



3RD International Road Federation (IRF) Middle East Regional Congress & Exhibition

Under the patronage of
H.H. Shaikh Khalid bin Abdulla Al Khalifa
Deputy Prime Minister, Kingdom of Bahrain



Ministry of Transportation
Saudi Arabia



وزارة الأشغال
Ministry of Works



جمعية المهندسين البحرينيين
BAHRAIN SOCIETY OF ENGINEERS



The Path to Safe, Efficient & Sustainable Transport Systems

IRF Chairman's Welcome:

Welcome to the 3rd IRF Middle East Regional Congress & Exhibition!

The International Road Federation would like to express its appreciation and gratitude to His Highness Shaikh Khalid bin Abdulla Al Khalifa, Deputy Prime Minister, Kingdom of Bahrain for his patronage, and also to the Ministry of Works for its invaluable support of this event.

In 2009, the International Road Federation successfully launched the inaugural IRF Middle East Regional Congress (MERC) in Saudi Arabia. The aim of this Congress is to address the needs of the growing road sector needs of the Gulf and larger Middle East and North Africa Region.

IRF volunteers and staff have worked tirelessly and effectively to develop a comprehensive Congress and Certified Training Program of the highest quality to ensure all participants receive the maximum benefit for their time investment. As the Chairman of IRF Washington, I am very proud of this achievement.

I trust all of you will enjoy this event and the warm hospitality of the Kingdom of Bahrain, and during the next few days learn, explore and share valuable insights, solutions, and technologies that can be applied to solve critical transportation challenges in your respective countries, and for the benefit of our industry, our economies, and most importantly, society.

With regards,



H.E. Abdullah A. Al-Mogbel
Chairman, IRF Washington
Deputy Minister of Transport, Kingdom of Saudi Arabia

Sponsors

The IRF would like to thank the following organizations for their vision and invaluable contributions and support for this event.

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Event Chairman:

H.E. Abdullah A. AL-MOGBEL, Deputy Minister of Transport for Roads, Saudi Arabia

Organizing Committee Chairmen:

Abdul Nabi AL SABAH, Senior Advisor, Ministry of Works

C. Patrick SANKEY, President & CEO, IRF Washington

Organizing Committee Members:

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Graham HOOPER, Transport Global Managing Director, AECOM

Jean-Claude ROFFE, Senior International Advisor, COLAS

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Program & Technical Committee:

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Dr. Robert JAFFE, President, Consystec

Dr. Carlos CHANG, Assistant Professor, University of Texas

Dr. Essam RADWAN, Professor, University of Central Florida

Gabriel SANCHEZ, Executive VP, IRF Washington

Magid ELABYAD, Training Director, IRF Washington

Exhibit and Sponsorships Committee:

Jameed AL ALAWI, Bahrain Society of Engineers

Gabriel SANCHEZ, Executive VP, IRF Washington

Barbara O'CONNOR, VP, IRF Washington

Introduction

The IRF's signature, largest, and most comprehensive event in the Middle East in 2012 will be held under the patronage of His Majesty King Hamad bin Isa Al Khalifa, and supported by the Ministry of Works of Bahrain and the Ministry of Transport of the Kingdom of Saudi Arabia.

The Kingdom of Bahrain, along with Saudi Arabia and the Gulf countries, is undergoing fast economic growth, anchored on a solid foundation of ongoing and future infrastructure projects. This event will promote the development and dissemination of relevant global innovative solutions and best practices that will be needed to meet Bahrain's and the region's infrastructure and safety needs.

The event consists of three main elements: a conference, certified professional training, and a commercial and technology exhibition.

The congress program consists of executive and technical sessions focusing on best practices, innovation, and lessons-learned in areas of **road safety, intelligent transport systems (ITS), asset management and pavements, public-private-partnerships and financing, and environmental and sustainability issues**. The executive sessions feature global leaders from all sectors and of the highest caliber. The technical sessions feature experts and researchers whose papers have been peer-reviewed for quality, high standards and relevance.

The event also includes **three of the prestigious IRF Certified Training courses and a special workshops** especially designed to meet the specific needs of the Gulf and larger Middle East.

Finally, the commercial and technology exhibition will add a practical dimension to the event, presenting the best and most appropriate solutions for the region.





Venue & Information

The 3rd IRF Middle East Regional Congress will be held at the Gulf International Convention Center attached to the Gulf Hotel. This five-star and luxurious venue provides the ideal space and accommodation for all participants. The Gulf Hotel's hugely successful Gulf Convention Centre was the first major meetings venue in the Kingdom of Bahrain when it launched in May 1997. The centre remains at the forefront of Bahrain's business scene today, superbly maintaining its status as the largest and most impressive meetings and events facility on the island.



Accommodation Information

A block booking of rooms at the Gulf Hotel has been made for the participants during the conference period. Following are the special rates. Please specify the conference name to get the special rate.

The room rates shown below are on a per room per night basis exclusive breakfast, and are subject to 15% service charge and a 5% government tax. Airport pick up will be charged extra by the hotel.



With a total of 468 rooms, the Gulf Hotel Bahrain offers an array of dedicated choices for every guest. From classical to modern design, from 32sqm to 216sqm, from A la carte services to all-included services, our guests will always find the most tailored option to make their stay in Bahrain the greatest one of all.

At the Gulf Hotel Bahrain, every guest has full access to the entire range of facilities and outlets the legendary hotel offers:

- Lagoon swimming-pool
- 16 outlets for dining and entertainment
- 2 tennis courts
- 2 squash courts
- State of the art Health Club
- Flower shop
- Barber
- Salon

3rd IRF Middle East Regional Congress & Exhibition

“The Path to Safe, Efficient, & Sustainable Transportation Systems”

Preliminary Program at a Glance

Sunday January 8

8:00-4:00 pm	NTICIP/ITS Standards Course	Road Safety Course	Pavement Management Course
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Monday January 9

8:00-4:00 pm	NTICIP/ITS Standards Course	Road Safety Course	Pavement Management Course
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7:00-9:00 pm *Exhibition Opening and Congress Opening Ceremony*

Tuesday January 10

8:30-10:30 am	ES1: Gulf Projects	TS1: Sustainable Transport
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10:00-5:00 pm *Exhibition Open*

11:00-1:00 pm	ES2: Road Safety	TS2: Planning & Construction
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1:00-2:15 pm *Lunch*

2:15-4:15 pm	ES3 Pavements	POS1:Poster Session
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Wednesday January 11

8:30-10:30 am	ES4 ITS	TS3: Pavements & Asset Mangement
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10:00-5:00 pm *Exhibition Open*

11:00-1:00 pm	TS4: Road Safety	TS5: ITS
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1:00-2:15 pm *Lunch*

2:15-3:15 pm	TS6: Sustainable Transport	TS7:Transport Planning
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3:15-4:15 pm *Closing Ceremony*

Session Code Key & Descriptions

PS =	Plenary Session (opening and closing ceremonies featuring host country and foreign dignitaries)
ES =	Executive Session (general interest sessions featuring senior government officials and private sector executives)
TS =	Technical Session (specialized technical sessions featuring experts and researchers)
CTC =	Certified Training Course (long duration; limited class-size instruction by one or two instructors; testing required)
POS =	Poster Session
PDH =	Professional Development Hours

IRF Certified Training Courses & Workshops Program at a Glance

Sunday, January 8, 2012

8:00 a.m. - 4:00 p.m. Concurrent Training Courses - Part 1

Dana 1-2-3

CTC1: Pavement Management Course (7 PDH) - Part 1

— *Dr. Carlos Chang, Assistant Professor, University of Texas at El Paso, United States*

