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.

REGIONAL CONTACTS

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asia@IRF.global

Europe & Central Asia  
eca@IRF.global

Latin America & Caribbean  
lac@IRF.global

Middle East & North Africa  
mena@IRF.global

North America  
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africa@IRF.global

2021 IRF EXECUTIVE SUMMARY & ANNUAL REPORT

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As we look back at our achievements in 2021, I want to extend my sincere gratitude to our volunteer leadership, member organizations and partners around the world who have supported us through these unprecedented times. Despite the ongoing ramifications of the pandemic, which continue to challenge our global community, the IRF has adapted remarkably well to the “new normal” and significantly advanced its position as the world’s leading advocate for better roads and transport systems.

Finally, and fittingly, IRF once again showcased its global convening power by delivering one of the most successful World Meetings in its history. The 18th IRF World Meeting & Exhibition held November 7-10 in Dubai, was the pinnacle of our 2021 activities. The official attendance count was 2,487 delegates from 58 countries which included more than 30 Ministers and Heads of State, plus several hundred more visitors from the host country of the UAE. The exhibition, one of the largest in IRF’s history, showcased the world’s leading suppliers of cutting-edge technologies and products and services.

Looking ahead, 2022 promises to be another exemplary year, with a combination of virtual and in-person events. The calendar of events is highlighted by conferences in Brazil, Barbados, Bulgaria, Ghana, Malaysia, Mexico, South Africa, and the United States and an expanded list of training courses. In the coming year, our technical committees will continue their influential advocacy efforts on the topics of AI for Predictive Asset Management, ITS for Climate Impact Mitigation, Road Adaptation to Autonomous Vehicles, Work Zone Safety, and Building Capacity to Deliver Road User Charging. In 2022, IRF will also publish several highly anticipated Technical Reports.

OUR SUCCESS IS YOUR SUCCESS... As the world emerges from a period of unprecedented turmoil, IRF remains 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.

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

Chartered IRF in Washington, DC 1948
Established the International Road Educational Foundation (IREF) 1949
Awarded First IRF Fellowships 1952
Held 1st IRF World Meeting 1954
Created IRF Global Road Achievement Awards (GRAAs) 1975
Included Governments as Full Members 2001
Held 17th IRF World Meeting & Exhibition in Saudi Arabia 2013
Established IRF Global 2014
Launched IRF Examiner 2016
Opened IRF Global Training Institute 2017
Held 1st IRF Global R2T Conference & Exhibition 2018
Presented 175th GRAA 2019
Awarded 1,450th IRF Fellowship 2020
Opened IRF Virtual Training Institute 2021
Held 18th IRF World Meeting & Exhibition in Dubai, UAE 2021


2021 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

**Past Chairman**
Brian Stearman  
Parsons (retired) | USA

**Senior Vice Chairman**
William Sowell  
Argonaut International Consulting, Inc | USA

**Vice Chairmen**
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3M | USA
Jeffrey R. Reed  
Valley Slurry Seal Co. | USA
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Parsons (formerly with) | USA

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Armco Staco | Brazil
Omar Smadi  
Iowa State University | USA

**Treasurer**
Omar Smadi  
Iowa State University | USA

**President & CEO and Secretary**
C. Patrick Sankey  
International Road Federation

**IREF Chairman**
Kamil Kaloush  
Arizona State University, USA

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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, Azervatoyol, 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: Dr. Mohamad Sayyar, Agile Assets, USA
Task Force “AI for Predictive Asset Management”

ITS
Chair: Dr. Robert Jaffe, ConSysTec, USA
Task Force “Road Adaptation to Autonomous Vehicles”
Task Force “ITS4Climate”

Sustainable Pavements
Chair: Prof. 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
Taskforce on Speed Management

Road User Charging
Chair: Nina Elter, EROAD, New Zealand
Steve Morello, CDM Smith, USA

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

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

More information: www.IRF.global/events
“It has been a pleasure and so worthwhile to represent Parsons Corporation at the 18th IRF World Meeting. We’ve been delighted to showcase our smart mobility expertise.”

