



2009 TIEMS 16th Annual Conference

FINAL PROGRAM

**09–11 June 2009
Istanbul, Turkey**

PROGRAM 2009

2009 TIEMS 16th Annual Conference

Welcome to Istanbul, Turkey!

Past Conferences

- Fort Lauderdale, USA, 1994
- Sofia Antipolis, France, 1995
- Montreal, Canada, 1996
- Copenhagen, Denmark, 1997
- Washington, USA, 1998
- Delft, Netherlands, 1999
- Orlando, USA, 2000
- Oslo, Norway, 2001
- Waterloo, Canada, 2002
- Sofia Antipolis, France, 2003
- Melbourne, Australia, 2004
- Thorshavn, Faroe Islands, 2005
- Seoul, Korea, 2006
- Trogir, Croatia, 2007
- Prague, Czech Republic, 2008

Future Conferences

- Beijing, China, 2010
- Cluj Napoca, Romania, 2011
- Oslo, Norway, 2012



2009 TIEMS 16th Annual Conference Program Overview

Day 1 – Tuesday

09 June 2009

0900 – 1030 Opening Ceremony
1030 – 1100 Coffee
1100 – 1230 Keynotes 1
1230 – 1400 Lunch
1400 – 1530 Parallel Sessions 1
1530 – 1600 Coffee
1600 – 1730 Parallel Sessions 2
1730 – 1900 Exhibition & Posters
Walkthrough
1900 – 2200 Social Event

Day 2 – Wednesday

10 June 2009

0900 – 1030 Parallel Sessions 3/
Workshop 1
1030 – 1100 Coffee
1100 – 1230 Keynotes 2
1230 – 1400 Lunch
1400 – 1530 Exhibitor & Speakers
Corner/Parallel
Sessions 4/Workshop 2
1530 – 1600 Coffee
1600 – 1730 Parallel Sessions 5
1730 – 1900 TIEMS Annual General
Meeting
1900 – 2200 On your own in Istanbul

Day 3 – Thursday

11 June 2009

0900 – 1030 Parallel Sessions 6/
Workshop 3
1030 – 1100 Coffee
1100 – 1230 Keynotes 3
1230 – 1400 Lunch
1400 – 1530 Posters/Speakers
Corner/Parallel
Sessions 7/Workshop 4
1530 – 1600 Coffee
1600 – 1730 TIEMS 2010 in China
1730 – 1900 Exhibition & Posters
Walkthrough
1900 – 2200 Gala Dinner with
Closing Ceremony

2009 TIEMS 16th Annual Conference

Day 1 – Program Overview

Tuesday, 09 June 2009

0900 – 1030 Opening Ceremony

1030 – 1100 Coffee

1100 – 1230 Keynotes 1

1230 – 1400 Lunch

1400 – 1530 Parallel Sessions 1

1530 – 1600 Coffee

1600 – 1730 Parallel Sessions 2

1730 – 1900 Exhibition & Posters Walkthrough

1900 – 2200 Social Event

Day 1 – Tuesday, 09 June 2009

Opening Ceremony and Keynotes 1: 0900 – 1230

0900 – 1030 Opening Ceremony
Chair: Muhammed Sahin – ITU, Turkey

0900 – 1030 “*Welcome to Istanbul Where the Continents Meet*”
Representatives from Turkish Government and Authorities

1000 – 1030 “*TIEMS 2008 Review and Future Plans*”
TIEMS President – K. Harald Drager, Norway

1030 – 1100 Coffee

1100 – 1230 Keynotes 1
Chair: K. Harald Drager – TIEMS President, Norway

1100 – 1130 “*Risk Management starts from Risk Assessment and Simulation*”
Ferruccio Cerruti, Managing Director – ETEA SICUREZZA SRL, Italy

1130 – 1200 “*Population alert – Possibilities in the past, present and in the future*”
Jesper Nielsen, Government Relations Manager – UMS, Denmark

1200 – 1230 “*A Critical Review of Emergency and Disaster Management in Turkey*”
Hasan Boduroglu – ITU and Chairman of the Earthquake Foundation, Turkey