CTC2: ITS Standards and NTCIP Benefits/User Guide Course (7 PDH) - Part 1

- *Dr. Robert Jaffe, Vice Chairman, IRF ITS Systems Subcommittee and President, Consystec, United States*
- *Robert Rausch, Member of ISO TC 204 (ITS Standards Committee) and Senior Vice President, Transcore, United States*

CTC3: Roadside Safety Applications/AASHTO Guide Course (7 PDH) - Part 1

— *Mike Dreznes, Chairman, IRF Educational Foundation and Vice President, Barrier Systems, United States*

Monday, January 9, 2012

8:00 a.m. - 4:00 p.m. Concurrent Training Courses - Part 2

Dana 1-2-3

CTC1: Pavement Management Course (7 PDH) - Part 2

— *Dr. Carlos Chang, Assistant Professor, University of Texas at El Paso, United States*

CTC2: ITS Standards and NTCIP Benefits/User Guide Course (7 PDH) - Part 2

- *Dr. Robert Jaffe, Vice Chairman, IRF ITS Systems Subcommittee and President, Consystec, United States*
- *Robert Rausch, Member of ISO TC 204 (ITS Standards Committee) and Senior Vice President, Transcore, United States*

CTC3: Roadside Safety Applications/AASHTO Guide Course (7 PDH) - Part 2

— *Mike Dreznes, Chairman, IRF Educational Foundation and Vice President, Barrier Systems, United States*

IRF Certified Training Courses & Workshops

Full Descriptions and Agendas



CTC1: Pavement Management

Course Description

Fundamental concepts and methods used in pavement management to preserve a road network in good condition. Data required for managing pavement assets, data collection systems, development of pavement performance models, treatment and budget needs, prioritization, life-cycle cost, maintenance and rehabilitation strategies, risk assessment, and impact analysis are covered in this course. Case studies with hands-on applications for the implementation of pavement management systems are presented in this course.

Course Objectives

To understand decision making processes used in pavement management practices. Participants will learn the strengths and weaknesses of different approaches to conduct budget needs, prioritization, and impact analysis areas. To know decision-support tools used by an agency when implementing a pavement management system.

Course Outcomes

- *Understand the fundamental concepts of pavement management*
- *Ensure proper data collection for pavement management systems*
- *Learning about methods for assessing treatment and budget needs, prioritization, impact analysis.*
- *Hands-on applications for the implementation of pavement management systems (PMS)*

Instructor

Dr. Carlos CHANG Albitres, P.E., University of Texas at El Paso, USA

Biographical Notes



Dr. Chang is an Assistant Professor at the University of Texas at El Paso. Dr. Chang's background is in pavements and materials, pavement management, asset management, and knowledge management. Dr. Chang's dissertation "Development of a multi-objective strategic management approach oriented to improve decisions for pavement management practices in local agencies" summarizes the state-of-the-art in pavement management and decision support tools and presents a multi-objective strategic management approach to achieve an agency's desired level of service while minimizing the overall treatment cost.

Agenda

January 8 (8:00 – 4:00 p.m.)

7:30 a.m. Registration
8:00 a.m. IRF Welcome
8:15 a.m. Fundamental Concepts
10:15 a.m. Road Network Inventory
10:30 a.m. Coffee Break
11:00 a.m. Data Collection
12:30 p.m. Lunch
1:30 p.m. Budget and Treatment Needs
2:30 p.m. Prioritization of Projects
4:00 p.m. Adjourn

January 9 (8:00 – 4:00 p.m.)

7:30 a.m. Registration (for new delegates only)
8:00 a.m. Impact Analysis
8:30 a.m. Life Cycle Cost Analysis
10:00 a.m. Tools to Support the Implementation of Pavement Management Systems
10:30 a.m. Coffee Break
11:00 a.m. Tools (Continued)
12:30 p.m. Lunch
1:30 p.m. Communicating Pavement Management Needs to Funding Authorities
2:30 p.m. Questions & Answers
3:00 p.m. Course Summary & Further Information
3:30 p.m. Testing
4:00 p.m. Adjourn

CTC2: ITS Standards and NTCIP Benefits/User Guide Course

Course Description

This course serves as both an introduction to intelligent transport systems (ITS) standards and their benefits from the point of view of both management and engineering technical staff, and an introductory to mid-level presentation of the NTCIP (*National Transportation Communications for ITS Protocol*) family of communication standards that facilitate interoperability. A robust, comprehensive and orderly foundation of ITS standards is an essential component of any national, or regional long term ITS deployment plan. As Gulf and other Middle East countries expand their highway and urban road infrastructures, it is essential for both decision-making management and engineering and other technical staff to understand, adopt and utilize ITS standards in a logical manner.

This course helps managers understand why ITS standards are so important, and their enormous benefits including not just interoperability but also their beneficial effect on market transparency and competitiveness, which results in better products offered and at a much lower cost.

The course also addresses specific ways to improve interoperability and scalability, which allows users and agencies to mix equipment from different providers and avoid being locked into financially detrimental arrangements with monopolistic providers.

Solutions discussed include open standards and NTCIP, an increasingly important family of standards used for communications in signal control systems and advanced traffic management, including both center-to-center, and center-to-field communications equipment, such as central control systems software, traffic controllers, CCTV cameras, vehicle detectors, dynamic message signs, and many more.

Originating in the United States, recently NTCIP has been adopted by many other countries featuring robust ITS programs, such as China, Brazil, South Africa, Greece, Colombia and Saudi Arabia, amongst others. The promise of NTCIP is to deliver the advantages of a relatively open system, and thus allow inter-operability of systems and devices, regardless of vendor or service provider. If properly and knowledgeably implemented, NTCIP can deliver those benefits; however, lack of knowledge and experience can negate many of the benefits. Therefore, it is critical that road and traffic government authorities are well-educated about NTCIP. This course attempts to provide a coherent, comprehensive and candid introduction to NTCIP, its benefits and costs, its limitations, and the ongoing process of expansion of the standards to suit existing and future needs world-wide.

Objectives

1. *Provide an overview of ITS standards, their development, and their fundamental importance and benefits to Managers and Technical/Engineering Staff.*
2. *Illustrate how a solid foundation of ITS standards can result in better and lower cost equipment options, thus greatly benefiting agencies and end users.*
3. *Provide an objective introduction to NTCIP, its development, benefits and limitations.*
4. *Provide a “users guide” to government agencies that need to become familiar with NTCIP, so that they can better manage the adoption process, and the future development of new NTCIP sets (for example, meeting local needs such as Arabic scripts on electronic displays).*
5. *Identify barriers and obstacles that affect the effective adoption of ITS and NTCIP standards.*
6. *Identify and define the roles and responsibilities of government agencies in NTCIP development, adoption and management process.*
7. *Identify possible areas of cooperation with NTCIP developers outside of the Gulf, for the benefit of ITS deployment in the region.*

8. *Provide additional resources.*

Instructors

1. Dr. Robert JAFFE, President, Consystec (USA)
2. Robert RAUSCH, P.E., Member of ISO TC205 Committee and Vice President, TransCore

Biographical Notes (Dr. Robert JAFFE)



Dr. Jaffe is an electrical and systems engineer. He received his PhD in Electrical Engineering from Stanford University in 1983. After 13 years as a Research Staff Manager at IBM Research, he founded in 1996 Consensus Systems Technologies (“ConSysTec”) Corp., where he is now President. In 1993 Dr. Jaffe was Program Manager and Chief Architect for the IBM Team that helped develop the US National ITS Architecture, which he continues to help extend and maintain for US DOT. In addition to having developed over 70 regional ITS architectures in the US and internationally, Dr. Jaffe and his team at ConSysTec has also led development, application and harmonization of many ITS Standards, and has developed ITS solutions for real-time transit systems operations and the system for electronic payment reciprocity between regional customer service centers (for the E-ZPass electronic payment system). In 2009 Dr. Jaffe completed 5-years serving as Chair of the ITS America Research, Integration, Training and Education Forum, is a member of the ITS New York, Board of Directors, and starting in 2011 is serving on the IRF Executive Committee, Board of Directors and ITS Committee. Dr. Jaffe is a CSEP (Certified Systems Engineering Professional) issued by INCOSE (International Council on Systems Engineering).

