
IRF
GLOBAL
Advances in Pavement Design, Analysis & Construction
Online Training
April 5-28, 2022
Online Training
16 Professional Development Hours

Advances in Pavement Design, Analysis and Construction
April 5-28, 2022
Online Workshop

Background

This on-line training course is designed to provide a comprehensive knowledge of the basic concepts and recent advances related to pavement design, analysis and construction. Participants will be guided through various interactive course modules to develop skills and knowledge to employ standard guidelines and specifications related to both flexible and rigid pavements. Throughout this course, the sustainability considerations for design and construction of pavements will be discussed. Innovations and advances in pavement engineering with regards to design, analysis and construction, will also be addressed through dedicated modules for each topic.

Why Online?

- Expert training by professionals for Professionals: access IRF's unique curriculum and lectures developed by world-class specialists
- Accelerated learning processes: get up to speed and gain new insights in less time and with no travel constraints
- Full access to learning materials and session recordings
- Small classrooms & scheduled One-on One sessions between with instructors
- Interactive group projects and case studies
- Receive IRF Certification

Format

The lectures will be taught during a four-week period with live two hour on-line sessions held on Tuesday and Thursday of each week. Upon completion of the training program, the IRF will administer an on-line knowledge test. IRF will work with each individual participant to ensure they pass the examination.

Learning Objectives

- ✓ Understand the basic concepts of different pavement structures
- ✓ Become familiar with local standards and specifications regarding the design and construction of pavements
- ✓ Understand the basic concepts of pavement structures and their functional properties
- ✓ Understand the process for design of pavement system using both empirical and mechanistic approaches
- ✓ Become familiar with different materials used in the pavement structures and their fundamental properties
- ✓ Learn about the advances and innovations in pavement construction

Speakers

Mehran Mazari, Ph.D.
Assistant Professor, California State University Los Angeles
Dr. Mehran Mazari is an Assistant Professor in the Department of Civil Engineering at Cal State LA, specializing in Transportation Infrastructure and Materials. He is the director of Sikand Center for Sustainable and Intelligent Infrastructures (SITI-Center) and founder of Sustainable Infrastructure Materials Research Lab (SIM-Lab) at Cal State LA. His research interests include sustainable and resilient transportation infrastructure, transportation infrastructure materials, and non-destructive evaluation of transportation infrastructure. He is a member of technical committees at the Transportation Research Board of National Academies of Science and Engineering and co-chair of the LTPP subcommittee of the Highway Pavement Committee of the American Society of Civil Engineers (ASCE). Dr. Mazari has published more than 60 peer-reviewed journal and conference papers. He has been actively involved in a number of national and state research projects, including National Highway Cooperative Research Program (NCHRP) and Federal Highway Administration (FHWA), among others.

Registration

- **1,400 USD IRF Members**
- **1,400 USD Groups of 3 or More**
- **1,700 USD Non IRF Members**
- **1,000 USD IFIs, US State DOTs & City Officials**

Registration: https://www.irf.global/event/a-pvmt22-online-training
For any support, please contact melabyad@irf.global

Schedule

Tuesdays & Thursdays (12:00 PM– 2:00 PM US EST/ 5:00 PM – 7:00 PM GMT)

Tuesday, April 5
Introduction and Background
Pavement Types (Rigid and Flexible)
Pavement Design Methods

Thursday, April 7
Empirical Pavement Design Methods
Mechanistic-Empirical Design Approach
Advances in Pavement Structural Design and Analysis

Tuesday, April 12
Pavement Materials (Rigid and Flexible)
Material Properties and Testing (Laboratory and Field)
Specifications and Local Standards

Thursday, April 14
Mix Design Approaches
Performance Based Mix Design
Advances in Mix Design and Evaluation

Tuesday, April 19
Review of Pavement Construction Methods
Construction Specifications and Guidelines
Quality Control and Quality Assurance

Thursday, April 21
Innovations and Advances in Pavement Construction
Performance Monitoring and Evaluation
Maintenance and Rehabilitation

Tuesday, April 26
Special Topics in Pavement Engineering
Non-Destructive Testing and Evaluation
Advances in Pavement Research

Thursday, April 28
Advances in Sustainable Design and Construction
Recycled Materials
Sustainability Rating for Pavements

System Requirements

Computer Requirements

Operating System
Windows 7 - Windows 10, Mac OS X 10.9 (Mavericks), macOS Catalina (10.15), Linux, Google Chrome OS, Android OS 5 (Lollipop) - Android 9 (Pie), iOS 10 - iOS 12, Windows Phone 8+, Windows 8RT+

Web browser
Google Chrome (most recent 2 versions)
Mozilla Firefox (most recent 2 versions)
Internet Explorer v11 (with Adobe Flash if running Windows 7)
Apple Safari (most recent 2 versions)
Microsoft Edge (most recent 2 versions)

Internet connection
1 Mbps or better (broadband recommended)

Hardware
2GB of RAM (minimum), 4GB or more of RAM (recommended)
Microphone and speakers (USB headset recommended)

GLOBAL

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BEST PRACTICES • BUSINESS OPPORTUNITIES

Better Roads. Better World.

IRF GLOBAL

International Road Federation

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