1230 – 1400 Lunch



Emergency
Management
Society

Day 1 – Tuesday, 09 June 2009
Parallel Sessions 1: 1400 – 1530

Sessions 1A Earthquakes	Sessions 1B GIS	Sessions 1C Fire Fighting
<p>Chair: Qu Guosheng, China</p> <p>1400 – 1430: <u>“Analysis Of Rmb 167 Billion (USD 25 Billion) Budget On The Critical Infrastructure Protection And Reconstruction For The China 5-12 Wenchuan Earthquake Emergency Recovery”</u> ZHANG Ji <i>China</i></p> <p>1430 – 1500: <u>“Comparison Of The Istanbul Earthquake Loss Assessment Studies”</u> Himmet Karaman <i>Turkey</i></p> <p>1500 – 1530: <u>“Will A Major Earthquake Strike The Eastern Turkey?”</u> Haluk Ozener <i>Turkey</i></p>	<p>Chair: Jaroslav Pejcoch, Czech Republic</p> <p>1400 – 1430: <u>“Modelling Emergency Management Data By Uml As An Extension Of Geographic Data Sharing Model: Asat Approach”</u> Arif Cagdas Aydinoglu <i>Turkey</i></p> <p>1430 – 1500: <u>“Selecting 3d Urban Visualisation Models For Disaster Management: A Rule-based Approach”</u> Serkan Kemec <i>Turkey</i></p> <p>1500 – 1530: <u>“Improving Resource Management In Flood Response With Process Models And Web Gis”</u> Armin Wagenknecht <i>Germany</i></p>	<p>Chair: Giedo Van pellicom, Belgium</p> <p>1400 – 1430: <u>“Dermal Absorption of Toxic Gasses by Firemen Wearing Protective Suits”</u> Nils Rosmuller <i>Netherlands</i></p> <p>1430 – 1500: <u>“SAR System In Croatia - Yachtsmen’s Feedback Research”</u> Srecko Favro <i>Croatia</i></p> <p>1500 – 1530: <u>“Information Requirements Gathering for On-site Emergency Response Systems”</u> Lili Yang <i>UK</i></p>
<p>1530 – 1600 Coffee</p>		

Day 1 – Tuesday, 09 June 2009

Parallel Sessions 2: 1600 – 1730

Sessions 2A Earthquakes	Sessions 2B Technology	Sessions 2C Training and exercises
<p>Chair: Nina Frolova, Russia</p> <p>1600 – 1630: “Design Of Hazturk Data Catalog And Repository” Selim Serhan Yildiz <i>Turkey</i></p> <p>1630 – 1700: “Turkish Disaster Time Line: Is The Past Prologue?” Irmak Renda-Tanali <i>Turkey</i></p>	<p>Chair: Snjezana Knezic, Croatia</p> <p>1600 – 1630: “3 Dimensional Rendering In A Disaster Management And Meteorological Early Warning System Project” SEDEM BILIR <i>Turkey</i></p> <p>1630 – 1700: “Citrine - Common Intelligence And Traceability For Rescue And Identification Operations” Daniela Dell’Amura <i>Italy</i></p> <p>1700 – 1730: “Review Of Methods And Information Technology For Ship Collision Avoidance” Anita Gudelj <i>Croatia</i></p>	<p>Chair: Steven Jenkins, Australia</p> <p>1600 – 1630: “Risk Analysis Of The Transit Vessel Traffic In The Strait Of Istanbul” Birnur Özbaş <i>Turkey</i></p> <p>1630 – 1700: “Improving Learning From Emergency Exercises” Kerstin Eriksson <i>Sweden</i></p> <p>1700 – 1730: “Preliminary Results Of A Survey On Disaster Awareness Of Personnel And Students Of Kocaeli University” GERDAN Serpil <i>Turkey</i></p>
<p>1730 – 1900 Exhibition & Posters Walkthrough 1900 – 2200 Social Event</p>		

2009 TIEMS 16th Annual Conference

Day 2 – Program Overview

Wednesday, 10 June 2009

0900 – 1030 Parallel Sessions 3/Workshop 1

1030 – 1100 Coffee

1100 – 1230 Keynotes 2

1230 – 1400 Lunch

1400 – 1530 Exhibitors & Sponsors Speakers Corner/Parallel Sessions 4/
Workshop 2

