

The International Emergency Management Society

Members Newsletter – Issue 12 – November 2010
ISSN - 2033-1614



謝謝

(Thank you)

A Look Back on the
events of TIEMS 2010

In this issue:

TIEMS 2010 – Looking back
on the event

TIEMS 2011 – Looking
Forward

Earthquake prediction –
Saving lives in Tokyo

Major Risk Institute – An
introduction

Forthcoming events in
Emergency Management -
2010 and beyond

Warming up to welcome you to
TIEMS 2011

7th – 10th June
Bucharest, Romania

CALL FOR
PAPERS
DEADLINE
EXTENDED

WWW.TIEMS.ORG

Message from the President

The floods in Pakistan have occupied the news and media the lately, giving us a close up picture of the suffering of the Pakistani people, who fled flooded areas in their millions, in need of help. However, this situation has had political overtones, with some suggesting that people have been more reluctant to give, because they feel uncomfortable with the political situation in Pakistan. I think it is important we remember that politics although important must never hamper the international community in supporting those most in need. This is an important reason for TIEMS being non-political and focusing on our mission and unifying our global world in emergency efforts.



Presidents
Message

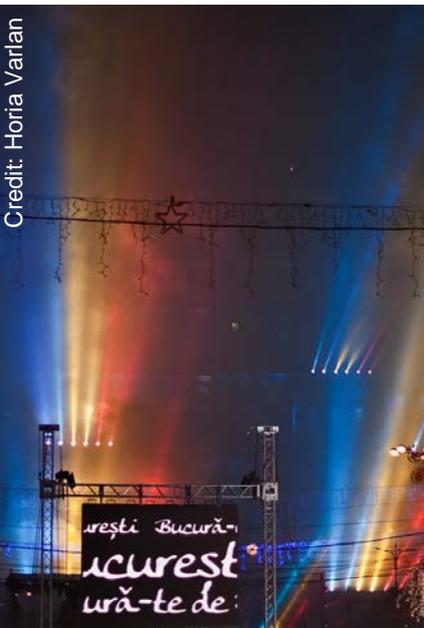
This issue of the newsletter covers TIEMS annual conference in Beijing in June 2010, and focuses on a few prominent presentations made in Beijing. Again a successful TIEMS event which attracted approx. 600 participants from more than 30 countries. A technical program of more than 100 presentations, blended with a unique social program, giving participants insight into the old Chinese culture, I am sure gave participants a memorable time they will not forget.

I am pleased to announce that TIEMS as an international network of emergency and disaster management experts, was further extended during the event with contacts made, and we are now in dialogue to establish TIEMS chapters in Japan, Iraq, Italy, ASEAN and Middle East.

TIEMS India Chapter was established in the spring, and preparations are underway for workshops in different areas in India, early next year in cooperation with Indian authorities and specialist expertise groups. This will build a TIEMS family in India, who will meet our wider international network during TIEMS 2012, which will be arranged in India.

TIEMS annual conference 2011, however, will be held in Bucharest, Romania (June 2011) and I urge you to submit your abstract for a presentation and prepare your participation, and I look forward to meeting many of our readers there.

K Harald Drager



**TIEMS 18th
Annual Conference**
7-10th June 2011
Bucharest, Romania
**Further details & Call for
papers www.tiems.org**



Editors Welcome

Dear members and supporters, welcome to the third edition of the TIEMS newsletter in 2010. Inside this issue, after President's addressing, we have detailed information on major TIEMS event that is 17th Annual Conference in Beijing, as well as announcement of forthcoming 18th Conference in Bucharest in 2011. At the 2010 TIEMS Annual General Meeting, TIEMS members voted for the positions and we have some new Board members, for details please look at www.tiems.org. This issue also offers two articles from our members and supporters. One is about new Major Risk Institute (MRI) in Ales, France and second talks about security of mega-cities from major earthquakes by using earthquake early warning system.

As always we offer you announcements about forthcoming events in the emergency field. We hope you enjoy reading this issue, and as always your comments, suggestions and contributions to improve the TIEMS newsletter are always welcome.



