



The International Emergency Management Society 2016 Annual Conference

Innovation and Urban Planning for Emergency Resilience in Large Cities

September 13 to 15, 2016

San Diego, California, USA

In an increasingly interdependent world, coordination between local, state, national, and international agencies and the ability to leverage innovative technology have become critical to the success of today's emergency management strategies. This conference will explore best practices and emerging technologies to facilitate coordination of resources, as well as urban planning strategies to build resilient communities.

Topics include:

- Cross-Border and Inter-Agency Coordination
- Cyber Security
- Coastal Risk Management
- Urban Planning and Crime Prevention Through Environmental Design
- Emergency Management Education
- New and Applied Technologies

Presentations from US and international leaders will provide unique insights on these important topics, and interactive sessions will create an exceptional opportunity to discuss local and international perspectives. Please join us and add your ideas to the discussion. Learn, network, and enjoy beautiful San Diego!

Supported by



Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Conference Sponsors

QUASAR

THE CITY OF SAN DIEGO

Thinking Teams

ITSFEM

NATIONAL DEMOLITION ASSOCIATION

東方正通
HARMONY Technologies Co., Ltd.

Sponsorship and Advertising Packages
Available

contact

tvrobertson@yahoo.com

Organized by



City of San Diego
Office of
Homeland Security



Welcome to The International Emergency Management Society 2016 Annual Conference



On behalf of the citizens of San Diego, I would like to welcome you to The International Emergency Management Society 2016 Annual Conference.

San Diego has worked diligently at fostering communication, collaboration and sharing best practices among our countless professionals in the fields of healthcare, public health, emergency medical services and emergency management. As we are often reminded, ensuring disaster readiness and building healthier, safer and more resilient communities must be a top national priority. San Diego is a shining example to the nation in the field of emergency preparedness, drawing on our thriving defense industry, expertise in innovation, and cross-border collaboration.

San Diego is known for its world-class restaurants, beautiful beaches and thriving neighborhoods. While visiting, I hope that you have the opportunity to experience some of the attractions that America's Finest City has to offer.

Please accept my warmest wishes for an enjoyable event in San Diego.

Best personal regards,
Kevin L. Faulconer
Mayor

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Speaker Highlights



Jorge Astiazarán Orcí (Mexico), Mayor of Tijuana (Invited)

Dr. Jorge Astiazarán Orcí was elected Mayor of Tijuana in 2013. He is a physician and has been a Red Cross volunteer since he was 11 years old. Jorge Astiazarán Orcí has been instrumental in achieving cross-border collaboration for emergency resilience. He will speak to us on his **experiences and insights working with San Diego to improve emergency resilience in the region.**



K. Harald Drager (Norway), Founding Member and President of TIEMS

Mr. Drager has expanded TIEMS to become a worldwide organization with activities in Asia, Europe, the Americas, Africa, and Oceania. Mr. Drager will provide us a **global perspective on emergencies, the role played by TIEMS and set the context for this Conference.**



Kay Goss (USA), Founding president and CEO of World Disaster Management

Ms. Goss is the Former Associate FEMA Director in charge of national preparedness, training, and exercises for President Bill Clinton. Ms. Goss is also a Fellow at the National Academy of Public Administration and President of the TIEMS USA Board. Her topic will be **"The Profound Impact of International Collaboration: Models and Standards"**



Maureen O'Connell (USA), Special Agent/InfraGard Coordinator, FBI

Ms. O'Connell will describe her work representing the FBI in a National working group to improve cyber security and awareness, and dealing with emergency incidents including **the 2015 terrorist attack in San Bernardino, California.**



Mark L. Benthien (USA), Southern California Earthquake Center, Los Angeles

Mr. Benthien is Director for Communication, Education, and Outreach for the Southern California Earthquake Center, headquartered at the University of Southern California. He will speak to us on **"Great ShakeOut Earthquake Drills: Awareness to Action!"**

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Speaker Highlights



Guosheng Qu (China), Professor and Deputy Director of S&T Committee of the National Earthquake Response Support Service Dr. Qu has published more than 100 papers in earth science, earthquake risk analysis, and emergency response, and he will provide a seasoned perspective from an area of the world with extensive earthquake experience.