Sirintip Wright
MEA Marketing Director, Parsons Corp.
The 18th IRF World Meeting & Exhibition, a 4-day global summit and technology showcase in Dubai, UAE, came to a close on November 10, 2021 with a renewed call for consensus-building and knowledge partnerships in our industry to address key sustainability and mobility challenges.

More than 250 papers and presentations were delivered by authors from 58 countries, representing an immense body of knowledge for policy makers and transportation stakeholders to utilize in the months and years ahead. The IRF World Meeting & Exhibition was also characterized by an enhanced focus on new mobility services whose emergence will continue impacting, challenging and inspiring the industry.

In the Closing Ceremonies, Senior Vice Chairman Dr. Bill Sowell noted that the event, which brought together 2,487 delegates from around the world, achieved several objectives, from gathering professionals for in person face-to-face meetings; to specifically addressing current challenges in the sector; to charting a forward-looking strategy for the next decade.

The technical program was assembled by a team of renowned specialists from 36 partner universities and it comprised numerous sessions that addressed the next generation of road mobility, resilient transportation services, “Vision Zero” road traffic injury strategies, and policy instruments to decarbonize the road sector.

“As demand recovers from the pandemic, it is our role to continue identifying models that reduce the footprint of the sector and fully prepare it for future mobility”, said C. Patrick Sankey, IRF President & CEO. “This means greening our road networks, making them forgiving and self-explaining, more resilient to climate change, and readying our city streets for connected and electric vehicles.”

IRF Chairman H.E Eng. Abdullah Al-Mogbel stated: “These questions, and others, require a level of cross-industry consensus, which IRF is perfectly situated to address by building on the solid foundations of the 18th IRF World Meeting & Exhibition’’.

World Meeting Figures
- 2,487 delegates plus an additional 430 guests from UAE
- 58 country ministrial delegations
- 250+ speakers
- 80 exhibitors
- 34 sponsors
2021 Annual Report: An Executive Summary of Activities
BUILDING ROBUST FOUNDATIONS FOR THE FUTURE

ITS SUSTAINABILITY REPORT FEATURED IN DUBAI

A new IRF report titled “ITS for Climate Impact Mitigation” was launched on November 8, 2021 during the 18th IRF World Meeting & Exhibition.

This report addresses the important role of Intelligent Transport Systems and Services (ITS), enabled by Information and Communication Technologies (ICT), in contributing to carbon emission reductions and in helping the road sector meet its climate impact mitigation targets. It thus provides important guidance as well as compelling case studies to policy-makers everywhere.

This work is the result of an original benchmarking program led by a dedicated IRF Taskforce in close cooperation with international transport authorities, road operators and solutions providers, which exemplifies one of IRF’s key missions to provide our community with new knowledge resources and help it prepare for the challenges ahead.

IRF, REAAA & PIARC AGREE TO COORDINATE DELIVERY OF SERVICES

The volunteer leadership of the IRF, PIARC (World Roads Association) and REAAA (the Road Engineering Association of Asia & Australasia) met during the 18th IRF World Meeting to explore and avenues for possible cooperation with a view towards leveraging their respective strengths in areas of shared interest and avoiding duplications where activities can be mutualized.

Building on this meeting, a formal agreement is being drawn up covering the intra-regional transfer of technology and best practices, information and communication services, seminar and congresses, educational programs, as well as joint research projects, among other areas of enhanced cooperation.
Held on July 7-9, 2021 IRF’s annual innovation-centric conference continued to push the boundaries of 21st century roads & mobility by offering a 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 a specific focus on innovation and the future, the main conference themes and panels provided thought leaders with an opportunity to reflect on how to utilize new technologies and innovative practices in order to build and maintain more efficient, sustainable & equitable transportation system.

Leading contributors this year included Barbara Rohde, Executive Director of the Mileage Based User Fee Alliance (MBUFA), Andy Taylor, Senior Strategy Director at CUBIC, Laura Coconea, Head of Innovation at Swarco and Jan Ellsberger, Vice President for Industry Development at Huawei.

