STAY IN TOUCH

Visit our website at www.IRF.global, where you can sign-up for our newsletters and learn more about our global program of work.

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2019 IRF EXECUTIVE SUMMARY & ANNUAL REPORT

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More than seven decades after its establishment, the International Road Federation remains fully committed to championing a long-term vision and agenda that assists countries in meeting their citizens’ demands for safe and efficient road mobility.

These demands, and the underlying policy and technological responses, are rapidly shifting. At IRF’s flagship “Roads to Tomorrow” (R2T) conference this year, featured themes included roadway analytics, Artificial Intelligence applications, autonomous driving, and dynamic mobility pricing to name a few. Some of these topics would not have been addressed at an IRF conference as little as five years ago.

One of the powerful messages we have heard over and over again is that transportation planning cannot continue business-as-usual when business is anything but usual. An avalanche of data is being generated through connected vehicles and location-based services. Travelers themselves have individualized information at their fingertips, and a new challenge now arises in the way transportation agencies engage with a more informed, tech-savvy public.

What ties these questions together is that they all require a level of stakeholder consensus-building that IRF is uniquely positioned to deliver through its world-class programs and relentless emphasis on capacity strengthening.

As a global federation, we excel at bringing decision-makers together. Every four years, we extend our reach even further by inviting the global road community to an IRF World Meeting and Exhibition.

Since the first World Meeting in Washington DC in 1952, these World Meetings have constituted a focal point for transportation leaders, as well as a one of a kind opportunity to set strategic orientations across the entire sector.

As host of the 17th IRF World Meeting in Riyadh, I can attest to the transformative impact this event has had for my home, the Kingdom of Saudi Arabia.

And it is therefore with great pleasure that I am pleased to announce that the city of Dubai has unanimously been chosen to host the 18th World Meeting & Exhibition in November 2021.

Dubai is undisputedly a ‘City of the Future’. At the heart of this story lies the efforts of the Roads & Transport Authority (RTA) to foster a culture of excellence, quality, and innovation. In 2017, RTA signed a knowledge partnership with the International Road Federation aimed at advancing world-class practices in Dubai’s road mobility system. The 18th IRF World Meeting adds a new chapter to this partnership, and represents a valuable opportunity for road actors everywhere to innovate and collaborate – there is much we can learn from one another.

As we prepare for this major milestone, I call upon the global transportation community to fully engage with the IRF throughout this process.

H.E. Eng. Abdullah A. Al-Mogbel
IRF Chairman
IRF AT-A-GLANCE

Share, Engage & Grow with the IRF

Share: IRF was founded with the goal of spreading knowledge and best practices. At the heart of this process are the innovations developed by our member organizations which are featured at IRF events, in webinars, and through our awards program.

Engage: Membership of the IRF is a gateway to leading industry specialists in more than 80 countries. Working through committees and task forces, our members enrich one another with new perspectives made possible when government, industry and academia work together.

Grow: We help our members enhance the professional qualification of their personnel through our continuing education services, and implement their expansion strategies, through our global program of events.

IRF MILESTONES

1948: IRF chartered in Washington, DC
1949: Established the International Road Educational Foundation (IREF)
1952: 1st IRF World Meeting, held in Washington, DC
1954: Award first IRF Fellowships
1975: Governments included as Full Members of IRF
2001: Created IRF Global Road Achievement Awards (GRAA)
2011: 1st IRF Caribbean Regional Congress
2013: 17th IRF World Meeting held in Saudi Arabia
2014: 1st IRF Asia Regional Congress
2015: 1st IRF Europe & Central Asia Regional Congress
2016: Established IRF Global
2017: Opened IRF Global Training Institute
2018: Opened Regional Training Institutes in Zagreb and Dubai
2019: 1st IRF Global R2T Conference & Exhibition

2019 Annual Report: An Executive Summary of Activities
IRF BOARD OF DIRECTORS

With leadership from 27 countries, the IRF Board of Directors represents all aspects of the road and transport industry, including government, academia, and the private sector, and truly reflects the IRF’s status as a global federation.

Chairman
Abdullah A. Al-Mogbel (Kingdom of Saudi Arabia)

Senior Vice Chairman
Dr. Bill Sowell
Eberle Design, Inc (USA)

Vice Chairman
Dan Hickey
3M (USA)
Jeffrey R. Reed
Valley Slurry Seal Co. (USA)
Thomas Topolski
Parsons (USA)

Treasurer
Lester Yoshida
Parsons (USA)

President & CEO
C. Patrick Sankey
International Road Federation

Secretary

IREF Chairman
Billy Troxler
Troxler Electronic Labs. (USA)

Elected Directors to Serve on the Executive Committee (2019-2020)
Robert Jaffe
Consystec (USA)

Koji Kaminaga
Japan Road Association (JAPAN)

Chris Sanders
Lindsay Transportation Solutions (USA)

Omar Smadi
Iowa State University (USA)

Fernando Vilhena
Armco Staco (Brazil)

