

The Oregon Technology Transfer (T2) Center

Announces the . . .



PROGRAM DESCRIPTION:

Local governments in the state of Oregon are responsible for the maintenance of over 33,000 miles of roads and streets (60% of the total public road mileage in the state). Over the past few years, more diverse skills have become necessary for maintenance activities.

Local governments also continually search for ways to stretch maintenance dollars and improve employee effectiveness. Increasing awareness and understanding of road issues with

training is one way to increase effectiveness.

Through the *Roads Scholar* Program, local government personnel will be given the opportunity to enhance their maintenance skills, with training on current procedures and technologies. The program will also provide an opportunity to develop an agency's greatest asset - employees.

PROGRAM REQUIREMENTS:

The Oregon *Roads Scholar* Program consists of 14 four-hour maintenance related training classes. Each class will be offered on several occasions in centrally located sites. Classes will also be presented at the biannual **APWA and T2 Street Maintenance and Collection Systems Schools**.

To become an Oregon *Roads Scholar* and receive a certificate, you must complete ten core (required) classes and four elective

classes. The core classes will include an exam. Elective classes must be four hours in length and approved through the T2 Center. While the entire program can be completed in four years, up to five years will be allowed for completion.

INFORMATION:

For more information about the Oregon *Roads Scholar* Program or the Technology Transfer (T2) Program, contact Kathy at (503) 986-2855 or the T2 Director, Bob Rath via email at: bob.raths@odot.state.or.us

Current information is posted on the T2 website. Check it out at: http://www.oregon.gov/ODOT/TD/TP_T2/



REQUIRED *ROADS* SCHOLAR CLASSES

- 1. Basics of a Good Road:** An introduction to the *Roads Scholar* Program. The class will include a general overview on the topics of traffic, road geometrics, drainage, materials, and pavements.
- 2. Drainage: The Key to Roads that Last:** Examines the effects of water on roadways. The class will address how water enters the roadway, types of drainage systems and maintenance and repair techniques.
- 3. Paving Materials:** Provides an introduction into the key properties of aggregates and binders necessary for good paving materials. Also discusses types of binders including asphalt cement and emulsions.
- 4. Environmental BMPs I:** An overview of best management practices (BMPs) to minimize impacts to water quality from routine road maintenance activities. The focus will be on the impacts to fish and fish habitat.
- 5. Asphalt Pavement Maintenance I:** Reviews the types of pavements and causes of distress. Presents the best practices for corrective maintenance including inlay, blade and machine patching, and crack filling.
- 6. Asphalt Pavement Maintenance II:** Reviews types of asphalt pavements and causes of distress. Presents preventive maintenance alternatives including fog seals, slurry seals, and chip seals. Discusses alternative selection and the best construction practices.
- 7. Effective Communication Skills:** Will present listening, speaking, and writing skills for more effective communication.
- 8. Environmental BMPs II:** An overview of erosion control and environmentally friendly vegetation management methods.
- 9. Maintenance Math:** A refresher and beginner class for public works employees. The course teaches the student how to calculate areas, volumes, rates, and costs to solve common maintenance problems encountered in the field.
- 10. Introduction to Survey and Grade Checking:** Instructs the student on basic surveying techniques including how to measure a slope and calculate an elevation. Includes a demonstration of the setup and use of basic surveying instruments.