Biographical Notes (Dr. Robert RAUSCH), P.E.



Bob Rausch is a Vice President with TransCore’s ITS Division. He has over 40 years of experience in the design and deployment of traffic management systems including hardware and software for a wide range of ITS devices and systems; he has been the manager and principal system designer for such projects as New York City’s traffic signal system, the Smart Corridor project in Southern California, the Information Exchange Network in Los Angeles County, and a number of Traffic Management Centers including Sydney, Australia. Bob has been an instructor for the Institute of Transportation Engineers and the National Highway Institute and for the International Road Federation teaching ITS Standards, ITS Project Management, and Traffic Signal Systems. He is active in the ITS standards development program for the US including the center-to-center Traffic Management Data Dictionary, the Advanced Transportation Controller, and the National Transportation Communications for ITS Protocol (NTCIP) standards program as well as internationally with ISO TC204. He has been active in the “connected vehicle” program in the US and is currently the technical project manager for the deployment of New York City’s 12,000 advanced traffic controllers using New York City’s wireless network (NYCWIn); this system is now being expanded to provide city-wide Transit Signal Priority. He is a member of NEMA, ITE, IEEE, and ITS America and is a registered/licensed Professional Engineer in 19 states; he received his Bachelors and Masters degrees in Electrical Engineering from the Massachusetts Institute of Technology.

Agenda

January 8 (8:00 – 4:00 p.m.)

7:30 a.m. Registration

8:00 a.m. IRF Welcome

8:15 a.m. Overview of ITS Concepts / Role in Larger Construction Projects

9:00 a.m. Introduction to ITS standards, their importance and benefits

10:30 a.m. Coffee Break

11:00 a.m. Introduction to signal control communication protocols

12:30 p.m. Lunch

1:30 p.m. Introduction to NTCIP “family” of standards

2:30 p.m. Benefits of NTCIP for Decision-makers - Focus on competitive pricing

3:15 p.m. Benefits of NTCIP for Engineers - Focus on Interoperability

4:00 p.m. Adjourn

January 9 (8:00 – 4:00 p.m.)

7:30 a.m.: Registration

8:00 a.m. The role of the U.S. Government and other entities in the development of NTCIP and its future credibility and importance

9:00 a.m. Center-to-center communications

10:00 a.m. Center-to-field communications

10:45 a.m. Coffee Break

11:15 a.m. "Users Guide" and project management considerations Limitations and future challenges

12:45 p.m. Lunch

1:45 p.m. Questions & Answers

2:15 p.m. Conclusions and further information

3:00 p.m.: Testing

4:00 p.m.: Adjourn

CTC3: Roadside Safety Applications Course & AASHTO Roadside Design Guide

Course Description

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

Course Objectives

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

Course Outcomes

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

Instructor:

Mike DREZNES, IRF Global Road Safety Committee Chairman

Biographical Notes



Michael G. Dreznes is the Chairman of the Transportation Research Board (TRB) AFB20 (2) Roadside Safety Sub-Committee on International Research Activities, a member of the TRB AFB20 Committee on Roadside Safety and the President of the IRF Washington Road Safety Working Group as well as the International Road Educational Foundation. Dreznes assumed his current position as Vice President of Sales and Marketing at Barrier Systems Inc. in March of 2008. Prior to accepting his position at Barrier Systems Inc, Dreznes was the Deputy Director General of the Washington Program Center of the International Road Federation (IRF). He worked as Vice President of Marketing and International Operations at Quixote Corporation (Energy Absorption Systems, Inc.) for twenty years.

Dreznes has spent the last twenty-four years working to make the roads safer around the world. He is recognized as one of the world’s leading experts on roadside safety promoting the concept of “Forgiving Highways.”

Agenda

January 8 (1:00 – 5:00 PM)

7:30 a.m. Registration
8:00 a.m. IRF Welcome
8:15 a.m. Introduction
9:00 a.m. What Are Forgiving Highways?
11:00 a.m. Coffee Break
11:00 a.m. Introduction to Barriers
12:30 p.m. Lunch
1:30 p.m. Transitions and Terminals
3:00 p.m. Crash Cushions
4:00 p.m. Adjourn

January 9 (8:00 – 5:00 PM)

7:30 a.m. Registration
8:00 a.m. Review of Day 1
8:30 a.m. Local Roadside Safety Issues (Outside Presenter from within Region)
10:30 a.m. Coffee Break
11:00 a.m. Workshop Examples
12:30 p.m. Lunch
1:30 p.m. Roundtable Discussion
2:15 p.m. Conclusions Summary
3:30 p.m. Testing
4:00 p.m. Adjourn

3rd International Road Federation (IRF) Middle East Regional Congress & Exhibition

“The Path to Safe, Efficient & Sustainable Transport Systems”

**Gulf International Convention Center, Gulf Hotel
January 9-11, 2012**

Preliminary Congress Program



3rd IRF Middle East Regional Congress & Exhibition

“The Path to Safe, Effective & Sustainable Transportation Systems”

Preliminary Congress Program

Monday, January 9, 2012

10:00 a.m. -7:00 p.m. Exhibition Build-up

EXHIBIT HALL

12:00 p.m. -8:00 p.m. Registration Open

CONVENTION CENTER LOBBY

7:00 – 7:45 p.m. PS2: Welcome Dignitaries & Exhibition Ribbon-Cutting Ceremony
Dignitary & VIP Exhibition Walk-Through

Congress Host & Chairmen:

- *H.E. Essam bin Abdulla KHALAF, Minister of Works, Kingdom of Bahrain (Confirmed)*
- *H.E. Eng. Abdullah AL-MOGBEL, Deputy Minister of Transport, Kingdom of Saudi Arabia
Chairman of the Board, IRF Washington (Confirmed)*

Dignitaries:

- *H.E. Ahmed SHAREEF, Undersecretary, Department of Municipal Affairs, Abu Dhabi, UAE
(Invited)*
- *H.E. Abdulaziz A. AL-KULAIB, Undersecretary, Ministry of Public Works, Kuwait (Invited)*
- *Jean-François CORTE, General Secretary, World Road Association (PIARC), France
(Confirmed)*

7:45 - 8:00 p.m. Prayer Break

8:00 -9:00 p.m. Opening Ceremony

DANA HALL 1/2

Part 1: Key Note Speeches & Welcome Greetings

Recognition of Sponsors

- **Host-Country Welcome Greeting**
H.E. Essam bin Abdulla KHALAF, Minister of Works, Kingdom of Bahrain (Confirmed)
- **Congress Chairman Welcome Greeting**
*H.E. Eng. Abdullah AL-MOGBEL, Deputy Minister of Transport, Kingdom of Saudi Arabia
Chairman of the Board, IRF Washington (Confirmed)*
- **Supporting Organization Message**
Eng. A. Majeed AL-GASSAB, President, Bahrain Society of Engineers (Confirmed)
- *Jean-François CORTE, General Secretary, World Road Association (PIARC), France
(Confirmed)*