Murray Turoff (USA), Distinguished Professor Emeritus, New Jersey Institute of Technology

Dr. Turoff is the designer of the Emergency Management Information System and Reference Index (EMISARI) and co-founder of Information Systems for Crisis Response and Management (ISCRAM). He will present results of a study on **views of emergency managers on emergency management education**.



George M. Karagiannis (Greece), Research Scientist, Technical University of Crete Dr. Karagiannis's interdisciplinary research lies at the intersection of disaster resilience and infrastructure sustainability. His presentation will discuss the **emergency management aspects of the current European migration crisis**, and how support functions are complicated by international politics, security and legal concerns, as well as Greece's sovereign debt crisis.



Carl Taylor (USA), Executive Director XCH, LLC, Sr. VP Risk, Unified Physician Management, Executive Director, Fraser Institute for Health and Risk Analytics. will present "**What They Never Teach You In Preparing for Disasters**".

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Special Tour: San Diego State University Visualization Center



The Viz Center is a physical space but one that largely represents relationships between people and organizations collectively attempting to positively impact the worlds of Humanitarian Assistance Disaster Relief, Community Resilience, Search and Rescue, and aid to operational Emergency Responders and Homeland Security. The Viz Center specializes in organizing and delivering geospatial data (dots on maps) over small networks (terabytes to the handheld) for emergency response and disasters. By linking emerging technologies, innovative back-end processing, and operational needs especially for disasters, the Viz Center community is attempting to assist our community, region, nation, and world in responding to difficult situations with critical information, knowledge, and decision-support tools.

Special Student Scholarship

TIEMS Rohrman Student Scholarship Fund was initiated by Bernd Rohrman, who donated the basic funds for TIEMS to be able to support graduate students to participate in TIEMS annual conferences. This Fund will financially support two students each year, and students are encouraged to submit their paper proposals and applications for financial support by filling in the application form according to the Rules and Procedures for the Fund. Students need to fill out the Application Form and send as instructed at the end of the form.

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Special Pre-Conference Workshop

Don't 'Present'. Persuade!

Presentation Workshop for Emergency Managers

Monday 12th September 0900 - 1630

Nathaniel Forbes, Director of Forbes Calamity Prevention based in Singapore, is a renowned trainer and consultant to multinational companies in business continuity management, emergency management, and crisis management

The most important interpersonal skill an emergency manager can have is the ability to Persuade! To persuade citizens to prepare. To persuade elected officials to fund a program. To persuade communities to mitigate potential hazards. To persuade your peers – in an emergency, in a classroom or at a conference.

Nathaniel's pre-conference workshop shows you how to do that in your presentations, through the use of stories, emotional connection, and pictures.

Bring your laptop (strongly encouraged!) and any presentation you want to improve (entirely optional).

Testimonials from past participants:

- “Nat provided Pro Tips and tactics to achieve my objectives in emergency management preparedness for municipal leaders.”
- “Time well spent. Great class!”
- “How powerful to take storytelling best practices and apply them to technical & professional presentations.”

For more **information**: <http://bit.ly/persuade12sep>



Register for this special workshop at a special TIEMS rate at:

<http://www.calamityprevention.com/trainingforms/Persuade/index-12sept16.php>

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Special Parallel Session Workshop *What Is The New Normal?* **EVOLVING MANAGEMENT CHALLENGES** Wednesday 14 September 0830 - 1130

Moderator: Martin Masiuk
Founder and Publisher, DomPrep Journal



Objective: It's about the threat: active shooter — violent extremists — radicalization through social media — vulnerability of cyber-digital tools — chemical — biological — radiological — nuclear — high-yield explosives — infectious disease, etc., etc. etc. This highly participatory discussion will address the growing list of threats, what they mean, and suggested solutions. Content created will be edited, vetted, and published by DomPrep as a Case Study.

Topics For Discussion: This workshop will discuss clear and present emergency management and public safety challenges including:

- Defining risk management in today's environment
- Specifics on how funding shortfalls directly affect management of mass casualty incidents?
- Understanding cyber and digital vulnerabilities
- How interdependencies help and hurt resilience
- Consequence of failure

Agenda:

- 8:30-8:40 Welcome and overview of session
- 8:40-9:30 Define The New Normal
- 9:30-9:40 Break
- 9:40-10:30 What does this mean to institutions
- 10:30-10:40 Break
- 10:40-11:30 How not to admire the problem, but solve it?