Commenting on the success of the fourth edition, which drew close to 500 participants, Magid Elabyad, the R2T Conference Director noted “for road and transport authorities, the IRF R2T Conference is the ideal place to learn and share best practice about the latest technologies. For the private sector, it is an opportunity to showcase promising ideas and cost-effective solutions. For everyone in the sector it is an environment to share, engage & grow with the International Road Federation".
3rd IRF ASIA PACIFIC REGIONAL CONFERENCE

IRF’s flagship event in Asia-Pacific took place on March 18-19, 2021 bringing together leading stakeholders and experts in the region to discuss best practices, technical innovations, new technologies and policy recommendations that support regional connectivity and economic cooperation and development.

The conference examined the impact of the COVID-19 pandemic on road and transport agencies and the steps needed to ensure the region’s infrastructure investment needs are met. The agenda featured a well-attended master class on Pavement Management delivered by IRF Member Agile Assets, as well as panel sessions on Building Resilience into Road Infrastructure, Improving Road Safety through Analytics, and the Role of Private Financing in Road Infrastructure.

Featured speakers included senior representatives of regional agencies including the Indonesian Public Works Agency, Thailand’s Department of Rural Roads Thailand, the Malaysian Institute of Road Safety Research, New Zealand’s Ministry of Transport and the Land Transport Authority of Singapore, as well as key representatives from the Asian Development Bank, the World Bank, and the United Nations Institute for Training & Research (UNITAR).

“VISION ZERO FOR LATIN AMERICA” CONFERENCE

The end of the United Nations Decade of Action for Road Safety 2011-2020 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.

IRF is fully committed to supporting efforts to translate “Vision Zero” strategies into life-saving road design and management guidelines and has launched a cycle of conferences aimed at enhancing the capacity of road agencies to provide a safer environment to all road users.

More than 700 delegates representing agencies and organizations from all over Latin America and the Caribbean joined the event on May 18 - 20, 2021 co-organized with the support of the Puerto Rico Transportation Technology Transfer Center. The event included panels on risk diagnosis, forgiving roadsides, vulnerable road users and positive guidance all designed to promote approaches known to avoid or mitigate road traffic crashes.
THE INDUSTRY’S MOST TRUSTED BRAND IN EXECUTIVE-LEVEL TRAINING
“You covered really interesting topic areas and provided access to great resources. It was my first experience of the virtual IRF training sessions and I highly recommend them”
A LEADING PROVIDER OF ONLINE TRAINING

For more than 70 years, an essential part of IRF’s mission has been the organization and delivery of continuing education services that help build the skills of road professionals and contribute to the dissemination of knowledge and expertise worldwide.

At a time when many transportation professionals are unable to travel, IRF redoubled efforts throughout 2020 and 2021 to develop eLearning resources and online training programs which have allowed more than 5,000 road and transportation professionals each year to access a global pool of knowledge resources from the safety of their home or office. In keeping with IRF’s long-established approach, IRF’s continuing education programs not only provide the most relevant, up-to-date information and best practices, but are also designed to assist attendees in learning to correctly apply the knowledge gained at their workplace.

IRF’s online training courses cover the whole of the project lifecycle in formats ranging from 8 to 20 hours. They are delivered by 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’s suite of online training is designed with the same care and rigorous standards that are hallmarks of IRF’s executive education programs. The specific learning outcomes are communicated ahead of each course, and reviewed again with delegates during the first session. Great care is taken to ensure the courses enhances practical take-aways than can be directly applied by delegates in their workplaces.

Prior to the start of every course, delegates are invited to complete a self-assessment survey that allows the instructors to understand the baseline knowledge and make any necessary adjustments to the coursework. This pre-course survey is also an opportunity for delegate to highlight specific work problems / situations they are encountering which they would like the course to include. Additional virtual features are leveraged wherever possible, including WhatsApp groups to facilitate informal discussions.

At the end of the course, delegates are also required to take part in an online knowledge examination administered by the IRF taking the form of multiple-choice questions based on the course content and required reading. As part of the course evaluation form, delegates are once again asked to assess their knowledge across the same areas, allowing to benchmark knowledge that has been gained through the course.
Small Island Developing States are a group of countries located across the world in the Caribbean, Pacific, Africa, and Indian Ocean regions which are disproportionately exposed and vulnerable to natural hazards. As a consequence, to physical damage to the infrastructure, transport disruptions can cripple key economic sectors like tourism, fishing, or agriculture, and cut off access to healthcare, education, and other essential services.