Editors
Message

Alan Jones

Technical / Sub Editor

Snjezana Knezic

The International Emergency Management Society 18th Annual Conference

**7th - 10th June 2011
Bucharest, Romania**

Credit: Horia Varlan

2010 TIEMS 17th Annual Conference Report

Global Emergency Response for a Harmonious World

The International Emergency Management Society (TIEMS) 17th Annual Conference and TIEMS China Chapter 1st Annual Conference and Exhibition was successfully held in Beijing Loong Palace International Hotel from June 9th – 11th, 2010.

The first time the TIEMS Annual Conference has been held in China, the event was jointly hosted by TIEMS China Chapter and the Chinese National Earthquake Response Support Service (NERSS). More than 30 ministries and related units in China relevant to the emergency also sponsored the event.

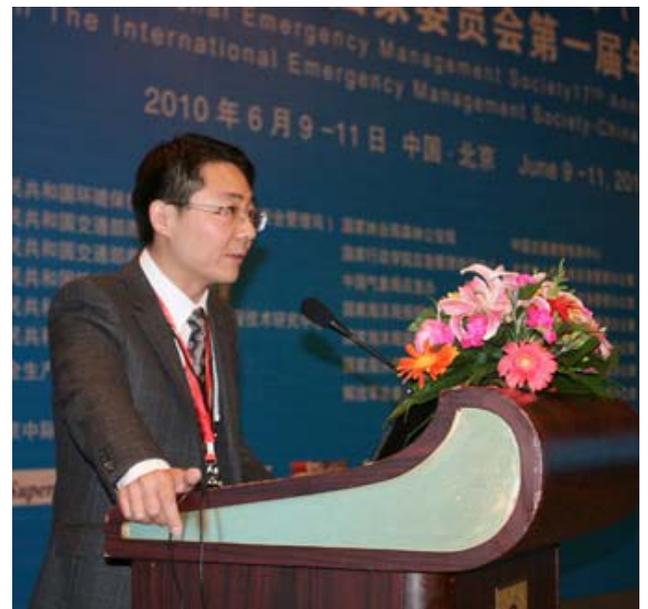


Welcome speech from Wang Shouxing, Vice Director of China State Council Emergency Management Office



The President of TIEMS China Chapter Shan Chunchang chaired the opening ceremony

The conference brought together about 600 emergency management experts, scholars, government officials and business representatives from more than 30 countries and most regions in China.



Keynote Speaker Zhang Ji (Jack) - TIEMS Director for Publication and Communications, General Secretary of TIEMS China Chapter



Under the theme of "Global Emergency Response to Disasters for a Harmonious World", the keynote speeches and sessions were organized according to emergency topics such as global earthquake catastrophe emergency response, rescue and recovery; risk assessment and management & risk analysis simulation techniques; role of NGO in emergency management; training and drill, emergency management education, strategies, tactics, and tools to effectively manage mass casualty incidents; accidents emergency management and cases analysis; smart grid & emergency management, national infrastructure protection plan.



Left: TIEMS President K. Harald Drager, keynote speech on TIEMS Vision 2010
Right: TIEMS Regional Director for Asia & Pacific, Vice President of TIEMS China Chapter, Qu Guosheng in his keynote speech

There were also special workshops on Chinese emergency management; TIEMS education and certification, global cooperation within the field of emergency management; transportation security, emergency management and technologies to name but a few and details of all of these plus the session presentations we hope will be up on our website for members to view soon.

As always, the TIEMS Annual General Meeting was held during the conference,

where members voted for positions on the board, and details of the new board are now available through our website www.tiems.org

Adding a new flavour and experience to our conference this year were the many Chinese government agencies and enterprises demonstrated their emergency management cases, products and latest technologies. It was a great opportunity for the international and domestic emergency experts to communicate and exchange visions, ideas, and solutions.

In day three of the conference, participants visited the newly opened National Earthquake Emergency Rescue Training Base for Urban Search and Rescue. This training base is the largest facility of this type in Asia and the delegates experienced an earthquake simulation, as well as watching a seismic emergency rescue drill.