Part 2: Foreign Dignitary Greetings

- *H.E. Ahmed SHAREEF, Undersecretary, Department of Municipal Affairs, Abu Dhabi, UAE (Invited)*
- *H.E. Abdulaziz A. AL-KULAIB, Undersecretary, Ministry of Public Works, Kuwait (Invited)*

9:00 - 10:30 p.m. Congress Dinner **DANA HALL 1/2**
Refreshments & Food Served in the Exhibition Hall

Tuesday, January 10, 2012

7:00 a.m. -3:00 p.m. Registration Open **CONVENTION CENTER LOBBY**

8:30 - 10:30 a.m. Executive & Technical Sessions in Parallel

ES1: Gulf Region Infrastructure Projects & Innovation (2 PDH) **DANA 1**

***Moderator:** Eng. A. Majeed AL-GASSAB, President, Bahrain Society of Engineers, Bahrain (Confirmed)*

- **Overview of Bahrain Megaprojects**
Eng. Abdul Nabi AL SABAH, Advisor, Roads & Traffic, Ministry of Works, Bahrain (Invited)
- **Abu Dhabi Projects**
H.E. Ahmed SHAREEF, Undersecretary, Department of Municipal Affairs, Abu Dhabi (Invited)
- **Highway Mega Project in the Kingdom of Saudi Arabia**
H.E. Eng. Mohammed ALOMRAN, Counselor and Director General, Ministry of Transport, Kingdom of Saudi Arabia (Invited)
- **Jeddah Middle Eastern Road**
Thomas TOPOLSKI, Vice President, Transportation Director Middle East, Dubai (Confirmed)

TS1: Sustainable Transport –Innovation (2 PDH) **DANA 2**

***Moderator:** Arthur M. DINITZ, Chairman, CEO, Transpo Industries, Inc, United States (Confirmed)*

- **New Range of Road Marking Products Using Surfactants and Emulsions Manufactured With Renewable Resources**
Christine DENEUVILLERS, Technical Manager, COLAS SA, France (Confirmed)
- **Renewable Resources in Roadworks**
Christine DENEUVILLERS, Technical Manager, COLAS SA, France (Confirmed)
- **Pavements and the Urban Heat Island Effect**
Kamil KALOUSH, Associate Professor, ASU/ Director, National Center of Excellence for SMART Innovations, United States (Accepted/Invited)
Waleed ZEIADA, Graduate Research Associates, ASU, United States (Accepted/Invited)
Mena SOULIMAN, Graduate Research Associates, ASU, United States (Accepted/Invited)
Jeffrey STEMPIHAR, Graduate Research Associates, ASU, United States (Accepted/Invited)

*Tina POURSHAMS-MANZOURI, Graduate Research Associates, ASU, United States
(Accepted/Invited)*

10:00 a.m. - 5:00 p.m. Exhibition Open

EXHIBIT HALL

10:30 - 11:00 a.m. Networking Coffee Break

EXHIBIT HALL

11:00 a.m. - 1:00 p.m. Executive and Technical Sessions in Parallel

ES2: Road Safety (2 PDH)

ENTER ROOM

***Moderator:** Dr. Essam RADWAN, Professor and Executive Director, Center for Advanced Transportation Systems Simulation, University of Central Florida, United States (Invited)*

— **END Turned Down ENDS**

Mike DREZNES, Vice President, Barrier Systems, United State (Confirmed)

— **Road Safety in Europe: Principles, Standards & Accomplishments**

Dr. Angel MARTINEZ, International Project Manager, Hiasa, Spain (Confirmed)

— **Closing the Loop: Learning from Road Safety Audits (Accepted/Invited)**

Siegfried GROSSKOPF, Road Safety Specialist, Parsons International, UAE (Invited)

— **National Road Safety Strategy in Morocco**

Mohamed HIMMI, Director of the National Center Of Studies and Road Research (CNER), Roads Directorate, Morocco (Accepted/Invited)

— **Road Safety Culture in Gulf Cooperation Council (GCC) Countries (Accepted/Invited)**

Faisal Magableh, TARS Research, University of New South Wales, Australia (Accepted/Invited)

*Raphael GRZEBIETA, TARS Research, University of New South Wales, Australia
(Accepted/Invited)*

*Soames JOB, NSW Centre for Road Safety, NSW Transport, Roads and Traffic Authority,
Australia (Accepted/Invited)*

— **Road Safety Assessments and Road Safety Audits on the Existing Abu Dhabi Internal Road Network (Accepted/Invited)**

Siegfried GROSSKOPF, Road Safety Specialist, Parsons International, UAE (Accepted/Invited)

Tawab KAZEMI, Project Manager, ARRB Group Ltd, UAE (Accepted/Invited)

John HUGHES, Regional Manager- Middle East, ARRB Group Ltd, UAE (Accepted/Invited)

TS2: Planning & Construction (2 PDH)

ENTER ROOM

***Moderator:** Huda Fakhroo, Assistant Undersecretary for Roads, Ministry of Works (Invited)*

— **Harmonizing Pavement Design Methods with Construction Specifications**

Walid NASSAR, Project Manager/Pavement Specialist, Parsons, UAE (Accepted/Invited)

*Mohamed ELBASYOUNY, Project Manager/Pavement Specialist, Parsons, UAE
(Accepted/Invited)*

— **Modeling of Road Surfaces to Carry Out Renovations**

*Eng. Fernando VARELA Soto, Engineer, Technical University of Madrid, Spain
(Accepted/Invited)*

— **Integration Between GIS and Multi-Criteria Analysis in Road Path Planning Process: A Case Study**

Prof. Eng. Mohamed Saad Atia ABDALLA, Research Associate, Ryerson University, Toronto, Canada (Accepted/Invited)

— **Performance Related Specification For HMA Construction**

Mohamed ELBASYOUNY, Project Manager/Pavement Specialist, Parsons, UAE (Accepted/Invited)

Walid NASSAR, Project Manager/Pavement Specialist, Parsons, UAE (Accepted/Invited)

John HUGHES, Regional Manager- Middle East, ARRB Group Ltd, UAE (Accepted/Invited)

— **Designing for Minimizing the Crack in PCC Slabs**

Ramesh Chand VISHWAKARMA, Design Manager/ Pavement Engineer, Parsons, Dubai (Accepted/Invited)

1:00 - 2:15 p.m. Lunch Break

2:15 - 4:15 p.m.

Executive & Technical Sessions in Parallel

ES3: Pavements – (2 PDH)

DANA 1

***Moderator:** Thomas TOPOLSKI, Vice President, Transportation Director Middle East, Dubai (Confirmed)*

— **Sustainable Approach to Pavement Design**

Jean-François CORTE, General Secretary, World Road Association (PIARC), France (Confirmed)

— **Global State-of-the-Art in Sustainable Pavement Management: Lessons for the Gulf**

Jean-Claude ROFFE, Senior International Advisor, COLAS, France (Confirmed)

— **Sustainable Roads with Asphalt Rubber**

Jack VAN KIRK, Director of Asphalt Technology, VSS Macropaver, United States (Confirmed)

— **Optimized Selection of Materials for Road Base and Wearing Course**

Étienne le BOUTEILLER, Technical & Development Manager (International), Colas, France (Confirmed)

— **Sustainable Maintenance and Preservation of Bridges and Other Structures**

Arthur M. DINITZ, Chairman, CEO, Transpo Industries, Inc, United States (Confirmed)

2:15 – 5:00 p.m. POS1: Poster Session

Exhibit Hall

— **Innovative Use of the Cug Monitoring and Dashboard Reporting on Nigerian Roads For Road Safety**