Who Should Attend: Open to TIEMS conference attendees, plus:

- Uniformed members of the Department of Defense; Department of Homeland Security; Department of Justice
- State and local emergency management, first responders (including law enforcement, fire departments, and hazardous materials teams) and public safety
- Port authorities, public safety officers, contingency and business and government continuity planners
- Contractors involved in security and emergency response

Organized by



City of San Diego
Office of
Homeland Security

The International Emergency Management Society 2016 Annual Conference



Special Workshop *Crisis Communications Simulation Exercise* Wednesday 14 September 1330 - 1500

Moderator: Gerry McCusker

Founder and Principal Advisor, Engage ORM, Australia

Gerry is an expert in online and social media, and a sought-after presenter at conferences and events in Australia, Asia-Pacific, and the USA

"Gerry's unique, masterfully crafted presentation style, combined with a natural ability to articulate relatable issues and provide relevant and thought provoking solutions, ensures he consistently rates as one of the top speakers, by client feedback, at our events."



Join us for a stimulating real-time emergency simulation, in which you'll be challenged to work through your Crisis Communications response strategy. You're all the same team (but, for competition, you'll challenge each others ideas).

You will consider key tactics and messages to help manage public information and safety, manage communications to all stakeholders (including on social media) AND at all times safeguard all agency and city reputations.

And, you will learn Engage ORM's 4M Model, a helpful and effective framework you can use when you develop your next Crisis Communications response strategy!

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Preliminary Program

Tuesday 13th September

0800 - 0900 On-Site Registration

0900 - 1200 Morning Session

K. Harald Drager, TIEMS President (Norway) *TIEMS Worldwide Operations and Activities Toward More Resilient Societies*

Nathaniel Forbes, Director, Forbes Calamity Prevention (Singapore), *Food and Disasters: The Impact of Hunger*

Kay Goss, CEO World Disaster Management (USA), *The Profound Impact of International Collaboration: Models and Standards*

John Valencia, Gary Hayslip, and Tiffany Vinson, City of San Diego Department of Homeland Security (USA), *Internalizing and Integrating Cybersecurity Approaches*

Dr. George M. Karagiannis, Technical University of Crete (Greece), *Emergency Management Aspects of the European Migration Crisis*

1300-1700 Afternoon Session

Dr. Josef Leitmann, Global Facility for Disaster Reduction and Recovery, World Bank (USA), *Investing in Urban Resilience: Making Cities and the Urban Poor More Resilient*

Flavio Ribeiro, International Association of Emergency Managers (Brazil), *The Usefulness and Practical Applications of the Concept of Resilience in Disaster Management*

Jean-Paul Monet, Bouches-du-Rhone fire Department (France), *How Can ICS Be connected to European Command Systems? Dissimilarities and Interoperability*

Tom Stahr, ERM, Inc.(USA), *Improving Resilience Through Effective Demolition and Debris Removal*

Dr. Guosheng Qu, Professor and Deputy Director of S&T Committee of the National Earthquake Response Support Service (NERSS) (China), *USAR/CERT Capacity Building for Emergency Resilience for Disasters in Large Cities*

Matt Campbell, National Coordinator, Community Planning and Capacity Building Support Function, FEMA Field Operations Directorate (USA), *Emergency Management and Urban Planning*

1800 Evening Reception, Central Library Terrace

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Wednesday 14th September

0830 - 1130 Morning Session

Carl Taylor, Executive Director, XCH (USA), *What They Never Teach You about Preparing for Disaster*

Dr. Murray Turoff, New Jersey Institute of Technology (USA), *Views of Emergency Managers on EM Education*

Dr. James Hagen, Saint Xavier University (USA), *Disaster Resilience and Sustainable Design: Innovation and Design in LEED Certification*

Gideon For Mukwai, Story Warrior Associates (USA), *Neuro-Narrative Preparedness: 3 Reasons Why Most Preparedness Programs Fail*

