



The International Emergency Management – TIEMS

Training Workshop

on

Emergency and Disaster Management and Disaster and Emergency Medicine

Erbil, Iraq 16 – 18 September 2012

PROGRAM

1. [Emergency Medicine Hall A](#)
2. [Emergency Medicine Hall B](#)
3. [Emergency and Disaster Management Hall C](#)



The International Emergency Management – TIEMS



Training Workshop Emergency Medicine Hall A

Day 1 16 th September	Hall A	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	Pediatric Emergencies	Dr. Ross + Manson
11:00 - 11:30	Coffee break	
11:30 - 13:30	Pediatric Emergencies	Dr. Ross + Manson
13:30 – 14:30	Lunch	
14:30 – 16:30	Pediatric Emergencies	Dr. Ross + Manson
16:30 – 17:00	Coffee break	

Day 2 17 th September	Hall A	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	Mass casualties management	Dr. Ross + Manson
11:00 - 11:30	Coffee break	
11:30 - 13:30	Mass casualties management	Dr. Ross + Manson
13:30 – 14:30	Lunch	
14:30 – 16:30	Mass casualties management	Dr. Ross + Manson
16.30 – 17:00	Coffee break	

Day 3 18 th September	Hall A	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	Airway management	Dr. Holstrater.
11:00 - 11:30	Coffee break	
11:30 - 13:30	Airway management	Dr. Holstrater.
13:30 – 14:30	Lunch	
14:30 – 16:30	Airway management	Dr. Holstrater.
16:30 – 17:00	Coffee break	



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Training Workshop Emergency Medicine Hall B

Day 1 16 th September	Hall B	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	F.A.S.T	Dr. Mariwan
11:00 - 11:30	Coffee break	
11:30 - 13:30	F.A.S.T	Dr. Mariwan
13:30 – 14:30	Lunch	
14:30 – 16:30	F.A.S.T	Dr. Mariwan
16:30 – 17:00	Coffee break	

Day 2 17 th September	Hall B	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	Intensive Care	Dr. Waleed Ansari + Muayed + Dr.Hayat
11:00 - 11:30	Coffee break	
11:30 - 13:30	Intensive Care	Dr. Waleed Ansari + Muayed + Dr.Hayat
13:30 – 14:30	Lunch	
14:30 – 16:30	Intensive Care	Dr. Waleed Ansari + Muayed + Dr.Hayat
16:30 – 17:00	Coffee break	

Day 3 18 th September	Hall B	Teacher
08:30 – 09:00	Registration	
09:00 - 11:00	Toxicology	Dr. Hussein
11:00 - 11:30	Coffee break	
11:30 - 13:30	Intensive care	Dr. Waleed Ansari + Hayat
13:30 – 14:30	Lunch	
14:30 – 16:30	Intensive care	Dr. Waleed Ansari + Hayat
16:30 – 17:00	Coffee break	



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Training Workshop Emergency and Disaster Management Hall C

Day 1 16 th September	Hall C	Teacher
08:30 – 09:00	Registration	
09:00 - 10:00	Introduction to TIEMS Education, Training and Certification Program – TIEMS QIEDM Certification	K. Harald Drager
10:00 - 11:00	Introduction to Disaster Management Conceptual Frameworks and Theoretical Models – Identifying Operational Needs	Laura-Madalina Spataru
11:00 - 11:30	Coffee break	
11:30 - 12:30	Decisions in Emergency Response	Gideon F. Mukwai
12:30 – 13:30	Integration of Early Warning into DRR strategies, Early Warning Technology and Application	Garry de la Pomerai
13:30 – 14:30	Lunch	
14:30 – 15:30	Disaster Modeling “terrorist attacks”	Jaroslav Pejcoch
15:30 – 16:30	Decisions in Emergency Response	Gideon F. Mukwai
16:30 – 17:00	Coffee break	

