



# SAFER ROADS BY DESIGN™

## IRF Certified Workshop On Roadside Safety Applications

October 16-17, 2011 — Orlando, Florida, United States

*In conjunction with the 18th ITS World Congress*





## Introduction

### Workshop Description:

The International Road Federation (IRF) Roadside Safety Applications Workshop is tailored for road authorities and consultants to teach them how to turn existing and new roads into %forgiving Highways+and eliminate needless deaths. The training workshops will teach the attendees the proper steps to follow to make a road safer by eliminating the hazard, moving the hazard, making the hazard less rigid. In addition to learning about the technologies that are successfully eliminating needless deaths on roads around the world, attendees will better understand which of these technologies are appropriate for their local conditions. They also will be introduced to the performance testing criteria being utilized in the United States (NCHRP 350) and in Europe (EN-1317) to allow them to make intelligent, cost-effective choices.

### Workshop Objectives:

To impart the necessary knowledge and skills needed to be able to identify safety issues associated with roadside design, its impact on highway safety, and the selection of appropriate hardware.

### Workshop Outcomes:

- ✦ *Define the role of the roadside as it relates to the traffic safety*
- ✦ *Understand and apply the clear zone concept*
- ✦ *Decide which roadside design strategy is most appropriate for a given situation*
- ✦ *Ensure proper placement of roadside hardware*
- ✦ *Select and design roadside and median barriers*
- ✦ *Choose the most appropriate barrier end treatment*



### Who Should Attend?

This workshop is ideal for a wide range of transportation professionals who are already planning to participate in the 2011 World Congress on ITS in Orlando, Florida. This includes:

- *Road & Transport Agency Executives and Technical Staff*
- *Policy Makers*
- *Engineers & Contractors*
- *Researchers and Academics*
- *College and Graduate School Transportation Students*



## **Day 1: October 16, 2011** **Workshop Program**

12:00 p.m.	<i>Registration</i>
12:30 p.m.	IRF Welcome and Workshop Introduction
1:00 p.m.	The Clear zone
2:00 p.m.	<i>Coffee Break</i>
2:20 p.m.	Longitudinal barriers
3:20 p.m.	Crash cushions
4:00 p.m.	<i>Day One Adjourn</i>

### **About Your Instructor:**

Dr. Juan Carlos Viera, Ph.D., is a Civil Engineer with over 25 years of global executive and technical experience. He holds an MSc and a PhD in Traffic and Transport from the Georgia Institute of Technology (Georgia Tech), USA. He is currently an independent expert and consultant in Traffic Engineering and Road Safety, working on road safety and signal control projects in several Latin American countries. Prior to that, Dr. Viera served as International Business Director of several US companies including Econolite Control Products, Quixote Corporation, and Barrier Systems. He is a member of several professional organizations including as the IRF, ITS America, and ITE.



## Day 2: October 17, 2011 Workshop Program

- 8:45 a.m. *Welcome to Day 2 and Recap of Day 1*
- 9:00 a.m. *Terminals & Transitions*
- 9:30 a.m. *Intro to Work Zone Safety*
- 10:30 a.m. *Coffee Break*
- 11:00 a.m. *Portable Barriers in Work Zones*
- 12:00 p.m. *Lunch Break*
- 1:00 p.m. *Truck Mounted Attenuators*
- 2:00 p.m. *Summary & Conclusions*
- 3:00 p.m. *Testing*
- 3:30 p.m. *Distribution of IRF Certificates (pass/fail)*
- 4:00 p.m. *Day Two Adjourn*



# IRF SAFER ROADS BY DESIGN®

## ROADSIDE SAFETY APPLICATIONS

OCTOBER 16-17, 2011 — ORLANDO, FL USA

**PLEASE FAX COMPLETED REGISTRATION FORM TO +1 703 535 1007**

FULL NAME: \_\_\_\_\_ TITLE/POSITION: \_\_\_\_\_

ORGANIZATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY/STATE: \_\_\_\_\_ TELEPHONE #: \_\_\_\_\_

COUNTRY: \_\_\_\_\_ ZIP/POSTAL CODE: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

**NEED VISA INVITATION LETTER:**  YES  NO

### REGISTRATION FEE (PLEASE CHECK APPROPRIATE BOX)

(REGISTRATION INCLUDES: COMPLETE 2-DAY COURSE; COURSE MATERIALS; IRF CERTIFICATE; COFFEE BREAKS)

TYPE/SECTOR	PUBLIC, ACADEMIC AND NON-PROFIT	PRIVATE SECTOR
IRF MEMBER	\$110 USD	\$180 USD
NON MEMBER	\$140 USD	\$240 USD

### PAYMENT OPTIONS:

#### PAY BY CREDIT CARD

CARD TYPE:  VISA  MASTERCARD

CARD NUMBER: \_\_\_\_\_

DATE OF EXPIRATION: \_\_\_\_\_

NAME (AS APPEARS ON CARD): \_\_\_\_\_

APPROVED AMOUNT: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

#### PAY BY CHECK TO THE FOLLOWING ADDRESS:

INTERNATIONAL ROAD FEDERATION  
MADISON PLACE, 500 MONTGOMERY ST, SUITE 525  
ALEXANDRIA, VA 22314 USA

#### PAY BY WIRE TRANSFER:

Account Number: 007-013-6387  
ABA: 056-004-445  
United Bank K Street Branch  
Washington D.C. USA

**For more Information please contact Magid Elabyad at + 1 703 535 1001  
or by email at [melabyad@irfnews.org](mailto:melabyad@irfnews.org)**