



TIEMS PRESIDENT 2017 ANNUAL REPORT



THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY - TIEMS



SUMMARY OF the TIEMS YEAR 2016 BY the TIEMS President

The World at Risk

It is important to put the work we do in TIEMS into a perspective, and therefore this summary starts with a brief overview of the world risk and cost of disasters.

During 1995-2015, weather-related disasters accounted worldwide for 90% of major disasters, 71% of total losses, and 606 000 lives lost. Climate Change is expected to increase the frequency and consequences of such events. Between 2010 and 2050 the number of people over 65 in less developed countries is expected to increase more than 250 percent. By 2050, 66% of the world's population will reside in cities. 80% of the ten largest cities are at risk of being severely affected by an earthquake, and 60% are vulnerable to storm surge and tsunami waves. Vulnerability introduced by local conditions such as poverty, government corruption, poorly planned development, and environmental degradation is adding to the risk.

The Cost of Disasters

In the 10 years since Hurricane Katrina, the world has seen an annual average of 260 major natural disasters, with average annual economic losses of US\$ 211 billion, insured losses of US\$ 63 billion, and 76 000 lives lost. In 2014, 72 percent of global disaster losses were caused by extreme weather events. In 2015 the devastating Nepal earthquake resulted in close to 9000 lives lost alone. These figures do not include any of the many smaller-scale floods, storms, earthquakes and other localized disasters

Terrorism's New Approach

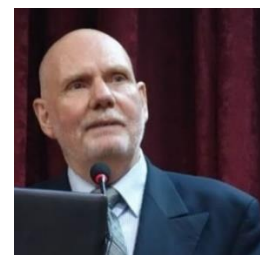
Adding to above figures are, however, what we have seen recently, that terrorists are changing their approach by using vehicles and knives to hurt the general public, and trying to create chaos, with reference to the sad examples from Nice, Stockholm, London, etc. These events are far more difficult to protect against, and they bring a new dimension to disaster preparedness. We want to live our lives as before, but we may have to increase

our own alert level, when we visit cities and attend events. My recommendation is to put more emphasize on self-preparedness and awareness, and not expect that someone is always there to protect and rescue us. We are ourselves the "first responders".

TIEMS 2016 Events

TIEMS has continued to focus on contributing to the creation of resilient societies worldwide, and it is hoped that TIEMS events and activities in 2016 have been helpful in this respect.

The TIEMS 2016 Annual Conference took place in San Diego, USA, 13 - 15 September 2016, with the main topic: ***Innovation and Urban Planning for Emergency Resilience in Large Cities***. It was a broad and varied program with excellent speakers and workshops resulting in active and meaningful discussions and conclusions. An integrated social program gave a good framework for excellent networking during the conference. The summary of the conference is found below, reported by the host of the conference, Thomas Robertson, who is TIEMS Regional Director for North America.



Oslo 17th September 2017
K. Harald Drager, TIEMS President

This was the first time TIEMS streamed a TIEMS conference program on-line, thanks to George Markowsky. He will also be TIEMS responsible host for TIEMS USA Chapter 2017 Annual Conference in Maine, USA.

The conference presentations and discussions will be put on-line on YouTube, and we will announce when they are available on the TIEMS web-site.

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The City of San Diego Office of Homeland Security was the co-organizer with TIEMS for the conference, and many thanks goes to John Valencia and his colleagues for all their help in preparations and announcement of the conference, and providing the San Diego Library for the event.

On the last day of the conference the delegates were invited on a tour to visit San Diego State University (SDSU), where Professor Dr. Eric Frost gave an inspiring lecture on their work at their Visualization Center. His students also helped as volunteers during the conference. I would like to thank both Eric Frost and his students; TIEMS looks forward to further cooperate in the future with SDSU.

This was the TIEMS 23rd Annual Conference, and Thomas Robertson and his wife Linda Lee's preparations and hard work, supported and helped by the TIEMS USA Chapter Board, was instrumental in making the conference a great success. Thank you!

TIEMS believes that one way to improve disaster preparedness and reduce the consequences of disasters, is to recognize and stimulate those who do excellent work within the emergency and disaster management community. TIEMS has therefore instituted some awards, which are granted during the TIEMS Annual Conferences. I would like to congratulate the winners of the TIEMS awards for 2015 - 2016, which are all listed in the conclusions of the conference below. I would also like to thank the TIEMS China and Korea Chapters and the International Equipment Center in Hangzhou for their generous donations to TIEMS to support the TIEMS awards and the 2016 annual conference.

