



R2T
EXPO & CONFERENCE
Roads, Bridges & Tunnels

"BUILDING THE TRANSPORTATION INFRASTRUCTURE OF TOMORROW"

IRF Global R2T Conference & Expo

Las Vegas, NV USA
November 7-9, 2018

Program

Conference



On behalf of the International Road Federation's global volunteer leadership and members, it gives me great pleasure to invite you to join me for the IRF Global R2T Conference & Expo being held in Las Vegas, Nevada from November 7-9, 2018.

This landmark IRF event offers a new and unique international meeting point where leading industry innovators, researchers, and stakeholders can acquire essential engineering and business insights, and help build tomorrow's transportation infrastructure today.

With rising expectations placed on the delivery of sustainable and efficient transport infrastructure, IRF continues its mission to offer government agencies and road professionals access to knowledge resources from innovations in project design, to managing transportation assets, and readying road networks for the arrival of shared and connected mobility services.

Abdullah A. Al-Mogbel
IRF Chairman

SUPPORTING ORGANIZATIONS



Asociación Argentina de Carreteras



ASSOCIATION OF EQUIPMENT MANUFACTURERS



中国公路学会
China Highway & Transportation Society



KNOWLEDGE PARTNERS



CONFERENCE OVERVIEW

The IRF Global Road2Tunnel Conference & Expo is the new international meeting point where leading industry innovators, researchers, and stakeholders acquire essential engineering & business insights, and help build tomorrow's transportation infrastructure today.

The Conference will feature more than 150 internationally recognized speakers from over 40 countries sharing insights on topics ranging from innovative road construction techniques to road financing to connected and autonomous vehicles. The Expo portion will showcase world-class equipment and product manufacturers who are at the forefront of innovations in the fields of ITS, Road Safety, & road, bridge, & tunnel maintenance & construction.

Key event features:

- Keynotes delivered by the sector's foremost thought leaders
- Policy roundtables
- Specialized sessions
- Cutting-edge scientific program
- Business networking events
- US & International Market Intelligence Workshops

WHY PARTICIPATE?

- Network with the global leaders & innovators from the industry
- Enhance your knowledge and professional skill set (Earn Professional Development Hours)
- Exchange knowledge & best practices from delegates from over 50 Countries
- Get a glimpse of new innovations and technologies that will transform the industry
- View the latest products & equipment

VENUE & OPENING HOURS



Tropicana Las Vegas

3801 S Las Vegas Blvd, Las Vegas,
NV 89109 USA

November 7 9 AM-5 PM

November 8 9 AM-5 PM

November 9 9 AM-1 PM

EARLY BIRD REGISTRATION RATES*

Category	IRF Member	Non-IRF Member
Speaker	400 USD	500 USD
Delegate	500 USD	600 USD

REGISTER TODAY

FOREWORD FROM THE CO-CHAIRS OF THE CONGRESS SCIENTIFIC COMMITTEE

Technology and innovations are evolving at a pace never seen before in the history of the road and transport sector. From innovations in materials, such as self-healing concrete and rubberized asphalt, to advances in construction equipment automation, and of course, the dawn of the connected and automated vehicle, we are on a verge of a new era. With such remarkable developments, we found it very important to organize a global event that brought together the most innovative researchers with the top practitioners and users of innovation and technology. As such it is our pleasure invite innovators, researchers and practitioners to submit abstracts in the following topics and help us build tomorrow's transport infrastructure today.

Dr. Kamil Kaloush

Professor, Arizona State University

Dr. Moses Karakouzian

Professor, University of Nevada, Las Vegas

CONFERENCE THEMES

1. Asset Management

- 1.1 Pavement & Bridge management systems (research and implementations)
- 1.2 Non-destructive testing
- 1.3 Life Cycle Cost Analysis
- 1.4 Maintenance, repair, and replacement techniques

2. Innovative Materials and Technology

- 2.1 Concrete Materials (ultra-high-performance concrete, self-healing concrete, etc.)
- 2.2 Asphalt concrete (Superpave mixture designs, warm mixtures, use of fibers, polymers, crumb rubber, etc.)
- 2.3 Recycled and waste materials
- 2.4 Fiber reinforced polymers
- 2.5 Curing compounds
- 2.6 Nano-materials in infrastructure projects and surface treatments

3. Towards Zero Deaths

- 3.1 Road Risk Diagnosis & Road Safety Audit
- 3.2 Safer Streets by Design
- 3.3 Intersection & Roundabout Safety
- 3.4 Safety Information Systems & Apps
- 3.5 Protecting Vulnerable Road Users
- 3.6 Roadside/Median Safety
- 3.7 Work Zone Safety

4. Structural Design

- 4.1 Girder bridges with superior structural performance
- 4.2 Arch bridges, suspension, and cable-stayed bridges
- 4.3 New Technologies in Accelerated Bridge Construction
- 4.4 Value Engineering

