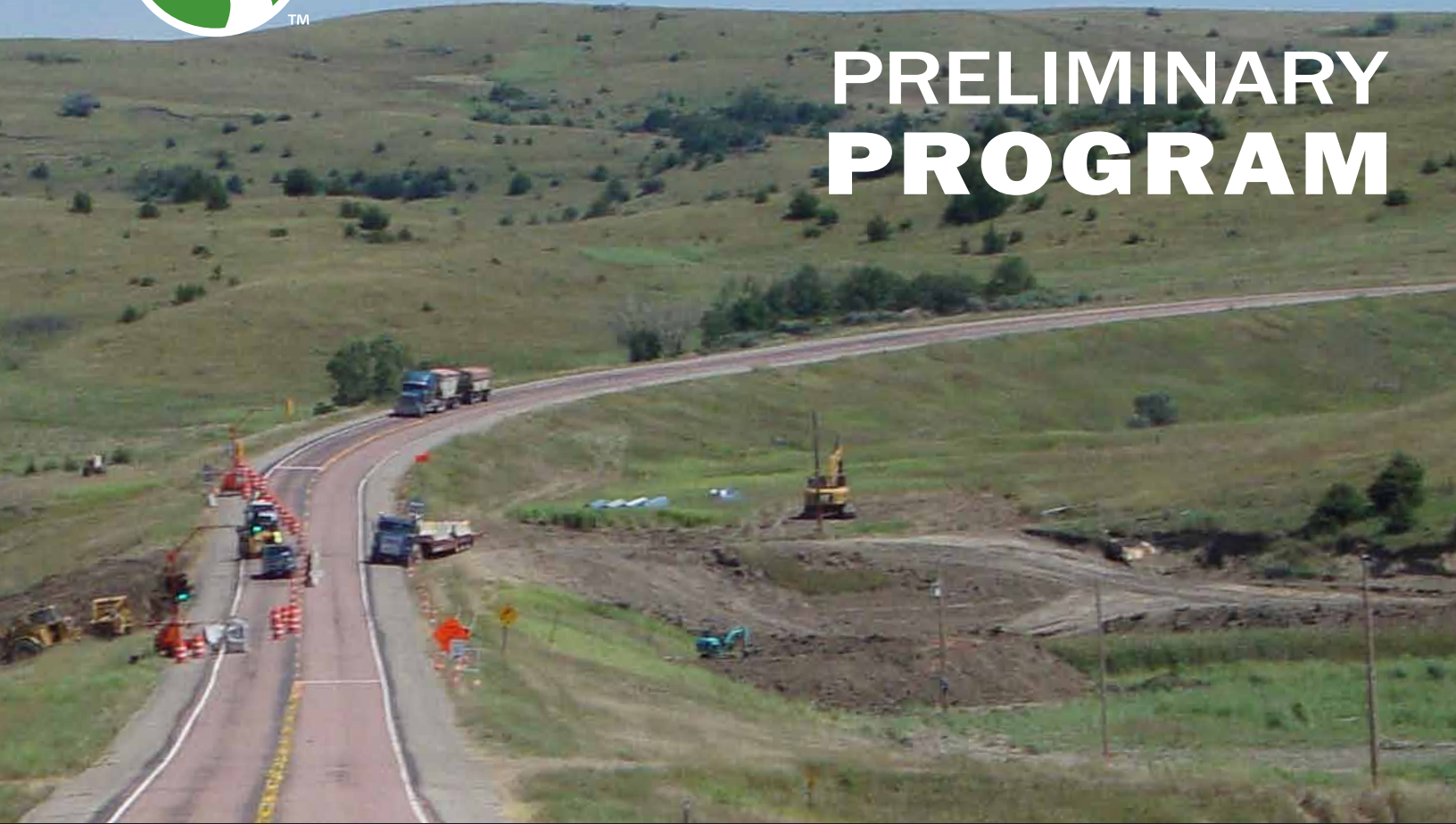




IRF

PRELIMINARY PROGRAM



Rural Roads: Low-Volume Roads Engineering

April 11-13, 2012

Orlando, Florida



Organized with the support of:

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BETTER ROADS. BETTER WORLD.

Rural Roads: Best Practices in Low-Volume Roads Engineering

Low-volume roads, farm-to-market access roads and roads connecting rural communities play a significant role in many countries' economies. They are necessary to serve the public in rural areas, improve the flow of goods and services help achieve development, public health and education goals.

At the same time, rural roads are particularly vulnerable to soil conditions and surface water drainage that can quickly degrade their usability, cause structural failures and result in adverse impacts on the local environment, water quality, and aquatic life.

Good rural road design and construction practices are cost effective in the long run by preventing failures, eliminating repair needs, and reducing maintenance.



Gordon R. Keller,
P.E., GE

Lead Course Instructor: Gordon R. Keller, P.E., GE

Gordon Keller has worked extensively with low-volume roads, their design issues, and road storm damage repairs. Over the past 20 years he has done a large amount of training and consulting on rural roads design, engineering best practices, and ways to mitigate environmental damage.

