

# Vulnerable Road User Safety

*Expert training by professionals, for professionals*

Doha, Qatar  
September 24-26, 2017



## Certified Training

# The Road Industry's Most Trusted Brand in Continuing Education



For more than 50 years, an essential part of the IRF's mission has been the organization and delivery of training courses that provide continuing professional development for individuals and contribute to the dissemination of knowledge and expertise throughout the world.

As a strong believer in continuing education, the IRF provides members, as well as road professionals worldwide with educational opportunities that are recognized by engineering and transportation societies worldwide. The IRF's Global Training Curriculum provides technical expertise in classroom and practical settings where attendees can learn from and have direct access to seasoned professionals. Each course not only provides the most relevant, up-to-date information and best practices and solutions, but is also designed to assist attendees in learning to correctly apply the knowledge gained.

IRF Certified Trainings are specifically developed to meet the needs of today's highway managers. Whether you are a representative of a highway agency, a member of a financing institution, consultant or contractor, IRF Certified Trainings will give you the necessary tools to make improvements in your organization. Our mission is facilitate road progress whenever and wherever we can by organizing constructive events, furnishing needed information and assisting with the training and transfer of best practices and technologies around the world.

As Chairman of the International Road Federation, I encourage you to make the most of these opportunities and help fulfill the IRF's vision of better roads for a better world.

**Abdullah A. Al-Mogbel**  
IRF Chairman

## About the IRF



### OUR MISSION: Building Partnerships

We assist countries in progressing towards better, safer and smarter road systems.

We develop and deliver world-class knowledge resources, advocacy services, and continuing education programs, which together offer a global marketplace for best practices and industry solutions.

We serve a wide range of member organizations from both the public and private sectors of the road and transport industry. Together, we form a global network for information exchange and business development.

We invest in the next generation of transport leaders. Since 1949, the IRF has awarded educational scholarships to individuals in 119 countries to pursue careers in the road and transport industry.

### OUR VISION: Better Roads. Better World

We believe that well-planned, safe, accessible and environmentally sound road networks are fundamental building blocks for human and economic development.

We are committed to increasing road and transport investments to meet the demands for safe and efficient travel and flow of goods and services to help improve the lives of people worldwide.

We engage with governments, development institutions, businesses, and academia around the world to make our vision a reality.

### OUR ORGANIZATION: A Global Federation

The International Road Federation welcomes members from government, academia, road associations, research institutes, and private industry.

We are a global not-for-profit organization, headquartered in Washington, DC since 1948 and supported by regional offices throughout the world.

The IRF serves a network of public and private sector members in more than 70 countries by providing world-class knowledge resources, advocacy services, and continuing education programs which together offer a global marketplace for best practices and industry solutions.

## COURSE DESCRIPTION

All road users deserve a safe road. "Vulnerable" Road Users such as pedestrians, motorcyclists, public transport users, non-motorized vehicles and bicyclists at greater risk than vehicle occupants and usually bear the greatest burden of injury during road crashes. In some countries Vulnerable Road Users represent more than 70% of the fatalities. This percentage is about thirty percent (30%) in Qatar. Too often these fatalities and serious injuries are due to high speeds of traffic and the lack of separation between these fast moving motorized vehicles and vulnerable users.

Children, elderly, and disabled people are particular vulnerable, as their physical and mental skills are either not fully developed or they are especially fragile. Children and older people are often overrepresented in traffic fatalities, especially as vulnerable road users.

This course discusses the reasons pedestrians, bicyclists, motorcyclists, public transportation vehicles and non-motorized vehicles are involved in impacts that result in fatalities and serious injuries. The corrective actions, including education, enforcement and engineering actions that can be taken to reduce these impacts are also presented in detail.

## LEARNING OUTCOMES

- Understand the meaning of Vulnerable Users
- Comprehend why Vulnerable Users are involved in crashes
- Be exposed to countermeasures designed to reduce the number of Vulnerable User fatalities and serious injuries
- Learn how to develop educational campaigns designed to improve Vulnerable User safety

## TARGET AUDIENCE

- Road Agency Executives
- Highway and Street Engineers
- Traffic Management Professionals
- Traffic Safety Professionals
- Pedestrian Safety Advocates
- Bicycle Safety Advocates
- Motorcycle Safety Advocates
- Law Enforcement
- Research & Academia

## DAY 1

08:30-10:30

### Current Status of Vulnerable Road User Safety in Qatar

#### Defining a Vulnerable Road User

- Pedestrians, Bicyclists, Motorcyclists
- Public Transit Users, Non-Motorized Vehicles

#### Introduction to Infrastructure Safety Management

- Road Safety Impact Assessment
- Road Safety Audit, Road Safety Inspection
- Black Spot Management
- Network Safety Management