TIEMS First Conference in Ukraine

This conference was arranged in Kyiv 12 - 13 October 2016, as the 2nd International TIEMS DCEM Conference and The 2nd Secure Society Conference Ukraine, SOSECUKR. This event was run as a round table discussion raising issues, challenges, changes and responsibilities associated with building a modern secure society in accordance with

European standards. It was open to all experts across the full spectrum of political sciences, economics, social sciences, diplomatic corps, security and safety engineering, applied IT and geo-information. The goal was to help policy- and decision-makers become aware of potential sustainable security solutions.

TIEMS Emergency Medicine Committee (TEMC) 2016 Conference

This conference was arranged in Changsha, China, 15 - 16 October 2016.

The conference main forum was followed by the four sub-forums for Hospital Presidents, Oncologists, Cardiologists, and Clinical Lab workers. Nearly all participants in the four sub-forums had previously taken part in training programs jointly organized by TEMC and Harvard Medical School. A full report is found below.

TIEMS Korea Chapter 2016 Annual Conference

The TIEMS Korea Chapter 2016 Annual Conference, entitled "Performance of the Public Safety and Future Assignments", was held by the Ministry of Public Safety and Security, the Ministry of Trade, Industry and Energy, and the Gyeonggi Province.

The objectives of the conference were to promote the growth of national interest in safety and security, and to create an ecosystem within the safety industry for a safer society. It was held on 16 November 2016 as part of the 2nd K-Safety Expo 2016 from 16 November to 18 November 2016.

The 7th Annual Conference of the TIEMS China Chapter

From November 3rd to 4th 2016, the 7th annual Conference of the International Emergency Management Society (TIEMS) China Chapter was jointly held in Zhuhai by the TIEMS China Chapter, the China Emergency Rescue Equipment Industry Technology Innovation Strategic Alliance, the Guangdong Provincial

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Government EMO and the Zhuhai Government.

The conference was one of the important activities of the 11th China International Aviation and Aerospace Exhibition (hereinafter referred to as "Zhuhai Airshow"). The conference focused on China's "Silk Road Economic Belt and the 21st Century Maritime Silk Road" and military-civilian integration strategy, which extended and enriched the aerospace and defence theme of the Zhuhai Air Show, making it a highlight of the Air Show.

The Annual Conference was co-sponsored by the China Academy of Safety Science and Technology, the Tsinghua University School of Public Administration, Beijing Harmony Technologies Co., Ltd. and other units.

TIEMS 2017 Events

TIEMS worldwide events are important meeting points for networking, and an extensive event program is planned for 2017.

TIEMS 2017 Annual Conference will be held in Kyiv, Ukraine, 4 - 6 December, with the TIEMS Ukraine Chapter as host, with President Andre Samberg leading his team. The announcement is found below. The TIEMS USA Chapter will continue with their local annual conferences, in order to further develop and grow the TIEMS USA Chapter. The 2017 USA Chapter Annual Conference will be arranged June 12 - 16, 2017, at the University of Maine, Orono, Maine, USA, with Professor Dr. George Markowsky as the TIEMS host

TIEMS plans twelve events in seven countries in 2017. Below is the full calendar of 2017 events:

10 February:

- TIEMS India Chapter Workshop in New Delhi, India

26 May:

- TIEMS Ukraine Chapter Workshop in Kyiv, Ukraine

12 - 16 June:

- TIEMS USA Chapter Conference in Orono, Maine, USA

28 - 30 June:

- Co-organizer of the 7th China International Fire Safety Exhibition in Guangzhou, China

July:

- TIEMS Japan Chapter Public Conference in Tokyo, Japan

October:

- TIEMS Iraq Chapter Conference in Erbil, Iraq

9 - 11 November:

- Co-organizer of China Southeast Asia & South Asia Fire Safety and Emergency Rescue Technology Expo, Kunming, China

11 - 12 November:

- TIEMS Emergency Medical Committee (TEMC) Annual Conference with the 6th Harvard Medical School BIDMC China Program Forum, Nanjing, China

13 - 15 November:

- TIEMS China Chapter Annual Conference in Chengdu, China

15 - 16 November:

- TIEMS Korea Annual Conference in, Ilsan, Gyeonggi-do, Korea

4 - 6 December

- TIEMS 2017 Annual Conference in Kyiv, Ukraine.

TIEMS Chapters

Chapters provide a regional focus for TIEMS activities. This is important because every region has unique circumstances and challenges, so there is no planning process that applies everywhere.