He is the author of numerous papers on various aspects of Geotechnical Engineering, Minimum Impact Low-Volume Roads Design and Roads Engineering Best Management Practices. He is an active member of the Transportation Research Board, Low-Volume Roads Committee.



Alan Kercher, P.E.

Guest Speaker: Alan Kercher, P.E., President, Kercher Engineering

Alan Kercher has had more than 27 years of experience as a graduate engineer in the Civil and Structural Engineering fields working on projects ranging from the design of roads, bridges, buildings and retaining structures to the preparation of contract documents and providing contract administration for a wide variety of municipal projects including pavement maintenance and rehabilitation, community parks and drainage improvement projects.

Who Should Attend?

Addressed primarily at civil engineers, road managers and resource specialists involved in the design and maintenance of rural roads, this seminar will provide key best practices and international case studies across a range of topics affecting low-volume roads.

Hotel Information

Wyndham Lake Buena Vista
A Walt Disney World Resort Complex
1850 Hotel Plaza Boulevard
Lake Buena Vista, Florida 32830-2202
Tel: +1 407 828 4444 · Fax: +1 407 827 6314
Website: <http://www.wyndham.com/hotels/MCOLB/>

PROGRAM AT-A-GLANCE

Wednesday, April 11	
9:00 - 11:00 AM	Introductions, World Bank, IRF, Participants Asset Management Principles to Improve Road Management Practices (IRF Speaker) Overview-Roads Best Practices and Methods to Reduce Environmental Impacts Selected Case Studies from Countries
11:00 - 11:15 AM	Networking Break
11:15 - 12:00 PM	Design Issues-Road Standards; Geographic Considerations; Plans and Specifications; Road Costs; Construction and Maintenance
12:00 - 1:30 PM	Luncheon
1:30 - 3:30 PM	Environmental Analysis Process for Rural Road Projects Use of Geosynthetics in Low-Volume Roads Basic Hydrology; Use of the Rational Method for Small Drainages Exercise on Use of Hydrologic Data to Determine Flow/Discharge
3:30 - 4:00 PM	Networking Break
4:00 - 5:00 PM	Hydraulic Design: Manning's Formula for Determining Flow Velocity and Discharge Drainage Design Tools: Use and Sizing of Riprap; Filter Concepts
Thursday, April 12	
8:00 – 9:45 AM	Roadway Surface and Subsurface Drainage for Low-Volume Roads Control of Water at Inlets and Outlets of Cross-Drains Control of Surface Water, Roadway Cross-Drainage Wet Area Crossings, Subsurface Drainage
9:45 - 10:00 AM	Networking Break
10:00 – 12:00 PM	Natural Drainage Crossing Issues Location and Installation of Culverts; Nomograms for Pipe Capacity Design Considerations for Bridges and Low-Water Crossings (Fords) Exercise on Hydraulic Structure Selection
12:00 - 1:30 PM	Luncheon
1:30 – 3:15 PM	Roadway Surface and Soil Stabilization Use and Properties of Roadway Materials; Aggregate Surfacing Use of Marginal Materials; Quarry Development and Reclamation Plans
3:15 - 3:30 PM	Networking Break
3:30 – 5:30 PM	Stability of Roadway Cuts and Fills Methods of Slope Stabilization Types and Use of Retaining Structures. Erosion Control: Physical, Vegetative, and Biotechnical Methods
Friday, April 13	
8:00 AM – 2:00 PM	Group Evaluation of Roadway Drainage Sites Evaluation of Culverts, Fords, and Bridges Materials Sources-Operation and Reclamation Wet Area Crossings, Subsurface Drainage
9:45 - 10:00 AM	Networking Break
2:00 – 4:30 PM	Environmentally Sensitive Maintenance Roundtable Discussion Conclusions and Course Evaluation

REGISTRATION FORM

LOW-VOLUME ROADS ENGINEERING “BEST PRACTICES”

	First Contact Person	Second Contact Person
Title (Mr/ Ms / Dr / Eng)		
First name		
Last name		
Telephone		
Fax		
E-mail		
Organizational Name		
Street address and number		
City		
Zip / Postal code		
Country		
Website address		

Will You Need a Visa Invitation Letter?

- Yes
 No

Event Registration

- IRF Member US\$ 975
 IRF Member w/ Accommodation (3 Nights Hotel) US\$ 1,275
 Non Member US\$ 1,075
 Non Member w/ Accommodation (3 Nights Hotel) US\$ 1,375

Payment (please indicate:)

- Please invoice I wish to pay by credit card I wish to pay by check I wish to pay by wire transfer

Credit Card

- VISA MasterCard American Express Number: _____
 Cardholder's name (as written on the card): _____
 Expiration date (MM/YY): _____ Amount agreed to be charged: _____

Signature _____ Date _____

Check

Make check (in US \$) payable to: International Road Federation

Wire Transfer

Account Number: 007-013-6387 ABA: 056-004-445 United Bank Alexandria, VA 22314 USA

SPONSORSHIP PACKAGES

Rural Roads: Low-Volume Roads Engineering (Best Practices)

April 11-13, 2012

Orlando, Florida USA

This technical workshop is designed for officials and contractors who build, operate and maintain rural roads around the world.