0830 - 1130 Special Parallel Session Workshop

Martin Masiuk, Founder and Publisher, Domestic Preparedness Journal (USA), *What is the New Normal? Evolving Management Challenges*

1130 - 1230 TIEMS Annual General Meeting

1330 - 1500 Afternoon Session - Special Workshop

Gerry McCusker, Engage ORM, *Crisis Communication Simulation Exercise*

1500 - 1700 Afternoon Session - Paper Presentations

Jeongwan Kim, Adam Kirby and James Dietz, Purdue University (USA), *AnyLogic Modeling of Regional Hub Reception Centers for the Fastest Evacuations in Major Cities*

Peiguo Yang and Yi Li, National Disaster Reduction Center (China), *An Urban Vulnerability Study Based on Historical Flood Data: A Case Study*

Xuanye Li, Longyan Haidexin Automobile Co., Ltd (China), *Total Systematic Field Solution for Emergency Cases*

1830 - Gala Dinner at Tom Ham's Lighthouse

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Preliminary Program

Thursday 15th September

0900 - 1200 Morning Session

Maureen O'Connell, Special Agent/InfraGard Coordinator, FBI (USA), *Responding to the San Bernardino Terrorist Incident*

Jaroslav Pejcoch, T-Soft (Czech Republic), *Stress Test Not Only for Banks and Nuclear PowerPlants*

Dr. Thomas Robertson, TIEMS (USA), *Risk Communication During Infectious Outbreaks*

Michael Davis, Rick Wilson and Kevin Miller, County of San Diego, California Geological Survey, California Governor's Office (USA), *The FASTER Approach: A New Tool for Calculating Real-Time Tsunami Flood Hazards*

Mark L. Benthien, Southern California Earthquake Center, Los Angeles (USA), *Great ShakeOut Earthquake Drills: Awareness to Action!*

0900 - 1100 Special Parallel Session GENERATE Workshop

Meeting international needs for training and certification in Emergency Management through eLearning and on-line Communities of Practice

1200 - 1600 Lunch and Tour of the San Diego State University Visualization Center

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

About TIEMS

TIEMS ([website](#)) is a Global Forum for Education, Training, Certification and Policy in Emergency and Disaster Management. TIEMS is dedicated to developing and bringing the benefits of modern emergency management tools, techniques and good industry practices to society for a safer world. This is accomplished through the exchange of information, methodology innovations and new technologies, to improve society's ability to avoid, mitigate, respond to, and recover from natural and man-made disasters.

TIEMS provides a platform for all stakeholders within the global emergency and disaster management community to meet, network and learn about new technical and operational methodologies. It also aims to exchange experience on good industry practices. This will influence policy makers worldwide to improve global cooperation and to establish global standards within emergency and disaster management

To learn more about TIEMS activities and membership, please visit www.tiems.info



Global Educational Network for Emergency Resilience and Training Excellence (GENERATE)

A special workshop Wednesday afternoon at the conference will present plans and progress for GENERATE, a TIEMS initiative to create a network of participating organizations and an online resource to improve access to the world's collective knowledge and experience in emergency management (<http://www.tiems.info/>). The key outputs of the GENERATE program include

- An eLearning and Certification platform that will foster, across the international community, a shared, common understanding of emergency management elements, standards, and terminology
- The Qualification in International Emergency and Disaster Management (QIEDM) certification program
- A directory of educational resources, described within a common framework, including live and online degree programs, courses, workshops, and knowledge bases
- An online portal that will make emergency management educational resources, from established educational institutions and initiatives, broadly available to students worldwide. The core of these educational resources will be developed and provided by a network of GENERATE Centres of Excellence
- An online Communities of Practice network to allow sharing of lessons learned, experiences, and specialized knowledge throughout the global community.

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Conference Venue



Join us in America's Finest City - San Diego, California at the city's new Central Library @ Joan A Irwin Jacobs Common. At nearly 500,000 square feet and standing nine-stories high, the San Diego Central Library boasts the latest technology, an outdoor garden and courtyard café, an art gallery, and views of the San Diego Bay, Petco Park, and the San Ysidro Border Crossing—the busiest land-border crossing in the world.



