



IRF
GLOBAL

Use of Recycled Materials in Roadways

Expert training by professionals, for professionals

Los Angeles, CA USA
July 13-17, 2020



Workshop



The Use of Recycled Materials in Roadways

July 13 – 17, 2020

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Background

This Workshop will address the use of recycled materials in roadways. The value of roadways is well known, often one of the most significant investments an agency owns. Recycling of roadway materials should always be considered when maintaining, rehabilitating or building new roadways. There are numerous techniques and standards that are well-established, and each approach should be considered before selecting the most appropriate for a specific project.

Maybe more importantly there are many non-traditional waste or by-product materials that have found their way into use in roadways. Recycled Tire Rubber has a well-established role in asphalt paving. Plastic, Crushed Portland Cement Concrete, Contaminated Soils, Fly-Ash, Slag, Paper and many other Industrial by-products and Post Consumer materials have found practical uses in paving.

This Workshop aims to explain what works and why. The need to divert these materials from landfills or being dumped into the environment is of great importance to all of us.

Learning Objectives

- ✓ **Understand the recycled materials, processes and techniques currently in use.**
- ✓ **Explore the use of recycled materials used in maintenance, rehabilitation and new construction.**
- ✓ **Enhance your techniques to divert waste from landfills into roadways to improve the quality of pavements.**
- ✓ **Identify and solve common production and construction issues when using recycled materials**

Schedule

July 13

08:00 – 8:30	IRF training registration, IRF and instructor introduction
8:30 – 10:00	History and Development Recycled materials in Roadways
10:00 – 10:30	Break
10:30 – 12:00	Asphalt as a Material
12:00 – 13:00	Break and Lunch
13:00 – 14:00	Asphalt Binder Testing
14:00 – 14:30	Break
14:30 – 16:00	Managing RAP
16:00 – 16:30	Questions?

July 14

8:00 – 10:00	Full Depth Reclamation
10:00 – 10:30	Break
11:30 – 13:00	Lunch
13:00 – 14:00	Recycling Tire Rubber in Modified Asphalt
14:00 – 14:30	Break
14:30 – 16:00	Tack Coat Best Practices

July 15

08:00 – 9:30	longitudinal joint construction — Bill O’Leary
9:30 – 10:00	Break
10:00 – 11:30	longitudinal joint construction (continued)— Bill O’Leary
11:30 – 13:00	Lunch
13:00 – 15:00	Routine Pavement Maintenance – Bill O’Leary
15:00 – 15:30	Break
15:30 – 16:30	A Summary of Performance Data: 25 Years of Recycled Pavements

July 16

8:00 – 9:00	Recycling Asphalt Shingles in Hot Mix – Bill O’Leary
9:00 – 10:00	Recycled Asphalt Shingles in Texas
10:00 – 10:30	Break
10:30 – 12:00	Pavement Maintenance and Pavement Preservation – Bill O’Leary
12:00 – 13:00	Lunch
13:00 – 14:30	Cold Central Plant Recycling – Bill O’Leary
14:30 – 15:30	Break
15:30 – 16:30	New Thin Hot-Mix Overlays – Bill O’Leary

July 17

08:00 – 9:30	Recycling Concrete – Bill O’Leary
9:30 – 10:00	Break
10:00 – 11:30	Cold In-Place Recycling
11:30 – 13:30	Lunch
13:00 – 15:00	Surface Applied Recycling and Sealing
15:00 – 15:30	Break
15:30 - 16:30	Asphalt Recycling Report

Lead Instructor



William F. O'Leary
International Road Federation

Mr. O'Leary has been involved in the production of asphalt and asphalt emulsions since 1980 primarily as the President and founder of Prime Materials and Supply a Texas based asphalt emulsion producer. He is a longtime advocate for Pavement Preservation serving multiple terms as President of the Foundation for Pavement Preservation (FP2) that provides resources to advance knowledge for managing and preserving pavements. FP2 supports research to educate government and industry professionals in the economical, safety and performance advantages of pavement preservation. Two term President of the Asphalt Emulsion Manufacturers Association, an International Organization representing the asphalt emulsion industry. Appointed member of Transportation Research Board Committee on Pavement Maintenance AHD-20 and as a board member of numerous other industry associations. Bill has an in-depth knowledge of asphalt materials from production to placement and has conducted seminars and made hundreds of presentations.

Venue & Registrations

Four Points by Sheraton Los Angeles Westside
5990 Green Valley Circle, Culver City
Los Angeles, CA United States

Rates:

- **3000 USD IRF Members**
- **3500 USD Non IRF Members**
- **1500 USD US State DOTs & City Officials**



Accommodations:

[Holiday Inn Hotel & Suites Alexandria](#) (Special Rates for IRF Guests)

625 First St, Alexandria, VA 22314

Registration: <https://www.irf.global/event/rmr20-ws-losangeles/>

For any support, please contact melabyad@irf.global

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