Day 2 17 th September	Hall C	Teacher
08:30 – 09:00	Registration	
09:00 – 10:00	Disaster Modeling “terrorist attacks”	Jaroslav Pejcoch
10:00 - 11:00	Decisions in Emergency Response	Gideon F. Mukwai
11:00 - 11:30	Coffee break	
11:30 – 12:30	Integration of Early Warning into DRR strategies, Early Warning Technology and Application	Garry de la Pomerai
12:30 - 13:30	Disaster Modeling “terrorist attacks”	Jaroslav Pejcoch
13:30 – 14:30	Lunch	
14:30 - 15:30	Disaster Management	Laura-Madalina Spataru
15:30 – 16:30	Integration of Early Warning into DRR strategies, Early Warning Technology and Application	Garry de la Pomerai
16:30 – 17:00	Coffee break	



Training Workshop Emergency and Disaster Management Hall C

Day 3 18 th September	Hall C	Teacher
08:30 – 09:00	Registration	
09:00 - 10:00	Earthquake Disaster Emergency Response and SAR Operation Procedures — Case Analysis	Guosheng Qu
10:00 - 11:00	Global ICT Applications in Emergency and Disaster Management	Ji (Jack) Zhang
11:00 - 11:30	Coffee break	
11:30 – 12:30	Disaster Management – Tools and Tactics	Robert Sunde
12:30 – 13:30	Earthquake Disaster Emergency Response and SAR Operation Procedures — Case Analysis	Guosheng Qu
13:30 – 14:30	Lunch	
14:30 – 15:30	Global ICT Applications in Emergency and Disaster Management	Ji (Jack) Zhang
15:30 – 16:30	Conclusions – Applications of Disaster Management Conceptual Frameworks	Laura-Madalina Spataru
16:30 – 17:00	Coffee break	



TIEMS International Pool Teacher & Trainer Biography

Name: *K. Harald Drager*

Position: *TIEMS President*

Organization: *QUASAR Invest AS
Østvangveien 29
0588 Oslo
Norway*

Date of Birth: *12.05.1942*

Nationality: *Norwegian*

Mobile: *+47 91693012*

E-mail: [*khdrager@online.no*](mailto:khdrager@online.no)



Biography:

K. Harald Drager, Oslo, Norway, is the Managing Director of QUASAR Invest AS in Norway, a consultancy in global safety, emergency and disaster management. He has a Master's degree in control engineering from the Norwegian Technical University in 1966 and a Master's degree from Purdue University in USA in industrial engineering in 1973. His specializations are international organizational development, emergency, disaster and risk management, and project management. He has done consultancy work for numerous clients internationally amongst others the World Bank/International Finance Corporation, NATO and the European Commission, and he has been project manager of several international research and development projects for methods and software development in risk, emergency and disaster management.

He was employed by Det norske Veritas, http://en.wikipedia.org/wiki/Det_Norske_Veritas in 1967 and a member of the Board of Directors of the company for 5 years until he left the company in 1983 and founded his own consultancy. He took the initiative to establish TIEMS (The International Emergency Management Society; www.tiems.org) in 1993, and was the International Vice President of TIEMS since its inauguration until 2002, when he took over as TIEMS President. TIEMS has under his leadership developed to a global well known organization with local chapters in many regions/countries, and TIEMS arranges each year workshops and conferences all over the world with focus on disaster risk reduction. Recently TIEMS has initiated development of a global education, training and certification program and a research coordination service for its members. He has published numerous papers internationally on emergency, risk and disaster management.

He was TIEMS representative in the EU funded NARTUS project with the responsibility for consensus building and establishing the PSC Europe Forum, www.psc-europe.eu, an all stakeholder forum for public safety communication. PSC Europe Forum is now a sustainable organization after it was launched at the end of the NARTUS project in 2009, and arranges two assembly conferences each year and is a leading global advocate for standardization and research initiatives in public safety communication. He is a member of the advisory boards of the EU projects; CRISMA, <http://www.vtt.fi/sites/crismaproject/index.jsp?lang=en> and Opti-Alert, <http://www.opti-alert.eu/>.