Recognizing the need to improve the management of transport assets and to plan for growing risks, in the face of a changing climate, the World Bank partnered with IRF to develop a freely accessible, self-paced online training program which provides strategic, experiential, and practical knowledge on how to integrate climate and disaster risk considerations in the management of transport assets specially adapted to the needs of Small Island Developing States.

In 2018, IRF joined an elite group of continuing education providers accredited to administer Public-Private Partnership proficiency credentials to aspiring road & transportation professionals. With this accreditation, professionals taking the IRF course on PPPs may go on to apply for a Public-Private Partnerships Professional Certification (CP3P) established by APMG, a global examination institute, to enhance PPP performance globally.

IRF’s efforts have been recognized by leading development institutions such as the World Bank Group, the Asian Development Bank, the European Bank for Reconstruction and Development, the Inter-American Development Bank, and the Islamic Development Bank. In 2021, IRF delivered PPP training programs in Malawi, Iraq and Zimbabwe as part of a training partnership with the World Bank.
As a strong believer in continuing education, the IRF continues to be a leading provider of educational development opportunities and resources for road safety professionals worldwide.

Since 2020, IRF has vastly increased its portfolio of training resources for road professionals, with new courses on speed management, human factors in road design, crash reconstruction, and cost-benefit analyses, among others. IRF’s global training curriculum provides technical expertise where attendees can learn from and have direct access to seasoned road safety professionals.

Meanwhile, IRF’s global road safety credentials offers a pathway for road safety professionals who wish to enhance their qualifications at home or seek work abroad. In order to complete the Global Road Audit Team Leader Credential program, applicants are required to take an online knowledge qualifying exam and submit a comprehensive application presenting their professional track record and details of the projects they have audited, which in turn are evaluated by an independent third party contracted by the IRF.
## 2021 CALENDAR OF EVENTS

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<th>Event</th>
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<td>Project Finance &amp; PPPs</td>
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<td>Procurement &amp; Contract Management</td>
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<td>Traffic Forecasts &amp; Financial Models</td>
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<td>IRF Asia Pacific Virtual Congress</td>
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<td>Road Safety Audits</td>
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<td>Performance-based Contracts</td>
<td>April 5 - 15, 2021</td>
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<tr>
<td>Pavement Design</td>
<td>April 6 - 29, 2021</td>
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<tr>
<td>PPP &amp; Project Finance (Malawi / World Bank)</td>
<td>April 12 - 16, 2021</td>
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<tr>
<td>Designing &amp; Operating Traffic Mgmt. Centers</td>
<td>April 12 - 22, 2021</td>
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<tr>
<td>Making Roads Safe for All Users</td>
<td>April 12 - 30, 2021</td>
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<tr>
<td>Vision Zero LATAM</td>
<td>April 20 - 21, 2021</td>
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<td>Pavement Design &amp; Construction (Belize / World Bank)</td>
<td>May 18 - June 10, 2021</td>
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<tr>
<td>Bridge Maintenance (Bangladesh Local Government Engr. Dept.)</td>
<td>June 14 - 24, 2021</td>
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<tr>
<td>Human Factors and Road Safety</td>
<td>June 22 - July 1, 2021</td>
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<tr>
<td>Advance Road Safety Training (Abu Dhabi Municipality)</td>
<td>June 27 - July 1, 2021</td>
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<tr>
<td>IRF R2T Conference</td>
<td>July 7-9, 2021</td>
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<tr>
<td>CP3P Foundation</td>
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<td>Pavement Management</td>
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<tr>
<td>Practical Data Science for Roadway Professionals</td>
<td>September 7 - 30, 2021</td>
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THE WORLD’S LEADING ROAD ADVOCATE
“It is an honour to be recognized by the IRF, one of the industry’s most influential organizations globally”

Filip Geuens
CEO, XenomatiX
IRF INTENSIFIES ROAD SAFETY CAMPAIGNS

“Road safety is at a crossroads” according to the United Nations’ Global Plan of Action released in October 2021 as part of the UN Decade of Action for Road Safety 2021-2030. The Global Plan is unambiguous in rejecting “business as usual approaches” and calls on governments and stakeholders to take a new path that prioritizes an integrated Safe System approach to help the world hit the target of a 50% reduction in the number of road traffic deaths and serious injuries by 2030.

