



THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY - TIEMS

Proceedings of the International Emergency Management Society
(TIEMS)

25th TIEMS Anniversary (1993 – 2018) Conference

***DISASTER RISK REDUCTION AND CLIMATE
CHANGE MITIGATION
Plans, Preparation, & Collaborative Strategies***

Edited by: Snjezana Knezic, Meen Bahadur Poudyal Chhetri

Manila, Philippines, November 13 - 16, 2018

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**November 13 - 16, 2018
Manila, Philippines**

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Executive Office Postal Address is: Østvangveien 29, 0588 Oslo, Norway

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Designed by TIEMS

Preface

Dear TIEMS Colleagues,

On behalf of the University of Santo Tomas College of Nursing (USTCN), it gives us the greatest honor and pleasure to invite you to attend the 2018 The International Emergency Management Society (TIEMS) Annual Conference to be held in Manila, Philippines at the University of Santo Tomas (UST), Thomasian Alumni Center, Buenaventura Garcia Paredes, O.P. Building from November 14-16, 2018. A pre-conference on Disaster Risk Reduction and Climate Change Mitigation, sponsored by USTCN will be held at the UST College of Medicine Auditorium on November 13, 2018. We are very excited to be hosting this great conference on “Disaster Risk Reduction and Climate Change Mitigation: Plans, Preparation & Collaborative Strategies.” We hope to follow the successful footsteps of the TIEMS conferences in San Diego, California in 2016 and Kiev, Ukraine in 2017.

K. Harald Drager, TIEMS President has developed a vigorous TIEMS Local and International Organizing Committees consisting of outstanding USTCN International Relations Team and TIEMS Board members from Norway, China, USA, Croatia, Czech Republic, South Korea, Italy, Iraq, France, Australia, Canada, Japan, Russia, Philippines, UK, Argentina and Nepal. The TIEMS program committee is planning an excellent spectrum of topics ranging from disaster risk reduction platform, climate change, earthquake, TQC certification, technical sessions, to World Bank global study on civil protection.

The members of the TIEMS organizing committee in Manila are very proud and privileged to be hosting the 2018 TIEMS Annual Conference and look forward to welcoming you to our city and country. The Philippines is one of the largest English speaking countries in the world. It has a rich history combining Asian, European, and American influences. The Philippines is a vibrant place with hospitable people throughout 7,500 to 7641 islands depending on it's high or low tides.

Please save the date for the 2018 TIEMS Conference on November 13-16, 2018, so you may network with your colleagues in what we hope to be a fabulous conference.

Sincerely,

Angeli Medina, MPA, RN, CHPCP, CBCP, CEN
TIEMS Philippines Chapter

Foreword from TIEMS President

In a time of increasing number and severity of disasters, global cooperation and coordination are more vital than ever before. By working together and sharing of experiences and exchange of views among the experts of different countries we can learn from each other to develop better methods and systems and advocate for better policies in emergency and disaster management, to be standardized and implemented all over the world. TIEMS conferences and workshops worldwide are such platforms where all stakeholders can meet and exchange experiences and views and focus on different global and local important topics and issues in emergency and crisis management. TIEMS 2018 Annual Conference in Manila, Philippines, is also TIEMS 25th Anniversary, and since I have been with the organization since its establishment in Washington DC. In 1993, it is with great pleasure to observe that TIEMS has grown to a “mature” worldwide recognized organization. The 2018 Annual conference is focusing on local and international important issues in emergency management and crisis response. This should form a good meeting place between the locals and international experts, and give all the opportunity to learn from each other and exchange experiences and find better solutions, which can improve local and international preparedness for disastrous events.

A warm welcome from the President of the Philippines is an encouraging support of TIEMS work worldwide, and TIEMS local organizing committee in Manila is the host of this conference. The members of this committee; Angeli Medina, Elizabeth D. Cortez, Judith G. Dolot, Jaime Almora, Genecar Pe Benito and Kathleen Chan have done an excellent job with preparing the conference, and I like to thank them all for the commitment and dedication to make an excellent conference. This year's TIEMS conference is a joint conference with the third UST Conference on Disaster Risk Reduction and Climate Change, and take place at University of Santo Tomas in Manila. Both international and local presentations of high quality form up a comprehensive program comprising 4 workshops and 50 oral presentations, and the event is quite international with contributions of speakers from 15 countries. A guided tour to the Office of Civil Defense – Disaster Risk Reduction Management Council after the technical program should also be something of high interest to all delegates. The above technical program integrated with relaxing social events, showing Philippines culture on its best, will certainly make the 4 days at the joint USTCN & TIEMS 2018 annual conference in Manila a memorable event.

The papers will be included in TIEMS 2018 Annual Conference Proceedings, and full papers will be peer reviewed and published in an international recognized journal. Many thanks go to Meen Chhetri, Chair of TIEMS Paper Review Committee, for reviewing all papers and giving good advice to the authors, seeing to it that all papers are of high quality. Many thanks also goes to Snjezana Knezic for putting together the conference proceedings together with Meen Chhetri. Also great thanks go to the conference program committee and the volunteers, as well as welcome and keynote speakers and exhibitors. We have 4 Chinese company sponsors for the conference, which with their generous sponsorship has made this conference possible. It has been great to work with such a professional and dedicated team of professionals. I welcome all participants to the joint USTCN & TIEMS 2018 Annual Conference in Manila, Philippines, 13 - 16 November 2018.

Oslo 19th October 2018

K. Harald Drager

Conference Chair

Kåre Harald DRAGER, Professor, President of The International Emergency Management Society TIEMS (Norway)

Conference Co-chair

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- Dr. Jaime Almora, Founder, Almora General Hospital, BOD, PHA
- Asst. Prof. Genecar Pe Benito, MAN, RN, International Relations and Programs, UST College of Nursing

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