1530 – 1600 Coffee

1600 – 1730 Parallel Sessions 5

1730 – 1900 TIEMS Annual General Meeting

1900 – 2200 On your own in Istanbul

Day 2 – Wednesday, 10 June 2009
Parallel Sessions 3 and Workshop 1: 0900 – 1030

Sessions 3A Earthquakes	Sessions 3B Technology	Workshop 1
<p>Chair: Zhang Ji, China</p> <p>0900 – 0930: <u>“Challenges Of Global Earthquake Loss Estimation In Emergency Mode”</u> Nina Frolova <i>Russia</i></p> <p>0930 – 1000: <u>“Identification Of The Block Movements And Stress Zones In Southwestern Anatolia Through Gns Measurements, Seismicity, And Coulomb Stress Distribution”</u> Ibrahim Tiryakioglu <i>Turkey</i></p> <p>1000 – 1030: <u>“Design Of A System For Rapid Assessment Of Earthquake Hazard In Turkey For Decision Making”</u> Haluk Ozener <i>Turkey</i></p>	<p>Chair: Kerstin Eriksson, Sweden</p> <p>0900 – 0930: <u>“Dangers Of Nanotechnologies: Solution To Potential Health And Environmental Concerns”</u> Dejana Dimitrijevic <i>Serbia</i></p> <p>0930 – 1000: <u>“Ship Power Plant – Safety Design”</u> Maja Krčum <i>Croatia</i></p> <p>1000 – 1030: <u>“ Making Sensor Data Work For Emergency Response “</u> Yanning Yang <i>UK</i></p>	<p>Chair: K. Harald Drager, Norway</p> <p>0900 – 1030: <u>“Risk Management starts from Risk Assessment and Simulation”</u></p> <p>Ferruccio Cerruti <i>Italy</i></p>
1030 – 1100 Coffee		

Day 2 – Wednesday, 10 June 2009

Keynotes 2: 1100 - 1230

1100 – 1230 Keynotes 2

Chair: Charles Kelly – TIEMS Treasurer, USA

1100 – 1130 *“Overview of Emergency and Disaster Management in Africa”*

Hippolyte Fofack, Senior World Bank Economist – World Bank, USA

1130 – 1200 *“Brief Introduction of China’s Emergency Management under the Construction of Harmonious Society”*

Shan Chunchang, Director of the Expert Panel for the Emergency Management Taskforce under the General Office of the State Council, China

1200 – 1230 *“New Concepts for Future Disaster Response”*

Martin von Bergh, Managing Director – Von Bergh Global Medical Consulting, Germany

1230 – 1400 Lunch

Day 2 – Wednesday, 10 June 2009

Exhibitors & Sponsors Speakers Corner/Parallel Sessions 4 and Workshop 2: 1400 – 1530

Exhibitors & Sponsors	Sessions 4A	Sessions 4B	Workshop 2
<p>Silver Sponsor:</p> <ul style="list-style-type: none"> • ETEA SICUREZZA SRL, Italy <p>Bronze Sponsors:</p> <ul style="list-style-type: none"> • HARMONY Technologies Co., Ltd, China • GE Security EMEA, Belgium 	<p style="text-align: center;">Crisis management</p> <p>Chair: Charles Kelly, USA</p> <p>1400 – 1430: <u>"Multi-organizational Governance in International Disaster Management: Nargis Cyclone in Myanmar and Sichuan Earthquake in China Cases"</u> Naim Kapucu USA</p> <p>1430 – 1500: <u>"Assessing Response System Capabilities Of Socio-technical Systems"</u> Alexander Wilhelmsson Sweden</p> <p>1500 – 1530: <u>"Challenges To Intra-organizational Risk And Vulnerability Information Flow In Public Organizations"</u> Jonas Borell Sweden</p>	<p style="text-align: center;">Training & Exercises</p> <p>Chair: Stephen Krill Jr., USA</p> <p>1400 – 1430: <u>"Risk Area Estimation And Consequence Based Analysis Using 3d Terrain Modelling Case Study: An Accidental Phosgene Release Scenario Near Râmnicu-vâlcea, Romania"</u> Nicolae Ajtai Romania</p> <p>1430 – 1500: <u>"Developing Training Course For Urban Disaster Prevention"</u> Young-jai Lee Korea</p>	<p style="text-align: center;">Workshop 2</p> <p>Chair: K. Harald Drager</p> <p>1400 – 1530: <u>"TIEMS International Certification of Emergency and Disaster Managers"</u></p> <p>Giedo Van pellicom Belgium K. Harald Drager Norway</p>
1530 – 1600 Coffee			

Silver Sponsor

ETEA SICUREZZA SRL, Italy



www.eteasicurezza.it

Established in 1993, ETEA Sicurezza SRL is an engineering firm, specializing in industrial safety, with expertise in the areas of:

- Personnel Safety
- Industrial and Civil Safety and Security

Bronze Sponsor



東方正通

HARMONY Technologies Co., Ltd.

www.harmony.en.china.cn

Established in 2002, Beijing Harmony Technologies Co., Ltd (HARMONY) is the largest solutions provider in China for Emergency Management System ICT platform construction. HARMONY provides services in the Emergency Management industry for the government, including: consulting, platform design & fulfilment, application and data development and management.

Headquartered in Beijing, with branches in Hei-longjiang, Shanxi, Guangdong, and Sichuan provinces, HARMONY focuses on government EMS, HIT, eGovernment info sharing and resource integration applications.