TIEMS 17th Annual Conference brought a positive effect to strengthen international exchange and cooperation and provided a platform to learn about technologies and operational methods, to exchange experience on best practice and influenced policy makers worldwide to establish global standards within emergency and disaster management.

MISSED TIEMS 2010?

**Start planning now for 2011
In Bucharest , Romania**
www.tiems.org



TIEMS 18th Annual Conference

June 7th –10th 2011, Bucharest, Romania

The aim of the TIEMS 18th annual conference is to improve Preparedness and mitigation, to prevent disasters and to Ensure that the response and recovery is appropriate, Consistent and uses the best available techniques.

The TIEMS' annual conference provides various opportunities to express new ideas. We are looking for original submissions, cutting edge practice or research, either a paper or a poster proposal, in one of the topics

Below (but not restricted to):

- Risk Assessment Professional Practice
- Critical Infrastructure Protection
- Natural Disaster & Response
- Accident Calamity & Response
- Health Emergencies & Response

- Terrorism and Security
- GIS in Emergency Management
- Global Cooperation in Emergency Management
- Information & Communication Technologies
- Psychological Aspects of Disasters
- Training and Education
- Case Studies

Exhibitors and sponsors are also welcome to share their ideas and demonstrate their products in the exhibition area and network with partners from the emergency and disaster management field. A special Exhibitors/Sponsors Speakers Corner will also give the exhibitors and sponsors the opportunity for exposure to all delegates in a plenary session.

More at: www.tiems.org

The International Emergency Management Society 18th Annual Conference

www.tiems.org

**7th - 10th June 2011
Bucharest, Romania**



EMERGENCY MANAGEMENT ASIA 2011

■ Main Conference Dates: 12 & 13 January, 2011 ■ Venue: Courtyard by Marriott, Bangkok, Thailand



Strategies for Best-Practice Disaster & Emergency Preparedness, Response and Recovery

Analysis and Commentary on Recent Disasters:

2010 Haiti Earthquake



2010 Typhoon Conson



2010 Gansu mudslide



2010 Pakistan floods



Why you need to be at Emergency Management Asia:

Building closer and stronger ties for the emergency management community; it is a must for you to attend this conference to:

- Understand how to create effective national and international interagency cooperation and relationships for more effective responses to emergencies
- Assess case studies and learn the parameters in which emergency management professionals are currently working within and take home key lessons learned to help forward your own program
- Evaluate the impact of new technology in helping bridge capability gaps and quicken emergency response
- Develop short term and long term roadmaps, enabling you to forecast the potential costs for your program, thus gaining sufficient insight into how to best avoid potential project delays

Researched and Developed by



PHONE: (65) 6722 9388 | FAX: (65) 6720 3804 | EMAIL: enquiry@iqpc.com.sg | WEB: www.emergencymanagementasia.com

www.emergencymanagementasia.com

TIEMS – An International Network of Emergency and Disaster Management

TIEMS President K. Harald Drager will address the above EMA conference with the following keynote

TIEMS President will invite local experts in ASEAN to form a TIEMS Chapter. TIEMS continue to build a global network of experts in TIEMS, to exchange ideas and experience freely across the globe. The concept is to “think globally and act locally”, meaning building up local/regional groups that can focus on the local hazards and resilient needs, and that these can exchange expertise with other local/regional groups in other parts of the world. The global thinking is added value to their local knowledge by supporting local chapters in arranging international conferences and workshops, which moves TIEMS around the world.

The local chapters strive to reach all stakeholders within emergency and disaster management, from first responders (firemen and police, etc.), academics, industry and authority personnel to exchange ideas and experience.

TIEMS is also launching a global education and certification program, and chapters play a key role in liaison with local authorities and universities responsible for certification and education in this field in their region/country.

Major Risk Institute (MRI): A dedicated platform for major risk assessment and crisis management – Ales, France

By: Gilles Dusserre and Pierre Slangen

Recent dramatic events (flash floods, forest fires and industrial accidents) have underlined the need to acquire further scientific knowledge.

