

TIEMS INTERNATIONAL ITALIAN CONFERENCE 2015 FINAL PROGRAM

Rome, September 30 - October 2 2015
International Emergency Management and Disaster Response

TIEMS International Italy Conference, Rome, September 30-October 2 2015

PROGRAM DAY 1 – WEDNESDAY SEPTEMBER 30, 2015

WELCOME OPENINGS		
09:00–09:50	CHAIR: CARMELO DI MAURO, TIEMS ITALY CHAPTER Ing. Stefano Marsella, ISA Director High Representative of the National Fire Brigade Corp Mr. K. Harald Drager, TIEMS President Thomas Robertson, TIEMS Regional Director for North America	
09:50 – 13:00	<i>Morning Plenary Session</i> <i>Session 1</i> <i>Best practices in Civil protection</i> Chair: Dr. Mario Massimo Simonelli, ISPRA, Rome (Italy)	
09:50–10:30	Invited Speaker: Dr. Meen P. Chhetri (NCDM, Nepal), “Nepal earthquake aftermaths”	
10:30–11:10	Invited Speaker: Ing. Fabrizio Curcio (DPC, Italy), “The Italian Dept. of Civil Protection (DPC) and its role in the Emergency Management”	
11:10–11:40	COFFEE BREAK	
11:40–12:00	Invited Speaker: Dr. Kim, Jae-Kwon (Korean Society of Disaster & Security) Sewol Ferry Disaster and Emergency Response Management in Korea	
12:00–12:20	Invited Speaker: prof. John Hamilton (Kestrel Group, New Zealand) Emergency Management after the Christchurch earthquake (video interview by prof. Sonia Giovinazzi, University of Canterbury, NZ)	
12:20–12:40	Lessons Learned from Mass-fatalities Management Research	Kailash Gupta
12:40–13:00	The European Union Civil Protection Mechanism: challenges and possibilities	Claudia Morsut
13:00–14:20	LUNCH BREAK	

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14:20 – 16:00	<p>Afternoon Plenary Session Session 2 <i>New technologies, use of big data, collaborative approaches to sustain Emergency Management</i> Chair: Prof. Roberto Baldoni, University of Roma (Italy)</p>	
14:20–15:00	<p>Invited Speaker: Prof. Dirk Helbing (ETH Zurich, Switzerland), “How to Increase Systemic Resilience in an Information-Rich World”</p>	
15:00–15:20	<p>Advanced Procedures for volcanic and Seismic Monitoring: APhoRISM, an FP 7 “space” Project</p>	<p>S. Stramondo, C. Bignami, S. Corradini and L. Merucci</p>
15:20–15:40	<p>Information sharing in EM: theory and practice</p>	<p>Simona Cavallini</p>
15:40–16:00	<p>Site Location and Information Retrieval for Anti-terrorist Medical Rescue System Based on GIS</p>	<p>Haibin Meng, Jinghui Wei and Dongsheng Zhao.</p>
16:00–16:20	<p>COFFEE BREAK</p>	
16:20 – 18:00	<p>Afternoon Plenary Session</p>	
	<p style="text-align: center;">Session 3</p> <p style="text-align: center;"><i>Round Table: Lesson Learnt from the Nepal Earthquake event</i> Chair: Carmelo Di Mauro, President TIEMS IC</p> <p>Earthquakes are linked to the tectonic movement within the Earth. They are hardly predictable as difficult is to quantify strains and stresses of the tectonic plates and to identify the exact threshold beyond which an earthquake will occur. Furthermore, they can also trigger other natural hazards such as landslides, tsunamis and ground liquefaction. Although it would be wrong to claim that an earthquake event can be prevented, it would be possible and wise to be appropriately prepared for an earthquake and similar natural events. Starting from the lessons learnt from earthquake disasters recently occurred in Nepal, the Round Table aims to discuss how and what could be improved to reduce the impact and the consequences of these events. In particular, it aims at discussing the following issues that could contribute to improve Disaster Management:</p> <ul style="list-style-type: none"> • Forecasting, alert and warning systems • Strategic co-ordination, task prioritisation and role designation • Training and formation of all stakeholders • Allocation material and human resources • Inter-disciplinary collaboration • Inter-organisational collaboration and international co-operation • Communication strategies and dissemination of information to the public. <p>The Round Table will be based on contributions from experts active in the field of disaster management and Civil Protection:</p> <p>Prof. Dr. Meen B. Poudyal Chhetri – President, Nepal Centre for Disaster Management Dr. Guosheng Qu, Dep. General Team Leader of CISAR, China Dr. Kailash Gupta - Honorary Managing Trustee, TIEMS India Chapter Jaroslav Pejcoch, T-SOFT (Crisis management, Interoperability, Security), Czech Republic Prof. Carl W. Taylor, Fraser Institute for Health and Risks Analytics, Princeton Ing. Mauro Dolce , DPC, Italy</p>	
<p>Finish Day 1</p>		