5. Tunneling

- 5.1 Conventional & Mechanized Tunneling
- 5.2 New Micro-tunneling Technology
- 5.3 Health Safety & Risk Management during Construction & Operations
- 5.4 Operation and Maintenance of Road Tunnels

6. Connected & Autonomous Vehicles (CAVs): Readying our Road Infrastructure

- 6.1 Big Data as a key enabler for mobility services
- 6.2 GIS Solutions for Highway & Road Management
- 6.3 City Street & Highway Design for CAVs
- 6.4 Smart Cities: from Concept to Reality

- C** Closing Session **E** Executive Panel **X** Executive Session **G** Gala Dinner **I** IRF Business Meetings
O Opening Session **P** Partner Session **S** Safer Roads by Design **T** Technical Session **H** Technical Tour 1
W Workshop

NOVEMBER 6 • TUESDAY

- 10:00am – 12:00pm **W** **IRF Workshop 1: Key insights on doing Business in the United States**
 1:00pm – 3:00pm **W** **IRF Workshop 2: Key insights on doing Business in International Markets**
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NOVEMBER 7 • WEDNESDAY

- 8:30am – 9:30am **O** **Opening Ceremony & Keynote Presentations**
 9:45am – 11:15am **E** **Opening Executive Panel: Understanding the Drivers of Innovation in the Road**
 11:30am – 12:45pm **X** **Road-User Charging Solutions - The International Experience**
 11:30am – 12:45pm **X** **Use of Fibers in Asphalt Mixtures**
 11:30am – 12:45pm **S** **Safer by Design: Part 1: Mainstreaming Safety in Road Design & Operations**
 11:30am – 12:45pm **T** **TS 1.1: Bridge Inventory & Inspection**
 11:30am – 12:45pm **T** **TS 2.6: Flexible Pavement Solutions**
 2:15pm – 3:30pm **X** **Road-User Charging Solutions - The US Experience**
 2:15pm – 3:30pm **X** **The Role of PPPs - The International Experience**
 2:15pm – 3:30pm **S** **Safer by Design: Part 2: ITS Applications for Road Safety**
 2:15pm – 3:30pm **T** **TS 4.1: Structures: Bridges & Foundations**
 2:15pm – 3:30pm **T** **TS 6.1: Towards Smart Cities 1**
 4:00pm – 5:30pm **X** **Road Asset Maintenance: Advances in Predictive Analytics**
 4:00pm – 5:30pm **X** **Smart City Mobility Applications**
 4:00pm – 5:30pm **T** **TS 2.8: Innovation in Resilient Structures & Materials**
 4:00pm – 5:30pm **T** **TS 3.1: Road Risk Diagnosis**
 4:00pm – 6:00pm **P** **Japan Session: How Japan is dealing with its aging infrastructure**
 5:30pm – 6:30pm **I** **IRF Committee Meetings**
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FOR THE LATEST AGENDA, PLEASE CLICK HERE



NOVEMBER 8 • THURSDAY

7:00am – 8:30am	I	IRF General Assembly
9:00am – 10:30am	E	Executive Panel: The Future of Road Engineering
9:00am – 10:30am	T	TS 1.2: Preserving Road Assets 1
9:00am – 10:30am	T	TS 3.2: Traffic Safety Culture: Creating a Lasting Behavioral Change on Road Users 1
9:00am – 10:30am	T	TS 4.2: Structures: Materials
9:00am – 10:30am	T	TS 6.2: Toward Smart Cities 2
11:00am – 12:15pm	X	Construction Techniques, Innovative Project Delivery and High-Performance Equipment
11:00am – 12:15pm	X	Meeting the Big Data challenge
11:00am – 12:15pm	X	Unleashing the Potential of PPPs in the US
11:00am – 12:15pm	T	TS 1.3 Preserving Road Assets 2
11:00am – 12:15pm	T	TS 3.6 Road Traffic Crash Analysis
1:45pm – 3:00pm	X	Innovative Solutions & Applications for Congestion Mitigation
1:45pm – 3:00pm	T	TS 1.4 Road Inventory & Inspection 1
1:45pm – 3:00pm	T	TS 3.4: Road Safety Management
1:45pm – 3:00pm	T	TS. 2.1 Innovative Pavement Design & Construction 1
1:45pm – 3:15pm	S	Safer by Design: Part 3: Roadside & Median Safety Application
3:30pm – 4:30pm	I	IRF Board of Directors Meeting
3:30pm – 5:00pm	X	Asphalt Rubber: Benefits & Applications
3:30pm – 5:00pm	S	Safer by Design: Part 4: Work Zone Safety Technologies
3:30pm – 5:00pm	T	TS 1.5 Road Inventory & Inspection 2
3:30pm – 5:00pm	T	TS. 3.3: Traffic Safety Culture: Creating a Lasting Behavioral Change on Road Users 2