Directors (2018-2020)
Arizona State University (USA)
Kamil Kaloush
Ascendi (Portugal)
Jose Reves
Argentina Road Association (Argentina)
Miguel Angel Salvia
AVS-Berghaus (Germany)
Dirk Schoenaau
Bechtel (United Kingdom)
Chris Jennions
China Road Federation (Chinese Taipei)
Joe Y. Chou
Dar Al-Handasah (Lebanon)
Bashar Rihani
DBI (USA)
John LeFante
Eberle Design Inc. (USA)
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Japan Road Contractors Association (Japan)
Yoshinori Nishida
Korea Expressway Corp. (South Korea)
TBN
Lindsay Transportation Solutions (USA)
Chris Sanders
Ministry of Communications (Mexico)
Cedric Escalante
Ministry of Works (Bahrain)
Essam Khalaf
Ministry of Transport and Infrastructure (Turkey)
M. Cahit Turhan
Pan Arab Consulting Engineers (Kuwait)
Sheikha Al Arfaj
Road & Transport Authority Dubai (UAE)
Maitha bin Adai
SABER (UAE)
Shaifik Nasser
Saudi Consulting Services (Kingdom of Saudi Arabia)
Tarek Al-Shawaf
Sumitomo Mitsu Construction Co. (Japan)
Akio Kasuga
Swarco (Austria)
Carl McCollum
TrafFix Devices (USA)
Brent Kulp
Troxler Electronic Laboratories, Inc. (USA)
William F. Troxler, Jr.
TTTS Italia (Italy)
Olga Landolfi
University of Central Florida (USA)
Mohammed Abdel-Aty
University of Zagreb (Croatia)
Andelko Scukanec
Zydex Industries (India)
Ajay Ranka

Directors (2019-2021)
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Dan Hickey
Armco Staco (Brazil)
Fernando Vilhena
Avery Dennison (Colombia)
Patricia Calle
Consulpav (USA)
George Way
ConSysTec (USA)
Robert Jaffe
EROAD (New Zealand)
Nina Elter
Fireseeds North (Canada)
Craig Milligan
Glassbeads SA (Argentina)
Mariano Barone
Horizon Signal Technologies (USA)
David Krabluic
Iowa State University (USA)
Omar Smadi
LanammeUCR (Costa Rica)
Luis Loria
Maeda Corporation (Japan)
TBN
Ministry of Transport (Indonesia)
TBN
Ministry of Transport-formerly (Kingdom of Saudi Arabia)
Abdullah Al-Mogbel
Ministry of Transport (Jamaica)
Robert Mantague
Mutlaq AlGhowari Company (Kingdom of Saudi Arabia)
Mutlaq AlGhowari
National Roads Authority (Cayman Islands)
Paul Parchment
Parsons (USA)
Lester Yoshida
REAAA (Malaysia)
Hermanto Dardak
RoadBotics (USA)
Benjamin Schmidt
Road Infrastructure Inc (USA)
Paul Carlson
SensysGatso (Netherlands)
Philip Wijers
South African Road Federation (South Africa)
Saied Solomons
Transpo Industries (USA)
Michael Stenko
University of Alabama (USA)
Shashi Nambisan
University of Nebraska (USA)
Ronald Faller
Valley Slurry Seal Co. (USA)
Jeffrey Reed
WSP (USA)
Sofia Berger
IRF COMMITTEES

The International Road Federation is a leading global advocate for the road sector, promoting best practices across all major policy areas. Through IRF Committees, knowledge-sharing programs, and capacity building initiatives, IRF members can reach out to a global audience of key governmental decision-makers and affect real change in road policies around the world. All members in good standing of IRF are eligible for induction in IRF regional & technical committees. For additional information, please contact advocacy@irf.global.

REGIONAL AFFAIRS

The mission of the regional committees are to identify the needs of regional members; provide guidance to staff in the development of regional events and advocacy initiatives; and provide a forum for intra- and inter-regional communications.

Africa
Chair: Magnus Quarshi, Institution of Engineers, Ghana

Latin America
Chair: Miguel Angel Salvia, Argentina Road Association, Argentina

Middle East & North Africa
Chair: Shafik Nasser, SABER Investment Co., UAE

Central Asia
Chair: Mammadov Saleh Arshad, Azeravtoyol, Azerbaijan

TECHNICAL COMMITTEES

The mission of the IRF Technical Committees is to foster a network of practitioners to share knowledge and contribute to the development of improved best practices.

Asset Management
Chair: Mohammad Al Sayaar, Agile Assets, USA

ITS
Chair: Dr. Bill Sowell, Eberle Design, Inc., USA

Subcommittees
- Business Development
- Education
- Road User Charging
- Smart Cities
- Systems Engineering

Pavements
Chair: Kamil Kaloush, Arizona State University, USA

Procurement & Alternative Financing
Chair: Eric Cook, Senior PPP Advisor, USA

Road Safety
Chair: Chris Sanders, Lindsay Transportation Solutions, USA

Subcommittees
- Driver Behavior, Education, and Training
- Enforcement
- Intersections/Roundabouts
- Roadside Safety Features
- Vulnerable Users
- Work Zones & Temporary Traffic Control Safety

“IRF Committees serve as a clearinghouse for international best practices”

C. Patrick Sankey
President & CEO
International Road Federation
A GLOBAL FOOTPRINT

30 events held globally

Highlights of 2019 conferences
“Wrapping up here at #IRFR2T today in Vegas! We spent the last few days surrounded by worldwide transportation industry leaders. Big thank you to International Road Federation for putting on a great conference! #TravelSafeWorkProtected