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PROGRAM DAY 2 – THURSDAY OCTOBER 1, 2015

09:00 – 13:00	<p><i>Morning Parallel Sessions</i> <i>Session 4</i> <i>Risk Management of “new” classes of phenomena - I</i> Chair: Dr. Gregorio D’Agostino, ENEA and AIIC (Italy)</p>	
09:00–09:40	<p>Invited Speaker: Prof. Nicola Perra, University of Greenwich Business School, London. “Modeling and forecast of epidemic events”</p>	
09:40–10:00	<p>CRISMA-NH: Natural Hazards Impact Simulation and Decision Support System. A pilot application based on L’Aquila 2009 seismic crisis scenario</p>	<p>Giulio Zuccaro</p>
10:00–10:20	<p>GENERATE: Global Educational Network for Emergency Resilience And Training Excellence</p>	<p>Thomas Robertson</p>
10:20–10:40	<p>How to survive nuclear emergency; structuring local preparedness and further radiation protection based on hands-on measurements.</p>	<p>Yukako Komasa</p>
10:40–11:00	<p>GDACSmobile - An IT Tool Supporting Assessments for Humanitarian Logistics</p>	<p>Daniel Link</p>
11:00–11:20	<p>COFFEE BREAK</p>	
11:20–11:40	<p>Relationship between vision and reality in public perception of safety structures: the role of seismic simulators</p>	<p>Vasile Meita</p>
11:40–12:00	<p>Landslide risk: recent developments for the emergency management</p>	<p>Francesco Castelli</p>
12:00–12:20	<p>EMERCOM web-based system for earthquake loss estimation in emergency mode</p>	<p>Nina Frolova</p>
12:20–12:40	<p>Risks and Vulnerabilities under multi-hazards threats in a protected area of Bucharest</p>	<p>Emil-Sever Georgescu</p>
12:40–13:00	<p>Public space and seismic risk in Mexico City: a broken relationship?</p>	<p>Milton M. Castillo</p>
13:00–14:00	<p>LUNCH BREAK</p>	

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09:00–13:00	Session 5 <i>Risk Management of “new” classes of phenomena - II</i> Chair: Prof. David Alexander, University College London (UK)	
09:40–10:00	Data-Driven Criticality Maps of Urban Street Networks	Pierpaolo Mastroianni
10:00–10:20	Smart crowds in crisis situations: risks and opportunities	Havlik Havlik
10:20–10:40	Demonstrating a Community-based Disaster Risk Reduction Technology Sharing Platform	Young-Jai Lee
10:40–11:00	Emergency Management with Interdependency Modeling in the URANIUM project	Dario Masucci
11:00–11:20	COFFEE BREAK	
11:20–11:40	RISING: Radio Frequency Identification and inertial navigation for indoor localization in emergency management and building maintenance	Francesca De Cillis
11:40–12:00	Crisis Scorecard: a systemic tool for crisis management	Josè M. Sarriegi
12:00–12:15	Analysis of energy consumption by sensor nodes during localization in emergency management sensor networks	Dhyanesh Ramamoorthy
12:15–12:30	How To Understand Extreme Risk- Beyond Hazard, Vulnerability Assessments	Carl W. Taylor
12:30–12:45	Analysis of fatalities originated by burning of agricultural and forestry residue in Portugal	Ricardo Oliveira
12:45-13:00	Interoperability of National Fire Services Control Rooms	Guido Parisi
13:00–14:00	LUNCH BREAK	