TIEMS International Education Program Course

Teacher & Trainer: *K. Harald Drager*

Title of Course: *Introduction to TIEMS Education, Training and Certification Program – TIEMS QIEDM Certification*

Course content:

The course is an introduction to international emergency and disaster management and crisis response with focus on the following:

- Introduce TIEMS International Education, Training and certification Program leading to QIEDM certification
- Where to find information, who to contact and what to learn about the different approaches used worldwide
- Awaking interest for international cooperation for exchanging experience and knowledge.

OBJECTIVES

The intention with this course is to advocate for an international standardization and certification in qualifications in emergency and disaster management, and to put focus on activities around the world in emergency and disaster management and crisis response, to learn from what others do and get an overview for further contacts and cooperation.

WHO SHOULD ATTEND

This course is an introduction to all who is interested in international standardization in emergency and disaster management and international certification in this discipline and needs an overview of worldwide emergency and disaster management and crisis response.

COURSE OUTLINE:

Part 1

- Introduction of TIEMS QIEDM Certification
- Definitions of relevant terms in emergency and disaster management and crisis response
- Introduction to International/Regional/National Organizations dealing with Emergency and Disaster Management and Crisis Response

Part 2

- International Cooperation
- Internationally Available Training Courses
- Internationally Available Conferences and Workshops
- Internationally Available Research Programs and Funding



TIEMS International Pool Teacher & Trainer Biography

Name: *Gideon F. Mukwai*

Position: *Founder & Principal*

Organization: *XtraMile Solutions*
75C Duxton Road
Singapore 089534

Date of Birth: *29.03.1972*

Nationality: *Singaporean*

Mobile: *+65 9674 1088*

E-mail: [*gideon@1xtramile.com*](mailto:gideon@1xtramile.com)



Biography:

Gideon is a trainer and facilitator with over a decade of international experience in designing and delivering emergency and crisis management programmes. He was formerly a senior fire/Hazmat response officer with the Singapore Civil Defense Force. Thus far, he has conducted workshops in Hong Kong, USA, Malaysia, Thailand, United Arab Emirates (UAE), South Africa and Canada.

In 2004, he founded XtraMile Solutions, as a dedicated emergency and crisis management training company in Singapore. The company has trained over 12,000 executives from organisations such as Shell, Oracle, Dell, NUS, DBS Bank, National University of Singapore, Siemens, Gillette, and Deutsche Bank.

He is a graduate from the Master's in Interactive Environmental Journalism from the Reynolds School of Journalism (RSJ), University of Nevada, Reno (UNR). His final paper titled, "Integrating Social Media in Emergency and Crisis Management," was adopted for implementation at the Washoe County Office of Emergency Management, Reno, Nevada. In 2006, he was the first professional from outside North America to earn the Certified Emergency Manager (CEM) Certification. He serves on the CEM Commission for the Asia-Oceania Council of IAEM. From 2005 to 2010, he served as President of the International Council of IAEM, representing 24 countries in Middle East, Africa and Southern America.



TIEMS International Education Program Course

Teacher & Trainer: *Gideon F. Mukwai*

Title of Course: *Decisions in Emergency Response*

Course content:

When a house is on fire, a bridge is broken, and a community is submerged in rising floodwaters, decisions must be made about life safety, property and environmental damage.

Given the importance of such decisions, decision-makers have a duty to be as effective as possible. This is critical because every decision taken or not taken has professional, legal and ethical consequences.

Decisions in Emergency Response explores various considerations that decision-makers contend with during a time of mayhem. It focuses on practical issues like: training, protocols, support systems, threats, and situational analysis.

In essence, this programme captures the challenges, considerations and limitations of being on the frontline of response to limit the impact of a disaster in undermining the growth and development of a community.

