10:30 - 10:50	Alternate bid experience and use of fabric interlayer in lieu of bituminous for unbonded concrete overlays - <b>Art Bolland</b>
10:50 - 11:05	White topping/Unbounded Concrete Overlays - <b>Mr. Van Deusen</b>
11:05 - 11:30	Preventative Maintenance Strategies - <b>Tom Meath</b>

**Day 1 - Thursday April 23, 2009, PM Session MEO Joint Meeting with the SEO**

12:30 - 12:40	Introductions <b>Terry B. Chair</b>
✓ 12:40 - 1:20	Pavement Selection Alternate Bid - <b>Curt Turgeon</b>
✓ 1:20 - 1:40	Grading & Base Items "Update of the potential for modifying the OGAB specification". - <b>Tim Andersen</b>
✓ 1:40 - 2:10	MnPave - <b>Bruce Chadbourn</b>
✓ 2:10 - 2:30	FWD - <b>Erland Lukanen</b>
2:30 - 2:45	Break
✓ 2:45 - 3:05	Preventive Maintenance - <b>Erland Lukanen</b>
✓ 3:05 - 3:25	Pavement Design - <b>Jerry Geib</b>
✓ 3:25 - 3:50	Unified Soil Classification Discussion ( <b>Gary Person &amp; Tim Andersen</b> )
✓ 3:50 - 4:10	Pavement Management - <b>Dave Janisch</b>
✓ 4:10 - 4:30	Bituminous (New High-speed centrifuge in CO Bituminous lab, celite ashing etc.) - <b>John Garrity</b>
✓ 4:30 - 4:40	Liaisons: Soils Engineers

**Day 2 - Friday April 24, 2009, AM Session - MEO**

8:00 - 8:20	Shingles and Rap - <b>Roger Olson</b>
8:20 - 8:40	Full Depth Reclamation Stabilized @ Mn/ROAD - <b>Mr. Thomas Wood</b>
8:40 - 9:10	35W Bridge - <b>Terry Ward</b>
9:10 - 9:25	Lab Issues - <b>Terry Beaudry</b>
9:25 - 9:40	Break
9:40 - 10:10	Materials Office Issues - <b>Keith Shannon</b>
10:10 - 10:30	Concrete Issues - <b>Ron Mulvaney</b>
10:30 - 11:15	Committee Updates <ul style="list-style-type: none"> <li>a. Drainage Committee</li> <li>b. Reclamation Committee</li> <li>c. Streamlining Committee</li> </ul>
11:15 - 11:45	Liaisons: <ul style="list-style-type: none"> <li>a. Lab Chiefs - <b>Ken DeCramer (D6)</b></li> <li>b. Independent Assurance - <b>Ken DeCramer for John Micheau (D6)</b></li> <li>c. Construction Managers Group - <b>Craig Collison (D2)</b></li> <li>d. Design Engineers - <b>Mike Kempinger D6</b></li> </ul>
11:45 - Noon	Round Robin
Noon - 12:10	Housecleaning & Election of a new Vice-Chair

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NEXT MTG FALL ST CLOUD

April 23-24 '09

# D6 MEO + SEO Joint Mtg.

MEO CHAIR TERRY BEAUDRY  
NOTE TAKER JERRY GEIB

## ALT BIDS BY CURT TURGEON 2009 Projects

DB TH 23 let, no PLL bids

D1 TH 53 Letting on 4-24-09

2.7 mi SB section is alt bids

### NEXT

D2 TH 2 slide area

D7 TH 60

D8 ?

Action: Do ALT BIDS, whenever possible  
Std 26' width of travel lanes  
May use Sq Yd pavement pay item  
May use Sq Yd shoulder pay item  
Art B. "Alt Bids need a Alternate"

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Grading + Base TIM ANDERSEN

Discussion  
no handout  
no ppt

see ppt

- Annual LWD calibrations can run as high as \$60,000 / yr. We will do other methods
- 4 of 27 LWD's were calibrated this yr.
- water table can effect results
- When stiffness is reached, Is density Achieved  
Ans. We do NOT know.
- There is MUCH to learn

IC Goal is Uniformity

- Spec is under constant revisions
- In Granulars: use IC with moisture testing

## MnPAve Bruce Chadbourn

MnPAVE is M-E related

**Project**: information for S.P.

**Climate**: from project location  
data from 47 weather stations

**Structure**

added Confidence Level levels  
has Basic, Intermediate, Advance

**Traffic**

load spectrum data is based on limited data

**Output**

Default confidence is 85%

HAS PPT.

Bruce recommends 70% Confidence Level

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## FWD Erland Lukonen

See Handout  
See PPT.

- FWD influence is +/- 20' deep
- MN research is used
- See slide 9 of G.E. vs deflection for different R-values
- See slide 12: FWD deflection basin can be used to calc R value + BB, SOLVE for GE.
- ALLOWABLE LOADS - slide 23
- LIMIT DEFLECTIONS to Prevent structural damage
- No provision for Soil Type
- Based on low traffic

GREAT HANDOUT READ IT

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## Preventive Maint Luke

See Handout  
See .PPT.