Currently at mid-2017, TIEMS has chapters in the following countries/regions:

Belgium/Netherlands/Luxembourg, China, Finland, India, Iraq, Italy, Japan, Korea, Middle East and North Africa, Nigeria and West Africa, Romania, United States of America, Ukraine and the Philippines.

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Each chapter is autonomous. Some chapter members are members of TIEMS international, and others are only members of their local chapter, with local rules governing membership. The chapter establishes local activities and coordinates with the rest of TIEMS as needed.

The TIEMS Secretariat, located in Brussels, is available to the chapters for administrative support. The chapters report annually to the Secretariat about chapter activities, plans and finances.

TIEMS International Group of Experts (TIGE)

With the new Philippines Chapter operational in July 2017, TIEMS International Group of Experts (TIGE) counts now 102 members from 23 countries. All members are listed below with their fields of expertise. This is an important international group with varied expertise and background for assisting TIEMS in its work to create resilient societies worldwide.

TIEMS Research, Technology and Development (RTD) Activities

TIEMS is involved in two RTD projects, financed by the European Commission.

ASSET

<http://www.asset-scienceinsociety.eu/>



ASSET is a 48 month project to:

- Forge a partnership with complementary perspectives, knowledge and experiences to address effectively scientific and societal challenges raised by pandemics and associated crisis management
- Explore and map Science in Society related issues in global pandemics
- Define and test a participatory and inclusive strategy to succeed

- Identify necessary resources to make sustainable the action after the project completion.

ASSET combines public health, vaccine and epidemiological research, social and political sciences, law and ethics, gender studies, science communication and media, to develop an integrated, transdisciplinary strategy, which will take place at different stages of the research cycle, combining local, regional and national levels.

ASSET is close to its conclusion and its experts will present the main project's outcomes during the ASSET Final Event, a two-days conference that will be held in Rome, on October 30-31 2017, at the hotel NH Roma Leonardo Da Vinci.

HERACLES

<http://www.heracles-project.eu/>



The HERACLES EU project's main objective is to design, validate and promote responsive systems/ solutions for effective resilience of cultural heritage sites against climate change effects, considering as a mandatory premise a holistic, multidisciplinary approach through the involvement of diverse expertise.

This will be pursued operationally with the development of a system exploiting an ICT (Information and Communication Technology) platform able to collect and integrate multisource information to effectively provide complete and updated situational awareness and decision support using innovative measurements improving cultural heritage site resilience, including new solutions for maintenance and conservation.

THE TIEMS ACADEMY

The goals of the TIEMS Academy are:

- *Educating the Public*
- *Educating Children*



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- *Educating Officials*
- *Improving Preparedness*
- *Offering Courses and Training*
- *Helping Certify Expertise*
- *Building and Distributing Emergency Management Tools.*

TIEMS Chair of TIEMS Academy is George Markowsky, and TIEMS Academy will be developed in close cooperation with TIEMS QIEMD Certification needs, and also with guidance and input from TIEMS Chapters.

The TIEMS Academy present objectives are:

- Develop an internationally shared understanding of emergency management elements, qualifications, and terminology
- Help students find and connect with useful live and online educational resources
- Make increasing amounts of emergency management knowledge available online, especially vulnerable societies
- Provide a platform to share critical lessons learned from disasters and emergencies
- Create an eLearning and Certification platform that will foster, across the international community, a shared, common understanding of emergency management elements, standards, and terminology
- Establish a directory of educational resources, described within a common framework, including live and online degree programs, courses, workshops, and knowledge bases
- Create an online portal that will make emergency management educational resources, from established educational institutions and initiatives, broadly available to students worldwide.

The TIEMS Academy will start out using FreeConferenceCall.com as its platform for eLearning. FreeConferenceCall.com makes it easy to have online courses and meetings with up to 1,000 simultaneous participants.

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

TIEMS QIEMD Certification

TIEMS believes there is a need for an internationally shared understanding of emergency management elements, qualifications, and terminology. Hence, TIEMS is launching TIEMS - QIEMD - Certification of Qualifications in International Emergency and Disaster Management, as a global concept to establish such a shared understanding.

TIEMS QIEMD Certification development will be lead by Angeli Medina, who has been appointed by the TIEMS Board of Directors as the TIEMS QIEMD Certification Officer. The preliminary concept of the TIEMS QIEMD Certification Program is found in the following, but this program is expected to evolve according to further analysis of international needs.

Education Courses:

- The course curriculum will be comprised of both theoretical and practical courses and hands-on training
- Courses will be offered by TIEMS in cooperation with Universities and Training Institutions worldwide through TIEMS Academy
- Participants must receive a passing grade on a certification exam
- TIEMS Chapters will be responsible for adding local/national competences

Once a review is performed of all submitted documentation and a passing grade is achieved on the certification exam, the TIEMS-QIEMD designation will be awarded by TIEMS QIEMD Certification Board.

