



IRF
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Road Asset Management

Expert training by professionals, for professionals

Washington DC, USA
April 24-28, 2023



Workshop



Road Asset Management April 24-28, 2023 Washington DC

Background

This workshop is designed to provide a comprehensive knowledge of fundamental concepts and methods used in asset management to preserve a road network in a “State-of-Good-Repair”. Participants will learn about best asset management practices to maintain inventories, monitor functional and structural infrastructure performance, develop performance models, identify treatment and budget needs, prioritize resource allocation, and conduct life-cycle cost and risk assessment analysis to formulate cost-effective maintenance and rehabilitation strategies. Participants are guided through various interactive course modules to develop skills and knowledge on asset management practices towards sustainable and resilient infrastructure. Case studies with hands-on applications for the implementation of asset management systems are presented through real-world problems using software tools developed for main infrastructure assets including pavements and bridges.



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

- ✓ To define and discuss asset management fundamental concepts to manage sustainable and resilient infrastructure systems.
- ✓ To describe best practices for building asset inventories and collecting condition assessment data to monitor functional and structural infrastructure performance.
- ✓ To conduct target-condition and budget based scenarios analysis to prioritize investments over time to assess short, medium, and long-term sustainability towards resiliency goals.
- ✓ To formulate cost-effective maintenance and rehabilitation programs to manage infrastructure assets and mitigate risk towards resiliency.
- ✓ To discuss strategies for the implementation of infrastructure management systems to support well-informed decisions to preserve infrastructure assets in a “State-of Good Repair”.

Target Audience

- ✓ Road Authorities & Operators
- ✓ Road Design Consultants
- ✓ Road Contractors
- ✓ Asset Managers
- ✓ Infrastructure Engineers
- ✓ Maintenance Personnel
- ✓ Bridge and Pavement Engineers

Lead Instructor



Carlos M. Chang, Ph.D., P.E.
Associate 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's main research interests are in the fields of asset management with an emphasis on civil engineering infrastructure, knowledge management applications, performance models, and maintenance strategies. His overall research objective is to integrate sustainable principles with best civil engineering practices to develop advanced decision-making models, innovative analytical methods, and practical tools towards the preservation of infrastructure assets in a "State-of-Good-Repair". Dr. Chang has an extensive teaching portfolio with more than 15 undergraduate and graduate level courses, and he has been recipient of the "Engineering Award for Connecting Professional Practice and Education" by the National Council of Examiners for Engineering and Surveying (NCEES). Dr. Chang has received the TSPE Excellence Award from the Texas Society of Professional Engineering for promoting professional practice through education. He is licensed as a professional engineer in Florida, Texas, and Peru. Dr. Chang is Vice President of the International Society for Maintenance and Rehabilitation of Transport Infrastructures (isMARTI) in the United States, Research Coordinator of the Pavement Management Systems Committee and member of the Pavement Preservation Committee at the Transportation Research Board, former Chair of the ASCE Infrastructure Systems Committee and the International Road Federation (IRF) Asset Management Task Force. Dr. Chang is frequently invited as a keynote speaker at international conferences and as a subject matter expert in technical committees.

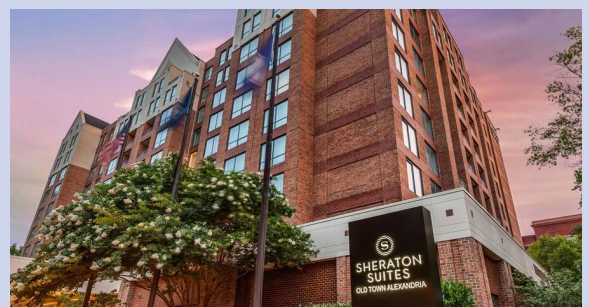
Registration

- **2,500 USD IRF Members / Groups of 3 or more**
- **3,000 USD Non-IRF Members**

Seminar Hotel:

Sheraton Suites Old Town Alexandria
801 North Saint Asaph Street,
Alexandria, Virginia 22314 USA
Tel: +1 703 836 4700

Website: <https://www.marriott.com/event-reservations/reservation-link.mi?id=1652279312690&key=CORP&app=resvlink>



Registration: <https://www.irf.global/event/ram23-ws-dc/>

For any support, please contact melabyad@irf.global

Learning Modules

(M-F 9:00 AM – 4:00 PM)

April 24 : Overview of Asset Management Fundamental Concepts

- What is asset management?
- Asset management overall framework
- Overview of the asset management components
- Understanding the management levels

April 25: Challenges in the Implementation of Asset Management

- Preservation of civil engineering infrastructure assets in a “State of Good Repair”.
- Maintenance and rehabilitation approaches for infrastructure assets.

April 26: Meeting your Needs with Processes and Tools

- Data required for an asset inventory and condition assessment
- Needs analysis
- Scenarios Analysis
- Prioritization
- Reports

April 27: Case Studies

- Bridges
- Pavements
- Other Infrastructure Assets

April 28 : How to Implement Asset Management?

- Assessing Sustainability and Resilience
- Strategies to Implement Infrastructure Management Systems (IMS)
- Examples

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International Road Federation

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