NOVEMBER 9 • FRIDAY

7:00am – 8:00am	G	IRF Executive Committee Meeting
9:00am – 10:30am	E	Executive Panel Connected, Autonomous & Shared Mobility: is our Road Network Ready?
9:00am – 10:30am	T	TS 1.6: Asset Management Strategies & Guidelines
9:00am – 10:30am	T	TS 2.2: Innovative Pavement Design & Construction 2
9:00am – 10:30am	T	TS 3.5: Roadside Safety
9:00am – 10:30am	T	TS 5.1: Tunnel Design & Management
11:00am – 12:15pm	X	Funding Road Safety
11:00am – 12:15pm	S	Safer Roads by Design: Part 5: Making Roads Safe for All Users
11:00am – 12:15pm	T	TS 2.3 Innovative Pavement Design & Construction 3
11:00am – 12:15pm	T	TS 3.7 Innovative Road Safety Applications
11:00am – 12:15pm	T	TS 6.3 Urban Mobility, Planning & Development
12:30pm – 1:00pm	C	Closing Session
1:45pm – 3:45pm	H	Project NEON Technical Tour
4:00pm – 6:00pm	I	IRF Fellows Reunion

OPENING KEYNOTE



SHELLEY ROW, P.E., PTOE, CSP

Former Director, ITS Joint Program Office, US Department of Transportation

Shelley Row is a recognized expert in transportation programs, management, and ITS. Ms. Row is widely-known within the transportation community for her leadership, vision and organizational skills.

FEATURED SPEAKERS



Shelley Row
Shelley Row Associates LLC
President & CEO



Bud Wright
AASHTO
Executive Director



Rudy Malfabon
Nevada DOT
Director



Patrick Sankey
IRF Global
President & CEO



Shawn MacCormack
Bechtel
Manager of Construction, Bechtel
Infrastructure Civil Sector Lead,...



Ahmed Al-Hassan
Public Authority for Roads &
Transport
Director General



Kirk Steudle
Michigan Department of
Transportation
Director



Maitha bin Adai
Dubai Roads & Transport Authority
CEO - Traffic & Roads Agency



Kristina Swallow
American Society of Civil Engineers
(ASCE)
ASCE President 2018



Susan Martinovich
Jacobs
Highway/Bridge Director for North America



Shirley Ybarra
Former Virginia Secretary of Transportation



Ken Smith
HDR
Transportation Program Management
Director



Joe Toole
Former, US FHWA Acting Administrator



Brian Hoeft
Regional Transportation
Commission of Southern Nevada
Freeway and Arterial Systems of
Transportation (FAST) Director



Chris Sanders
Lindsay Transportation
Executive Vice President



Daniel Hickey
3M Transportation Safety Division
Global Government Affairs

MORE SPEAKERS

AWARDS PROGRAM

The IRF Awards Programs are set up to gather information on the exemplary people and projects that place this industry at the forefront of social and economic development. By recognizing such individuals and groundbreaking projects, the IRF seeks to publicize the great positive impact that the road building industry has on the global quality of life. By promoting the innovative ideas and successes of our industry, we can provide a road map for others to follow.

GLOBAL ROAD ACHIEVEMENT AWARDS

The IRF Global Road Achievement Awards (GRAA) program is a competition to honor and recognize road-industry projects that demonstrate excellence and innovation in road development worldwide. The program, which is designed to elicit information on successful projects and programs from leading industry organizations, will draw attention to these leading projects and organizations, providing a road map for others to follow in continuously improving and advancing road development worldwide.



PROFESSIONAL OF THE YEAR

The International Road Federation Professional of the Year Award is one of the most prestigious individual honors in the global road industry. The Award, which was established in 1951 and is open to both IRF members and non-members, recognizes eminent public, private and educational sector professionals who have demonstrated passion, leadership and commitment to the sector.



2017 GRAA WINNERS

IRF PROFESSIONAL OF THE YEAR AWARD

November 7

GLOBAL ROAD ACHIEVEMENT AWARDS

November 7

Achievement
Award

ABOUT 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

The International Road Federation is 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.

2018 IRF GLOBAL GENERAL ASSEMBLY & BOARD OF DIRECTORS MEETING

Against a backdrop of fast-paced change and innovation within our industry, IRF has continued to expand our programs and services, and the 2018 IRF General Assembly is an opportunity for members to learn about and help shape the future of these programs. Please plan to join the volunteer leadership of IRF Global at the following meetings::

- **Wednesday November 7, 17:00** – Meetings of the IRF Technical & Regional Committees
- **Thursday, November 8, 08:00** – IRF General Assembly
- **Thursday, November 8, 15:30** – IRF Board of Directors (by invitation only)

PROJECT NEON LAS VEGAS



Project NEON will widen 3.7 miles of Interstate 15 between Sahara Avenue and the “Spaghetti Bowl” interchange in downtown Las Vegas. It’s currently the busiest stretch of highway in Nevada with 300,000 vehicles daily, or one-tenth of the state population, seeing 25,000 lane changes an hour. At almost \$1 billion, project Neon is the largest public works project in Nevada history, with anticipated completion in Summer 2019.