Recertification will be required every three (3) years by successfully completing three QIEMD TIEMS International courses and submitting the appropriate recertification application.

Applicants' Requirements:

- *Being Certified in Emergency Management/Disaster Response or Similar by Another Certifying Institution Approved by TIEMS*

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or

- *Document a Practical or Theoretical Background in Emergency and Disaster Management for a minimum of 4 years*
- *Provide a Letter of Recommendation to TIEMS QIEDM Program from a Current or Former Employer.*

QIEDM Certification Objectives:

- Availability Globally
- Web-based On-Line
- Low Cost
- A Common Understanding of Emergency and Disaster Management
- The Common Language is English, but local language adaption in TIEMS Chapter Countries
- Lessons Learned Focus
- State-of-the-Art and Up-to-Date.

TIEMS New Web-site

A new TIEMS web-site became operational 12th June 2017, and details are given below.

See: <http://www.tiems.org>

TIEMS Newsletters

TIEMS issued six newsletters in 2016, three regular newsletters and three special issues. Details are given below.

TIEMS Financial Situation

Accomplishing TIEMS's mission on a limited budget is a challenge, as with many other non-profit and international NGO's. However, volunteers working for TIEMS around the world in TIEMS chapters, recruiting members and sponsors and arranging events, have made it possible to arrange many events around the world, as well as establish and maintain a TIEMS Secretariat in Brussels, which started its operation at the end of 2010, and has now been in operation more than 6 years. Having professional administration and legal advice at a permanent registered address for TIEMS has proven worthwhile and beneficial. The Secretariat is the primary regular budget

item for the society, and it is being supported by fees collected by the society.

TIEMS Members, Officers and Directors

Of course, the main assets of TIEMS are its members, officers, directors, and TIEMS Chapter board members (See TIGE). They contribute their expertise and volunteer their time to develop and promote the society worldwide, and to carry out activities on its behalf. Members of TIEMS Board of Directors are elected at the Annual General Meeting (AGM), which takes place at the TIEMS Annual Conference every year. The delegates to the AGM are TIEMS members, and at this meeting they elect Directors and Officers, and vote on decisions.

The Chapters elect their own Boards, and when the TIEMS Board of Directors wants to focus on a special task, a TIEMS Officer is appointed by the TIEMS Board to lead this task and report to the Board.

The TIEMS International Board, including Directors and Officers, is presented below. Local chapter board members are presented in the list of the TIEMS International Group of Experts (TIGE).

I would like to thank them all for the work they do, and their loyalty to TIEMS and its mission. Without them and their efforts, TIEMS could not exist.

TIEMS Future Plans

TIEMS progress is in line with the TIEMS 5 year plan agreed by the Board of Directors at the end of 2012, which set concrete goals. Our success sends a message to TIEMS members and the international emergency management community that TIEMS has a promising future, in which all with interest in emergency and disaster management can participate, and work together towards the TIEMS goal of contributing to more resilient societies worldwide.

Oslo 17th September 2017
K. Harald Drager
TIEMS President

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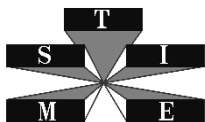
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TIEMS IN BRIEF

www.tiems.org

MISSION



TIEMS prepares the world for emergencies. We are a global forum for education, training, certification, and policy for emergency and disaster management. We do not respond to emergencies: we ensure that others are ready to respond. This is important internationally because some parts of the world otherwise have limited support for preparation.

As the international community discovers and develops new technologies, methodologies, and best practices, we offer conferences, ongoing forums, and training courses that rapidly and continuously spread the knowledge to every corner of the community. As policy makers grow to understand both the need for preparation and the support TIEMS provides, we expect to influence policy choices that strengthen cooperation among regional communities before a disaster strikes.

CHAPTERS

Chapters provide a regional focus for TIEMS activities. This is important because every region has unique circumstances and challenges, so there is no planning process that applies everywhere.

Currently TIEMS has chapters representing:

Belgium/Netherlands/Luxembourg, China, Finland, India, Iraq, Italy, Japan, Korea, Middle East and North Africa, Nigeria and West Africa, Romania, United States of America, Ukraine and the Philippines.

Each chapter is autonomous. Some chapter members are also members of international TIEMS, and others are only members of the chapter, with local rules governing membership. The chapter establishes local activities and coordinates with the rest of TIEMS as needed.