These risks are often characterized by a partial understanding of their main features and mechanisms. A better understanding of these critical events, better anticipation and emergency training can reduce the consequences of the accidents or catastrophes.

An applied research (based on phenomenology), the development of innovative methods for risk assessment and crisis management are the main pillars of the Major Risk Institute (MRI).



Model of the Institute's future building

The Major Risk Institute has the following objectives:

- Maintain excellence in research (e.g. national research projects, European Commission projects, industrial research).
 - The research objectives are targeted on
 - modelling and prevention of major events and disasters
 - assessing major accidents and catastrophes
 - increasing organization for crisis readiness by simulating crises situations
- Improve technology transfer towards SME's (to help innovative SME's to be more competitive).

The Major Risk Institute (MRI) will host around 25 lecturers, researchers, PhDs and around 100 undergraduate students from the "Risk Management and Environment Department".

- MRI has great expertise on understanding and modelling the accidental phenomena or catastrophic natural events such as:
 - Atmospheric pollution (source term, atmospheric dispersion, water-sprays)
 - Fire
 - Explosion (Boilover, UVCE)
 - Runaway reactions
 - Marine pollution
 - Flash floods
 - Forest fires

The technical materials and facilities are mainly:

- Wind gallery (fully equipped)
- High speed camera, Thermal cam
- Various sensors (concentration, pressure sensors, heat fluxmeters)
- Phase Doppler interferometry (PDI)
- Water gallery (sampling devices)
- Chemical reactor
- Radiative wall
- Research focuses also on risk assessment methodologies (hazards, vulnerability and risk)
- A specific research program focuses on crises management simulation exercises by using virtual reality

The MRI is equipped with two virtual reality rooms for crisis training in case of different events (flash floods, accident of transportation of hazardous goods, industrial accident).

TIEMS opens Secretariat in Brussels



We are pleased to announce that the TIEMS secretariat was opened in Brussels on the 1st November 2010, at SQUARIS Consultants under the management of Marie-Christine Bonnamour. We hope that this will help to further drive forward the society and its global network. The Secretariat can be contacted by;



Address

22 Avenue Plasky
1030 Brussels
Belgium

Phone - fax

tel: +32 2 286 80 38
fax: +32 2 286 80 39

E-mail

Marie-Christine BONNAMOUR
mc.bonnamour@squaris.com

Web www.squaris.com

The establishment of the secretariat has been possible through sponsorship from TIEMS Director for Communication and Publication and Chairman of HARMONY Technologies Co., Ltd:



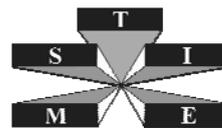
www.harmonytech.com.cn/web/gongsi

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.

With headquarters in Beijing, and branches in Hei-longjiang, Shanxi, Guangdong, and Sichuan provinces, HARMONY focuses on government EMS, HIT, e-Government info sharing and resource integration applications.

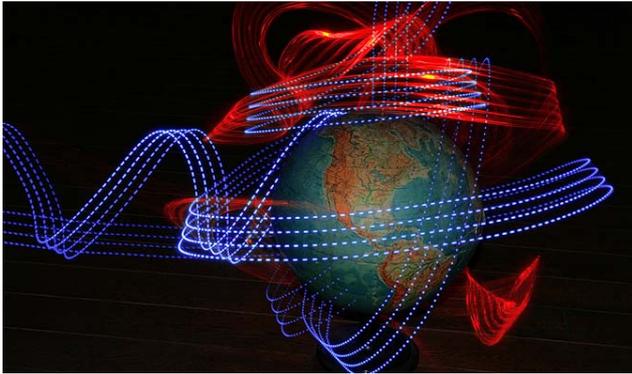
HARMONY is the founder and consulting member of the Emergency Management System (EMS) research project for the State Council of China, the consulting member of Beijing EMS Research Group, the Chief architect for the EMS IT platform of the Beijing 2008 Olympic Summer Games.