Where safe road infrastructure is concerned, the Plan recognizes that road infrastructure must be planned, designed, built and operated to minimize risks for all road users, starting with the most vulnerable. Highlighted action areas include the adoption of minimum technical infrastructure standards for road and roadside safety facilities (such as markings and median separation), crash risk mapping, as well as road safety audits using “independent and accredited experts” to ensure these minimum standards are met.

In many ways, the Global Plan of Action validates positions advocated by the International Road Federation. In a January 2015 policy statement, the IRF called for preventive risk identification measures, such as road safety audits carried out at the detailed design and pre-opening stages of all new or rehabilitated roads receiving development funds. In 2017, IRF asked for a harmonized approach to road safety audits, and for a globally recognized pathway to professional accreditation.

Agencies praised for road safety performance

In 2021, IRF presented its prestigious road safety accolade – known as the ‘Find a Way’ award – to three meritorious agencies: Hrvatske autoceste d.o.o (Croatia Motorways), the Puerto Rico Department of Transportation & Public Works, and the Abu Dhabi Integrated Traffic Center.

The IRF ‘Find a Way’ Award was instituted as part of the United Nations Decade of Action for Road Safety by IRF Chairman Eng. Abdullah Al-Mogbel in recognition of the value of political leadership in driving road traffic injury reduction strategies. Every year, the Award distinguishes outstanding commitment to safer roads by public agencies that fully embody the values of the “Safe System” approach.

“The road network is a shared space, and road agencies play a central role in enabling road users to interact in a safe and positive way through measures that mitigate the risk and consequences of road crashes” said IRF President & CEO C. Patrick Sankey. “The vision and policies enacted by all three agencies have translated into a safer driving environment, as evidenced by improved road markings, traffic signs, roadside protection devices and tunnel safety projects. They have also resulted in safer working conditions for road contractors, as well as better informed motorists. Collectively, these measures represent a significant quality benchmark for the public sector”.

DECADE OF ACTION FOR ROAD SAFETY

2021 - 2030
LEVERAGING AI FOR ENHANCED ASSET MANAGEMENT

Working with industry leaders, IRF has convened a new taskforce to explore how AI and computational advances can assist road agencies diagnose functional distresses to their pavements, structures and traffic assets.

To make informed decisions, necessary and relevant information needs to be available, and with the complexity and size of data sets, this task is time consuming, costly and at high risk of human error. Deep learning is a method of training a computer algorithm with large data sets that are populated with existing knowledge, such that the algorithm will continue to teach and correct itself. As new data sets are curated and recursively provided to the algorithm the confidence and knowledge of AI far exceeds the subjective and limited capacity which field experts can maintain.

The practical reality of using AI in this field is still emerging. Nevertheless, with the latest AI and computational advancements, it is already possible to automatically identify functional distresses such as potholes, cracks, edge breaks, bleeding, etc., by deep learning techniques from visual data such as photos and videos. Combined, they will provide the fingerprint of a section which can be used in estimating the future condition, likelihood of failure criteria, and maintenance that is required.

“The practical reality of using AI in this field are still emerging”

AI for Asset Management Webinars Organized by IRF

- Supporting Structural Inspections with Artificial Intelligence
- Pavement Digital Twins: Aligning Public & Private Sector Strategies
- Advances in LIDAR Use for Advanced Road Asset Monitoring
- Road Scanning Innovation: Now & Future
- Using AI to Identify Individual Distresses for Pavement Management
- Artificial Intelligence for Road Asset Management

Access the library of IRF webinars at https://www.irf.global/webinars-on-demand/ (login required)
IRF AWARDS: RECOGNIZING EXCELLENCE

2021 IRF MAN OF THE YEAR

Eng. Khalid Al-Hogail, the President of the International Association Public Transport (UITP) and CEO of the Saudi Public Transport Company (SAPTCO), has been nominated to receive the International Road Federation's highest individual recognition.