10:30-11:00

Break

11:00-12:30

### Public Perception of Different Road Users

#### Culture and Attitudes

12:30-13:30

Lunch

13:30-16:00

### Segment Issues & Countermeasures for Vulnerable Road Users- Pedestrians

- Identifying & Quantifying Pedestrian Safety Deficiencies
- Pedestrian Level of Service (PLOS), Pedestrian Crash Types
- Signalization Countermeasures, Geometric Countermeasures
- Operational Countermeasures, Selecting the Appropriate Countermeasure
- Pedestrian Engineering Countermeasures
  - Central Hatching, Delineation, Speed Management, Parking Improvements, Pedestrian Footway Regulate Roadside Commercial Activity, Pedestrian Crossing - Grade Separation, Pedestrian Crossing - Unsignalized, Pedestrian Crossing - Signalized, Pedestrian Refuge Island, Restrict/Combine Direct, Access Points, Shoulder Sealing, Traffic Calming, Service Road
- Crash Reduction Factors (CRF)

16:00-16:30

### DAY 1 WRAP-UP

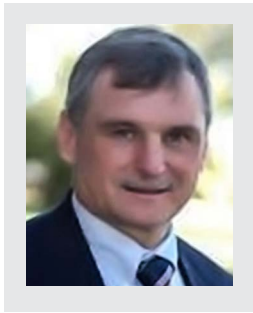
## DAY 2

- 08:30-10:30 **Segment Issues & Countermeasures for Vulnerable Road Users- Bicyclists, Motorcyclists, Public Transit Users, Others**
- Motorcyclists Engineering Countermeasures  
Central Turn Lanes, Right-Turn Lanes, Signalization, Motorcycle Lanes, One-Way Network, Surface Upgrades, Realignment, Shield Guardrail Post
  - Bicyclists Engineering Countermeasures  
Lane Widening, Bicyclist Facilities
  - Public Transit Engineering Countermeasures  
Bus Stop Design, Bus Stop Location, Eliminating Uncontrolled Stops
  - Educational Countermeasures
  - Enforcement Countermeasures
  - Emergency Services Countermeasures
- 10:30-11:00 Break
- 11:00-12:30 **Developing Educational Campaigns to Protect Vulnerable Road Users**
- Safety town
  - Safe Routes to School
  - Teen Education (Teen RSA)
- 12:30-13:30 Lunch
- 13:30-16:00 **Qatar Designer Checklist for School Zones**
- 16:00-16:30 **DAY 2 WRAP-UP**

## DAY 3

- 08:30-10:30 **Designing Safer Cities for Vulnerable Road Users**
- 10:30-11:00 Break
- 11:00-12:30 **Education of Drivers  
Enforcement  
Role of Media and Advocacy Groups**
- 12:30-13:30 Lunch
- 13:30-16:00 **Vulnerable Road User Safety Considerations in the Planning Stage  
Vulnerable Road User Safety Considerations in the Design Stage**
- 16:00-16:30 **WORKSHOP CONCLUSIONS & CERTIFICATES**

## LEAD INSTRUCTOR



**Michael G. Dreznes**

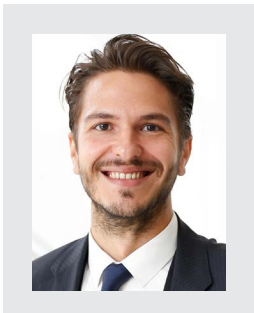
**Executive Vice President, International Road Federation (IRF)**

Michael G. Dreznes assumed his current position of Executive Vice-President of the International Road Federation (IRF) in February of 2012.

Mr. Dreznes has spent the last thirty years working to make the roads safer around the world. He is recognized as one of the world's leading specialists on roadside safety promoting the concept of "Forgiving Roads," and has conducted multiple road safety training seminars on roadside safety, work zone safety, vulnerable user safety and road safety audit in more than sixty countries around the world.

Mr. Dreznes is the Co-Chairman of the Transportation Research Board (TRB) AFB20 (2) Roadside Safety Sub-Committee on International Research Activities, Co-Chairman of the United Nations Road Safety Collaboration (UNRSC) Decade of Action Pillar 2: Safer Roads and Mobility Project Group, and a member of the PIARC Road Safety Technical Committee 3.2 Design and Operation of Safer Road Infrastructure. In January 2015, Dreznes was named the winner of the TRB AFB20 Roadside Safety Design Kenneth Stonex Lifetime Achievement Award.

