

2019

INMR

WORLD CONGRESS

Westin La Paloma Hotel & Conference Center
Tucson, Arizona, USA
Oct. 20-23, 2019

A Unique Conference & Exhibition Covering Key Topics in Power Transmission & Distribution



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Over its nearly 25 year history, the INMR WORLD CONGRESS has become one of the most respected and well-attended international events in the field of power transmission & distribution. Held every two years since 1995, this joint 3-day Conference & Exhibition focuses on today's important issues in overhead line and substation design as well as in specification, application and maintenance of key network components. Past events have been held across the globe - from Europe to North America, from Asia to South America.

This upcoming event, to be held in Tucson, Arizona, USA from Oct. 20 to 23, 2019, will offer about 100 practical technical presentations by world leading experts in the fields of outdoor insulation, surge protection, line and substation design and also maintenance and testing. Speakers include senior engineering staff from electric utilities, experts from manufacturers of MV and HV equipment and components, university professors and researchers and specialists in high voltage and high power laboratory testing.

For attendees, the intensive focus on network components that most often determine reliability, availability and operating costs will offer important benefits such as:

- Becoming better acquainted with the latest technologies and service experience for insulators, surge arresters, bushings & cable accessories;
- Learning about recent advances in inspection & maintenance practices for these components to monitor condition in the field and detect incipient failures;
- Hearing solutions developed by engineers at other utilities worldwide to deal with a range of service problems or other situations relating to these components;
- Better understanding emerging international standards and practices that govern specification and testing of these critical components.

In parallel with the conference, there will also be a PRODUCT & TECHNOLOGY EXHIBITION featuring over 60 world leaders in these fields. This will be an opportunity to meet and discuss needs with experts in all these fields while also seeing some of the latest products and designs.

See you in Tucson!



Mazana Armstrong
Specialist Engineer & Team Lead, BC Hydro, Canada
Methodology & Mitigation of Lightning Induced Arcing to Pipeline Hazard



Samuel Arturo Asto Soto
Transmission Line Coordinator, Red de Energía de Perú, (Power Grid of Peru), Peru
Performance of RTV-Coated Glass Insulators in Zones of High Salt Contamination



Steve Aubertin
Managing Director, Goulden Reports, United Kingdom
Funding the Next Global T&D Investment Cycle 2020-2040: How Much It Will Cost



R. Allen Bernstorff
Sr. Principal Engineer, Hubbell Power Systems, United States
Braced Line Post Testing & Loading Considerations



Nadew A. Belda
Innovation Engineer, KEMA Laboratories, DNV GL Energy, The Netherlands
Metal-Oxide Surge Arresters for HVDC Circuit Breaker Applications



Bryan Beske
Consulting Engineer, American Transmission Company, United States
Line Arrester Installations on ATC System: What Was Done Right & Further Improvements



Isaac Bohlken
Engineering & Technology Manager - Hardware, Pfisterer Lapp, United States
Design Rules for Long-Term Reliability of Composite Insulator Strings



Fabio Bologna
Sr. Program Manager, Electric Power Research Institute (EPRI), United States
Mechanical Testing of Connection Leads for Transmission Line Surge Arresters



James Brady
Level-III Certified Infrared Thermographer, Level-I UVigrapher, Brady Infrared Inspections, United States
Conducting Corona & Infrared Inspections of Power Lines



Paolo Cardano
Sr. Expert for Bushings, GE Grid, Italy
External Insulation Alternatives for EHV & UHV Bushings



A. J. (Tony) Carreira
President, K-Line Insulators, Canada
Thermally Diffused Galvanizing & Application to Insulators



William A. Chisholm
Consultant, Canada
1. Arrester Protection of Lower Voltage Circuits on Multi-Voltage Towers: Issues & Opportunities
2. Dust & Sea-Salt Pollution Mapping: Satellite vs. Ground-Truth Results



Lukasz Chmura
Product Development Engineer, Royal Lovink Enertech, the Netherlands
Future Challenges for Cable Accessories in MV Networks



Doug Craigen
Team Leader, Benchmark & Testing, Integrated Engineering Software, Canada
Efficient Simulation of Electric Line Parameters for Cables



Héctor de Santos
R&D Engineer, La Granja Insulators, Spain
Monitoring Performance of Outdoor Insulators in Polluted Environments