For further details on the society and its official status please visit www.tiems.org

A Growing Global Network

Development of TIEMS Chapters



Credit: Mishel Churkin

TIEMS is extending its global network of experts in emergency management and response through development of regional and national chapters. As well as those already established (see details at www.tiems.org) chapters are currently under development in the Middle East, Italy, Japan and Iraq, so if you live or work in these areas please make contact and take part:

TIEMS Middle East Chapter

During TIEMS annual conference (China), Dr. Ayman Fadel, Vice Dean, Faculty of Economics and Administration for Higher Studies and Scientific Research, met with K. Harald Drager, TIEMS President, to begin discussions on establishing a TIEMS Middle East Chapter. It was agreed to formulate a founding committee to recruit members and determine the official sponsor with the intention of hosting an international workshop within the next year. Those interested in joining this chapter please, contact:

E-mail: tiemsme@ebccm.org
Fax: +96626051116
Phone: +966505606107 (Dr. Ayman Fadel)
Phone: +962797010187 (Dr. Naill Momani)

TIEMS ME Founding Committee

Dr. Ayman Fadel, Chapter Co-director,
SAUDI ARABIA.
E-mail: badr.i.f@hotmail.com

Dr. Naill Momani, Chapter Co-director,
JORDAN.

E-mail: momani@ebccm.org

Eng. Mohamed Zghal, Events director
JORDAN

E-mail: zaghal66@hotmail.com

Eng. Taghreed Mango, Members director,
JORDAN

E-mail: mango@ebccm.org

Mrs. Sultana Al Ghalib, Treasury director
LEBANON.

E-mail: s-alghaleb@hotmail.com

TIEMS South East Europe Chapter

Last week, at the 7th TIEMS Croatia workshop in Split, K. Harald Drager, TIEMS President, and Fausto Marincion, the Università Politecnica delle Marche (Ancona, Italy), discussed the establishment of a TIEMS South East Europe Chapter, and the hosting of an international workshop in the region within the next year. Those interested in joining this initiative, please contact:

Fausto Marincion
Email: fausto.marincioni@poste.it

Carla Gentili
Email: carla.gentili@internationalconsulting.it

TIEMS Japanese Chapter

For interest please contact:

Kosuke Nakazawa
Email: k-nakazawa@shinkenpress.co.jp

Taichi Kamimura
Email: t-kamimura@shinkenpress.co.jp

TIEMS Iraq Chapter

For interest please contact:

DR. Shakir Katea
Email: em.shakir@yahoo.com

How to Guard Mega-cities from Major Earthquakes just Underneath by using Earthquake Early Warning (EEW)

By Yukio Fujinawa

In the early morning of August 11th 2009, TV and radio broadcast the EEW in Japan, after several months had passed since the latest warning.

More than 40% of people responded to the information before the arrival of the S-wave in the strong shock region. The EEW for public use broadcasts qualitative information through TV, radio and mobile phone when the maximum seismic strength is larger than 5- (JMA scale).

The official focal parameters are, the origin time: 2009, August 11, 05h 07m 06s; latitude: 34.79°; longitude: 138.50°; depth: 23km; magnitude: 6.5. The first EEW for advanced users consisted of, issue time: 05h 07m 14s (3s after trigger time and 8s after origin time); latitude: 35.0; longitude: 138.7; depth: 10km (default); magnitude: 5.9 (U-tub(**)).

Using the EEW users could then estimate the lead time and the seismic strength to be applied for their particular counter-measures.

The lead time distribution for the first EEW shows that the west coast of the Izu peninsula and City of Sizuoka has no lead time (Figure 1).

On the other hand, the people of Shimoda and Omaezaki City had 5-10s as lead time. And those in Tokyo 30-35s, enough to start their actions for counter-measures.

The earthquake resulted in; 1 death; 318 injured; 5 houses half collapsed; 7346 partial collapses; and 3 cases of fire. The human damage was concentrated in the Shizuoka Prefecture near the fault rupture area, but there are still serious (1) and slight (7) casualties in remote area as Tokyo.