Osita CHIDOKA, Corps Marshal and Chief Executive, Federal Road Safety Corps, HQ, Nigeria

Osawe EFOSA PETER, Head of Section, National Uniform Licensing Scheme, Federal Road Safety Corps, HQ, Nigeria

— **Managing the Parking Dilemma: The Abu Dhabi Experience**

Rasin K. MUFTI, V.P./Technical Director, Parsons, UAE

- **Waterproofing for Bridges**
Michel DROUILLY, Technical Director, AXTER, France
- **Contribution to the Prediction of the Collapse of Airfield Runways Constructed on Saline Soils**
Mohamed CHIKHAOUI, Faculty of Technology, University Ferhat Abbas Setif (UFAS), Algeria
Ammar NECHNECH, Faculty of Civil Engineering, University of Science and Technology Houari Boumediene (USTHB), Algeria
Smail HADDADI, Environment, Water, Geomechanics and Structures Laboratory (LEEGO), Algeria
Mouloud ABDESSMAD, Infrastructure airport direction, Public Works Ministry, Algeria
- **Sub-Saharan, Rural Network of Roads Their Management and Costs of Realization**
N. SAOUDI, LEEGO, FGC, Université des Sciences et de la Technologie Houari Boumediene, Algeria
S. HADDADI, LEEGO, FGC, Université des Sciences et de la Technologie Houari Boumediene, Algeria
H. CHERFA, LEEGO, FGC, Université des Sciences et de la Technologie Houari Boumediene, Algeria
B. SAOUDI, LEEGO, FGC, Université des Sciences et de la Technologie Houari Boumediene, Algeria
A. BEN MESSAOUD, Université Ziane Achour Djelfa, Algeria

4:15 p.m. Congress Sessions End

4:15 - 5:00 p.m. Exhibition Only Hours

EXHIBIT HALL

Wednesday, January 11, 2012

7:30 a.m. -3:00 p.m. Registration Open

CONVENTION CENTER LOBBY

8:30 - 10:30 a.m. Executive & Technical Sessions in Parallel

ES4: Intelligent Transport Systems (ITS) & Traffic Management (2 PDH) DANA 1

Moderator: *Husam MUSHARBASH, President, Traffic Tech Gulf, Bahrain*

- **Towing and Recovery Programs for Congestion Mitigation: the Case of Georgia (TRIP) and Application to the Gulf**
Lester YOSHIDA, President, Systems Business National Operations Delcan, Canada (Confirmed)
Gary MILLSAPS, Incident Management Specialist, Delcan International Corporation (Invited)
- **Cost-Effectiveness Evaluation of Advanced Traffic Management Systems Software for Decision-makers**
Robert RAUSCH, Senior Vice President, Transcore, United States (Confirmed)
- **ITS and Traffic Management, New Approaches from the PIARC Technical Committee on Network Operation: Part-Time Shoulder Use for Buses as One Example**
Andrew WINDER, Senior Project Manager, EGIS, France (Confirmed)
- **NTCIP and ITS Standards: Benefits and Challenges**
Dr. Robert JAFFE, President, Consensus Systems Technologies, United States (Confirmed)

- **Advanced Traffic Management & Detection: What Senior Executives Need to Know**
Dr. William (Bill) SOWELL, Vice President, Aldis, United States (Confirmed)

TS3: Pavements & Asset Management –Design (2 PDH)

DANA 2

Moderator: *Dr. Carlos CHANG, Assistant Professor, University of Texas at El Paso, United States (Confirmed)*

- **Whole-Life Pavement Modeling Using Incremental-Recursive Techniques In Combination With Mechanistic-Empirical Principles**
Martyn STONECLIFFE-JONES, Senior Engineer, Dynatest UK Limited, United Kingdom (Accepted/Invited)
- **Mechanistic-Empirical Pavement Design Methodology Framework**
Mohamed ELBASYOUNY, Project Manager/Pavement Specialist, Parsons, UAE (Accepted/Invited)
Walid NASSAR, Project Manager/Pavement Specialist, Parsons, UAE (Accepted/Invited)
- **Challenges Of Roads Structures Maintenance in Bahrain**
Muthiah Raj DANIEL, Senior Engineer, Bridges and Flyovers Maintenance Group, Ministry of Works, Bahrain (Accepted/Invited)
Sayed Bader ALAWI, Chief, Roads Special Projects Section, Ministry of Works, Bahrain (Accepted/Invited)
Raed M. AL SALAH, Director, Roads Projects and Maintenance Directorate, Ministry of Works, Bahrain (Accepted/Invited)
- **Retrofitting Bridge Rail to a Higher Impact Load: Engineering Analysis and Nonlinear Finite Element Approach**
Akram ABU-ODEH, Research Scientist, TTI, Texas A&M University System, United States (Accepted/Invited)
- **Rural Road Asset Management and Ensuring Accessibility to the Social Services in Bangladesh**
Shaikh Muzakka ZAHER, Executive Engineer, Local Government Engineer Department, Bangladesh
- **Forensic Analysis Of Premature Pavement Failure - a Synthesis of Plausible Causes and a Case Study**
Muhammad IRFAN, Deputy Director, NIT, Pakistan
S. Muhammad JAMIL, Professor SCEE, NUST, Pakistan
Muhammad Bilal KHURSHID, Associate Professor MCE, NUST, Pakistan

10:00 a.m. - 5:00 p.m. Exhibition Open

EXHIBITION HALL

10:30 - 11:00 a.m. Networking Coffee Break

EXHIBIT HALL

11:00 a.m. - 1:00 p.m. Technical Sessions in Parallel

TS4: Road Safety - Innovation (2 PDH)

DANA 1

Moderator: *Sulaiman HAMAD, Managing Director, Hi-Tech Projects (Oman)*

- **Contribution to Driver's Behavior Assessment Under Various Lighting Conditions Using Innovative Technology**

Nikolaos ELIOU, Assoc. Professor, Department of civil Engineering, University of Thessaly, Greece (Accepted/Invited)

— **Dynamic Deflection Synthesis of Crashworthy Guardrails**

Akram Abu-Odeh, Research Scientist, TTI, Texas A&M University System, United States (Accepted/Invited)

Kang-Mi KIM, Post Doctoral Research Associate, Texas A&M University System, United States (Accepted/Invited)

Roger BLIGH, Research Engineer, TTI, Texas A&M University System, United States

Dave OLSON, Design Policy, Standards, and Research Manager, Washington State DOT, United States (Accepted/Invited)

— **Application of GIS Technology to Road Maintenance and Safety in the Kingdom of Bahrain**

Ali NASHWAN, Senior Civil Engineer, Ministry of Works, Road Project and Maintenance Directorate, Bahrain (Accepted/Invited)

Sabah AL-JENAID, GIS & Environment Assistant Professor, Arabian Golf University, Bahrain (Accepted/Invited)

Mohamed Ait BELAID, Shaikh Hamad Bin Khalifa Al-Thani's Academic Chair of GIS, Prof. of Geomatics Sciences, Arabian Golf University, Bahrain (Accepted/Invited)

— **Improve Traffic Safety for school Areas in Abu Dhabi City**

Mohammed Ibrahim KISHTA, College of Engineering, UAE University, UAE (Accepted/Invited)

— **Road Carnage In East Africa; Confronting The Silent Killer Health Hazard**

Mutabazi Sam STEWART, Executive Director, Uganda Road Sector Support Initiative (URSSI), Uganda (Accepted/Invited)

TS5: Intelligent Transport Systems (ITS) - Traffic & Corridor Management (2 PDH)