Adam Dienes
Energost, Hungary
Insulator Diagnostics Using Drones (UAVs)



Ron Duckstein
Sales Director, Sediver, United States
Evaluation of Field Returned Insulators from U.S. Grid Through Laboratory Tests



Eric Euvrard
President, RHM International, United States
Developments in RIS Bushing Technology



Prof. Masoud Farzaneh
Professor Emeritus, Université de Québec à Chicoutimi (UQAC), Canada
Overview of Impact & Mitigation of Icing on Power Network Equipment



Thomas Galloway
Engineer/Scientist, Electric Power Research Institute (EPRI), United States
EPRI Sensor Suite: A Step Towards an Intelligent Electrical Power System



Jean-Marie George
Scientific Director, Sediver, France
1. Specifying RTV Silicone Coatings for Overhead Transmission Lines
2. Digital Solution for Transmission Line Risk Assessment



Tony Gillespie
Power Engineering Consultant, Australia
Lessons from 20 Years' Experience with Composite Insulators on Transmission Lines in Queensland



Giovanni Giobbe
Design & Technical Dept., EB Rebosio/Gruppo Bonomi, Italy
Application of Interphase Spacers to Transmission Systems



Florent Giraudet
Business Development, Siemens AG, Germany
Various Benefits for Line Surge Arrester Application & Advantages of Externally Gapped Line Arresters



Hansjoerg Gramespacher
Director & Consultant, ec4ac Engineering, Switzerland
1. Requirements & Challenges in Technology and Application of HV Cable Joints
2. Reliability of HVDC Cable Joints: Today & Future Challenges



Ruben Grund
Head of R&D and Product Management, Cable Accessories, Pfisterer, Germany
Latest Developments in High Voltage Cable Accessories



Cristian Gutiérrez Aguirre
Transmission Line Specialist (Corpoelec), Venezuela
Brittle Fracture Failure of Polymeric Insulator on 400 kV Transmission Line



Igor Gutman
Sr. Expert, Independent Insulation Group, Sweden
1. Rod to Housing Adhesion in Composite Insulators: Practical Evaluation in Collaboration with Utilities
2. Software for Line Design & Operation: Case Studies



Prof. Klaus-Dieter Haim
Professor, Electrical Engineering, Zittau-Görlitz University of Applied Sciences, Germany
Cable Accessory Technologies: Current Situation & Developments to Watch



Prof. He Jinliang
Chair of High Voltage & Insulation Technology Research Institute, Tsinghua University, China
Development & Application of Polymeric Surge Arresters for Transmission Lines in China



Falk Hardt
Head, Product Portfolio & Cable Accessory Development, Pfisterer Holding, Germany
Shearbolt Connectors for LV/MV Underground Power Cables: Reliability & Failure Modes



Ramiro Hernández-Corona
Research Engineer, INEEL, Instituto Nacional de Electricidad y Energías Limpias, Mexico
Effect of Cooling Towers on External Insulation at Substations



Eduardo Hilsdorf
Sales Director, PPC Santana, Brazil
Hybrid Insulators for Distribution Lines: Advantages & Application Experience



Prof. Volker Hinrichsen
Professor & Head of HV Laboratory, Technical University of Darmstadt, Germany
Arrester Technology Today: Lessons Learned & Developments to Watch



Peter Hock
Research Associate, TU Darmstadt, Germany
Metal-Oxide Surge Arresters for HVDC Circuit Breaker Applications



Martin Hughes
Sr. Technical Leader, Electric Power Research Institute (EPRI), United States
Mechanical Testing of Connection Leads for Transmission Line Surge Arresters



Lars Jonsson
Senior Specialist, ABB, Sweden
Impact of Bio-fouling on Performance of Outdoor Bushing Insulation



Aram Khalil-Pour
Director of Engineering & System Assets, FortisBC, Canada
Session Chairman



Detlef Klingberg
Technical Manager, Application Engineering Energy, Wacker Chemical Corp., United States
Interesting Aspects of Special Cables with Silicones



Prof. Stefan Kornhuber
Professor, University of Applied Sciences Zittau/Görlitz, Germany
Long-Term Experience with Cable Joints Under Water Stresses



Jan Lachman
Director, EGU-HV Laboratory, Czech Republic
Lessons from 25 Years Experience Testing Polymeric Insulators