Hill & Smith
2019 ACTIVITIES

More information: www.IRF.global/events

IRF Road Scholar Program
January 9-17, 2019
Washington, DC USA

IRF PPP Workshop (APMG Certified)
February 4-8, 2019
Washington, DC USA

Safer Roads by Design: Engineering Solutions to Implement iRAP Surveys
March 4-8, 2019
Washington, DC USA

IRF Performance-Based Contracts
March 10-20, 2019
Washington, DC USA

IRF Performance-Based Contracts Executive Seminar
March 25-26, 2019
Kuching, Malaysia

Managing Road Assets
March 25-27, 2019
Zagreb, Croatia

PPPs in the Road Sector (APMG Certified)
April 8-12, 2019
Barcelona, Spain

8th Caribbean Regional Congress & Exhibition
May 8-10, 2019
Georgetown, Guyana

2nd Road Safety & Innovation Forum
May 15, 2019
Sofia, Bulgaria

Roadside Safety Workshop
May 16, 2019
Sofia, Bulgaria

Procurement & Contract Mgmt. in Highway Projects
June 3-7, 2019
Washington, DC USA

Procurement & Contract Mgmt. in Highway Projects
June 17-21, 2019
Washington, DC USA

1st IRF Regional Conference & Exhibition for Road Safety
June 27-29, 2019
Kuala Lumpur, Malaysia

Black Spot Management & Network Safety Management
July 10-12, 2019
Zagreb, Croatia

Roadside & Work Zone Safety Workshop
July 14-16, 2019
Dubai, UAE

Smart Transport Infrastructures Summit
July 24-25, 2019
Dar es Salaam, Tanzania
2019 Annual Report: An Executive Summary of Activities

EXECUTIVE SEMINARS & WORKSHOPS

REGIONAL CONGRESSES & INTERNATIONAL MEETINGS

COUNTRIES WITH IRF REPRESENTATION

REGIONAL OPERATIONS

Safe Roads by Design™: Making Roads Safe for All Users
August 19-23, 2019
Washington, DC USA

6th Latin America Regional Congress & Exhibition
September 10-13, 2019
Mexico City, Mexico

The Use of Recycled Materials in Roadways
September 23-27, 2019
Washington, DC USA

Transport Connectivity Forum
October 1-2, 2019
Podgorica, Montenegro

IRF Symposium on Traffic Signs & Pavement Markings
October 3-4, 2019
Zagreb, Croatia

IRF Regional Asphalt Conference
October 3-4, 2019
Santiago, Chile

IRF Performance-Based Contracts Executive Seminar
October 20-30, 2019
Orlando, Florida USA

The Use of Recycled Materials in Roadways
October 28-30, 2019
Dubai, UAE

PPPs in the Road Sector (APMG Certified)
November 4-8, 2019
Washington, DC USA

Road User Charging/Electronic Toll Collection
November 13-15, 2019
Zagreb, Croatia

2nd IRF Global R2T Conference & Exhibition
November 19-22, 2019
Las Vegas, NV USA

Safe Roads by Design™: Making Roads Safe for All Users
December 9-13, 2019
Washington, DC USA

Building Climate Resilience into Roads & Transport Infrastructure
December 9-13, 2019
Washington, DC USA

PPPs in the Road Sector
December 10-12, 2019
Dubai, UAE
Dubai, one of the world’s iconic cities, has been designated to host the International Road Federation’s World Meeting & Exhibition on November 8-11, 2021.

Held every four years since the launch edition in Washington D.C. in 1952, IRF World Meetings have constituted a focal point for transportation leaders, as well as a one of a kind opportunity to set strategic orientations across the entire sector.

The 18th IRF World Meeting aspires to be a global summit & technology showcase that is both uniquely relevant to a wide cross-section of road mobility stakeholders, and focused on delivering solutions to the world’s pressing mobility questions. A large-scale exhibition running alongside the World Meeting will offer delegates an opportunity to further their understanding of advanced road construction & mobility concepts in an immersive environment.

“We are thrilled to announce Dubai as the host of IRF’s flagship event”, noted C. Patrick Sankey, IRF President & CEO. “Dubai’s world-class transport system is a vivid illustration that long term investment strategies improve the daily lives of citizens”.

“It is a source of great pride that IRF is planning the premier event for transportation professionals in 2021 alongside our local host, the Dubai Roads & Transport Authority” added H.E. Abdullah Al-Mogbel, Chairman of the IRF. “The presence of policy makers and road professionals, from different regions of the world and at different stages in their careers, is an essential component of this event, and I call upon the global transport community to fully engage with the IRF throughout this process”.

H.E Mattar Al Tayer, Director General, Chairman of the Board of Executive Directors, RTA, said “Dubai Roads and Transport Authority is excited to host the International Road Federation’s World Meeting & Exhibition in November 2021. Such events provide the opportunity to showcase the latest in world-class transport infrastructure in the Middle East and helps establish Dubai’s position as a city that is smart, safe and dynamic. With Dubai’s goal of achieving 25 percent of all transport autonomous by 2030, the IRF World Meeting and Exhibition will be conducive in bringing new learnings to the region as well as open avenues for partnerships and cooperation.”