The attendees will pick up tools, techniques and strategies that enable them to effectively make sense of an emergency and make decisions that alleviate human suffering, property and environmental damage.



TIEMS International Pool Teacher & Trainer Biography

Name: *Ji (Jack) Zhang*

Position: *Chief Executive Officer*

Organization: *HARMONY Technologies Co.,Ltd
B-8/F InDo Tower, No.48A
Zhichun Road
Haidian District, Beijing
100098 China*

Date of Birth: *03.02.1969*

Nationality: *Chinese*

Mobile: *+86 13910770527*

E-mail: [*zhangji@harmonytech.com.cn*](mailto:zhangji@harmonytech.com.cn)



Biography:

Dr. Ji (Jack) Zhang is the President of Beijing HARMONY Technologies Company and the head of Harmony International Disaster Reduction and Emergency Management Academy (HiDREMA). He has a Ph.D of management from China Academy of Sciences, MBA from Peking University and BE of Electrical Engineering & BS of Applied Mathematics from Tsinghua University.

Dr. Zhang has abundant working experiences in the IT industry in well-known companies such as Lenovo, IBM, and Micron Technology Inc. among others. His main areas of study focus on government emergency management information systems, Internet of Things (IOT) technology, emergency response plan study, and homeland security, particularly national critical infrastructure and key resource protection.

Establishing the Beijing HARMONY Technologies Company in 2002, Dr. Zhang developed the first domestic government emergency management information software in China in 2003 against SARS. Beijing HARMONY today has grown to be the biggest IT enterprise in the industry of emergency management in China.

With ten branch offices in China in Shanghai, Guangzhou, Chengdu etc., HARMONY Technologies and HiDREMA provide comprehensive consultation, ICT system integration and services to the Chinese enterprise, government and public customers in disaster reduction and crisis management.

Dr. Zhang is the undertaker of the Emergency Response System (ERS) research project for the Emergency Management Office (EMO) of the State Council of China, the consulting member of Beijing EMO Research Group, the chief designer for the ERS platform of the Beijing 2008 Olympic Games, co-founder of China-Japan IOT(Internet of Things) Development Alliance and consulting member of China ZGC IOT Industry Alliance. He has published extensively and is a member of various leading professional and scientific organizations, including the the Healthcare Information and Management Systems Society, the Organization for the Advancement of Structured Information Standards and the PSC Europe Forum. Dr. Zhang is presently the director of Communication and Publications of The International Emergency Management Society (TIEMS) and the Secretary of TIEMS China Chapter.



TIEMS International Education Program Course

Teacher & Trainer: *Ji (Jack) Zhang*

Title of Course: *Global ICT Applications in Emergency and Disaster Management*

Course content:

Under the global concepts in emergency management, preparedness, prevention, disaster response and recovery, Dr. ZHANG made specific research on the new ICT application and development in the different phases of EMDR. Some courses or topics he ever delivered in big EM conferences or workshops are as below.

Topics Include:

- The Application of Internet of Things(IOT) in Emergency Management System in China
- Resilience lessons from China
- Possible hurdles on the road toward the future internet
- The protection of the Chinese national critical infrastructures from the three-year practice and revision of US NIPP
- The Role of Government Emergency Management Information System in Emergency Rescue
- Brief Introduction of China's Emergency Management under the Construction of Harmonious Society
- 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
- Enabling Multilateral Approaches Through Technological Developments in Large Scale Terrorist Attack
- Emergency Management ICT platform of the Beijing 2008 Olympic Games
- The Introduction of Basic Social Emergency Response Unit (BSERU) Networking System for EM Strategies in planning for and initiating recovery from disaster
- China practice - From Government EMS to Digital City



TIEMS International Pool Teacher & Trainer Biography

Name: *Guosheng Qu*

Position: *Dr. Prof. of NERSS
Vice President of TIEMS
Director, DDMEMRC, IDC,
Peking University*