Jens Lambrecht
Manager, Application Engineering, Wacker Chemie, Germany
Silicone Gel: More Than a Gap Filler



John L. Lauletta
CEO, Exacter, United States
Using Grid Analytics to Evaluate Lightning Protection



Darin Lawton
Lead Engineer, Burns & McDonnell, United States
Sheath Voltage Limiter Sizing for Underground Transmission & Distribution Lines



LEE Yanmin
Chairman, Shenzhen Square Silicone, China
Applications for Liquid Silicone Rubber (LSR) in the Electrical Power Industry



Paul Leufkens
President, Power Projects Leufkens, United States
1. Damped AC for Commissioning & Diagnostic Testing of HV Cable Circuits
2. Developments to Watch in HV Surge Arresters



Jody Levine
Asset Manager, Transmission Stations, Hydro One Networks, Canada
Experience Applying Surge Protection at Hydro One



Daniel Loder
Materials Research Engineer, Israel Electric Corp., Israel
Research Findings Linking Corona to Brittle Fracture Failure



Patrick Maloney
Chief Engineer, PPC Insulators, United States
Porcelain Insulators Under Cyclic Loading



Sebastian Marra
Engineering Manager, K-Line Insulators, Canada
Case Study for Application of 400 kV Interphase Spacers



Daniel McCullough
Principal Engineer, San Diego Gas & Electric Co., United States
Optimizing Insulator Selection with Regard to Performance, Installation, Stocking & Maintenance



Alison Meredith
Manager, Engineering (Electric), FortisBC, Canada
Replacing Insulators on Ageing Long Span Lake Crossing



Eric Moal
Electrical & Mechanical Designer, Reinhausen France SAS, France
Pollution Performance of Composite Hollow Core Insulators with HTV/LSR Housings



Ed Niedospial
Sr. Product Manager, Transmission Insulators, MacLean Power Systems, United States
1. Longitudinal Loading: Fact Vs. Myth
2. Maximizing & Validating Ultimate Capacity in High Strength Applications
3. Manufacturing Quality of Toughened Glass Insulators



Marco Nosilati
Technology Leader, GE Grid Solutions, Italy
Optimized Selection of Post Insulators for AIS Disconnectors & Other Substation Applications



Prof. Derek Oliver
Director, Manitoba Institute for Materials, University of Manitoba, Canada
Insulator Performance & Characteristics Required of Innovative Materials from Renewable Resources



Konstantin Papailiou
Past Chairman, CIGRE SC
Overhead Lines, Switzerland
Keynote Address



Andrew Phillips
Vice President, EPRI,
United States
**Development of Small
Scale Test to Verify Corona
Performance of Polymeric
Insulators**



Alberto Pigni
T&D Consultant, Italy
**Optimal Insulator Type &
Dimensioning in Harsh
Service Environments**



Christian Pons
Research Engineer, Électricité
de France (EDF) Lab Les
Renardières, France
**Operating a Test Station in a
Polluted Environment**



Milan Radosavljevic
Sr. Engineer & Asset Manager,
Svenska Kraftnät (Swedish
Transmission System Operator),
Sweden
**Selection of Optimal Outdoor
Insulation for Refurbishment
of 400 kV AC Substation
Under Coastal Pollution**



Tim Rastall
Senior Electrical Engineer,
Enspec Power, United Kingdom
**Application of Surge
Arresters in MV/HV Capacitor
Bank Protection**



Bastian Robben
Design Engineer/R&D Project
Manager, Siemens AG, Germany
**Innovative Compact Line
Design: Reducing Clearances
by Integrating Externally
Gapped Line Arresters on HV
Transmission Lines**



Prof. Robert Ross
Professor, Technical University
of Delft & Asset Management
Strategist for TenneT,
The Netherlands
**Asset Replacement
Strategies in Ageing Grids:
Maintenance vs. Condition-
Based**



Markku Ruokanen
Group R&D Director, PPC
Insulators, Austria
**Adding Intelligence to
Ceramic Insulators**



Dennis Schlender
Principal, DBS Energy Services,
Canada
**Practical Field Inspection
& Condition Assessment of
Transmission Insulators**



John M. Schneider
Principal, Complex Energy
Solutions, United States
**Development of 765 kV
Externally Gapped Lightning
Arresters**