“Dubai is the undisputed ‘City of the Future’ in the Middle East. At the heart of this story lies RTA’s efforts to foster a culture of excellence, quality, and innovation” stated Eng. Maitha Bin Adai, CEO, Traffic and Roads Agency, RTA. “In 2017, RTA signed a knowledge partnership with the International Road Federation aimed at advancing world-class practices in Dubai’s road mobility system. The 18th IRF World Meeting adds a new chapter to this partnership, and represents a valuable opportunity for road actors everywhere to collaborate and innovate”. 
IRF Convenes Global Road Innovation Platform:

A global summit of road mobility thought-leaders and innovators was convened on November 19-22 in Las Vegas, Nevada at the invitation of the IRF.

A one of a kind event, the IRF Global R2T Conference & Exhibition is an international meeting point where leading industry stakeholders acquire essential engineering & business insights, and help set an ambitious strategic agenda for 21st century road mobility.

Dubai Roads & Transport Authority Director General H.E. Mattar Al Tayer, Regional Transportation Commission of Southern Nevada Deputy CEO David Swallow, Michigan DOT Director Paul C. Ajegba, UAE Director of Federal Roads Eng. Ahmed Al Hammadi, Contra Costa Transportation Authority Executive Director Randell Iwasaki, and Nevada DOT Deputy Director Tracy Larkin figured among leading international specialists who will be sharing best practices, research findings, case studies, and though-provoking ideas during the four-day event.

According to IRF President & CEO C. Patrick Sankey “IRF remains fully committed to championing a long term vision and agenda that will assist agencies everywhere in meeting citizens’ demands for safe and efficient road mobility and it is with these goals in mind that we have designed this event: a Conference, unique in its aspiration to capture the insights and innovations of the global industry”.

“As Chairman of the International Road Federation, it is a source of great pride to see how far our organization has come in fulfilling its mandate to become the world’s leading platform for best practices and industry solutions” noted IRF Chairman Eng. Abdullah Al-Mogbel. “New technologies are transforming our sector on a yearly basis, and to assure success in our efforts to build the best possible transportation infrastructure for tomorrow, our industry must invest in people and leadership skills. IRF has embraced this challenge.”
8th Caribbean Regional Congress: Anchoring Guyana’s Development

The region’s annual flagship event for the road sector struck another high note in 2019 thanks to the concerted efforts of Guyana’s transport and economic development agencies in close partnership with the Caribbean Development Bank and the Inter-American Development Bank.

With oil reserves recently estimated at 800 million-1.4 billion barrels, worth at least USD 44 billion at current prices, Guyana is on the verge of a sharp increase in economic growth. Leveraging national resources to improve the scale and quality of Guyana’s infrastructure assets is thus an ongoing Government priority. Large scale road projects are currently underway, including the rehabilitation of segments along the coastal road, the construction and upgrading of numerous bridge, and upgrades to the four-lane Demerara Bridge Highway. Progress also continues with the construction of a floating bridge over the Berbice River to replace the existing ferry.

The Congress confirmed the value of coordinated policies and knowledge sharing programs on issues that affect the region as a whole, from resilient infrastructure and project funding, to traffic safety and road sector leadership.

6th Latin America Regional Congress: Connectivity for All

Mexico’s Secretariat of Communications & Transport (SCT) was the host to IRF’s biennial pan-American conference which took place in September 2019.

Road investments in Latin America are at a turning point in 2019, supported by sectoral reform and macro-economic measures to lift barriers to international trade and foreign investments. Mexico embodies this trend by recently announcing USD 4 billion in public and private funds will be spent on road infrastructure in 2019 - double the investment levels of previous years and expected to generate 31,000 direct jobs and double as much indirect employment.

Against this backdrop, the 6th IRF Latin America Regional Congress & Exhibition provided a unique platform for road professionals to improve their understanding of the region’s challenges, and embrace forward-looking policies and investments. The Congress was keynoted by Cedric Escalante, Undersecretary of Infrastructure at SCT and an IRF Fellow (Class of 1971).
Committing Stakeholders

Countries around the world are at an important milestone in the achievement of their road traffic injury reduction targets. Since 2015, the gap between the best and worst-performing countries has continued to widen, suggesting that cost-effective measures, enabled by actionable data and technological progress, need to be investigated.

Prolonging a reflection initiated in 2018, IRF delivered two road safety conferences & exhibitions designed to foster discussions and policy initiatives supported by an ecosystem of road safety stakeholders.

One of the key objectives for these events was to provide a thorough overview of the opportunities to successfully deploy innovative safer road mobility programs, and commit stakeholders to a shared agenda of road safety innovation through public-private sector cooperation.

A Vision Zero Roadshow in 2020

The end of the United Nations Decade of Action for Road Safety in 2020 marks the start of new forms of international collaboration to avert the continuing and growing epidemic of road traffic injuries, responsible for 1,350,000 fatalities per year. Key to the success of further efforts is the acknowledgement that no level of death or serious injury is acceptable. Taking human fallibility and vulnerability into account must thus become paramount priorities for all actors of the road transport system.

The International Road Federation is fully committed to supporting efforts to translate Vision Zero commitments made by national leaders into a tangible policies and design guidelines. Starting in 2020, the IRF will hold a cycle of result-driven road safety conferences aimed at bringing applied knowledge and solutions to countries around the world, and resulting in targeted recommendations for the host country agencies.
After many years spent on the geographic periphery and overlooked by policy-makers and planners, the Western Balkans are now firmly connected to the rest of Europe’s transport system. In recent years, the region has been characterized by a surge in new road projects, straining the capacity of public agencies to render effective decisions that combine short term project delivery goals and long-term network asset management strategies. Nor do road agencies always capture opportunities to combine large scale civil engineering projects with local talent development programs.