Organization: *National Earthquake
Response Support Service
(NERSS), CEA, Beijing, 100049,
P. R. China.*

Date of Birth: *12.02.1961*

Nationality: *Chinese*

Mobile: *+86 1380 122 5593*

E-mail: [*ggsq@263.net*](mailto:ggsq@263.net)

Biography:

Guosheng Qu got his PhD in 1989 in Earth Science in Peking University. He is now Dr. and Prof. of Earth Sciences, and deputy director of S&T Committee, National Earthquake Response Support Service (NERSS), China Earthquake Administration (CEA). He is high level expert of China International Search and Rescue Team (CISAR) and has been general team leader of CISAR.

He is the Vice President of The International Emergency Management Society (TIEMS) and Vice president of TIEMS China Chapter. He is also Director, Digital Disaster Mitigation and Emergency Management Research Center, IDC, Peking University. He is an expert of disaster mitigation group of IAP and Integrated Research on Disaster Risk (IRDR) program, ICSU Regional Office for Asia and the Pacific. He is a standing Committee Member, Special Committee for Risk Analysis and Crisis Management under China Disaster Prevention and Mitigation.

He has published more than 100 papers on earth science in the following fields: Global Seismotectonics and Earthquake Disasters Alert, Information and Technique Supports for Emergency Response and SAR Operation, Seismic Hazard Assessment and Structural Geology and Regional Geology. He has created and led an Earthquake Disaster Information Support Group for CISAR and Chinese Gov. to response about 240 large earthquakes globally, and successfully since 2005. He has 4 times experience on the on-site search and rescue operations, South Asia Earthquake, Yogyakarta Earthquake in Indonesia, Wenchuan and Yushu Earthquake in China.

As general deputy team leader of China International Search and Rescue Team (CISAR), as one of main member to organize and operate CISAR to pass the IEC Certification during 11-14, Nov. 2009 depends on the INSARAG guideline.





TIEMS International Education Program Course

Teacher & Trainer: *Guosheng Qu*

Title of Course: *Earthquake Disaster Emergency Response and SAR Operation Procedures — Case Analysis*

Course content:

This course introduces the procedures of Earthquake Disaster Emergency Response and SAR Operation. The course will show the key stages and techniques using in the emergency preparedness, response, search and rescue.

Topics Include:

1. Global Seismic Risk and Earthquake Disasters
2. Earthquake Disaster Quick Estimation and Emergency Responses
3. On-site USAR Teams Distribution in Earthquake Disasters
4. Earthquake Disasters On-site Operation and Coordination
5. Cases Analysis of Recent Earthquake Disasters
6. Considerations and Suggestions

Objectives:

1. To identify and understand the global seismic risk. How to assess the seismic risks. How to prepare the potential earthquake disasters based on the seismic risk.
2. To know the methods and pre-plan of emergency response.
3. To learn the methods of quick information collection, analysis, and estimation of earthquake disaster, some methods to determine the degree, scale, death toll, and response level after the large earthquake.
4. To learn how to determine the heavy disaster area, and how to arrange the on-site USAR teams in earthquake disasters area.
5. To learn how to operate and coordinate the USAR teams, OSOCC, LEMA, and other resources on-site earthquake disasters.
6. Cases analysis of recent earthquake disasters, such as southeast Asia earthquake in Pakistan, Wenchuan earthquake, Haiti earthquake, East Japan Sea earthquake and tsunami, etc..
7. To learn the SAR theory and how to make-decisions, operation and coordination during the earthquake disaster rescue and relief.
8. Considerations and Suggestions



TIEMS International Pool Teacher & Trainer Biography

Name: *Garry de la Pomerai*

Position: *Independent UN DRR Consultant /+ CEO*

Organization: *'SOLUZION Systems'
VVSC FZ LLC RAK
UAE*

Date of Birth: *01.04.1959*

Nationality: *British*

Mobile: *+44 7845529211*

E-mail: [*soluzioninfo@aol.com*](mailto:soluzioninfo@aol.com)