Without EEW the casualty and fires statistics might be more serious. On the other hand, the impacts could be reduced if the EEW had been widespread to operate automatic control systems, such as shutdown of the gas and electric systems just before the arrival of the dominant waves.

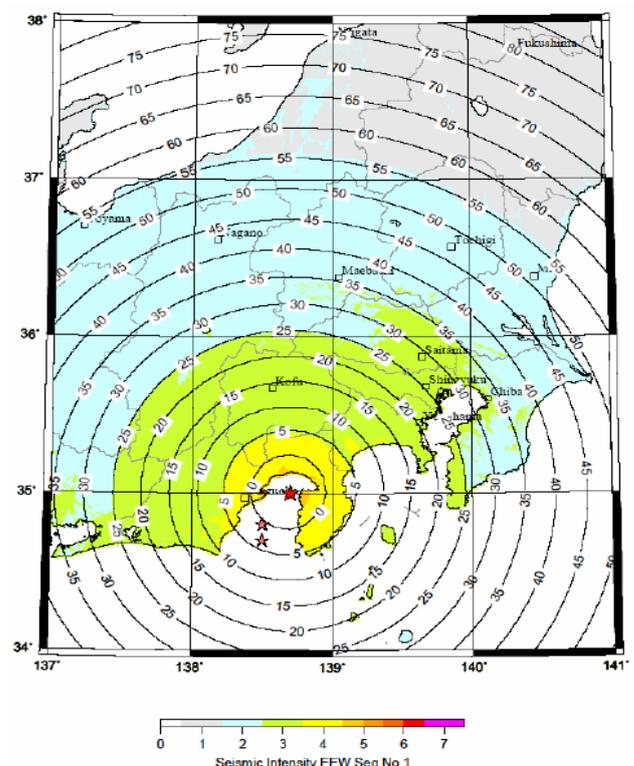


Figure 1 Lead time of the S-wave and seismic intensity estimated by the EEW for advanced users (JMA)

A major earthquake just under the South Kanto has been predicted with high probability (70%) during 2007-2036 by the Cabinet Office of Japan. The risk evaluation anticipates tremendous damage as many as 13,000 fatalities; 170,000 casualties; 6,500,000 people without means to go back home; 850,000 complete house collapses; 7 million people evacuated; and economic losses up to 100billion US\$.

To decrease such huge damage I am devising a new system for disaster mitigation in the metropolitan area of Japan, Tokyo.

Under the region there is thick sediment (3,000-4,000m thickness) with slow seismic velocity. The typical earthquake occurs at 20-30km beneath Tokyo. Under these circumstances the lead time is shown to be 6.1s and 1.9s respectively before the S and P-wave arrive, if the seismometer is installed at the depth of 7,000m. In case of 3km depth we still have 5.3s lead time of S-wave to response.

The disaster mitigation table for the EEW system shows that the effect of EEW to human damage is expected to decrease by 25% (2s), and 80% (5s). The assumed fatal

casualties for the South Kanto should reduce to 9,750, and to 2,600, respectively, for 2s and 5s lead time, compared to the assumed 13,000 death.

The serious casualty figure is also likely to decrease by several tens percent, both which have a significant effect from the point of view of rescue and medical activities.

I do think the system is within the scope of our technological abilities. The biggest problem however is the large budget amounting some 100million US\$ to construct this in Japan. The consideration of cost/benefit would surely lead the favorable decision of the project at present when the earthquake prediction has not yet been found?

Forthcoming Events / Conferences

TIEMS is dedicated to highlighting to its members events and conferences, which we feel may benefit your professional development in forthcoming months.

TIEMS members and friends are encouraged to submit information about forthcoming events that may be of interest for the TIEMS community to alan.jones@westsussex.gov.uk and we will endeavour to publish it in the most appropriate issues.

November 2010

European Conference on Disaster Preparedness Management
22nd – 24th November 2010
Berlin

This European conference encourages stakeholders at all levels of Government, private sector, public health, and related professions to exchange ideas on collaborating to protect lives and property from disaster.

www.europaeische-akademie.net/fileadmin/user_upload/dateien/conferences/Disaster_Preparedness_Management_K90_KB.pdf

TIEMS 2010 South Korea Workshop
25th November 2010
Seoul, South Korea

Playing host to both Korean and international speakers this workshop will introduce and share the year's latest techniques and case materials from the region and beyond.