March 2019 saw the formal opening of a regional IRF Training Institute hosted by the University of Zagreb’s Faculty of Transport & Traffic Studies and the delivery of an inaugural training workshop on road infrastructure asset management described by several participants as “one of the best professional courses they had ever attended”. A second regional training workshop on Black Spot & Network Safety Management was delivered, followed by a third one on Road User Charging.

The year closed with The Transport Connectivity Forum, one of the largest transport events to be organized in Montenegro at the joint invitation of the Ministry of Transport and Maritime Affairs of Montenegro and the International Road Federation. The Forum was designed to support a dialogue on connectivity needs, transport safety, and implementing infrastructure investments in the Western Balkans region. During the Transport Connectivity Forum, a range of attendees including professional and academic public, government representatives and decision makers from the region and EU countries, non-governmental sector, as well as international institution, had the opportunity to participate in workshops focused on road safety, the importance of delivering infrastructure investments and public-private partnerships.

“The idea of establishing a common market in the Western Balkans is increasingly being heard, and in that sense it is necessary to accelerate the trade exchange of the region, which must be accompanied by intensive development of transport infrastructure and efficient and safe transport links, in order to make the region more attractive at the end for transit traffic flows”, according to Montenegro’s Minister of Transport and Maritime Affairs, Osman Nurkovic.
Traffic signs & pavement markings have been in use for over 100 years to provide essential guidance and delineation of the travel path. In the ensuing years, the performance of these systems has been greatly expanded with the introduction of retro-reflective optics to increase visibility at night and in wet night time conditions.

Today, well designed and maintained traffic signs & pavement markings have proven safety benefits. Drivers able to understand the road environment and make informed decisions are less prone to run-off road accidents. However, design standards were developed with young drivers performance data and slower speeds. Highways now designed for older drivers and high speeds.

In the future, however, human-led vehicles will slowly give way to partial-to-full automated vehicles operating in expanding conditions. How can agencies prepare for this trend while continuing to provide safe and efficient travel for today’s drivers?

To answer these essential questions, IRF together with the University of Zagreb’s newly-established European Road & Traffic Institute organized a two-day international symposium taking stock of international experience in the design and maintenance of traffic signs and pavement markings. This event also covered global efforts to roll out new guidelines for connected & autonomous driving, through a cross-sector panel of road agencies, research institutions and industry stakeholders.

The Symposium saw leading specialists benchmark existing practices and new research in Europe and North America. There was general consensus that for the foreseeable future, systems will need to work for humans and vehicles – a case in point being the trend towards wider (6-inch) lane markings which increase the detection of horizontal curves for human drivers whilst improving the performance of automated driving technologies. The variety of marking systems & traffic control devices in use present a formidable challenge which will only be successfully addressed through regular cooperation and data exchange between the highway and automotive industries.

Opening the event, IRF Executive Vice-President Michael G. Dreznes noted: “The UN Decade of Action for Road Safety has been marked by an incredible surge in the public awareness of the road traffic injury problem. Our roads have been made more self-explaining and forgiving of human errors, leading to better engineering practices being mainstreamed in the design of new road infrastructure. The road safety industry itself is constantly innovating, and symposiums such as these provide an invaluable opportunity to connect these innovations with Vision Zero objectives.”
THE INDUSTRY’S MOST TRUSTED BRAND IN EXECUTIVE EDUCATION

Expanded Training Curriculum

2019 Training Highlights
“IRF is one of the most effective organizations in the area of training”

Eric Dean Cook, PE
EXPANDED TRAINING CURRICULUM

For more than 60 years, an essential part of IRF’s mission has been the organization and delivery of executive education services that provide continuing professional development for individuals and contribute to the dissemination of knowledge and expertise throughout the world. Today, IRF offers 42 separate courses, ranging from designing Public Private Partnerships to implementing road safety audits.

As a strong believer in continuing education, IRF provides members and road professionals worldwide with educational opportunities at all stages of road policy development and project implementation.

IRF courses are delivered by the engineers, constructors, materials suppliers, and working practitioners in the road building industry providing the latest practices and insights on best practices and the current trends in our market.

IRF courses cover the whole of the project lifecycle from planning and financing through design and construction, asset management and highway operations.

There are many ways to benefit from IRF’s educational services:

• At the IRF Global Training Institute (Alexandria, VA) where the majority of training programs are delivered in a new, state-of-the-art facility.

• Through IRF’s program of webinars and global credentials.

• As part of study tours, where delegates meet their peers, visit research facilities and engage with the contracting industry.

• In country / on premises: IRF instructors will design a bespoke program and travel to the training facility of your choice.

TRACKS

Finance & Procurement
Project Management
Building Resilient Roads
Safer by Design
Asset Management
ITS
Traffic Planning & Management

Planning & Design
Construction & Pre-opening
Normal Operation
Maintenance & Renewal
Major Upgrading & Renewal
Error Correction, Hazard Elimination
When the Roads and Transport Authority (RTA) embarked on a talent development initiative for its Emirati staff, it turned to the International Road Federation to deliver a comprehensive knowledge transfer program covering a wide spectrum of operational areas.