- HOV direct connect between U.S. 95 (west of Spaghetti Bowl) and I-15 (south of Spaghetti Bowl)
- Conversion of express lanes on I-15 to one HOV lane and one general purpose lane
- Neon Gateway interchange for HOV and rapid transit use
- Ramp braiding to reduce merge and weave traffic on I-15
- Reconstruction of I-15/Charleston Boulevard interchange
- MLK Boulevard realignment with flyover at Charleston Boulevard
- Grand Central Parkway extension to Western Avenue and Industrial Road
- Aesthetic and landscape improvements

ACTIVE TRAFFIC MANAGEMENT

As part of Project Neon, 42 ATM signs will be installed on I-15 and US 95. The strategically placed signs will disseminate lane-specific traveler information.

HIGH OCCUPANCY VEHICLE LANES

N-DOT is converting the existing I-15 express lanes to one HOV and one general purpose lane. HOV users will have direct access to downtown through a new HOV interchange, the Neon Gateway.

** Registration for the Project Neon technical tour will be available on-site. Buses will depart the Tropicana Las Vegas for Project Neon at 1:45 pm on Friday November 9.*

CONFERENCE SPONSORSHIP BENEFITS & RATES

Place your company's brand, products and services at center stage during this high-level industry event. With an exhibit or sponsorship package you can build greater market awareness by increasing your exposure in front of top decision makers, government officials and buyers who are directly involved with road and transport infrastructure industry programs.

SPONSORSHIP LEVELS	PLATINUM	GOLD	SILVER	BRONZE	PATRON
COST: IRF MEMBER NON MEMBER	\$50,000 \$60,000	\$25,000 \$31,250	\$15,000 \$18,750	\$10,000 \$12,500	\$5,000 \$6,250
Maximum Number of Sponsorships	1	5	10	OPEN	OPEN
Number of Registrations	15	10	7	3	2
Opportunity to Present	✓	✓	✓	✓	✓
Sponsorship On-Line after Event	✓	✓			
Access to Vip Refreshment Lounge	✓	✓			
Sponsorship Recognition at Coffee Break	✓	✓	✓	✓	✓
Gala Dinner Sponsorship	✓				
Advertisement in Exhibitor Guide	Full Page	Full Page	Half Page	Quarter Page	
Logo In Event Program	✓	✓	✓		
Materials in Congress Briefcase	✓	✓	✓		
Publicity/Folders/Paper/Pens Handouts on Chairs	✓				
Raw Exhibit Space	20x20 sq ft	10x20 sq ft	10x20 sq ft	10x10 sq ft	
Advanced Publication / Website Link	✓	✓	✓	✓	✓
Logo Recognition at Event	✓	✓	✓	✓	✓
15 Minute Live Theatre Presentation in the Exhibition	✓	✓	✓		

**20%
DISCOUNT**
for
**IRF
MEMBERS**

For Sponsorship Inquiries and more information please contact
Magid Elabyad: melabyad@IRF.global

PROFILE OF ATTENDEES

- Construction Contractors, Engineers & Managers
- Equipment Manufacturers, Suppliers and Distributors
- Highway Agency & Municipal Staff in charge of tenders
- Highway Agency & Transportation Officials
- Design Consultants, Engineers & Managers
- Engineering Services Professionals
- Transport Research Institutes
- University Researchers and Professors
- Traffic Technology and ITS Consultants, Engineers and Managers

EXHIBITION RATES

Inside Booth Space 100 - 300 NSF. \$36/SqFt			
10x10 - \$3,600	10x20 - \$7,200	10x30 - \$10,800	
Inside Booth Space 400 - 900 NSF. \$35 /SqFt			
10x40 - \$14,000	20x20 - \$14,000	20x30 - \$21,000	30x30 - \$31,500
Inside Booth Space 1000+ 3500 NSF. \$30/SqFt			
20x50 - \$30,000	30x40 - \$36,000	40x40 - \$48,000	
50x50 - \$75,000	50x70 - \$105,000		



IRF
— GLOBAL —

FLOOR PLAN

GLOBAL

KNOWLEDGE • ADVOCACY • EDUCATION
BEST PRACTICES • BUSINESS OPPORTUNITIES

Better Roads. Better World.



IRF
GLOBAL

International Road Federation

GLOBAL HEADQUARTERS & SECRETARIAT

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REGIONAL OPERATIONS

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www.IRF.global