Established in 1951, IRF’s Man 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 distinguished 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.

Eng. Khalid Al-Hogail is being recognized for his remarkable contribution in fulfilling a vision of seamless transport for all. As CEO of SAPTCO, he has demonstrated superior leadership skills in attracting global partnerships and forming international alliances, fully readying the Kingdom of Saudi Arabia for the challenges of 21st Century mobility. Al-Hogail’s efforts were recently recognized by his peers who elected him President of the UITP, only the second non-European in the Association’s 135-year old history.

According to IRF Chairman H.E. Eng. Abdullah A. Al-Mogbel, “This accolade crowns an exceptional career and recognizes Al-Hogail’s important contribution to the sector at a time of converging interests between IRF and public transport operators in fields related to ITS, Mobility as a Service and preparing roads for autonomous vehicles.”

2021 Dr. Mino Award

IRF Fellow Dr. Sung-Hwan Kim of Korea (Class of 1986) is the 2021 recipient of the Dr. Mino Award of Excellence.

The IRF Dr. Mino Award of Excellence was established in 2002 in honor of Dr. Sadamu Mino, an IRF Fellow from Japan who attended The Ohio State University as an IRF Fellow (Class of 1954). Dr. Mino’s accomplishments were many, including Chairman Emeritus of Sumitomo Construction Co Ltd, but his most lasting contribution to the road development industry was his relentless efforts to promote technology transfer to those who needed it most.

The Dr. Mino Award, bestowed every four years, is the most prestigious award for IRF Fellows and was developed to recognize and honor outstanding graduates of the IRF Fellowship Program. Specifically, the Mino Award recognizes IRF Fellow who leveraged their educational experience to make outstanding achievements in roadway development and planning around the world.
GLOBAL ROAD ACHIEVEMENT AWARDS (GRAA)

Instituted in 2000, the Awards have distinguished more than 200 programs, projects and technologies from around the world.

This year, the IRF honors 11 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 specialists.

“The Awards serve to remind us that the mobility we take for granted would not be possible without the talent and commitment of our industry.”

H.E. Eng. Abdullah A. Al-Mogbel

2021 GRAA WINNERS

ASSET PRESERVATION AND MAINTENANCE MANAGEMENT
NYC DOT Asset Management Portal (AMP)
Fortis Consulting Services Corp

CONSTRUCTION METHODOLOGY
Bang Pa-in to Korat of Motorway 6 in Thailand
China Construction Civil Engineering Co., Ltd

DESIGN
Jiayu Bridge
Hubei Provincial Communication Planning and Design Institute Co. Ltd

ENVIRONMENTAL MITIGATION
Red Ridge No.1 Parkway in the Dabie Mountains
Anhui Transport Consulting & Design Institute Co., Ltd

PROGRAM MANAGEMENT
Woolgoolga to Ballina Pacific Highway Upgrade
Pacific Complete

PROJECT FINANCE AND ECONOMICS
1915ÇANAKKALE Bridge And Motorway Project
Ministry of Transport and Infrastructure, Republic of Turkiye

RESEARCH
Field Monitoring of Road Pavement Responses and their Performance in Thailand
Department of Highways, Thailand

SAFETY
Integrated Road Safety Management System Development Project
Department of Rural Roads, Ministry of Transport, Thailand

TECHNOLOGY, EQUIPMENT & MANUFACTURING
6d Road Scanning and Surveying
XenomatiX

TRAFFIC MANAGEMENT AND INTELLIGENT TRANSPORTATION SYSTEMS
ITS 2020 – Intelligent Traffic Systems Expansion and Dubai ITS Center
Roads and Transport Authority, Dubai