HARMONY is the founder and consulting member of the Emergency Management System (EMS) research project for the State Council of China, the consulting member of Beijing EMS Research Group, the Chief architect for the EMS IT platform of the Beijing 2008 Olympic Summer Games.

Bronze Sponsor



GE Security EMEA, Belgium

GE Security, a subsidiary of General Electric, is focused on the communication and information technologies for security, safety and lifestyle enhancements.

Our activities in Homeland Protection are driven by the development of technologies for explosives (trace & bulk), chemical and biological agent detection.

More specifically in the area of emergency response, we are developing new solutions and technologies for detecting chemical and biological agents.

Day 2 – Wednesday, 10 June 2009
Parallel Sessions 5: 1600 – 1730

Sessions 5A	Sessions 5B	Sessions 5C
Crisis management	Critical infrastructures	Emergency planning
Chair: Nils Rosmuller, Netherlands	Chair: Alan Jones, UK	Chair: Charles Kelly, USA
1600 – 1630: “Is Our E-world Safe? Structural Threats” Jaroslav Pejcoch <i>Czech Republic</i>	1600 – 1630: “Failure on Engineering Structures” Semih Dalgin <i>Turkey</i>	1600 – 1630: “A Framework to Integrate Social Vulnerability into Catastrophic Natural Disaster Preparedness Planning” Sarp Yeletaysi <i>USA</i>
1630 – 1700: “Avoid remaking the same mistakes again: a framework to analyse previous errors” Jose M. Sarriegi <i>Spain</i>	1630 – 1700: “Deformation Monitoring of Atatürk Dam” Yunus Kalkan <i>Turkey</i>	1630 – 1700: “Medical Intelligence And Means Of Mass Destruction” Teodora Ivanuša <i>Slovenia</i>
1700 – 1730: “Management During Crisis – The Art Of War For Managers” James C. Hagen <i>USA</i>		1700 – 1730: “How Do We Identify Climate Change Impacts Within Community Hazard Mitigation?” David King <i>Australia</i>

1730 – 1900 TIEMS Annual General Meeting
1900 – On your own in Istanbul

2009 TIEMS 16th Annual Conference

Day 3 – Program Overview

Thursday, 11 June 2009

0900 – 1030 Parallel Sessions 6/Workshop 3

1030 – 1100 Coffee

1100 – 1230 Keynotes 3

1230 – 1400 Lunch

1400 – 1530 Posters Speakers Corner/Parallel Sessions 7/Workshop 4

1530 – 1600 Coffee

1600 – 1730 TIEMS 2010 in Beijing, China

1730 – 1900 Exhibition & Posters Walkthrough

1900 – 2200 Gala Dinner with Closing Ceremony

Day 3 – Thursday, 11 June 2009

Parallel Sessions 6: 0900 – 1030

Sessions 6A	Sessions 6B	Sessions 6C	Workshop 3
<p style="text-align: center;">GIS</p> <p>Chair: David King, Australia</p> <p>0900 – 0930: <u>“Determining And Management Of Flood Risk Using Gis And Remotely Sensed Data; Sakarya Sub Basin Case Study”</u> Orkan Ozcan <i>Turkey</i></p> <p>0930 – 1000: <u>“ESRI GIS Solutions in Emergency Management”</u> Serhat ÖZEREN <i>Turkey</i></p> <p>1000 – 1030: <u>“Establishment Of A Gis Based Disaster Information And Meteorological Early Warning Systems In Rize Province Of Turkey”</u> Emin Yahya Mentese <i>Turkey</i></p>	<p style="text-align: center;">Critical infrastructures</p> <p>Chair: James Hagen, USA</p> <p>0900 – 0930: <u>“Critical Infrastructures – A Case Study From The North – Western Romania Power System”</u> Alexandru Ozunu <i>Romania</i></p> <p>0930 – 1000: <u>“Dam Safety And Deformation Monitoring (A Study On Oymapinar Dam)”</u> Halil ERKAYA <i>Turkey</i></p> <p>1000 – 1030: <u>“Risk Assessment of Infrastructures in Typhoon-Rainstorms Prone Regions of China”</u> Defu Liu <i>China</i></p>	<p style="text-align: center;">Emergency planning</p> <p>Chair: Teodora Ivanusa, Slovenia</p> <p>0900 – 0930: <u>“Development Of Integrated Emergency Management Model For Ships In Distress”</u> Snjezana Knezic <i>Croatia</i></p> <p>0930 – 1000: <u>“Implications Of People’s Risk Perception For Conceptualizing Emergency Preparedness”</u> Bernd Rohrmann <i>Australia</i></p> <p>1000 – 1030: <u>“Disaster Preparedness: A Challenge for Hospitals in Rural India”</u> Susan Madison Smith <i>USA</i></p>	<p style="text-align: center;">Workshop 3</p> <p>Chair: Martin von Bergh, Germany</p> <p>0900 – 1030: <u>“New Solutions And Technologies For Detecting Chemical & Biological Agents”</u></p> <p>Marc Van Hooghten <i>Belgium</i></p>
1030 – 1100 Coffee			