### Update on P.M. Activities

- FHWA appraisal in Jan 2009  
Final report due May 19th
  - Annual PM Report was sent to MEO's
  - ★ - Control Section data handout was given to Matls Engrs.
  - ★ - Have a CONTROL SECTION on your P.M. jobs - start at R.P.'s
    - Need to Improve Ride
    - Starting Performance Modeling
    - Visiting Districts
- 

## LCCA Tech Memo - Geib

# Unified Soil Classification Gary Person ; Tim Anderson

Mike : Unified is for people who cannot classify soils. Unified is beneficial to foundations.  
Triaxial uses <sup>\*</sup>10 material.

2 Handouts  
Gary has .PPT

Gary : MnDOT is only DOT using Triaxial  
- Unified ASTM D2488  
- Foundations is starting to use the Unified System

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## PAVEMENT MANAGEMENT DAVE JANISCH

See Handout  
also has .PPT

### UPDATE

Staff : Joe Voels replaced Chris Cochran  
Vans : certified and on the roads  
ARRA money : 75% of stimulus on PA  
only on 3.5% of all TH miles

Improvements in Roads will be minimal  
Comment : put Omnibus Survey \$ into Bridges and Roads

HPMA (P.M. HMA and PCC) prices are being Updated

# "Buytuminous" Update

JOHN GARRITY

see handout  
see .ppt

~~XXXXXXXXXX~~

- WMA in 2009 case-by-case basis about \$200/ton increase in cost
- LC 3 Sakai rollers, maybe MOBA uniform mat compaction
- PG Binders usage being updated
- One High Speed Centrifuge in the lab
  - cost \$4,500. for A.C. content
- Solvents: use C ELITE
- See April 16, 2009 MISC. MEMO
- Stabilized PDR

G.E. & I.S. may be 1.7-1.8

Aug 2009 open house 25<sup>th</sup>-26<sup>th</sup>

- GPR contact Steve Adamsky

MEO Day 2

Stabilized FDR by Jerry Geib for Tom Wood

see .ppt

Details about Cells 2, 3, & 4  
at MnROAD

3.5M ESAL Design 3" of HMA  
Good Q & A followed

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see .ppt

Shingles - Roger Olson

Envir Serv. - test every load/roof  
Manufactured Waste Spec is in place  
Tear off Waste is under development  
70% of A.C. must be new binder

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see Handout

I-35 W BRIDGE TERRY WARD

Discussion of New I-35 W bridge

## OM &amp; RR KEITH

## GEOPROBE UPDATE

ALT Bid CURT TURGEON on Lead, Task Force

Mike Barnes is supportive

★ Also consider on long term rehab.

Using HPMA to "invest" in pavements

400M ⇒ 50% long, 50% short term

200M ⇒ 25% long, 75% short term

discussion

## CONCRETE RON MULVANEY

WEBSITE HAS BEEN UPDATED

OK TO USE MOISTURE PROBE, know the RULES

PAVING - TEST MOISTURE BEFORE 1<sup>st</sup> LOAD

Class A for PCC → discussion about approving  
same class B

Action Terry B to look into Kehlner pit

see .ppt



{ Many update to  
PAVING, BR PCC, approach panels

1/8" single cut w/ 3TZ5

Suck up PCC grinding Slurry

Updating CPR stds.

see .ppt  
also - handbook

Drainage - John Hager  
 Good mtg w/ Betty Buckley  
 Cleaning up OGAB, PASB/PASSRC

Hager  
 Bittman  
 Gilbertson  
 Adamsky

Reclamation - (Adamsky) by Hager  
 Looking for 2010 job  $\approx$  3 test sections

Action: NEED COMMITTEE MEMBERSHIP from Steve

Gilbertson

Streamlining  
 - no activity to report

INDEPENDENT ASSURANCE COMMITTEE

New: proposed by CURT  
 start Date: fall 2009

Tony Kempenich

Jim Bittman

Metro ~~TR~~ DVD

LIAISONS

LAB CHIEFS KEN DECRAMER DG

no issues for MEO

Billing Issues for Stimulus Jobs



Notes from District materials engineers meeting Craig Collison with some edits by Terry Beaudry.

**Out of state travel** – No interest for 2009, workload does not allow. For 2010, Tony Kempenich is the candidate.

**PM** - Materials group and CO materials will be reviewing the impact and cost effectiveness of pavement preservation activities. We have been do this for a few years now and should have some data. The costs of some of the work types has changed considerably and it may impact the cost effectiveness.

**High Cost of CPR** –Environmental rules because of the interpretation of NPDES permit are a big issue and concern. A major issue is how to handle the slurry from diamond grinding.

**Geoprobe vehicles.**

Approximately \$450,000 was gathered to purchase two units. One track rig and one truck-mounted rig have been ordered. At the current time the track rig will be located in D7 and the truck rig will be located in D3.

It was to late to order a towing unit for the track rig. In addition the cone penetrometer attachments for the D4 unit have been ordered.(approximate cost \$50K). This leaves about \$120,000 left. It would be possible to use this to order one more unit (without the cone attachments.)

Recommendation for location of this rig to be developed. If a third rig were purchased the material engineers recommended a track rig be purchased and placed in D3, the truck would be located in d2 or d6.

**Foundation Unit** is changing to the unified soil classification system.