The TIEMS Secretariat, located in Brussels, is available to the chapters for administrative support. The chapters report annually to the Secretariat about chapter activities, plans and finances.

ACTIVITIES

- TIEMS organizes international conferences, workshops and exhibitions, worldwide, with a focus on Emergency Management and Disaster Response topics
- TIEMS engages in research & technology development (RTD) projects that enable TIEMS members to apply their expertise to international emergency management initiatives
- The TIEMS International Group of Experts (TIGE) comprises more than 100 experts from more than 20 countries with wide ranging expertise and experience available to assist with emergency preparedness planning and response worldwide through task forces
- The TIEMS Academy provides international education, training and certification programs in Emergency Management and Disaster response

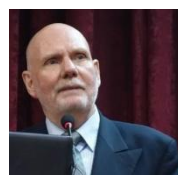
MEMBERSHIP

As a member of the TIEMS, you are part of an international community of leaders and practitioners in emergency management, with diverse backgrounds in engineering, science, government, academics, military, and industry working together to make the world a safer place. Membership affords unique opportunities to learn, serve, and network.

Learn: From the multi-disciplinary, multi-national TIEMS community and through special programs.

Serve: By helping us in our mission to reduce the impacts of disasters and emergencies worldwide.

Network: With regional and international colleagues to develop valued personal and professional relationships, and enhanced opportunities.



You are welcome to join us as a TIEMS member.

K. Harald Drager
TIEMS President

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TIEMS 2016 Events

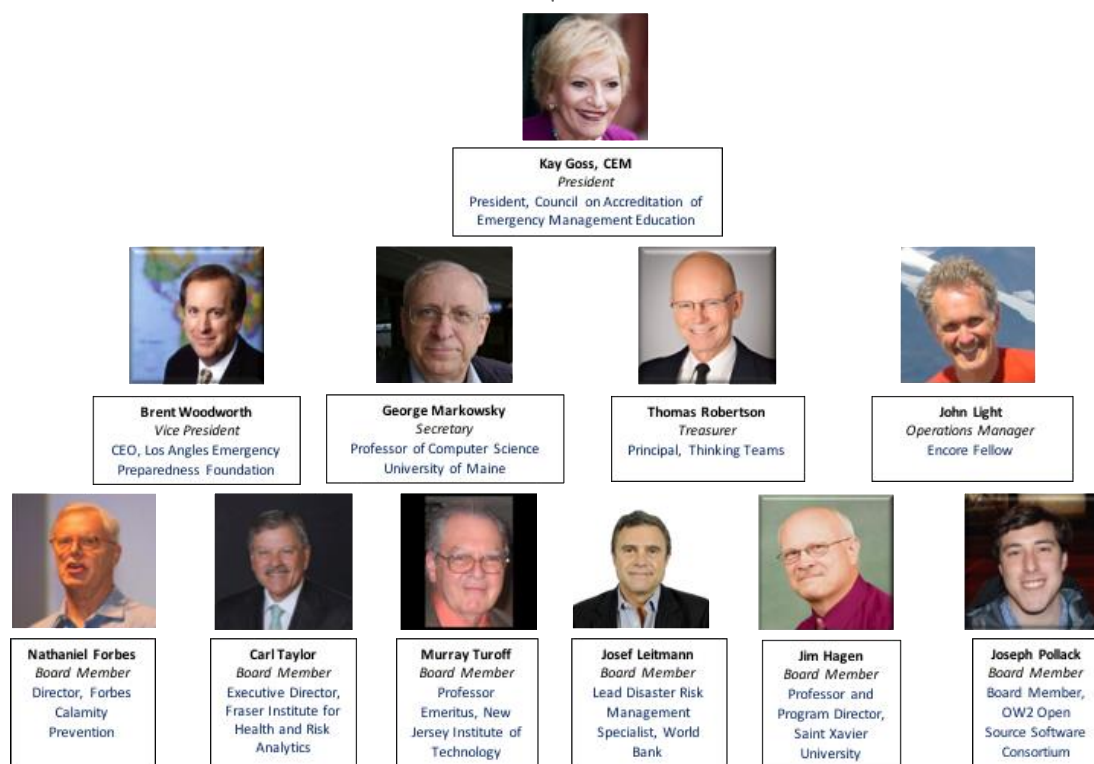
The TIEMS USA Local Chapter began 2017 after hosting a successful TIEMS 2016 Annual Conference in San Diego, California with the collaboration and support of San Diego Mayor Kevin L. Faulconer, the City of San Diego Department of Homeland Security, and San Diego State University. Attendees from 11 countries and 9 US municipalities were engaged and enlightened by 20 presentations of exceptional quality and breadth, an 8-person panel on evolving emergency management challenges, and a special interactive workshop featuring a crisis communication simulation.