TIEMS Annual Conference Dinner

Wednesday evening will be our gala dinner, featuring great local cuisine, beautiful views of San Diego Harbor, music and dancing, and an informal opportunity to get to know your international colleagues. Please register at <http://tiems.info/> by September 1!

San Diego offers many opportunities for an enjoyable visit, including Balboa Park, SeaWorld® San Diego, Legoland® California, historic Old Town San Diego, the Gaslamp District, and beautiful beaches.

Travel

Lindbergh Field at the San Diego International Airport (SAN) is 5.3 miles from the conference facility. Transportation from the airport to the conference can be obtained the public transportation, taxi, or Uber.

Non-US persons may need to apply for a visa to attend the conference. If you need a visa, you will need to obtain one from the US Embassy Consular Section in your country. We recommend you start the process right away, as it can take several months. For information on how to obtain a visa, please visit www.travel.state.gov.

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

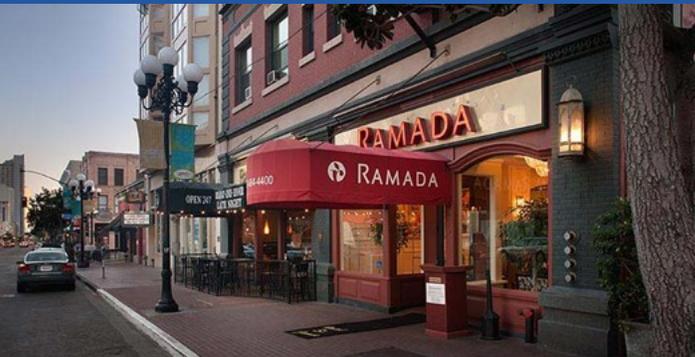
Conference Hotels



Porto Vista Hotel

Tucked in the heart of Little Italy, the Porto Vista Hotel's special TIEMS rate of \$125 plus tax includes airport shuttle, shuttle service between hotel and conference (7 minute ride), hot buffet breakfast, and free WiFi. Make reservations before **August 29** at

https://portovistasd.reztrip.com/classic/en/special_offer?rate_code=TIEBG



Ramada Gaslamp / Convention Center

Built in 1913, this historic establishment combines an ambiance of yesteryear with the convenience of 21st century amenities and services. Located in San Diego's entertainment district, the Gaslamp Quarter, the hotel is a 15 minute walk from the conference venue. Mention TIEMS for special rate of \$130/night plus tax, available until **August 29**. +1 619-531-8877. Deposit, minimum stay apply.



Omni San Diego Hotel

The Omni San Diego is a four-diamond luxury hotel that offers contemporary accommodations and impeccable service. The hotel is a 9-minute walk from the conference venue. A special TIEMS rate of \$140/night is offered until **September 7** at

<https://www.omnihotels.com/hotels/san-diego/meetings/tiems-the-international-emergency-management-society>

Organized by



City of San Diego
Office of
Homeland Security



The International Emergency Management Society 2016 Annual Conference

Conference and Dinner Registration: <http://tiems.info/> Please register by **Sep. 1**, even if you plan to pay at the conference, to give us a headcount!

Conference registration includes:

- One-year TIEMS membership (not included in single day passes)
- Conference program and online access to abstracts, presentation materials, and full papers
- Attendance at all plenary and subject sessions
- First Night Reception (\$25 charge for single day pass holders and non-registered guests)
- Coffee breaks and lunch.

| Time of Payment | Conference fee Regular | | Conference fee Student | |
|---|---------------------------|---------------|---------------------------|------------------|
| | Non TIEMS Members | TIEMS Members | Non TIEMS Members | TIEMS Members |
| Advanced Registration for Conference | 450US\$ | 350US\$ | 250US\$ | 220US\$ |
| Conference Registration at Event | 500US\$ | 400US\$ | 250US\$ | 220US\$ |
| Conference Dinner Wednesday September 14 | 50US\$ | 50US\$ | 50US\$ | 50US\$ |
| Single Day Conference Registration | 220US\$ | 180US\$ | 140US\$ | 120US\$ |

Sponsorship packages available - contact thinkingteams@gmail.com

Organized by



City of San Diego
Office of
Homeland Security