## INSTRUCTORS



**Celal Tolga Imamoglu**

**Road Safety Projects Manager, World Resources Institute Turkey**

Celal Tolga Imamoglu is a Road Safety Projects Manager at World Resources Institute Turkey with a focus on public transportation, bus rapid transit (BRT), cycling infrastructure design, traffic safety projects as well as integrated transport. He is currently involved in supporting efforts related to planning, development and implementation of sustainable transportation projects in Turkish cities and Ghana Accra, Ethiopia Addis Ababa, including road safety inspections, audits. He has conducted more than 50 road safety inspections and more than 20 road safety audits.

Tolga is a transportation engineer M.Sc. with a background in civil engineering. He obtained his civil engineering degree from Yildiz Technical University, Istanbul, followed by a master's degree in Transportation Engineering from Istanbul Technical University.



**Joe Toole, P.E****Senior Principal, Kittelson & Associates Inc.**

Throughout his nearly 40-year career, Joe has focused on delivering innovation, safety, and leadership to the transportation highway community. Prior to retiring from the Federal Highway Administration (FHWA) in 2011, Joe served as the Associate Administrator for the FHWA's Office of Safety, which had responsibility for an annual program of over \$1.2 billion that funded the Highway Safety Improvement Program, as well as programs supporting local and rural safety.

Prior to 2008, Mr. Toole served as the Associate Administrator of the FHWA Office Professional and Corporate Development, which administered the National Highway Institute and the Local and Tribal Technical Assistance Program, together delivering training to nearly 150,000 participants each year.

During his career, Joe has also served FHWA's Acting Executive Director and the Director of FHWA's Office of Technology Applications, as well as Deputy Regional Administrator for the Mid-Atlantic States.

In recognition of his accomplishments, Joe was presented with the Presidential Rank Award for Meritorious Service in 2009. He has remained active in the safety and transportation community by serving as Senior Technical Advisor to the National Organizations for Youth Safety, and engaging over 300 youth in "Teen RSAs". He is a member of the Executive Board of Transportation Research Board's System User Group, and serves as Chair of a new TRB Subcommittee on Roadway Safety Culture.

## Important Note:

Registration can also be completed online at: [www.irf.global/event/c14-vrus-doha](http://www.irf.global/event/c14-vrus-doha)



Vulnerable Road User Safety: Doha | September 24 – 26, 2017

## Delegate Registration

**FOR OFFICE USE ONLY**

**Payment Received Date**

### Contact Information

REFERENCE CODE (IF APPLICABLE)

YEAR

MONTH

DAY

LAST NAME

MOBILE PHONE (WITH COUNTRY CODE)  
PREFERRED CONTACT NUMBER

FIRST NAME

OFFICE PHONE (WITH COUNTRY CODE)  
PREFERRED CONTACT NUMBER

EMAIL

FAX NUMBER (WITH COUNTRY CODE)

ORGANIZATION  
NAME

JOB TITLE

ORGANIZATION  
WEBSITE

ORGANIZATION ADDRESS

CITY

STATE/  
PROVINCE

POSTAL CODE

COUNTRY

ORGANIZATION CATEGORY

Government

Academia

Industry Association

Private Sector

### Additional Registrants *(please list the names of any additional delegates you are registering)*

LAST NAME

EMAIL

FIRST NAME

JOB TITLE

LAST NAME

EMAIL

FIRST NAME

JOB TITLE

LAST NAME

EMAIL

FIRST NAME

JOB TITLE

LAST NAME

EMAIL

FIRST NAME

JOB TITLE

### Registration Rates *(check the one box that applies; all amounts in US dollars. Prices are per person)*

IRF MEMBERS: **US \$2,250**

NON MEMBERS: **US \$2,750**  
(Non-Qatari Attendees)

QATARI ATTENDEES: **Please contact Dr. Wael K. M. Alhajyaseen**  
[wyaseen@qu.edu.qa](mailto:wyaseen@qu.edu.qa)

VISA INVITATION

Do you require a visa invitation letter?

Yes No

### Payment

PAYMENT TYPE

Invoice Check Credit Card

CARD TYPE

Visa MasterCard AMEX

CARD NUMBER

CARD EXPIRATION DATE (MM/YY)

CARD SECURITY CODE

NAME ON CARD

AMOUNT TO BE CHARGED  
(IN US DOLLARS)

TODAY'S DATE  
(YYYY/MM/DD)

SIGNATURE

*By signing this document, I agree to comply with the Terms and Conditions applicable to IRF Events and provide full release of my likeness and voice to be used for promotional purpose by the IRF. This release covers photos and videos taken during the event.*

PRINTED NAME

SIGNATURE (IF FAXING)

DATE OF APPLICATION (YYYY/MM/DD)

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BEST PRACTICES • INDUSTRY SOLUTIONS



## Building Industry Partnerships

**Better Roads. Better World.**



[www.IRF.global](http://www.IRF.global)

**International Road Federation**

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