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Afternoon Parallel Sessions Session 6 <i>Preparedness and Resilience enhancement in growing metropolitan areas: are "smart cities" coping with these issues?</i> Chair: Dr. Alessandro Coppola, Resilience Manager of Roma Capital (Italy)		
14:00 – 18:40		
14:00–15:40	Invited Speaker: Dr. Daniel Stevens, Director of Emergency Management at City of Vancouver (Canada) Emergency Management and Resilience in the metropolitan area of Vancouver	
14:40–14:50	City reporter for resilient Smart Cities: a crowdmapping mobile platform of urban asset problems	Roberto Gueli
14:50–15:00	Common Alerting Protocol: how to leverage semantic reasoning for improving its effectiveness	Roberto Gueli
15:00–15:20	A single platform approach for the management of emergency in complex environments such as large events, digital cities and networked regions.	Giorgio Mosca
15:20–15:40	Inter-organizational Lessons Learned: Perspectives and Challenges	Dennis Andersson
15:40–16:40	COFFEE BREAK WITH TIEMS AGM	
16:40–16:55	Emergency Management Public Management Networks: Case Analysis of the Florida State Emergency Response Team	Tanya Shannon
16:55–16:10	Towards the Next Generation Training System for Crisis Management	Jiinquan Xie
17:10–17:25	Community Participatory Mapping and Advanced Safety Improvement Project of Korea	Sosoon Park
17:25–17:40	Resilience of Critical Infrastructures: benefits and challenges from emerging practices and programmes at local level	Boris Petrenj
17:40–17:55	Man-made Disasters: Terrorism in Iraq and Implications for disaster management	Shakir Katea
17:55–18:10	What you really need to be prepared?	Jaroslav Pejcoch
18:10 -18:40	QUESTIONS and ANSWERS Session	Dr. Alessandro Coppola

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<p>14:40–15:40</p>	<p align="center">Afternoon Parallel Sessions Session 7 <i>Decision Support Systems for Risk Management - I</i> Chair: Dr. Sandro Bologna, TIEMS IC (Italy)</p>	
<p>14:40–14:55</p>	<p>Supporting Decision Makers in Crisis Management Involving Interdependent Critical Infrastructures</p>	<p>Antonio Di Pietro</p>
<p>14:55–15:10</p>	<p>Knowledge sharing in police forces: a resource for emergency management.</p>	<p>Pietro Costanzo</p>
<p>15:10–15:25</p>	<p>Development of a Risk Assessment Model for Disaster Management</p>	<p>Hyunjung Kim</p>
<p>15:25–15:40</p>	<p>Improving Critical Infrastructure Resilience through Scheduling of Firefighting Resources</p>	<p>K. Alutaibi, A. Alsubaie and J. Martí</p>
<p>15:40–16:40</p>	<p align="center">COFFEE BREAK WITH TIEMS AGM</p>	
<p>16:40–18:40</p>	<p align="center">Afternoon Parallel Sessions Session 8 Pan EU lesson sharing crisis management: DRIVER Project Organization: Dennis Andersson (FOI), Josine van de Ven (TNO), Maciej Szulejewski (ITTI) <i>The DRIVER (Driving Innovation in Crisis Management for European Resilience) project aims to enhance European resilience in the face of major crisis situations and to facilitate sustainable innovation in crisis management. A part of the project looks into new ways for European Member states to learn with and from each other. Sharing lessons learned is a way to do this. Our focus is on methods to identify lessons that are valuable to organisations in other sectors and nations. Within DRIVER evolved learning we aim at improving organisational resilience through cross-border, cross-sector, cross-phase (X-BSP) sharing of tactical and operational mission experience. Our goal is to propose a systematic solution to identify, collect, analyse, adapt, generalise, and store observations and lessons learned for X-BSP sharing. Specific emphasis is put on generalisation of such lessons to support learning with and from each other; other organisations, other risks and other emergency management system instances. The workshop participants are invited to share their personal experiences from crisis management, and lessons drawn from such experience. The objectives of the workshop are to stimulate lesson sharing, to identify how such lessons can be transferred to other organisations, and to identify what types of methods and tools can support such initiatives. If you have any practical lessons drawn from crisis management experience that you are willing to share, please join in on our effort to build and connect with knowledge sharing pan-European crisis management communities. The workshop is meant to share ideas and expertise within the European community in an effort to connect platforms for increased knowledge sharing.</i></p> <ul style="list-style-type: none"> - Introduction to DRIVER and invitation to join the DRIVER community - Introduction to the DRIVER Lessons Learned Framework and workshop objectives - Presentations: Invited speakers on lessons from emergency management - Presentation: Introduction to lesson generalisation, sharing, and adaptation - Work session: Open discussion on prerequisites for X-BSP lesson sharing - Wrap-up and invitation for Pan-European lesson sharing community 	
<p align="center">Finish Day 2</p>		

