



IRF
GLOBAL

Use of Recycled Materials in Roadways

Berlin, Germany
July 1-7, 2023



Workshop



Use of Recycled Materials in Roadways

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Background

This 5-day course is designed to provide participants with a comprehensive understanding of the use of recycled materials in roadways. The course will cover topics such as the benefits of using recycled materials in road construction, design and specification considerations, material production and quality control, construction and maintenance techniques, and innovative applications of recycled materials. The course will be led by industry experts and will include case studies, interactive sessions, and open discussions. Participants will leave the course with a solid understanding of how to incorporate recycled materials into road projects, as well as an appreciation for the environmental and economic benefits of using these materials.

Why In Person Training?

- Expert training by Professionals for Professionals
- Access IRF's unique curriculum and lectures developed by world-class specialists
- Demonstrations from equipment vendors
- Field trips to transportation centers of excellence
- Small class size & scheduled One-on One sessions with instructors
- Interactive group projects and case studies
- Receive IRF Certification



IRF Global is now recognized as an approved training provider by the Chartered Institution of Highways and Transportation (CIHT), a respected professional body that provides transportation professionals with recognition, support and business insights to accelerate their careers and influence the future of the sector.

Learning Objectives

- ✓ Understand the benefits and limitations of using recycled materials in road construction
- ✓ Identify suitable recycled materials for road construction
- ✓ Analyze the design considerations and methodologies for incorporating recycled materials
- ✓ Assess the environmental and sustainability aspects of using recycled materials in roadways
- ✓ Develop strategies for successful implementation of recycled materials in road projects

Target Audience

- Civil engineers and Road Construction professionals
- Environmental Engineers and Sustainability Professionals.
- Contractors and Construction companies
- Municipal and Government officials
- Material Suppliers and Manufacturers
- Academics and Researchers

Lead Instructor



Dr. Carlos Chang, Professor, Florida International University

Dr. Carlos M. Chang is an Associate Professor in the Department of Civil and Environmental Engineering at Florida International University (FIU). Prior to joining FIU in August 2020, Dr. Chang worked as an Associate Professor at the Department of Civil Engineering at the University of Texas at El Paso (UTEP), Associate Researcher at the Texas A&M Transportation Institute (TTI), and international consultant for the Inter-American Development Bank (IDB) and engineering companies in road projects overseas. Dr.

Chang is frequently invited as a keynote speaker at international conferences and as a subject matter expert in technical committees.

Registration

- 3,000 USD IRF Members / Groups of 3 or more
- 3,500 USD Non-IRF Members

Seminar Hotel:

COURTYARD BY MARRIOTT BERLIN CITY CENTER

Address: Axel-Springer-Strasse 55, 10117 Berlin

Phone: +49 30-800 928 0

Website: <https://www.marriott.com/en-us/hotels/bermt-courtyard-berlin-city-center>

Registration: <https://www.irf.global/event/rm23-ws-berlin>

For any support, please contact melabyad@irf.global

Schedule

Saturday - Friday (9:00 AM– 4:00 PM)

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Saturday, July 1	<ul style="list-style-type: none">• Introduction to the course• Overview of recycled materials and their benefits• Types of recycled materials commonly used in road construction• Performance benefits of recycled materials in roadways• Case studies of successful road projects that used recycled materials
Sunday, July 2	<ul style="list-style-type: none">• Understanding the design and specification process for using recycled materials in roadways• Factors that affect the use of recycled materials in road construction• Design considerations for different types of recycled materials• Specifications and standards for recycled materials in roadways
Monday, July 3	<ul style="list-style-type: none">• Overview of the production process for recycled materials used in roadways• Quality control considerations for recycled materials• Sampling and testing of recycled materials• Challenges and best practices for producing high-quality recycled materials
Tuesday, July 4	<ul style="list-style-type: none">• Construction techniques for using recycled materials in roadways• Maintenance considerations for roads constructed with recycled materials• Performance monitoring and evaluation of recycled materials in roadways• Life cycle analysis of using recycled materials in road construction
Wednesday , July 5	<ul style="list-style-type: none">• Introduction to innovative applications of recycled materials in roadways• Emerging trends in the use of recycled materials in road construction• Case studies of unique road projects that used recycled materials• Open discussion on future applications of recycled materials in road construction
Thursday, July 6	<ul style="list-style-type: none">• Field Trip – Asphalt Plant
Friday, July 7	<ul style="list-style-type: none">• Field Trip - City of Berlin

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International Road Federation

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