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Forest Road Surfacing

Basic Design Principles and Applied Practices



November 8-9, 2018 • Coeur d'Alene, ID

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Workshop Agenda – Nov. 8, 2018

8:30 am DAY ONE

Introduction, Expectations, and Workshop Overview

10:00 am

Common Road Surfacing Issues

- *The What, Where, and When Factors: Geology, Soils, Aggregate, Road Prism and Maintenance.*
- *How They Make a Difference in Costs, Water Quality and Safety.*

9:30 am Break

10:00 am

Soils Engineering – Relating Basic Properties to Road Surface Design

- *Subgrade*
- *Soil Classification*
- *Soil Moisture Content and Density*

12:00 pm Lunch (included with registration)

1:00 pm

Soils Engineering – Relating Mechanical Properties to Road Surface Design

- *Potential Soil Strength vs. Actual Soil Strength*
- *Geosynthetics*
- *Subgrade Stabilization*

2:30 pm Break

3:00 pm

How to Access Local Rock Sources

- *Geology Considerations*
- *Rock Source Suitability*
- *Rock Classification Methods*
- *Aggregate Production and Development*

4:00 pm

Summary and Q&A

5:00 pm Adjourn

Workshop Agenda – Nov 9, 2018

8:00 am DAY TWO

Does the Rock Meet My Needs?

- *Gradation*
- *Durability*
- *Dust Abatement*
- *Recycling Aggregate*
- *Use of RAP*

9:30 am Break

10:00 am

Commonly Used Aggregate Design Methods

- *AASHTO 1993 - Rut Equation*
- *USDA Forest Service - STP*
- *OR Dept. of Forestry Surfacing Guidance*
- *Using What Has Worked in the Past*

12:00 pm Lunch (included with registration)

1:00 pm

Surfacing Design Example Problems

- *Year-round Haul*
- *Seasonal Haul*
- *Restricted Haul*

2:30 pm Break

3:00 pm

Road Surfacing BMPs and Sediment Reduction

- *Mechanics of Sediment Production from Forest Roads*
- *Mitigating Surfacing Erosion*
- *BMPs*

4:00 pm

Summary and Q&A

4:30 pm Adjourn

Workshop Location

The session will be held at the Coeur d'Alene Resort at 115 S 2nd St, Coeur d'Alene, ID.

Lodging Information

Reduced rate lodging is available at the Coeur d'Alene Resort by calling (208) 209-5031 and mentioning Road Surface Workshop.

Registration

The registration fee is \$325 if received by either 11/1 or \$395 if received after 11/1. The registration fee includes a book of speaker materials, lunch and refreshments. Checks should be made payable to Western Forestry and Conservation Association. Purchase orders, VISA/MasterCard, and American Express are accepted. Tax id # 930-331-712. No refunds for cancellations within 1 week of either session, but substitutions are always welcome.

Society of American CFE Credits

By attending either workshop, participants will be eligible for CFE credits through the Society of American Foresters.

Registration questions?

Call Melinda at (503) 226-4562
or melinda@westernforestry.org

Western Forestry and Conservation Association

4033 SW Canyon Rd., Portland, OR 97221
503-226-4562 • Fax: 503-226-2515

Register online at westernforestry.org

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