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PROGRAM DAY 3 – FRIDAY OCTOBER 2, 2015

10:00 – 12:40	<i>Morning Parallel Sessions</i> <i>Session 9</i> <i>New approaches and methods for Emergency Management - I</i> Chair: Prof. Paolo Trucco, Politecnico di Milano (Italy)	
09:00–09:40	Invited Speaker: Dr. David Bamaung, Scottish Government (Scotland, UK),	
09:40–10:00	Invited Speaker: Dr. Elisabeth Kraussman, JRC Ispra	
10:00–10:15	The Smart Mature Resilience Project for Resilience Management Guideline	Josè M. Serriegi
10:15–10:30	Taxonomy for disaster response: a methodological approach	Snjeziana Knezic
10:30–10:45	Comprehensive Approach to Complex Emergencies	Lilian K. Stene
10:45–11:00	Integrated Open Service Platform for Enhanced Risk and Emergency Management: the PHAROS Solution	Javier M. Chaves
11:00–11:20	COFFEE BREAK	
11:20–11:35	Less is more - Some cautions regarding mindless ICT use in emergency management	Jonas Borell and Emilie Stroh
11:35–11:50	Interactive virtual world models for crisis preparedness – better than the real thing?	Havlik Havlik
11:50–12:05	Implementation of the Canadian Emergency Department Triage and Acuity Scale (CTAS) in an Urgent Care Center in Saudi Arabia	Abdullah Arafat
12:05–12:20	Assessing the Value of Early Warning Apps for Disaster Cost Reduction - A Framework to Facilitate Investment Decisions to Protect Private Property	Simone Wurster
12:20–12:35	Low pressure water mist fire fighting systems - The alternative to traditional systems	Ilenia Manassero

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10:00–12:40	Session 10 <i>New approaches and methods for Emergency Management - II</i> Chair: Dr. Meen P. Chhetri	
10:00–10:15	Application of I2SIM system of systems simulator for (inter)dependency analysis in large scenario	Alberto Tofani
10:15–10:30	A Study on Disaster Response Terminologies Mind Map by SN Analysis	Seongkyung Kang
10:30–10:45	Threat modeling for CPS-based critical infrastructure protection	Jianguo Ding
10:45–11:00	Strategy research of city infrastructure vulnerability appraisal and slow-down adaptation due to climatic change	Lianhui Wang
11:00–11:20	COFFEE BREAK	
11:20–11:35	Developing flood disaster management system using BIM Technology (Case study at Uijeongbu city, Korea to dealing with reservoir break)	Changsang Jeong
11:35–11:50	Flood by design: challenges with governance of disaster risk in Liguria, Italy.	Massimo Lanfranco
	<i>FP7 EDEN project demonstrations as example of Collaborative Crisis Management (CCM) approach</i>	Massimo Lanfranco
11:50–12:05	Timeliness objective function construction method of pump scheduling in mine water disaster	Jialian Li
12:05–12:20	Study on the method of the hazardous chemical security risk early warning	Qidong Yong
12:20–12:35	Analysis of fatalities originated by burning of agricultural and forestry residue in Portugal	Ricardo Oliveira
12:40–13:00	CONCLUDING REMARKS	
Finish Day 3		



Presentation of Keynote Speaker Alessandro Vespignani

Name: Alessandro Vespignani
Position: Northeastern University, Boston

Prof. Alessandro Vespignani received his undergraduate degree and Ph.D., both in physics and both from the University of Rome "La Sapienza," in 1990 and 1994 respectively. He completed his postdoctoral research at Yale University and Leiden University. Prof. Vespignani worked at the International Center for Theoretical Physics (UNESCO) in Trieste and at the University of Paris-Sud in France as a member of the National Council for Scientific Research (CNRS) before moving to Indiana University in 2004. Before joining Northeastern University, Vespignani was J.H.Rudy Professor of Informatics and Computing at Indiana University and serving as the Director of the Center for Complex Networks and Systems Research and the Associate Director of the Pervasive Technology Institute. Vespignani is elected fellow of the American Physical Society, member of the Academy of Europe, and fellow of the Institute for Quantitative Social Sciences at Harvard University. He is serving in the board/leadership of a variety of professional association and journals and the Institute for Scientific Interchange Foundation.