According to the Authority, “rolling out this program is in line with the national drive to invest in nationals by giving them exposure to customised training on relevant fields to enhance their knowledge, skills and competency. The ultimate objective is to groom and empower them to support the development efforts in Dubai and the United Arab Emirates (UAE). Enhancing the abilities of local staff also contributes to the seventh principle of the 50-Year Charter of Dubai (A Land for Talent).”

Moreover, upskilling Emirati staff on matters related to roads and traffic fits well with the high standing of the UAE’s road network as measured by the World Economic Forum’s global competitiveness ranking.

Topics include offering the safe design and management of road networks, asset management processes covering roads, bridges & tunnels, the design of sustainable pavements, contract management, leveraging roadway analytics, as well as next generation traffic control systems.

The program is being delivered as part of a framework Memorandum of Understanding signed in 2017 by Eng. Maitha bin Adai, CEO of Traffic and Roads Agency (TRA), and C. Patrick Sankey, President & CEO of the IRF. It includes 10 fields covering 45 topics and representing a total of 35 training days between October 2019 and July 2020.
IRF Delivers Road User Charging Workshop in Croatia

Tolling technologies have made tremendous progress over the past decade, however their deployment on the ground still presents considerable investments and risks. IRF’s new certified training course was a unique opportunity to grow expertise and gain new insights in this fast-moving field.

Bringing together delegates from 8 countries, the course provided a rare chance to gain objective and technology-neutral knowledge on ways to migrate existing plaza-based / cash-based toll collection into free flow, noncash mode of operation. Case studies of successful tolling schemes for trucks and light vehicles were presented, as well as updates on a fast-paced regulatory framework.

Over 200 delegates attended the training workshop delivered by IRF in Kuching, Malaysia. “Performance-Based Contracts have become a well-known tool used by road authorities and operators worldwide - however, there is still room for improvement and a need to constantly adapt to a changing economic context” noted IRF Vice President Magid Elabyad. “We are delighted to see colleagues in Malaysia invest in strengthening their capacity to fully utilize these instruments”.

Full House at IRF Course on Performance Based Contracts in Malaysia
IRF Global Road Safety Credentials are Central to Senegal Mission

A program launched in 2017 by the IRF to certify road safety audit team leaders on the basis of experience gained in the field is generating new opportunities for safety professionals worldwide.

Following the advertisement for Road Safety Auditing services of the national routes in Senegal by the Direction of Routes of the Ministry of Infrastructure and Roadway Transports, Transecor (Senegal) sought assistance from the IRF for competent auditors to partner with them on the project. In turn, the IRF provided a list of qualified professionals who had completed the credential program and whose skills the IRF could vouch for.

Escongweni BPH from South Africa responded to the query and following a successful bid submission, were awarded the contract in November 2018 as a sub-consultant to Transecor.

The project entailed the road safety auditing of approximately 3,650 km of the existing national road and freeway network. The team assessed the roads at a network level, combining overall findings with site specific findings that may lead to serious injury crashes and fatalities as no sufficient and reliable historical crash data was available. The network level assessment reviewed each route and identified the potential road safety hazard, followed by a suggested intervention and timeline for implementation.

Riaan Steenkamp, Lead Road Safety Auditor on the project stated: “This opportunity came about as a result of the IRF’s Global Credential for Road Safety Audit Team Leaders. At first, we thought that it would be a value add to our existing Clients in South Africa, but it has now opened a commercial avenue for us. The professional collaboration between ourselves, Transecor, Accidentologue of France and the client who accompanied us in the field has been fantastic as we are able to share local and international experiences related to road safety issues. Without the IRF Global Credential, we would not have been able to work on this mission or even known about it.”

IRF Executive Vice President Michael G. Dreznes commented: “Performing effective road safety audits and inspections at all stages of road design & operation improves safety and demonstrates to the public an agency’s commitment to crash reduction. However, poorly performed or badly documented road safety audits can have negative effects on safety. Worse yet, the road authority would be using its limited financial resources to conduct these audits with less than acceptable results. The IRF Global Credential Program remedies this critical gap by offering a pathway for seasoned road safety auditors who wish to enhance their qualifications at home or seek work abroad”.

2019 Annual Report: An Executive Summary of Activities
THE WORLD’S LEADING ROAD ADVOCATE

Sharing Knowledge Across Borders

IRF Awards
“Winning an IRF Award is one of the ultimate accolades within our industry”

Tarek Shuaib
Chief Executive Officer, Pace | Architecture, Engineering + Planning
Public procurement can be leveraged to deliver long-term value for money, promote innovation and sustainability, according to a new White Paper published by the IRF.

After many years spent on the geographic periphery and overlooked by policy-makers and planners, the Western Balkans are now firmly connected to the rest of Europe’s transport system.

However, the present state of road project preparation across the region reflects chronic administrative weaknesses, and underscores insufficient efforts to learn from successful procurement practices. Where procurement guidelines are not enforced with a high degree of professionalism, there is a much higher risk of sub-optimal delivery.

Many of the region’s countries are ill-equipped to deal with the tendering complexities and delivery oversight mechanisms required for large-scale, multimodal transport infrastructure corridors. Technical capacity and resources available to the region’s Project Implementation Units vary to a considerable degree, suggesting these public entities need to focus attention and assistance from International Financing Institutions in the years to come through mandatory certification programs as well as individual pathways to skills development.