Kay Goss, President of the TIEMS USA Board of Directors, was pleased to welcome five new members to the Board, to begin terms in 2017:

- Nathaniel Forbes, Forbes Calamity Prevention
- Josef Leitmann, World Bank
- George Markowsky, University of Maine
- Carl Taylor, Fraser Institute for Health and Risk Analytics
- Murray Turoff, New Jersey Institute of Technology.

In addition, we were pleased to welcome John Light to our team, as Operations Manager. John is working under a Fellowship Grant generously provided by a local organization that supports non-profits. The TIEMS USA Chapter Board of Directors organization chart is shown in the figure below.

TIEMS USA Chapter Board of Directors



Plans for the coming year include the 2017 TIEMS USA Conference, to be held June 12 – 16, 2017 at the University of Maine, Orono, Maine, USA. The theme for this conference is Emergency Management, Homeland Security, and Cyber Security, and we look forward to welcoming US and international participants for a week of workshops, presentations, stimulating discussions, and social activities in the uniquely beautiful Maine coastal region.

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featuring a crisis communication simulation.

Discussions and networking continued over three days of lunches and a Tuesday evening reception at our 9th floor Central Library meeting venue and terrace, overlooking the beautiful city of San Diego. The TIEMS Annual Gala Dinner was held on the San Diego Bay, overlooking the lights of the downtown skyline and Coronado Island, and on Thursday afternoon we took a tour of the San Diego State Visualization Center, exploring the innovative use of social media and other technologies to improve emergency preparation and response.



In addition to providing an exceptional opportunity to share experiences, insights, and knowledge from around the world, the conference gave us an excellent opportunity to see how San Diego and Tijuana have dealt with emergency management through innovative urban planning and very effective collaboration across departments and borders. We also found excellent opportunities for TIEMS collaboration with San Diego State University, including internship opportunities (which began during the conference, and we expect to expand), and helping TIEMS member organizations apply technical innovation to their emergency management activities.

The conference was made possible through the generous collaboration and support of City of San Diego Office of Homeland Security, particularly through the efforts of John Valencia, Executive Director, Tiffany Vinson, and Jeff Pack. They arranged for us to use the City of San Diego Central Library, which provided a beautiful facility and very responsive facilities and AV support from Sherwood Hartwell. We very much appreciate the sponsorship of Jack Zhang of **Beijing Harmony Technologies**, and Laixing Wang of **Xianheng International** and the International Emergency Rescue Equipment Center.

Congratulations to the following, who were awarded Best Paper Awards. Each was awarded a certificate and 120 Euros, generously donated by the **TIEMS China Chapter**. While there were many excellent presentations made at the conference, only authors who submitted full text papers were eligible for these awards. The winners:

- **TIEMS 2016 Best Paper Award – Importance to the Field:** George M. Karagiannis, “Emergency Management Aspects of the European Migration Crisis”
- **TIEMS 2016 Best Paper Award – Practical Application:** Jaroslav Pejcoch, “Stress Test Not Only for Banks and Nuclear Power Plants”
- **TIEMS 2016 Best Paper Award – Creativity:** LI Xuanye, “Total Systematic Field Solution for Emergency Cases”.

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The **TIEMS 2016 President's Outstanding Achievement Award** was given to Carmelo DiMauro and Vittorio Rosato, for their outstanding and excellent work in arranging TIEMS 2015 Annual Conference in Rome, Italy.

We look forward and invite you to next year's **2017 TIEMS USA Conference**, planned for June 12 – 16, 2017, at the University of Maine, Orono, Maine, USA!

This year we tested an additional way for the global emergency management community to participate in our conference – online streaming. Both audio and slide images were streamed for selected presentations, and recordings were made for future access. The test was successful, and a number of people around the world were able to virtually attend. We are now considering offering virtual attendance as an option for future conferences.



Tuesday's session was opened by TIEMS President **K. Harald Drager**, who welcomed attendees and provided a perspective on the evolving challenges in emergency management, emphasizing the importance of increased attention to preparedness, and TIEMS's role in improving preparedness through knowledge sharing, research and development projects, and education, training, and certification.

The next presentation was by **John Valencia**, Executive Director, City of San Diego Department of Homeland Security and **Gary Hayslip**, Chief Information Security Officer, City of San Diego. After welcoming us to their fair city, they provided an overview of San Diego's approach to security and emergency management, emphasizing close collaboration with Tijuana, Mexico as part of an expanded metro region. Gary provided startling statistics on cyber threats to the City of San Diego, and described extensive activities to minimize the impact of these threats.