DANA 2

Moderator: *Gabriel SANCHEZ, Executive Vice President, IRF Washington, United States*

— **Technology Applications to Highway Safety and Security**

Dr. Essam RADWAN, Professor and Executive Director, Center for Advanced Transportation Systems Simulation, University of Central Florida, United States (Accepted/Invited)

— **Corridor Management: The Case of Lake County, Illinois, Challenges and Solutions & Lessons for the Gulf**

Joseph BRAHM, Vice President, Delcan International Corporation, Canada (Accepted/Invited)

Victor BRUZON, Vice President, Delcan International (Confirmed)

— **Calibration of International Roundabout Capacity Models During Heavy Flows for Regional Use**

H. M. N. AL-MADANI, Professor, Department of Civil Engineering & Architecture, University of Bahrain, Bahrain (Accepted/Invited)

— **Linking On-line Simulation Tools with Advanced Transportation Management Systems (ATMS) for Predictive Intelligent Corridor Management**

Daniel LUKASIK, Vice President, Delcan

Lester YOSHIDA, President, Systems Business National Operations Delcan, Canada (Confirmed)

Victor BRUZON, Vice President, Delcan International (Confirmed)

1:00 - 2:15 p.m. Lunch Break

2:15 - 3:15 p.m. Technical Sessions in Parallel

TS6: Sustainable Transport/Sustainable Materials - Innovation (2 PDH) DANA 1

Moderator: Jack VAN KIRK, Director of Asphalt Technology, VSS Macropaver, United States

- **Study on Sustainability of Pavement and Road Asset Management Systems Implementation**
Nabin PRADHAN, Principal Engineer, Downer Australia, Australia (Accepted/Invited)
Adel Ali MOHAMMED, Department of Transport (Abu Dhabi – UAE), UAE (Accepted/Invited)
Alan ROLAND, Department of Transport (Abu Dhabi – UAE), UAE (Accepted/Invited)
- **Performance-Based Specifications for Road Materials: the Key to Sustainable Infrastructure**
Walaal Eldin I. KHOGALI, Materials Engineering Directorate, Ministry of Works, Bahrain (Confirmed)
- **Sustainable Pavement Maintenance Approach**
Yvan CASAN, Pavement and Maintenance Department Manager, Egis Route, France
Hussein SABBAAH, Pavement and Maintenance Department, Egis Route, France

TS7: Transport Policy and Other Regional Case Studies (2 PDH) DANA 2

Moderator: Victor BRUZON, Vice President, Delcan International (Confirmed)

- **Urban Development and Intermodality in the City Of Algiers : Challenges and Perspectives**
Dr. Tahar BAOUNI, Laboratory of Research, Algeria (Accepted/Invited)
- **Evaluating and Managing the Change of Speed Limit on Fatal Crashes in Abu Dhabi**
Abdulrahman Abdulla AL-SHAMSI, College of Engineering, UAE University, UAE (Accepted/Invited)
- **Transport for Poverty Alleviation: an Approach in Bangladesh**
Abdul QUADER, Project Director, RTIP, Local Government Engineering Department (LGED), Bangladesh (Accepted/Invited)

3:15 p.m. Exhibition Closed

EXHIBITION HALL

3:15 - 4:15 p.m. PS2: Closing Plenary Session

DANA 1

Chairmen Summaries

Invitation to Attend IRF's 2013 World Meeting

Part 1: Executive Summaries by Track Chairmen: Outcomes of the Congress

Moderator: Gabriel SANCHEZ, Executive Vice President, International Road Federation (IRF Washington), United States

- **Road Safety**
Chairman: Mike DREZNES, Vice President, Barrier Systems, United States
- **Intelligent Transport Systems (ITS)**
Chairman: Dr. William (Bill) SOWELL, Vice President, Aldis, United States
- **Asset Management and Pavements**
Chairman: Carlos CHANG, Assistant Professor, University of Texas at El Paso, United States
- **Sustainable Transport**
Chairman: Dr. Essam RADWAN, Professor, University of Central Florida, United States

Part 2: Closing Speech

— **Host-Country Closing Speech**

H.E. Essam bin Abdulla KHALAF, Minister of Works, Kingdom of Bahrain (Invited)

4:15 p.m. End of IRF Congress

5:00 - 9:00 p.m. Exhibition Tear-Down

Exhibition Hall

3rd IRF Middle East Regional Congress & Exhibition
“The Path to Safe, Effective & Sustainable Transportation Systems”

Congress Program VIP Biographical Notes



**H.E. Abdullah A. AL-MOGBEL, Deputy Minister of Transport,
Kingdom of Saudi Arabia; Chairman of the Board, IRF Washington**

Eng. Al-Mogbel has served as Deputy Minister, Ministry of Transport, Kingdom of Saudi Arabia based in Riyadh, Saudi Arabia since 1978. He is currently the Chairman of the Board of IRF Washington.

He has been President of the Foundation for Education and Training in Tunneling and Underground Spaces since 2009, and also President of ITS Arab since 2005. Finally, Eng. Al-Mogbel has been the Chairman of the Board of Saudi Public Transport co. (Sapcco) since 1997.

Among many accolades and awards, Eng. Al-Mogbel received the IRF's 2007 Man of the Year . Eng. Al-Mogbel received a degree in civil engineering from the University of Petroleum and Minerals.



**H.E. Abdulaziz A. AL-KULAIB, Undersecretary, Ministry of Public
Works - Kuwait; Board Member, IRF Washington**

Mr. Abdulaziz al-Kulaib joined the Public Works Ministry in 1985 as an applied research engineer. In 1998, he was appointed head of the ministry's road research centre. Mr. Al-Kulaib currently serves as Under Secretary Ministry of Public Works, State of Kuwait. He has 20 years of experience working as an engineer with the Ministry of Public Works. He received his B.Sc. in Civil Engineering from

Washington University, Seattle, Washington, United States, and a Masters in Civil Engineering from Arizona University, Tucson, Arizona, United States.



**H.E. Ahmad Mohammed SHAREEF, Undersecretary, Department of
Municipal Affairs, Emirate of Abu Dhabi**

H.E. Engineer Ahmad Mohammed Shareef is a highly accomplished city management professional who commenced his career as a municipal planner with Al Ain Town Planning Department.

Eng. Shareef has served as Director of Al Ain Town Planning Department, and was later promoted to Undersecretary of the Al Ain Municipality in 2004. He was also an active member in many committees and boards of directors both in public and private sector. In 2007 he was promoted to the position of Undersecretary of the Department of Municipal Affairs DMA

In 2010, Eng. Shareef hosted the 2nd IRF Middle East Regional Congress in Abu Dhabi. Eng. Shareef is a graduate of the University of Arizona, in civil engineering in 1980.



Jean-François CORTÉ, Secretary General, PIARC

Mr. Jean-François Corté, Secretary General, World Road Association (PIARC) Secretary General of the World Road Association since 2002. In this capacity, he was involved in the preparation of the World Road Congresses in Durban, Paris and Mexico; he worked actively for the development of cooperation with various international organizations active in the road sector. Mr Corté is a member of the General Council of the French Ministry of Sustainable Development and Transport. Before 2002, Mr Corté has been working for 25 years for the French Research Laboratory of Public Works (LCPC) where he was Technical Director for the road sector. Mr Corté's major areas of interest were pavement engineering and geotechnics. He is the author of over a hundred publications and guidelines in these areas. He is currently also responsible for the road course at the Ecole des Ponts-ParisTech. He is also head of the French delegation in European standardization technical committee CEN/TC 336 Bituminous binders.