URBAN PLANNING AND MOBILITY
Urban Cooling + First/Last Mile Strategies in Los Angeles-Canoga Park Project
City of Los Angeles, Department of Public Works, Bureau of Street Services (StreetsLA)
PREPARING THE NEXT GENERATION
“I volunteer so 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
FELLOWS TEAM UP DURING 10-DAY ANNUAL ROAD SCHOLAR PROGRAM FOR PROFESSIONAL DEVELOPMENT AND NETWORKING VISITS WITH INDUSTRY ORGANIZATIONS

As one of ten students who either applied or were nominated to participate in the IRF Road Scholar Program 2021-22 class of Fellows, it took me some time before I realized the enormous and positive significance of this experience. 2020 and 2021 challenged the world with the COVID-19 pandemic, and the IRF Road Scholar Program was not immune to one of the largest disruptions to everyday life. As a result, this required a change of plans for both the 2021 and 2022 classes of IRF Fellows. Those of us in the 2021 class started with an online videoconference format, where we first met each other in a virtual environment and participated of presentations by IRF leaders and partners. Due to the small size of both classes, and the interest in providing the full experience to all IRF fellows, the 2021 class joined the 2022 class as part of the Road Scholar Program events hosted in Washington, DC, on January 5-13, 2022.

During the Road Scholar Program, we were delighted by presentations from notable road transportation sector leaders, including Dr. Gummada Murthy, the Director of the AASHTO Committee on System Management and Operations; Michael Sakata, President of the Maryland Transportation Builders and Materials Association, who provided us with immense advice on leadership and the latest news on transportation policy and public investments in the United States.

The class was divided into two competing teams, the Pavers and the Winners, each consisting of both 2021 and 2022 Fellows. Throughout the fellowship program, we amassed points through teambuilding exercises, the scavenger hunt, the bridge competition, demonstrating our responsibility and punctuality throughout the program, participation in select events and exhibitions throughout the TRB Annual Meeting, and the final exam.

In the end, the self-fulfilling prophecy for success occurred for Team 2. The Winners, who indeed emerged victorious after a heated final exam on our learning of the IRF Road Scholar Program, in which only 1 out of the 50 required answers decided the fate of the competition!

During the morning of the last day, January 13, we had our graduation ceremony, and received a farewell message from Dr. Kamil Kaloush, congratulating us for being part of the program, for our achievements and aspirations in our careers, and some parting words of wisdom.

I want to personally thank Chris Sanders and Lindsay Transportation Solutions for sponsoring my participation. We also thank the other sponsors: the Japan Roads Association, the Berger Charitable Foundation, VSS International, Troxler, and the IRF Fellows Alumni Association.

The 2021-22 IRF Road Scholar Program brought together a cadre of international rising stars and made them great friends, opening opportunities for the most amazing partnerships in the road engineering industry!

Alexander Molano Santiago, BSCE, MSCE Candidate
University of Puerto Rico at Mayagüez
NAMED FELLOWSHIP GRANTS

Nancy Abira  
University of Leeds  
Kenya

Hoseb Abkarian  
Northwestern University  
Syria

Bortiorkor Nii Tsui Alabi  
Purdue University  
Ghana

Samuel Castro Brockman  
Arizona State University  
Mexico

Junichi Kawahara  
California State University Long Beach  
Japan

Andrew Loken  
University of Nebraska-Lincoln  
USA

Alexander Molano-Santiago  
University of Puerto Rico at Mayagüez  
USA

Nooralhuda Saleh  
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Lebanon

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University of California, San Diego  
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- African Road Maintenance Funds Association
- Argentina Road Association
- Association of Equipment Manufacturers
- Association of Southern African National Road Agencies
- AV Living Lab
- BBARS Bulgaria
- China Highway & Transportation Society
- Construction Industry Development Board Malaysia
- CORSAN
- Far West Road Safety Network
- Federation of Arab Engineers
- Foundation for Education and Training on Tunneling and Underground Space Use
- Indonesian Transportation Society
- Institute for Mobility & Transport
- International Road Transport Union
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- TTS Italia
- ITS Africa
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Ministry of Public Works (Indonesia)
Road Infrastructure Agency (Bulgaria)
Azeravtoyol (Azerbaijan)
Malaysian Highway Authority
Ministry of Transport and Infrastructure (Turkey)
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