We were next treated to a particularly moving presentation and performance by **Nathaniel Forbes**, Director of Forbes Calamity Prevention, on Food and Disasters: The Impact of Hunger. He used recorded accounts and videos, as well as spoken words, to convey to our minds and hearts our interconnectedness as a global community, and the sometimes heart-breaking local impacts of the global economy.

Kay Goss, CEM, President of TIEMS USA Chapter and CEO of World Disaster Management, described how international collaboration has made an impact on global preparedness, international cooperation, and the evolution of the practice and cultivation of the profession of emergency management.

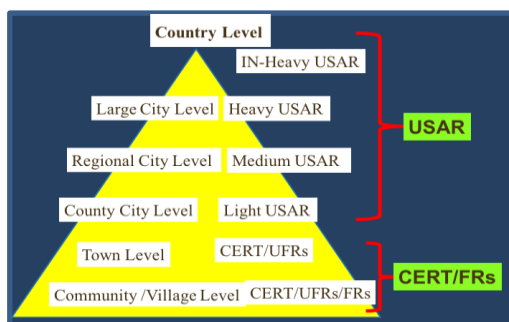


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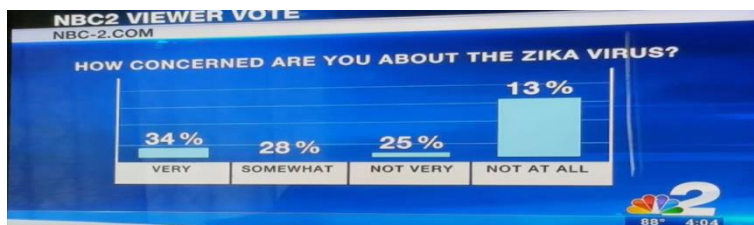
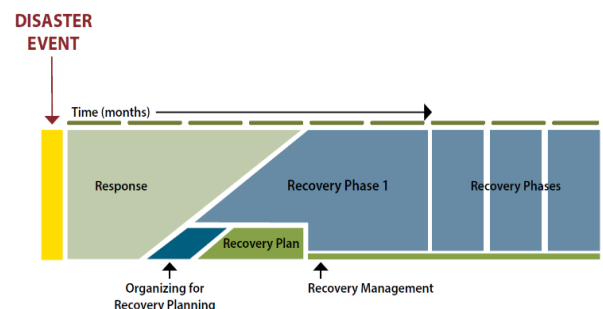
As noted throughout the conference, the world is rapidly urbanizing, and losses due to natural disasters and climate change are on the rise. **Dr. Josef Leitmann** of the World Bank made the case that investing in urban resilience would not only make our cities safer, but also prevent a reversal of the gains made in lifting our urban poor out of poverty.

Dr. George Karagiannis of the Technical University of Crete presented a perceptive analysis of the emergency management response to the European migrant crisis. The disruptions caused by the extreme wave of immigration (since 2015, over one million immigrants have traveled through Greece) have exposed lack of preparedness, resource limitations, problems coordinating NGOs, and the strong influence of international politics on the situation.



Dr. Guosheng Qu, TIEMS Vice President, Professor and leader of Urban Search and Rescue (USAR) teams, presented a framework for emergency resilience for large cities, that complements USAR teams and First Responders with Community Emergency Response Teams (CERTs), a concept developed in Mexico and the US, and recently introduced in China. TIEMS is establishing a CERT Task Force Group, to help spread CERT throughout the global community.

The economic advantage of investments in planning and preparation versus disaster response is often cited, as is the challenge of motivating these expenditures when disasters are in a hypothetical future. **Matt Campbell**, FEMA National Coordinator for Community Planning and Capacity Building, presented examples of Post Disaster Recovery Planning, which has been able to create improved community resilience using recent disasters to inform and motivate investments in preparation and planning.