Mr Corté has engineer degrees from the Ecole Polytechnique and Ecole Nationale des Ponts et Chaussées (France) and has a Master of Science from the University of California Berkeley.

Congress Program Executive Speaker Biographical Notes



Victor H. BRUZON, Vice President, Delcan Systems

Victor H. Bruzon has more than thirty years of experience in the transportation sector. He started his professional career in transportation planning and transport infrastructure investment analysis and has been active in the field of ITS since 1990. His expertise covers the preparation of master plans, evaluation and performance assessments and development of before/after studies and business cases for several ITS applications. He has also been responsible for the successful execution of system management contracts carried out by Delcan for the deployment of ITS systems around the world.



Arthur (Art) DINITZ, Chairman and CEO, Transpo Industries Inc.; Executive Committee and Board Member, IRF Washington

Arthur has been actively engaged in the introduction and development of new roadway safety products and specialized materials since founding Transpo Industries in 1968.

He is Vice Chairman of the International Road Federation, Washington; Co-chair of AASHTO/AGC/ARTBA Joint Comm. on New Technologies and Material; Recipient of TRB's National Roadside Safety Award (2006), and Honored as one of the "Top 100 Private Sector Transportation Design & Construction Professional of the 20th Century" by ARTBA,

Mr. Dinitz has an Engineering degree from New York University.



Michael DREZNES, Vice President, Barrier Systems; Chairman, IRF Educational Foundation

Michael G. Dreznes is the Chairman of the Transportation Research Board (TRB) AFB20 (2) Roadside Safety Sub-Committee on International Research Activities, a member of the TRB AFB20 Committee on Roadside Safety and the President of the IRF Washington Road Safety Working Group as well as the International Road Educational Foundation. Dreznes assumed his current position as Vice President of Sales and Marketing at Barrier Systems Inc. in March of 2008. Prior to accepting his position at Barrier Systems Inc, Dreznes was the Deputy Director General of the Washington Program Center of the International Road Federation (IRF). He worked as Vice President of Marketing and International Operations at Quixote Corporation (Energy Absorption Systems, Inc.) for twenty years. Dreznes has spent the last twenty-four years working to make the roads safer around the world. He is recognized as one of the world's leading experts on roadside safety promoting the concept of "Forgiving Highways."



Dr. Carlos CHANG Albitres, Assistant Professor, The University of Texas at El Paso

Dr. Chang is an Assistant Professor at the University of Texas at El Paso. Dr. Chang's major areas of interest are pavement evaluation and design, pavement management, construction management, knowledge management, and asset management. Dr. Chang is licensed as a professional engineer in Texas and member of the American Society of Civil Engineering (ASCE). He is recognized as

an international consultant in his area of expertise and has participated in major highway projects. He is registered as an international consultant at the Inter-American Development Bank.

Dr. Chang serves as the Chair of the Asset Management Task Force for the International Road Federation. He is also the U.S. delegate for the Ibero-Latin-American Asphalt Congress (CILA). Many training courses and publication in his areas of expertise have been developed by Dr. Chang. Dr. Chang is frequently invited to international conferences for presentations on topics related to knowledge management, asset management, pavement management, pavement evaluation and design.



Dr. Robert JAFFE, President, Consystec; Executive Committee and Board Member, IRF Washington

Dr. Jaffe is an electrical and systems engineer. He received his PhD in Electrical Engineering from Stanford University in 1983. After 13 years as a Research Staff Manager at IBM Research, he founded in 1996 Consensus Systems Technologies (“ConSysTec”) Corp., where he is now President. In 1993 Dr. Jaffe was Program Manager and Chief Architect for the IBM Team that helped develop the US National ITS Architecture, which he continues to help extend and maintain for US DOT. In addition to having developed over 70 regional ITS architectures in the US and internationally, Dr. Jaffe and his team at ConSysTec has also led development, application and harmonization of many ITS Standards, and has developed ITS solutions for real-time transit systems operations and the system for electronic payment reciprocity between regional customer service centers (for the E-ZPass electronic payment system). In 2009 Dr. Jaffe completed 5-years serving as Chair of the ITS America Research, Integration, Training and Education Forum, is a member of the ITS New York, Board of Directors, and starting in 2011 is serving on the IRF Executive Committee, Board of Directors and ITS Committee. Dr. Jaffe is a CSEP (Certified Systems Engineering Professional) issued by INCOSE (International Council on Systems Engineering).



Ángel V. MARTÍNEZ, International Project Manager, HIASA

Mr. Martinez has been actively involved in a number of important road safety projects on a global basis. He has extensive experience in projects related to passive safety elements. Mr. Martinez has taught a number of road safety courses for the International Road Federation. Within HIASA, Mr. Martinez is responsible for international projects and equipment deployments.

Mr. Martinez holds an engineering degree from Oviedo University and a Master's in Integrated Management Systems.



Dr. Essam RADWAN, Associate Dean for Research and Administration, University of Central Florida

In 1978, Dr. Essam Radwan started his teaching career at Virginia Tech where he was tenured and promoted to Associate Professor then he moved to Arizona State University in 1984 and was promoted to full professor in 1990. Through a national search he was recruited to the University of Central Florida to chair the Department of Civil and Environmental Engineering and he remained in that position till 2003. In 1998 he was appointed to be the founding Director of the transportation center (CATSS).

He currently serves as the Associate Dean for Research and Administration in the College of Engineering and Computer Science. Dr. Radwan directed and co-directed close to 55 research projects totaling well over \$11 million in external funded research projects. He published more than two hundred (200) technical publications and delivered close to eighty invited presentations sponsored by national and internationally conferences.

Dr. Radwan received a BS degree in Civil Engineering with honors from Cairo University, Egypt and a master and doctorate degrees from Purdue University.



Robert RAUSCH, Vice President, Transcore

Bob Rausch is a Vice President with TransCore's ITS Division. He has over 40 years of experience in the design and deployment of traffic management systems including hardware and software for a wide range of ITS devices and systems; he has been the manager and principal system designer for such projects as New York City's traffic signal system, the Smart Corridor project in Southern California, the Information Exchange Network in Los Angeles County, and a number of Traffic Management Centers including Sydney, Australia. Bob has been an instructor for the Institute of Transportation Engineers and the National Highway Institute and for the International Road Federation teaching ITS Standards, ITS Project Management, and Traffic Signal Systems. He is active in the ITS standards development program for the US including the center-to-center Traffic Management Data Dictionary, the Advanced Transportation Controller, and the National Transportation Communications for ITS Protocol (NTCIP) standards program as well as internationally with ISO TC204. He has been active in the "connected vehicle" program in the US and is currently the technical project manager for the deployment of New York City's 12,000 advanced traffic controllers using New York City's wireless network (NYCWIn); this system is now being expanded to provide city-wide Transit Signal Priority. He is a member of NEMA, ITE, IEEE, and ITS America and is a registered/licensed Professional Engineer in 19 states; he received his Bachelors and Masters degrees in Electrical Engineering from the Massachusetts Institute of Technology.



Jean-Claude ROFFÉ, Senior Executive Advisor, COLAS Group

Jean-Claude Roffé, a civil engineer, has been working within the road industry since 1968 and involved with the IRF since 1985. Jean-Claude Roffé serves as Senior executive advisor in COLAS Group and is also Board Member of the Geneva Program Center of the IRF (International Road Federation), IRF Steering Committee chairman of the IRF 2010 World Road Congress, President of the IBEF (International Bitumen Emulsion Federation), Director on Board with AEMA since 2004, President of SFERB - French Association of Emulsions Producers, and Board member of USIRF, French National Road Association, Mr. Roffé has been the author of several papers on road processes and pavement preservation every year in the main international congress and seminars since the 1980's. He also serves on the Organizing Committee for the 3rd Middle East Regional Congress, and the 2013 IRF World Meeting.



