1. Asphalt Pavement Rehabilitation: Products, Processes, and Strategies

2. Culvert Installation, Maintenance, and Inspection
Asphalt Pavement Rehabilitation: Products, Processes, and Strategies

February 19, 2019, MnDOT District 4A, 1000 Highway 10 West, Detroit Lakes, MN 56501
February 26, 2019, City of Blaine Public Works, 1801 101st Avenue NE, Blaine, MN 55449
February 28, 2019, MnDOT District 7A, 2151 Bassett Drive, Mankato, MN 56001

Registration begins at 8:00 a.m. Workshop is scheduled from 8:30 a.m. to 3:30 p.m.

Workshop Description
This workshop is designed to provide an overview of the available technology and tools that make implementing an effective pavement rehabilitation program feasible. A successful pavement rehabilitation program encompasses a full range of rehabilitation strategies and maintenance treatments, with the goal of enhancing pavement performance (ride, quality, safety, service life, etc.) and life (LCC, pavement durability). Additionally, the workshop will introduce some new pavement rehabilitation techniques.

Topics Covered
- Techniques for asphalt and concrete pavement evaluation, including pavement condition rating
- Discussion of how to select the best rehabilitation strategy: choosing the right process at the right time on the right project
- Overview of the various rehabilitation processes and their construction practices: asphalt reclamation, cold-in-place recycling, overlays, inlays, and new technology or processes; concrete rehabilitation, overlays, and new technology or processes
- Overview of material properties: how they are used and how to get the best performance from them
- Introduction to pavement and network performance measures and specifications

Who Should Attend
Engineers, managers, supervisors, and technicians responsible for pavement maintenance, design, and construction.

Workshop Instructor
Dan Wegman, PE, has worked with DOTs and local governments in several states with pavement rehabilitation and preventive maintenance strategies. As a former MnDOT construction and bituminous engineer and with over fifteen years working as a private sector material supplier and pavement consultant, Wegman provides technical insight with respect to materials, construction, and implementation.

Registration and Fees
The registration fee includes lunch, coffee breaks, and program materials. A refund of the registration fee, minus a $30 cancellation fee, will be made if cancellation is received five working days prior to the workshop. Disability accommodations are available upon request.

Professional Development Hours (6.0 PDHs)
Roads Scholar Program (1.0 Credit)
Culvert Installation, Maintenance, and Inspection

March 7, 2019, Holiday Inn Hotel and Suites, 200 W First Street, Duluth, MN 55802
March 28, 2019, Hennepin County Public Works Facility, 1600 Prairie Drive, Medina, MN 55340
April 4, 2019, Doubletree by Hilton, 150 S Broadway, Rochester, MN 55904

Registration begins at 8:00 a.m. Workshop is scheduled from 8:30 a.m. to 3:30 p.m.

Workshop Description
In this course, students will learn about the purpose of well-designed, well-built, and well-maintained culverts. The course also highlights the important role culverts play in the drainage system and why proper design, installation, and maintenance are essential for well-performing culverts. The course will provide students with a basic understanding of the principles of culvert theory, design, location, planning, scheduling, permitting, and typical installations. It also outlines culvert inventory, inspection, repair, and rehabilitation methods.

Topics Covered
- Theory and Design
- Installation Prep
- Open Cut Installation
- Trenchless Installation
- Rehabilitation
- Inspection and Maintenance

Who Should Attend
This course was developed for engineers, supervisors, and technicians who regularly work with culverts. It is targeted at individuals who install and maintain culverts as well as those who perform simple designs.

Workshop Instructors
Ann Johnson, PE, has taught at the University of Minnesota in both the Civil Engineering and Construction Management program for over 20 years. She also develops and teaches workshops and courses for MN LTAP, AirTAP, and the Center for Transportation Studies (CTS). She is licensed in both Minnesota and Wisconsin and is the president of Professional Engineering Services, a civil engineering firm that specializes in construction inspection and construction-related teaching.

Eric Johnson is a 1993 graduate of the University of Wisconsin−Eau Claire with a BA in secondary English education. He has taught both exposition and literature courses during his years as a high school English teacher. Eric has most recently worked as a construction inspector for Professional Engineering Services. Over the last 20 years, Eric has served as an inspector on many local municipal projects, including the Guthrie Theater, Target Field, Highway 212, the Central Corridor and SW Corridor Light Rail projects, the 35E MnPASS project, HWY 610, various METC sewer rehab projects, and Saint Paul Metro Waste Water Treatment Plant renovation. He carries multiple MnDOT inspection certifications as well as the national CIPP inspection certification through NASSCO.
Registration and Fees
The registration fee includes lunch, coffee breaks, and program materials. A refund of the registration fee, minus a $30 cancellation fee, will be made if cancellation is received five working days prior to the workshop. Disability accommodations are available upon request.

Professional Development Hours (6.0 PDHs)
Roads Scholar Program (1.0 Credit)

Program Contact
College of Continuing and Professional Studies, University of Minnesota,
email: ccapsconf2@umn.edu

Registration Contact
CCAPS Registration Center, 612-625-2900; fax: 612-624-5359;
email: ccapsreg@umn.edu

The University of Minnesota is an equal opportunity educator and employer.
Disability accommodations are available upon request.
Registration Form

Name (Last)* ______________________________ (First)* ______________________________

Employer/Organization* ______________________________ Title ______________________________

Address* ______________________________ ______________________________ ______________________________

City* ______________________________ State* ______________________________ Zip Code* ______________________________

Email* ______________________________ ______________________________ ______________________________

Telephone ______________________________ Fax ______________________________

*Information in the section above is private data. Items marked by an asterisk (*) are required for identification and to establish your student record. Information is shared with the registrar's office, your instructor, and other University offices for the purposes of record keeping, affirmative action, and reporting.

1 Asphalt Pavement Rehabilitation: Products, Processes, and Strategies  ENGR X346

Please select location:

___ February 19, Detroit Lakes (013)  ___ $60–Township & Tribal representatives

___ February 26, Blaine (014)  ___ $70–City, County, State, and Federal representatives

___ February 28, Mankato (015)  ___ $150–All others

Online Registration (credit card only): mnltap.umn.edu/asphaltpavementrehab

2 Culverts Installation, Maintenance, and Inspection    CF1545

Please select location:

___ March 7, Duluth  ___ $60–Township & Tribal representatives

___ March 28, Medina  ___ $70–City, County, State, and Federal representatives

___ April 4, Rochester  ___ $150–All others

Online Registration (credit card only): mnltap.umn.edu/culvertinstallation

If your check is returned because of insufficient funds or closed account, or because you have made a stop payment request, you will be charged a check handling fee of $20.

Method of Payment (please check one)

☐ Enclosed is a check or money order payable to University of Minnesota.

☐ Enclosed is a purchase order or letter of authorization to bill my employer.

☐ Charge to: ☐ Visa ☐ MasterCard ☐ Discover ☐ AMEX

Account number ______________________________ Expiration date ______________________________

Name as printed on card ______________________________ Signature ______________________________

Register by fax: 612-624-5359

Register by mail:
CCAPS Registration Center, University of Minnesota,
353 Ruttan Hall, 1994 Buford Avenue, Saint Paul, MN 55108
MINNESOTA LTAP

Asphalt Pavement Rehabilitation: Products, Processes, and Strategies

Culvert Installation, Maintenance, and Inspection