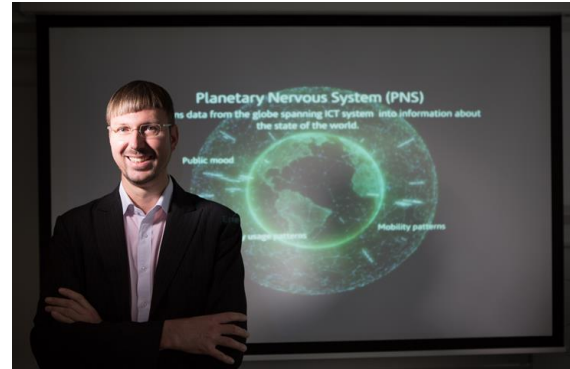
Vespignani has worked in a number of areas of non-equilibrium particle systems, statistical physics and computational sciences, including characterization of non-equilibrium phase transitions, fractal growth and self-organized criticality. Recently Vespignani's research activity focuses on the interdisciplinary application of statistical and numerical simulation methods in the analysis of epidemic and spreading phenomena and the study of biological, social and technological networks. For several years he has been working on the characterization and modeling of the Internet, the WWW and large-scale information networks. He is now focusing his research activity in modeling the spatial spread of epidemics, including the realistic and data-driven computational modeling of emerging infectious diseases, the resilience of complex networks and the behavior of techno-social systems.

Vespignani has published 140+ peer reviewed papers in top rated scientific journals, including Nature, Science and PNAS that have accrued more than 29,000 citations according to the Google Scholar database. He is author, together with Romualdo Pastor-Satorras, of the book Evolution and Structure of the Internet. Together with Alain Barrat and Marc Barthelemy he has published in 2008 the monograph Dynamical Processes on Complex Networks.



Presentation of Keynote Speaker Dirk Helping

Name: Dirk Helping
Position: ETH Zurich



Dirk Helbing is Professor of Sociology, in particular of Modeling and Simulation, at Department of Humanities, Social and Political Sciences and and affiliate of the Department of Computer Science at ETH Zurich. He earned a PhD in physics and was Managing Director of the Institute of Transport & Economics at Dresden University of Technology in Germany. He is internationally known for his work on pedestrian crowds, vehicle traffic, and agent-based models of social systems. Furthermore, he coordinates the FuturICT Initiative (www.futurict.eu) which focuses on the understanding of techno-socioeconomic systems, using Smart Data. His work is documented by hundreds of scientific articles, keynote lectures and media reports worldwide. Helbing is member of the prestigious German Academy of Sciences "Leopoldina" and of the Leopoldina standing committee for digitalization. He was an elected member of the World Economic Forum's Global Agenda Council on Complex Systems. He is also Co-Chairman of the Physics of Socio-Economic Systems Division of the German Physical Society and co-founder of ETH Zurich's Risk Center. In 2013, he became a board member of the Global Brain Institute in Brussels. Within the ERC Advanced Investigator Grant "Momentum" he works on social simulations based on cognitive agents. His recent publication in Nature discusses globally networked risks and how to respond. With a publication in Science, he furthermore contributed to unveiling the hidden laws of global epidemic spreading. In January 2014, he received an honorary PhD from the TU Delft jointly from the Faculty of Technology, Policy and Management and the Faculty of Civil Engineering and Geosciences.



Presentation of Keynote Speaker James Urquhart

Name: James Urquhart
Position: Scottish Government Critical Infrastructure Resilience Unit (CIRU)

James Urquhart is Head of the Scottish Government Critical Infrastructure Resilience Unit (CIRU), which is part of the wider Resilience Division of Scottish Government.