Dr. Bill SOWELL, Senior Vice President, Aldis; Board Member, IRF Washington; and Chairman, IRF Global Business and Systems Engineering Committee

Dr. Sowell has been keenly involved worldwide with Intelligent Transportation Systems and the development of ITS standards for more than 20 years. He has managed ITS-related firms, both large and small, those publicly traded and privately held, based in the United States, England and the Middle East. He has worked with such companies as Econolite, Peek Traffic, Image Sensing Systems, TEC Engineering, Al Nasr International and SWARCO. He holds

three (3) Doctoral degrees and two (2) Master's Degrees. Dr. Sowell is a former Chairman of the ITS America Pan American Steering Committee, and currently serves as a member of the ITS Arab technical committee and the Chairman of the IRF Global Business and Systems Engineering Committee. Since 1990, he has authored more than 200 articles appearing in transportation journals, and has played a key role in the early adoption of the NTCIP open communications protocol in Chile, Brazil, China and Saudi Arabia.



Thomas TOPOLSKI, Vice President, AECOM

Mr. Topolski is Vice President of AECOM, and oversees the firm's transport and civil engineering projects in the Middle East from his base in the United Arab Emirates. Prior to his current position, he was Senior Vice President at CH2M HILL, and Senior Vice President at Parsons.

Mr. Topolski holds an advanced management program degree from the Wharton School of the University of Pennsylvania, and undergraduate degrees from New York University and State University of New York College at Buffalo.



Jack VAN KIRK, Director for Asphalt Technology

Jack is currently the Director for Asphalt Technology for Valley Slurry Seal Co. He provides internal consulting and technical expertise regarding materials engineering and construction, and development and evaluation of new products. Jack is a registered Civil Engineer in the State of California. Prior to joining VSS, Jack worked for the California Department of Transportation (Caltrans) for almost 20 years. He was the departmental expert in the area of flexible pavement. Jack has authored many papers, research reports, specifications and test methods in the area of Materials Engineering. He has also made numerous presentations on related subjects across the United States and in other countries. Jack continues to be active both nationally and internationally in these areas of materials engineering.



Lester T. YOSHIDA, President, Delcan Systems; Executive Committee and Board Member, IRF Washington

Lester Yoshida is the President of Delcan Systems which was recently created with the merger of Delcan Systems International and Delcan Systems USA. Prior to Delcan Systems, he was a Vice President at Quixote Corporation and the CEO of Surface Systems, Inc. Lester has been active in ITS since 1993 when he moved to Atlanta from Washington D.C. in preparation for the 1996 Summer Olympics. Since then he has worked directly with many of the administrations within US DOT as well as numerous public agencies around the world in ITS, transit, police and public safety. He has also served as ITS America's Vice Chairman of the Coordinating Council. Prior to the ITS industry, Lester worked in the Space and Defense industry and in Silicon Valley. He is a graduate of Stanford University where he was also the Assistant Wrestling Coach. Lester resides in Chicago, Illinois.

Congress Program Technical Speaker Biographical Notes

Dr. Walaa Eldin Ibrahim Khogali, Head, Research & Specifications Group and Advisor to Director, Ministry of Works, Bahrain

Dr. Khogali is currently the Head of Specifications and Research at Materials Engineering Directorate (MED) of the Ministry of Works, Bahrain. He also holds the position of MED Special Advisor responsible for providing strategic directions related to MED roles in serving the Ministry of Works' clients and in offering technical consultations related to the Road Sector. Throughout his career, which spanned a period of more than 25 years, Dr. Khogali was involved in advocating and advancing the science of the mechanistic approach in relation to its application in the field of pavement design and materials characterization. These efforts culminated in the conceptualization and development of a new characterization technique for unbound materials and the creation of a mechanistic Soil Classification System for use in pavement design and rehabilitation.

Dr. Khogali received his primary education from the University of Khartoum (Sudan) and his Ph.D. Degree from the University of Alberta (Canada). He worked for 10 years as a Senior Research Officer at the National Research Council of Canada and served as the Group Leader of the Urban Roads (UR) Group within the Urban infrastructure Program. Under his leadership, the UR group engaged in a number of industry collaborative projects addressing roadway rehabilitation and long-term pavement performance needs. He increased public awareness and visibility of the UR group by marketing the staff expertise, and highlighting the capabilities and preparedness of the group to engage in applied research projects and in producing practical tools for the road industry via technology transfer activities. Dr. Khogali is also a registered professional engineer with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA).

Ramesh Chand Vishwakarma, Chartered Engineer, PARSONS



Mr. Ramesh Chand Vishwakarma is IIT- Roorkee educated, Chartered Engineer (India) and has more than 23 years of diversified professional experience in airfield & highways engineering covering design, construction and management. His expertise is in materials design and construction specifications along with pavement design for heavy axle load with high repetition.

He has worked on challenging projects and successfully implemented innovative ideas suitable for special projects in Asia, Middle East and East European countries. He has also worked for AsDB, IBRD, EBRD and many National / PPP funded projects for Contractors; Consultants and Government Institutions including Research & Trainings. In addition he has been responsible for developing and implementing the Simplified Performance based Pavement Management System (PMS) protocol for National Highways Authority of India, which covers fully, semi and unconstrained funding strategies, maintenance options and prioritization for pavement networks.

He is member of many international engineering societies and has been sharing his practical experiences on various topics of interest to engineering fraternity in different countries.

3rd International Road Federation (IRF) Middle East Regional Congress & Exhibition

“The Path to Safe, Efficient & Sustainable Transport Systems”

Gulf International Convention Center, Gulf Hotel
January 9-11, 2012

Preliminary Exhibitor List



Organization	Country	Sponsorship Level	Booth Number
Ministry of Works	Bahrain	Diamond	CO1, CO2, CO3, CO4 & DO1
Al Kooheji Electrical Contractors & Construction	Bahrain	Platinum	B01 & BO3
Nass Contracting Co. WLL	Bahrain	Platinum	CO6 & CO8
Bahrain Asphalt	Bahrain	Gold	DO2
Mohammed A. Al Swailem Company	Saudi Arabia	Gold	
AFCONS	Bahrain	Gold	B11
Awal Plastics LLC	Bahrain	Gold	D06
Eastern Asphalt	Bahrain	Gold	C13
Al Hassanain	Bahrain	Gold	-
Al Ajmi	Saudi Arabia	Gold	-
Al-Haza	Saudi Arabia	Gold	-
Shibn Aljazira	Saudi Arabia	Gold	-
Al Falah	Saudi Arabia	Gold	-
Atkins	Bahrain	Silver	F05
Jalal Al Aali & Sons Company BSC	Bahrain	Silver	-
Hyder	United Kingdom	Silver	-
Abdul Hadi Al AFOO	Bahrain	Silver	F06
Al Door Excavation & Building Contracting Co.	Bahrain	Silver	C15
Colas	France	Silver	-
Al-Khodari	Saudi Arabia	Silver	-
Al-Harbi	Saudi Arabia	Silver	-
Manwa	Saudi Arabia	Silver	-
Delcan	Canada	Silver	-
Al Jahromi	Bahrain	-	F07
Dynatest Middle East	Denmark/Saudi Arabia	-	B15
Aldis	USA	Bronze	-
DBI Services	USA	Bronze	-
Traffic Tech	Qatar/Bahrain	-	F01

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