John Schonewolf
Senior Design Engineer, Hubbell
Power Systems, United States
**1. Braced Line Post Testing &
Loading Considerations**
**2. Advantages of Enhanced
Silicone Polymer for
Distribution Arresters**
**3. Monitoring Interior
Temperature to Determine
Health of Substation
Arresters**



Jens Seifert
Senior Expert, Reinhausen Power
Composites, Germany
1. Application of Station Posts
**2. Innovative Applications
& Development for
Composite Hollow Core
Insulators**



Timothy Shaw
Project Manager, Electric Power
Research Institute (EPRI),
United States
**Development of Small
Scale Test to Verify Corona
Performance of Polymeric
Insulators**



Glenn Stapleton
Principal Engineer, Transmission
Lines & Cables, Powerlink
Queensland, Australia
**Lessons from 20 Years'
Experience with Composite
Insulators on Transmission
Lines in Queensland**



**Karl Emil Steenholt-
Eliasson**
Power Lines Engineer, Energinet,
Denmark
**Transmission Structures for
Reduced Cost & Increased
Public Acceptance**



Guoyan Sun
Scientific Engineer, Brugg Cables,
Switzerland
**Designing & Optimizing HV
Cables & Accessories to
Withstand High Short-Circuit
Current Faults**



Andrei Szabo
Marketing Manager, Wacker
Chemie, Germany
**Silicones In T&D: Advantages
of This Versatile Material**



**Konstantinos
Velitsikakis**
Sr. Consultant Insulation Coordin-
ation & Team Leader, DNV GL
Energy Advisory, The Netherlands
**Strategies for Effective Appli-
cation of Line Surge Arresters
on the 400 kV Overhead
Network in Hong Kong**



Uberto Vercellotti
Testing & Certification, CESI
Group, Italy/Germany
**Experience from Long
Duration Tests on Extruded
Cable Systems up to
525 kV DC**



Rogerio Verdolin
President, Verdolin Solutions,
Canada
**Application of Surge
Arresters in Mitigating
Breaker Transient
Recovery Voltage**



Bas Verhoeven
Director High Voltage Laboratory,
Global Quality & Innovation, KEMA
Laboratories, The Netherlands
**Laboratory Experience in
Type Testing Insulators &
Cables**



Chenyang Wang
Transmission Line Design,
Manitoba Hydro, Canada
**Optimizing Structure Design
on 500 kV Line Using
Transmission Line Arresters**



Erika Willis
Research Leader, Electric Power
Research Institute (EPRI),
United States
**Advanced Coatings for
Insulators & Conductors:
Overview of EPRI Research**



Dan Windmar
Vice President, STRI, Sweden
**1. Cases of Non-Standardized
Testing**
**2. Progress on Revision of
IEC 60383**



Jonathan Woodworth
Principal, ArresterWorks,
United States
**1. Overview of Progress on
Harmonization of IEC &
IEEE Arrester Standards**
**2. Best Practice in Lightning
Protection of Distribution
Lines**



Raouf Znaidi
T&D Consultant, Tunisia
**Field & Laboratory
Assessment of RTV Coated
Insulators in Harsh Desert
Environments**

Dates & Registration

The 2019 INMR WORLD CONGRESS will start on Monday, Oct. 21, 2019 at 08:00 and conclude on Wednesday, Oct. 23 at 18:00. Registration and pick-up of badges as well as Conference materials will take place on Sunday, Oct. 20 between 13:00 and 19:00 and continue on Monday starting from 07:00.

Ground Transport to Westin La Paloma

Attendees arriving at Phoenix Sky Harbor International Airport and at Tucson International Airport on either Saturday, Oct. 19 or Sunday Oct. 20 will be offered complimentary shuttle bus service to the Westin La Paloma. INMR hospitality staff will welcome attendees and direct them to buses that will depart on a regular schedule.

Venue & Hotel

The 2019 INMR WORLD CONGRESS will take place at the large Congress Center of the Westin La Paloma Resort & Spa. Special arrangements have been made for attendees to this event to reserve hotel rooms at a significantly reduced daily rate. Those planning to attend are urged to make hotel reservations as soon as possible to ensure availability of rooms.