Prior to joining Scottish Government, James enjoyed a 30 year Police career with Grampian Police in the North East of Scotland. During his Police Career, James was involved in both operational and departmental policing in various roles across the Grampian Police area. He rose through the ranks from Constable to Superintendent and has been recognised as a national specialist on Critical National Infrastructure security and resilience within Scotland and indeed across the UK.

From 2002 – 2004, as Chief Inspector within the Force Operational Planning Department, James had specific responsibility for counter terrorism protective security at on-shore energy CNI assets and the policing of all off-shore oil and gas installations in Scottish Waters.

In 2004, James was promoted to Superintendent and Head of the Force Operational Planning Department. In this role, James had responsibility for overseeing Counter Terrorism Protective Security, Critical National Infrastructure Resilience, the policing of all Offshore Oil and Gas Installations in Scottish Waters, Royalty and VIP Protection and Force Emergency Planning.

Throughout the period 2003 – 2009, within the Force Operational Planning Department, James was responsible for all aspects of multi-agency planning and response around the numerous Energy CNI assets in Grampian. He was engaged at local, Scottish and UK Government level in terms of strategic planning and policy development in relation to these sites – in 2007, this involved overseeing the deployment of armed policing at two of these sites – this was a complex operation, which has operated successfully for the past 4 years. In May 2009, James was approached by Scottish Government and invited to take on the role of Scottish CNI Programme Manager, in order to develop a strategy for CNI in Scotland and to build partnerships and a performance framework to ensure delivery of the strategy. He is now leading the development of national strategy and policy concerning Critical National Infrastructure (CNI) in Scotland. This involved the development of the first ever CNI Strategy in the UK ('Secure and Resilient' – A Strategic Framework for CNI in Scotland), the creation of national and local CNI partnerships and the development of a performance framework to coordinate multi agency and multi level CNI activity to enhance the security and resilience of CNI in Scotland.

In December 2012, James was appointed as Head of the Scottish Government Critical Infrastructure Resilience Unit (CIRU). He leads a small team of eight specialists, who are responsible for the delivery of an ambitious programme of critical infrastructure resilience (CIR) across all of the Critical Sectors in Scotland. James is also a key member of the emerging CIR International Network (CIRINT.NET), with Scotland, Holland and Italy currently leading on the development of local and regional CIR approaches in Europe (Project MiRACLE).

James is a Graduate of Aberdeen University where he studied Law (1993). He is also a Graduate of the North Atlantic Leadership in Counter Terrorism Programme (LinCT) (2005).





Presentation of Keynote Speaker Meen Poudyal Chhetri

Name: Meen Poudyal Chhetri
Position: Nepal Center for Disaster Management (NCDM)

Dr. Meen Poudyal Chhetri is the President of Nepal Center for Disaster Management (NCDM), Chairman of Paper Review Committee of The International Emergency Management Society (TIEMS), Vice-Chairman of Himalaya Conservation Group-Nepal and Vice-Chairman of Nepal Association of Humphrey Fellows. He is also the Adjunct Professor at the Queensland University of Technology, Brisbane, Australia from 1 March 2009. He served as the Director of the Department of Disaster Management of the Government of Nepal from 2001 to 2003. In 2004 He worked as the Deputy Regional Administrator in Hetauda, Nepal. From 1995 to 1996, he was the Chief District Officer and Chairman of District Disaster Relief Committee in Dhading district of Nepal. Dr. Chhetri also held positions of Under Secretary, Investigation Officer and Special Officer in various government agencies of Nepal including the Commission for the Investigation of Abuse of Authority, Ministry of Home Affairs, Ministry of Finance, Ministry of Agriculture and Ministry of Education. He was the member of the Drafting Committee of the Disaster Management Bill and Disaster Management Policy of Nepal in 2007.



Dr. Chhetri was awarded with Australia Alumni Excellence Awards 2014 on 20 January 2014. He was also awarded with the "Best Paper Award" in October 2013 in Velaux, France. He is decorated with various prestigious medals like: Janpad Sewa Padak 1991, Mahendra Vidhya Bhusan Padak, 1996, Prabal Gorkha Dakshin Bahu, 1998, Gaddi Arohan Rajat Padak, 2001, Daibi Prakopoddar Padak, 1998, 1999, 2000 and 2001.

Dr. Chhetri authored two books namely; "Mitigation and Management of Floods in Nepal" and "Analysis of Nepalese Agriculture." He has published a number of articles in national and international journals.