Biography:

Garry de la Pomerai is Co-Director of the “SOLUZION” brand Company ‘VVSC-FZ-LLC’ based in UAE, developing and marketing state of art Chinese Early Warning and International Communication and Modelling systems for Earthquakes, Tsunamis, Floods and Landslides, along with introducing earthquake ‘reliable prediction’ science. The company also provides a variety of state of art Environmental solutions addressing water sustainability, agricultural enhancement and air, ground and water pollution and desalination, all using long established Russian Magnetic Technologies based in UAE.

He is an independent DRR Consultant to a variety of United Nations Agencies and INGO’s and Government advisory boards; supporting the UNISDR Resilient Cities programme and the UNESCO/INRULED Education for Rural development and sustainability. He is a member of the UN ISDR Multi Agency TPKE Thematic Platform for Knowledge and Education and a co-founder of COGSS-DPE Coalition for Global School Safety Disaster Prevention Education and remains a consultant to the UNCRD in Japan for Asia/Pacific Region and a member of the UNICEF MENA Middle East and North Africa Consultancy pool

He is Chairman of the United Nations UNESCO Global Task Force for Building Codes. He also supports the IPRCC in the Chinese work for integration of policy between Poverty Reduction and Disaster Reduction, and is an advocate to address Environmental Change within our fast growing urban environments, equally considering our fragile rural environment provision of food, water and material resources. He is still required to provide specialist training to emergency response units in London and occasionally develops and delivers bespoke training courses for the UK Health and Safety Industry.

He was a USAR Technician for 12 years attending rescues within earthquakes and aftermaths of Tsunamis; and has worked within the UK Security Industry, including head of an International US Corporate Company’s European HQ Security team during which period he studied a Masters Degree in ‘Security and Risk Management’. In the 80’s Garry was CEO of a UK Construction Company and of a regional Industrial Skills Training Company developing ‘the Modern Modular’ training format for the UK Government; and for 8 years was an Elected Member sitting on Provincial and Regional Council Authorities within the UK and an advisor for central government Ministerial Committees.

From front line Disaster Rescue, to Politics and Training and Security experience combined with front line Disaster Risk Reduction strategic planning within the UN and developing state of art technology Early Warning and Environmental solutions, Garry offers comprehensive ‘lateral’ experience to address many of today’s modern DRR challenges.



TIEMS International Education Program Course

Teacher & Trainer: *Garry de la Pomerai*

Title of Course: *Integration of Early Warning into DRR strategies, Early Warning Technology and Application*

Course content:

This course introduces the challenges of implementing new Early Warning technologies within society. The course will review scenarios and examples in which students/attendees are able to demonstrate and develop their knowledge and understanding of the challenges and potential solutions.

Topics Include:

- A review of our understanding of the term 'early warning'
- Identifying the differentials between times scales of real time early warning to prediction
- To address the 'perception' of risk within society and understand risk assessment methodologies
- To review natural disasters from which we can learn lessons
- Existing early warning systems, both technological and indigenous community systems
- Understanding complex disaster scenarios requiring advanced and real time warning mechanisms
- Introduce the social science challenges of implementing early warning systems into society
- How Governments need to learn how to receive Early Warning and Prediction information
- Protocols and SOPs within early warning information dissemination strategies
- Prioritisation of information dissemination with differing sectors of society
- Basic Sector requirements for receiving early warning information, from NDMAs, to Governments to critical infrastructure to schools, hospitals and communities
- Developing Strategies for installing early warning systems; where to start
- Integration between different early warning systems
- To review what requirements maybe applicable to the coarse delegates
- Incorporating Early Warning and Prediction science within a DRR strategy

Objectives:

- To understand early warning science, its objectives and potential consequences within society
- To realize the benefits of early warning systems and the challenges of poor implementation
- To understand the need for preparing communities and critical infrastructure and most importantly Administrations on how to receive and use early warning and reliable prediction information
- To learn about the initial stages of incorporating early warning technology in to a disaster reduction strategy, understanding the first steps of integration.
- To review the consequences of getting it wrong and understanding what makes a firm foundation for future early warning and prediction technology advancements
- To appreciate the need for a 'new approach' to drills and exercises within all sectors of society
- To address the multiple options for messaging, its dissemination and its responses within the various sectors of society through a table top exercise
- To understand evaluation processes of indentifying successful early warning systems, their gaps and how to enhance systems from community to NDMA.



TIEMS International Pool Teacher & Trainer Biography

Name: *Jaroslav Pejcoch.*

Position: *Chairman of the Board*

Organization: *T-SOFT a.s.
Novodvorska 1010/14
14200 Praha
Czech Republic*

Date of Birth: *9. 5. 1952*

Nationality: *Czech*

Mobile: *+420 603822104*

E-mail: [*pejcoch@tsoft.cz*](mailto:pejcoch@tsoft.cz)



Biography:

Jaroslav is a Chairman of the Board and co-founder of T-SOFT Company based in Prague, Czech Republic. After the graduation at the Czech Technical University, Faculty of Electronics in Prague (1975) he started to work at the Electronic Research institute Tesla VÚST - Division of Computer Graphics and Integrated Circuits Design. With the experience of software development and system architecture he progressed over years to the position of Director of IT Division (120 people). In 1991 he founded with several colleagues from the institute, the software company T-SOFT. From the beginning the company has specialized to system integration, especially in the area of security and crisis management. Nowadays the company (about 70 people) is an important player at the market of "mission-critical" systems in the Czech Republic and has also international activities.

Jaroslav is a Founding member of the international organization AFCEA Czech Chapter and member of the Board of Directors. He is also member of the Czech National Committee of ISDR. For many years Jaroslav has been active in TIEMS (The international Emergency Managers Society) working in the Board and currently he is elected as the Chair of TIEMS Advisory Board.

Jaroslav has a long track in the Crisis Management and Security, especially in the information technologies related to this area. His company designed and implemented several systems for crisis management decision support. A special focus has been taken to the education and preparation of crisis managers. Together with the universities, T-SOFT created a suite of products suitable to form a Crisis Management Classroom, to educate, train and exercise crisis managers. For example the modeling, resources management, monitoring and other tools are utilized in several universities.

Publication activities in areas of computer graphics, computer user interfaces, information and communication technologies, information logistic, systems for protection of citizens and environment, interoperability of systems, crisis management, critical infrastructure protection go together with the teaching, presentations and exercising. Jaroslav is married, has 4 children. His hobbies are Music (active piano player and composer), Mountaineering Photography.



TIEMS International Education Program Course

Teacher & Trainer: Jaroslav Pejcoch

Title of Course: *Disaster Modeling – Focus to Terrorist Attacks*

Course content:

The disasters of various kinds may cause a vast damage to the territory, economy and at the end to the social infrastructure of the society.”

With the rising complexity of infrastructure, interdependences, which might be not visible for the first glance, the disaster may be an initiator of further domino effect, which could be very costly or even fatal to the citizens.

For this lesson, we will put aside the natural disasters as floods, earthquakes, tsunamis or tornados, etc. and will concentrate to the potential risk, which is brought to our regions or cities by us, by people.

There are many risks associated to for example the chemical industry, transport of dangerous goods, gas pipelines, biological production... We have to take care of people and economy, not to allow to be damaged by the industrial accidents. There are many possible causes of various disasters and we cannot decrease the risk to the minimum.

So the proper answer to this is to build the preparedness to a potential crisis situation. We may model the probable consequences of such a disaster and plan for the activities necessary to minimize the loss.

In the course there will be presented a range of possibilities to model various situations with special focus to the man-made disasters caused by terrorist attacks.