Reduced Rates at Westin La Paloma Resort & Spa

(for registered attendees only)

Single or double occupancy:

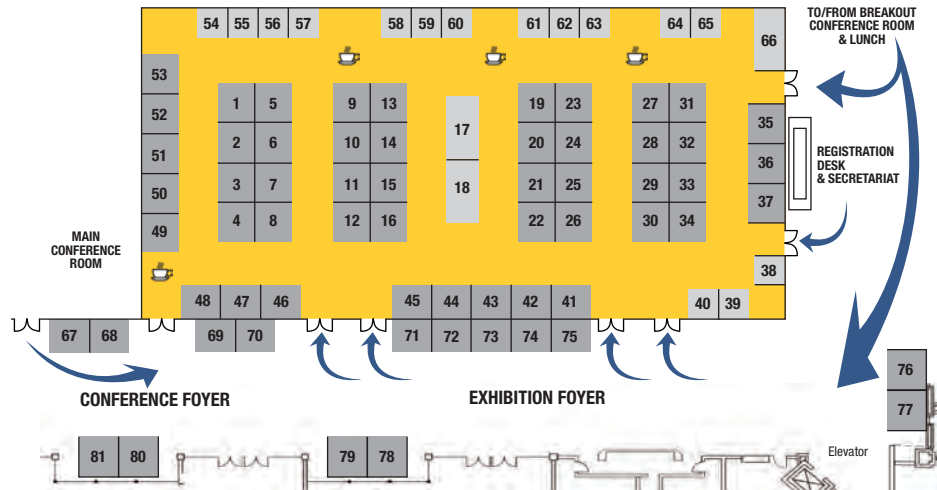
US\$ 129. + local tax (rate applies 3 days before and 3 days after this event)

Once this hotel becomes fully booked, a number of alternative hotels in the area will be recommended.

To reserve rooms, please visit: www.inmrworldcongress.com/reserve-hotel/

*As of Mar 26. Subject to possible modification.

PRODUCT & TECHNOLOGY EXHIBITION*



EXHIBITOR	SPACE #	EXHIBITOR	SPACE #
ABB Components	26	NARI Group Corporation	70
Agni Fiber Boards	64	Ofil	8
BPG International	58 & 59	Pfisterer Holding	51
Brugg Cables	35	Pioneer Technology Solutions	71
CESI	39 & 40	PPC Insulators	9 & 10
CIGRE	76	Polyone - Glasforms Advanced Composites	37
CSL Silicones	-	Reinhausen Power Composites	43 & 44
Dalian Sunrise Hardware	36	RHM International	6
Dekuma Rubber & Plastic Technology (Dongguan)	4	Saver	23 & 24
Desma Elastomertechnik	27 & 28	Sediver	19 & 20
EDF Lab Les Renardières	50	Shaanxi Taporel Electrical Insulation Technology	34
EGU HV Laboratory	45	Shenzhen Square Silicone	25
ElectroMagneticWorks (EMWorks)	75	Sichuan Yibin Global Group	3
Electric Power Research Institute (EPRI)	77	Siemens AG	31 & 32
EPRECSA USA	1	STRI	12
Eximprod Power Systems	49	TÜV Rheinland (Shanghai)	66
Global Insulator Group (GIG)	7	Ugur Turkeyurt	41
Gruppo Bonomi/EB Rebosio	54 - 55 - 56	UMEK Group	33
Hebei Kangao	11	Uniflex Hydraulik	38
H-J Family of Companies	29	Uvirco Technologies	52 & 53
Hubbell Power Systems	17 & 18	Verfahrenstechnik Hübers	46
Huphen Fabricators	65	Victor Insulators	57
Integrated Engineering Software	2	Wacker Chemie	15 & 16
KEMA Laboratories	13	Wellwin Precision Mould	30
K-Line Insulators	47 & 48	Xi'an Gaoqiang Insulation Electric	42
La Granja Insulators	14	Yizumi Rubber Machinery	61 - 62 - 63
MacLean Power Systems	21 & 22	Zibo Taiguang Electrical Equipment	5
Nanju Polymer Material	60		

Registration Fee per Person

(includes access to all conference sessions, access to Exhibition, copy of PROCEEDINGS, all lunches, all coffee breaks & invitation to two evening receptions):

General Registration

US\$ 895

Group Registration*

(min. 3 people from same company register & pay at same time)