Dr. Chhetri completed Post Doctorate (Post Doc.) Research Study on "Disaster Risk Reduction: Policy Implications for Nepal, Australia and Beyond" from the Queensland University of Technology (QUT), Brisbane, Australia in 2011 where he also attended the Pandemic Disaster Preparedness Training Course from August 24 to November 29, 2008. Dr. Chhetri earned his doctorate degree in Economics from the University of Vienna, Austria in 1995. He also holds an MA and Law degree. He carried out Drug Abuse Research Study at the Johns Hopkins University, Baltimore, U.S.A. from 2002 to 2003.

Dr. Chhetri worked as the consultant and resource person in a number of projects and programs related to disaster risk reduction in Nepal. He has significantly contributed in formulating and implementing disaster management policy and legislation in Nepal.

In a nutshell -- Nepal earthquake has left very important lessons and messages to learn and analyse which we can use to save a number of precious human lives and huge amount of physical properties in the days to come. The biggest lesson we have learnt is that local communities and people are the major player and very very important factors during such a huge disaster particularly in remote, rural and hilly areas where the government machinery and aid agencies cannot reach on time. For this reason we have to make aware, train and equip each and every community to cope with such disasters. TIEMS can play pivotal role to disseminate those lessons and findings to the world communities.



Presentation of Keynote Speaker Kim Jae-Kwon

Name: Kim Jae-Kwon
Position: President of TIEMS Korean Chapter and Chairman of Korean Society of Disaster & Security



Dr. Kim, Jae-Kwon is currently a chairman of the Korean Society of Disaster & Security and president of TIEMS Korean Chapter. Before Dr. Kim joined as CEO of Yongin Rapid Transit Co., Ltd, he worked for Doosan Engineering & Construction as vice president, Samsung C&T (Engineering & Construction Group) as executive director, and Dong Ah Construction as general manager in Korea. He received his Ph.D. and Masters degree in civil engineering from Yonsei University. Dr. Kim serves various professional committees such as the Korean Professional Engineer Association, the Korean Arbitrators Association, and the Korean Society of Civil Engineers.

Workshop Keynote: Sewol Ferry Disaster and Emergency Response Management in Korea

On April 16, 2014 8:48 AM, a Korean Ferry called Sewol sank. Out of the 476 people who boarded the ferry, 172 were rescued and 304 were killed. At the time of the accident the emergency process and the problem is analyzed and after the accident the emergency process is expected to change. In South Korea, the Sewol accident brought a big change to the emergency system and emergency organizations. The Sewol Ferry Tragedy brought huge change to the emergency management system and organizational structure of Korea. The Ministry of Public Safety and Security was established on November 19, 2014 to create a prompt, comprehensive system, to cope with disasters and safety problems by building a systematic disasters and safety management system. So, I would like to introduce the new disaster and safety management system of Korean and our activities of TIEMS Korea Chapter at the conference.





Presentation of Keynote Speaker Daniel Stevens

Name: Daniel Stevens
Position: Director of Emergency Management, City of Vancouver

Daniel Stevens is the Director of Emergency Management for the City of Vancouver and has contributed to emergency management at the City since 2006. He has worked on a wide range of initiatives, including development of emergency plans, hazard risk assessments, emergency operations centre redesign, and emergency management information system implementation. While at the City, he has also been involved in the development of volunteer programs, public education campaigns, and special event public safety planning.



Mr. Stevens has held senior positions in the Vancouver Emergency Operations Centre during large planned events and emergencies, such as the 2010 Winter Olympic Games, the 2011 Stanley Cup riot, chemical fires and he most recently represented the City of Vancouver in Unified Command for the MV Marathassa oil spill (2015). In 2011, Daniel was deployed to Christchurch, New Zealand in support of the February 22, 2011 earthquake where he assisted the development of business access programs in the emergency operations centre.

Before joining the City of Vancouver, Daniel consulted for various public and private sector clients on emergency management related projects. He has also volunteered in the emergency management field in a number of capacities, including as a board member of the British Columbia Association of Emergency Management.

Daniel holds an Honours Bachelor of Arts degree (Geography) from the University of Toronto and a Master of Science degree (Geography, Geographic Information Systems) from Simon Fraser University in Vancouver.