The scale of the management and technical challenges required to implement large road corridor projects in the region furthermore suggest there is growing need to associate delivery partners to the planning and design phases of the project, as is common practice in many developed economies. Engineering, Procurement and Construction (EPC) or Design-Build (D/B) contracts offer a means to achieve this by giving the contractor a greater degree of responsibility for the entire value chain of the project from the early design stage to the formal handover of the final product to the end-user or owner.

A particular area of concern is the inconsistent identification and management of Abnormally Low Tenders by tendering authorities. Over the lifetime of the contract, there is a much higher risk that an ALT will lead to cover overruns, claims, and quality issues. In the case of high-value contracts, e.g. a toll road, the cost of such project delays may significantly outweigh any cost savings at the time of the contract award.

Lastly, chronic under-investment in the maintenance of existing road assets across the region may reflect an insufficient understanding of value-based approaches to transport infrastructure assets. Deferred maintenance negatively impacts road asset performance but also deprecicates its accounting value – an aspect rarely integrated in the public balance sheet of the region’s economies. Life-cycle cost should be preferred for long-term value creation. The value proposition of alternatives to new build must also be assessed more systematically.
Charging for the use of roads is not a new practice – dating as far back at the 7th century BCE – but its recent rate of expansion has been staggering. By some estimates, the combined road pricing market for electronic road tolling, congestion pricing and road usage charging (RUC) — is expected to grow from 196 million subscriptions in 2015 to more than 540 million by 2025. The drivers of this trend are multiple and include the need to fund infrastructure investment and upkeep, tax road users for the “externalities” they generate, charge foreign vehicles using the national road system, and brace for the expected decline in fuel taxes.

The technologies supporting electronic road pricing services currently co-exist as separate ecosystems, frequently guided by economic considerations and national regulations rather than a thorough examination of the benefits each one provides. The growing appeal of electronic road tolling in emerging economies is encouraging road agencies to look at an even wider spectrum of technological responses ranging from integration with mobile payment for private users, to combined services aimed at the fleet operator market.

Lastly, the emergence of autonomous and shared mobility presents challenges for road pricing service providers. Economics dictate that a considerable portion of autonomous mobility will start out as shared trips. UBS predicts that by 2035 urban car ownership will fall by 70% and that the total number of vehicles on the roads could be halved by 2050. These dramatic trends will likely reshape the road pricing market as we know it, in ways that are not yet fully understood.

To take a measure of these trends and understand their wide-ranging implications for the North American market, the International Road Federation (IRF) convened senior specialists to join a Global Leadership Seminar held on November 19, 2019 as part of the 2nd IRF Global R2T Conference.

The seminar’s goals were to align understanding on current & future policy developments driving road user charging, address the technological & business outlook for road tolling, achieve consensus on how long-term mobility trends will likely impact the tolling market and outline opportunities to bridge knowledge gaps through educational resources.

IRF Webinars

IRF e-Learning Webinars offer an excellent overview of the international state of the art and regulatory environment across a range of road and transportation topics. They also provide an introduction to the discussion topics and coursework covered in the traditional courses.

Webinars offered in 2019:
- Improving Road Asset Management for Local Roads
- Data Driven Management of Skid Resistance
- Road User Charging: from Slow March to a Sprint
- Adapting Pavement Markings to Support Highway Safety & Automated Vehicle Technologies
- Virtual and Augmented Reality for Safe Traffic Management
- Procurement & Contract Management in Highway Projects
- Artificial Intelligence for Road Asset Management
- Autonomous Drones for Highway Design & Operations
- Managing Bridge Infrastructure Assets
IRF AWARDS: RECOGNIZING EXCELLENCE

MAN OF THE YEAR

Established in 1951, IRF’s Man (Woman) of the Year award recognizes eminent public, private and education sector professionals with an outstanding track record of leadership and commitment to the road transport industry. Over the years, the award has recognized some of the world’s most influential transport leaders for their work in the field of advocacy, policy, research and educational programs in support of better, safer, and more sustainable road networks globally.

Prior to his recent retirement, Ruane oversaw the American Road & Transportation Builders Association (ARTBA) which he dedicated to aggressively growing and protecting transportation infrastructure investment to meet the public and business demand for safe and efficient travel. Ruane also served as the Treasurer and as Vice Chairman of the International Road Federation.

According to IRF Chairman Eng. Abdullah A. Al-Mogbel, “This accolade crowns an exceptional career dedicated to advocating for the transportation construction industry’s market interests. Pete brought his exceptional energy and insights to the work of the IRF which he helped elevate to its present position.” IRF President & CEO C. Patrick Sankey added, “Having worked in parallel with Pete on transportation construction issues for three decades, IRF and the industry he served tirelessly will miss his leadership and vision.”

Find a Way Award

The International Road Federation has presented its annual “Find a Way” Global Road Safety Award to the Mexican public toll operator, CAPUFE, on the opening day of the 6th IRF Latin America Regional Congress & Exhibition in Mexico City.

The IRF “Find a Way” Award recognizes outstanding commitment to safer roads by national, regional, or city government and is presented every year as part of IRF’s commitment to the UN Decade of Action for Road Safety.