For further information, please contact Young-Jai Lee at yjlee@dgu.edu
www.tiems.org

PSCE Forum Conference

30th November - 1st December 2010
Amsterdam

Thematic highlights of the conference include; Critical Information Protection; Public Warning Policy; Interoperability.

Moreover, PSCE Forum Conference will provide details for the first time on the Common Operational Picture Exploitation (COPE) Project.

www.psc-europe.eu

December 2010

Security & Defence Learning 2010

1st December 2010
Berlin, Germany

This event has established a reputation as one of Europe's leading conferences on technology-assisted learning in the emergency management and security sector. It provides an opportunity not only to keep up with the latest trends and challenges in the sector but also to take advantage of excellent networking opportunities.

<http://www.security-defence-learning.com/>

January 2011

Emergency Management Asia

12-13th January 2011
Bangkok, Thailand

In its inaugural year, Emergency Management Asia will address the issues of interoperability at both the risk management and crisis management stages. Drawing on regional and international expertise, delegates can expect to project lessons learned and real scenarios onto their own current and future projects and plans.

www.emergencymanagementasia.com

February 2011

National Security Australia 2010

25th – 26th February 2010
Sydney, Australia

With the nature of threats to Australia's national security constantly evolving and a growing range of sources which are consistently advancing, the challenges to Australia's national security are being felt by more and more corners of community, industry and government.

The 9th Annual National Security Australia Conference will address the key challenges facing Australia, facilitate greater communication between government agencies, industry and the private sector and provide a platform for idea and information exchange

<http://www.nationalsecurityaus.com/>



April 2011

IDER 2011

13-14th April 2011
Florence, Italy

IDER 2011 is hosted by the University of Florence, Centre for Civil Protection and Risk Studies (CESPRO). The main theme for the conference will be 'The Impact of Climate Change' with a particular focus on the requirement for Community Resilience.

<http://www.iderweb.org/>

Counter Terror Expo 2011

19-20th April 2011
London, England

Counter Terror Expo is the critically acclaimed, highly specialised, event for those who are tasked with the demanding and complex role of delivering a robust defence against the threat posed from international terrorism.

<http://www.counterterrorexp.com/>

May 2011

ISCRAM 2011 Conference

8-11th May 2011

Lisbon, Portugal

The 8th International Conference on Information Systems for Crisis Response and Management. ISCRAM 2011 invite all researchers and practitioners, from information systems to crisis management areas, to get involved in this event and to contribute to make it a memorable one.

<http://iscram2011.lnec.pt/>

TIEMS China Chapter 2nd Annual Conference

22nd - 24th May 2011

Shanghai, China

For further information, please, contact Guosheng Qu at qgsh@263.net

June 2011

TIEMS 18th Annual Conference 2011

7-10th June 2011

Bucharest, Romania

The aim of TIEMS 18th annual conference is to improve preparedness and mitigation, to prevent disasters and to ensure that the response and recovery is appropriate, consistent and uses the best available techniques. For further information, please contact conference host Stela Petrescu at Stela.Petrescu@mdrt.ro

www.tiems.org

WCDM 2011

19th – 22nd June 2011

Toronto, Canada

A major goal of the WCDM is to offer a program that challenges delegates by examining traditional concepts and methods, and provides: new ideas and approaches to problem solving; both leading edge and topical presentations; opportunities to connect with key individuals and organizations across the disaster management spectrum.

<http://www.wcdm.org/>

TIEMS Workshop

22nd - 23rd June 2011

Alès, France

TIEMS in cooperation with École des Mines is arranging a workshop in 22nd and 23rd June 2011

www.tiems.org

MORE EVENTS AND INFORMATION ON THE TIEMS CALENDER WWW.TIEMS.ORG

If you would like to publicise your event please email details to:

alan.jones@westsussex.gov.uk