US\$ 795

Special Reduced Registration Packages for Electric Power Utilities

Utility Registration

US\$ 695

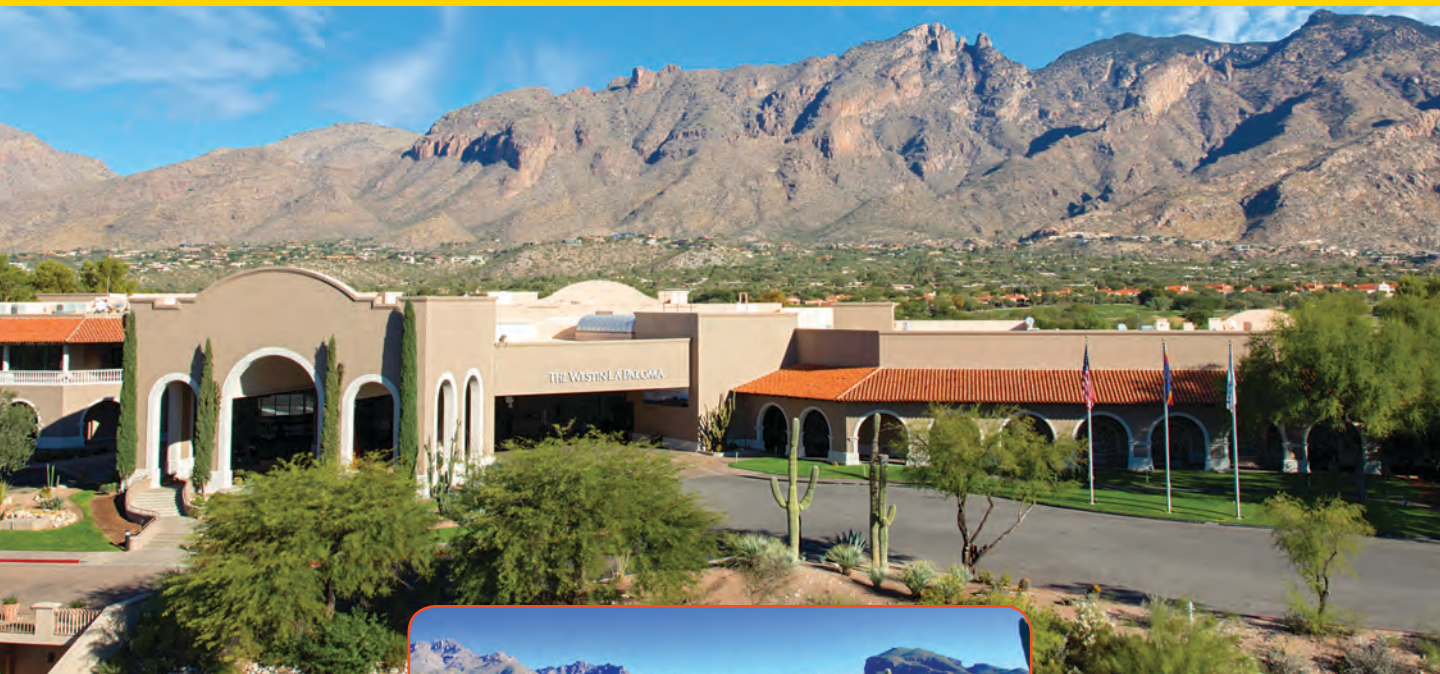
Group Utility Registration*

*(min. 3 people from same utility register & pay at same time)

US\$ 595

To register, please visit: www.inmrworldcongress.com/register-to-attend/

PLAN NOW TO ATTEND



A not-to-be-missed event for:

Line & substation design engineers
Asset managers at electricity supply companies
Inspection & maintenance personnel
HV equipment engineers and researchers
Executives in the insulator, arrester, bushing & cable accessory industries

REGISTRATION FORM

Name of Company / Electric Utility: _____

Address: _____

City: _____ Country: _____

Postal Code: _____ Telephone: _____ Telefax: _____

Name of Attendee (1): _____ Job Title: _____

Email Address of Attendee (1): _____

Name of Attendee (2): _____ Job Title: _____

Email Address of Attendee (2): _____

Name of Attendee (3): _____ Job Title: _____

Email Address of Attendee (3): _____

Please visit: www.inmrworldcongress.com/register-to-attend/
or complete the form above and email to: info@inmr.com or telefax to: 1-514-939-6151