Day 3 – Thursday, 11 June 2009

Keynotes 3: 1100 – 1230

1100 – 1230: Keynotes 3

Chair: Giedo Van pellicom – TIEMS Principal Administration Officer, Belgium

1100 – 1130: *“The Global Forum on Biorisks: A Comprehensive, International, Multisectoral Approach”*

Gerald Epstein, Senior Fellow – Center for Strategic & International Studies, USA

1130 – 1200: *“A User Driven Initiative to Tailor SATCOM Services for the Benefit of Civil Protections in Europe”*

Pierluigi Mancini, Head of the Future Programmes and Applications Division – ESA, France and Jerome Bequignon, Senior Coordinator – ESA, France

1200 – 1230: *“Risk communication for saving health and life”*

Britt-Marie Drottz Sjöberg, Professor – NTNU, Norway

1230 – 1300 *“ Earthquake Loss Information Generation for Earthquake Emergency Management”*

Prof. Dr. Mustafa Erdik, Bogazici University

1300 – 1400 Lunch

Day 3 – Thursday, 11 June 2009

Posters Speakers Corners/Parallel Sessions 7/Workshop 3: 1400 - 1530

Posters Speakers Corner	Session 7B	Workshop 4
<ul style="list-style-type: none">• "Current Status of the Istanbul Disaster Information System Project" Turan Erden, Turkey• "Entropy Analysis of Images Used in Disaster Information Systems" Serdar Bilgi, Turkey• "Earthquake Loss Assessment For The City Of Dinar" Ibrahim Tiryakioglu, Turkey• "Design Of Geodetic Control Networks With Fault Parameters For Disaster Management" Kerem Halicioglu, Turkey• "Use Of Geospatial Tools In Emergency Management" TURAN ERDEN, Turkey	<p data-bbox="994 328 1290 357">Crisis management</p> <p data-bbox="853 400 1189 429">Chair: Alan Jones, UK</p> <p data-bbox="853 477 1335 541">1400 – 1430: "Crisis Management Mobile Centre" Ludek Stolba Czech Republic</p> <p data-bbox="853 708 1424 927">1430 – 1500: " The Role Of International Security Organizations In The Region: Between Traditional Role And Crime Prevention" Bernarda Tominc Slovenia</p> <p data-bbox="853 1054 1424 1310">1500 – 1530: " GUIDEKEEPER Security Concept of Operation (SECOP) to improve the operation of Unmanned Platforms for Wide Area Land and Sea Border Surveillance in Europe" Arie Lavie Israel</p>	<p data-bbox="1469 392 1957 421">Chair: K. Harald Drager, Norway</p> <p data-bbox="1469 461 2007 560">1400 – 1530: "For a Turkish extension of European Multilingual Glossary of Risk Management"</p> <p data-bbox="1469 612 1984 791">Gertrud Greciano, University of Strasbourg, Ayfer Aktas, Marmara University, Istanbul & Nehir Varol, EUR-OPA Major Hazard Agreements</p>
1530 – 1600 Coffee		

(The posters will be accessible all through the conference, but this time slot is made for conference focus on posters)

Day 3 – Thursday, 11 June 2009

China and 2010 TIEMS Annual Conference: 1600 – 1730

1600 – 1730: TIEMS 2010 in China

Chair: K. Harald Drager – TIEMS President, Norway

1600 – 1630: *“Earthquake History in China, and the Wenchuan 8.0 Earthquake”*

Guosehng Qu, Professor – National Earthquake Response Support Service (NERSS), China

1630 – 1700: *“The Chinese Emergency and Disaster and Emergency Management Training Centre in Beijing, China – The Location for TIEMS 2010”*

Shan Chunchang, Director of the Expert Panel for the Emergency Management Taskforce under the General Office of the State Council, China

1700 – 1730: *“Welcome to TIEMS 2010 in Beijing, China”*

Ji Zhang, Managing Director – HARMONY Technologies Co., Ltd, China

1730 – 1900 Exhibition & Posters Walkthrough
1900 – 2200 Gala Dinner with Closing Ceremony