IRF MEMBER

Bronze (\$1,000)

- Logo recognition on IRF website
- Corporate information displayed in seminar kit
- Complimentary table top exhibit

Silver (\$2,500)

Bronze Sponsor benefits PLUS:

- Recognition as sponsor for one networking luncheon of choice
- Complimentary workshop registration
- Logo recognition in Conference brochure

Gold (\$5,000)

Silver Sponsor benefits PLUS:

- One additional workshop registration
- Recognition as sponsor of Welcome Dinner & Reception

Tabletop Exhibit Display (\$500 USD)

- Opportunity to display marketing/sales materials on tabletop Exhibit

NON-MEMBER

Bronze (\$1,200)

- Logo recognition on IRF website
- Corporate information displayed in seminar kit
- Complimentary table top exhibit

Silver (\$3,000)

Bronze Sponsor benefits PLUS:

- Recognition as sponsor for one networking luncheon of choice
- Complimentary workshop registration
- Logo recognition in Conference brochure

Gold (\$6,000)

Silver Sponsor benefits PLUS:

- One additional workshop registration
- Recognition as sponsor of Welcome Dinner & Reception

Tabletop Exhibit Display (\$600 USD)

- Opportunity to display marketing/sales materials on tabletop Exhibit

SPONSORSHIP FORM

LOW-VOLUME ROADS ENGINEERING “BEST PRACTICES”

Sponsorship Application Form

	First Contact Person	Second Contact Person
Title (Mr/ Ms / Dr / Ing etc)		
First name		
Last name		
Telephone		
Fax		
E-mail		
Job Title		
Organizational Name		
Street address and number		
City		
Zip / Postal code		
Country		
Website address		

IRF Member

- Bronze Level Sponsorship US\$ 1,000
 Silver Level Sponsorship US\$ 2,500
 Gold Level Sponsorship US\$ 5,000
 Tabletop Exhibit Only US\$ 500

Non-Member

- Bronze Level Sponsorship US\$ 1,200
 Silver Level Sponsorship US\$ 3,000
 Gold Level Sponsorship US\$ 6,000
 Tabletop Exhibit Only US\$ 600

Payment (please indicate:)

- Please invoice
 I wish to pay by credit card
 I wish to pay by check
 I wish to pay by wire transfer

Credit card

VISA
 MasterCard
 American Express
 Number: _____

Cardholder's name (as written on the card): _____

Expiration date (MM/YY): _____ Amount agreed to be charged: _____

Signature _____ Date _____

Check

Make check (in US \$) payable to: International Road Federation

Wire Transfer

Account Number: 007-013-6387 ABA: 056-004-445 United Bank Alexandria, VA 22314 USA

UPCOMING PROGRAMS AND EVENTS

ITS Orientation Visit for Mexican Officials

March 11-20
Houston; Phoenix; Washington, DC
USA

IRF Road Safety & ITS Standards Workshops at Brazil Road Expo

April 2-4
Sao Paulo, Brazil

IRF Executive Seminar Series: Rural Roads - Low Volume Roads Engineering

April 11-13
Orlando, Florida USA

IRF Executive Seminar Series: Roadside Safety & Workzone Safety Applications

April 26-28
Bangkok, Thailand

1ST IRF Caribbean Regional Congress

May 8-11
Montego Bay, Jamaica

IRF Executive Seminar Series: Minimizing Fraud & Corruption on Highway Projects

June 5-7
Orlando, Florida USA

High Elevation/Andes Road Engineering Conference

July 19-20
Lima, Peru

IRF Executive Seminar Series: Preserving Our Highway Infrastructure Assets

August 1-3
Ft. Lauderdale, Florida USA

IRF Executive Seminar Series: Workshop on Performance – Based Contracts

August 14-16
Chicago, Illinois USA

IRF Saudi Arabia Road Professionals Workshop: Road Safety & Safety Audits

September 9-12
Riyadh, Saudi Arabia

Abu Dhabi Road Safety Conference

September 16-18
Abu Dhabi, UAE

Road Safety Gulf Region Summit & Conference

October 16-19
Muscat, Oman

IRF Executive Seminar Series: Road Maintenance Contracting

October 28 – November 6
Orlando, Florida USA

IRF Saudi Road Professionals Workshop: Performance-Based Contracting

December 9-12
Riyadh, Saudi Arabia

Safer Roads by Design, Executive Seminar Series

December 2-12
Miami, Florida USA

Additional Information: melabyad@irfnews.org

Mark Your 2013 Calendar

(November 9 - 13)



"DELIVERING GLOBAL PROSPERITY"

About the Meeting

Join one of the largest gatherings of industry leaders and experts from around the world to address critical challenges, exchange knowledge, and develop solutions to achieve sustained global prosperity.

www.IRF2013.com



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International Road Federation

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