CAPUFE, a federal state-owned toll operator with a market share of 45% of the Mexican turnpike infrastructure, has long made road safety an institutional priority. In 2012, it launched a Road Safety Committee chaired by the CEO and comprising senior officials and partners, such as the Internal Organ of Control of CAPUFE, the Mexican Red Cross, and the Ministry of Tourism, supported by Road Safety Working Groups in each of CAPUFE’s regional offices.

Measures introduced by CAPUFE have delivered sustained results on Mexico’s network of toll roads where the number of crashes per billion vehicle-km decreased and the fatalities per billion vehicle-km were reduced from 32.5 in 2013 to 24.5 in 2017.
Global Road Achievement Awards (GRAA)

Instituted in 2000, the Awards have distinguished more than 150 programs, projects and products from around the world.

This year, the IRF honors 12 projects from around the world, each leading the way in innovation across major road & highway disciplines. The selection was made by an international panel of senior road development specialist.

“We’re on a mission to make road maintenance simpler and more cost-effective. We’re honored that the International Road Federation sees the potential in this product making a difference for road managers all over the world.”

Benjamin Schmidt
President of RoadBotics

2019 GRAA WINNERS

**ASSET PRESERVATION & MAINTENANCE MANAGEMENT**
- RoadWay
  by RoadBotics

**CONSTRUCTION METHODOLOGY**
- Sheikh Jaber Causeway
  By Ministry of Public Works, Kuwait / Part

**DESIGN**
- Yavuz Sultan Selim Bridge
  by Ministry of Transport and Infrastructure, Republic of Turkey

**ENVIRONMENTAL MITIGATION**
- West Coast Expressway: Ba-Dong-Liao to Jiu-Kuai-Chou Project
  by Sinotech Engineering Consultants, LTD. & Directorate General of Highways, MOTC, Taiwan

**PROGRAM MANAGEMENT**
- Northwest Corridor
  by Georgia Department of Transportation

**PROJECT FINANCE AND ECONOMICS**
- Eurasia Tunnel
  by Ministry of Transport and Infrastructure, Republic of Turkey

**QUALITY MANAGEMENT**
- Long-term Management and Maintenance of State Roads in Sarawak
  by CMS Works Sdn. Bhd.

**RESEARCH**
- Indonesia JORR W2 Toll Road
  by Consulpav, Conbloc Infratecno, Marga Lingkar Jakarta

**SAFETY**
- Traffic Accident Blackspot System Analysis Project
  by Roads and Transport Authority (RTA), Dubai, UAE

**TECHNOLOGY, EQUIPMENT & MANUFACTURING**
- Ehubo2
  by EROAD

**TRAFFIC MANAGEMENT AND ITS**
- GDOT Reversible Express Lanes Intelligent Transportation System & Traffic Information Management
  by Parsons

**URBAN PLANNING & MOBILITY**
- Torino Smart Road
  by City of Torino
PREPARING THE NEXT GENERATION

A Collective Passion
IRF Road Scholar Program
“I volunteer so that others may have the same experience.”

Taylor LOCHRANE
IRF Fellow Class of 2010, University of Central Florida
Current Position: CARMA Technical Program Manager; U.S. DOT – FHWA
A COLLECTIVE PASSION TO BE A FORCE IN THIS INDUSTRY

Morgan Morris, a master’s student at the University of Central Florida, recounts her life-changing experience as the President of the 2019 Class of IRF Fellows. Morgan’s participation in the IRF Road Scholar Program was enabled through the generous support of Transpo Industries, an IRF Member.

After the short span of a week, a graduate research IRF Fellow transforms into an approachable, professional leader overflowing with inspiration and ideas.

“The beginning of this journey starts with entering my hotel room which I will be sharing for the next nine days with a total stranger from a different country. After some small talk it becomes clear, that despite the cultural differences, every Fellow is here because they are passionate and strong leaders at their university”.

The IRF Road Scholar Program started on Wednesday in the IRF Global Training Institute with a seven-hour classroom setting series of presentations that focused on Leadership and practical advice to hone our networking abilities.

This year’s program of field trips began with meetings at the World Bank, coordinated by an alumus of the IRF Fellowship Program, Dr. Leslie Mills (Class of 2012). The twin goals of the World Bank are to reduce poverty and achieve shared prosperity, by increasing the quality, sustainability and safety of the world’s transportation infrastructure and services.

The following day, the Fellows toured the Federal Highways Administration’s Turner Fairbanks Research Center, a facility which houses more than 20 laboratories conducting applied and exploratory research in road design, human factors, and vehicle-highway interaction.

Industry is another key driver of applied innovation. On January 16, the IRF Fellows were introduced to Bechtel’s new Innovation Center in Reston, Virginia. The operations manager, Steve Curtis, presented the history of Bechtel and several of the company’s current projects, such as a cable bridge in Detroit.

Team-building is an essential component of the IRF Road Scholar Program, and the good natured bridge-building competition or Jeopardy-style final exam offer a reminder of the importance of teamwork.

How do IRF Fellows benefit from joining the Road Scholar Program? Morgan Morris had some closing thoughts to share:

“IRF has instilled knowledge, networking contacts, and most importantly a passion for transportation that I would have never gained elsewhere. For all of these reasons, I extend a tremendous level of gratitude to IRF and I encourage everyone who is reading this article to get involved with, and become financial donors of, the IRF Fellowship Program. Your actions will contribute to the positive development of the next generations of transportation industry leaders all over the globe.”
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