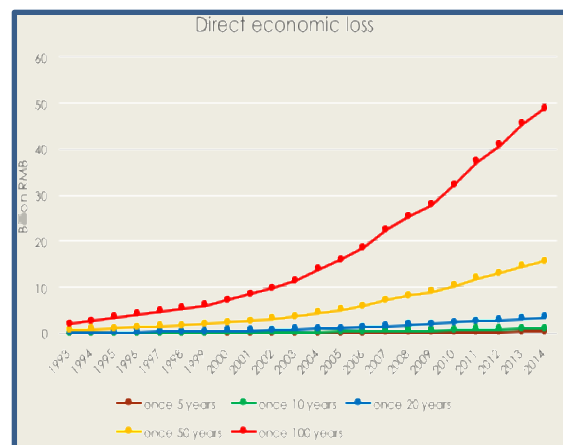
Wednesday's session was kicked off by **Carl Taylor** of XCH Global, who used his experience in analyzing disasters across the world to help us step back and observe a number of significant and important ways the unexpected crops up during disasters. Of

course disasters themselves are usually unexpected, however emergency managers are often surprised

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because of factors such as: mistaken beliefs of invincibility; surge requirements beyond worse fears; the critical role of media, and how often they get it wrong; and powerful symbols that seem trivial at first.

Next **Ms. Li Yi** of the National Disaster Reduction Center of China presented work performed by Dr. Yang PeiGuo modeling urban vulnerability to floods, based on historical disaster loss data, correlated with rainfall measurements and social and economic data associated with affected areas. A case study of Beijing showed a strong correlation between rainfall measurements and loss rates, allowing a model to be constructed that estimated how maximum 2-day rainfall affected size of population impacted, missing and dead people, crop losses, collapsed or damaged houses, and overall economic loss.



Our next session was a special workshop organized by **Martin Masiuk**, Publisher of Domestic Preparedness Journal, on “What is the New Normal?” Evolving Management Challenges”. This workshop featured panelists from the US Border Patrol, Coast Guard, San Diego Cyber Center, Harbor Police, and private industry, discussing challenges and operational approaches to deal with the new slants on terrorism, illegal immigration, and crime that are now part of our new normal.

TIEMS President **Harald Drager** convened the 2016 TIEMS Annual General Meeting. After introducing Board members present and a determination that a quorum of the TIEMS membership was present, previous minutes and annual budgets were approved, and elections were held for three directors that were up for election this year. Neil Dufty was re-elected Regional Director for Australia, New Zealand, and Oceania; Jean-Paul Monet was elected Regional Director for Europe; and K. Harald Drager was re-elected President of TIEMS. Congratulations to all candidates!



Next, **Gerry McCusker** of Engage ORM led a special workshop in which we formed crisis communication response teams, which were presented with an unfolding crisis featuring a population primed by Hollywood disaster film advertisements, panicked social media messages, earthquake app hackers, and crisis communicators with a real challenge on their hands! The workshop provided an informative and chilling view of the “new normal” brought about by social media and cyber terrorism.

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Dr. Murray Turoff, New Jersey Institute of Technology, presented the results of a survey he made of emergency management practitioners and academics, asking them to prioritize proposed courses for an academic degree in emergency management (EM) with a concentration in information systems. The responses to this survey not only ranked courses, but also provided the respondent's views on the state of EM as an activity and as a profession. Among the themes uncovered were: it is challenging to establish educational programs in EM; the importance of organization and organizational collaboration in EM; the limitations of academic education versus experience; trade-offs in saving people versus property versus environment; the criticality of infrastructure protection; the importance of cascading effects; and the criticality and challenge of turning information from social media into intelligence.



Our next presentation made by **Brent Woodworth**, TIEMS USA Chapter Vice President and L.A. Emergency Preparedness Foundation, and **Eric McBride**, Assistant Chief of the San Bernardino Police Department. Assistant Chief McBride gave a detailed and revealing account of before and after two shooters entered the Inland Regional Center and killed 14 people and wounded 22 others. The account showed many examples of effective and heroic operation, and the opportunity in any situation like this, to learn new lessons. Brent related the crucial role his organization had in engaging local business to support the work of the responders and victims, by proving needed logistical support.

Laixing WANG and **Jed GAO**, of Xianheng International Corporation and the International Emergency Rescue Equipment Center (IEREC), gave us an overview of the IREC in Hangzhou, China, an ambitious facility opened in November, 2014, that supports: academic and occupational meetings and exhibitions; community training, including disaster escape experience for school children; and exhibition of rescue equipment solutions including USAR, marine rescue, electric emergencies, high-speed train events, environmental protection, and airport rescue.



Thursday's session was opened by **Mark Benthien** of the Southern California Earthquake Center, Los Angeles. The Earthquake Center brings together over 700 scientists and students from more than 100 research institutions to synthesize research on earthquake system science. An

important outreach activity of the Center is the Great ShakeOut Earthquake Drills, which in 2015 reached more than 43 million people worldwide and 21 million people in the US. These drills are based not only on earthquake experience, but also on social science research into what motivates people to get prepared.

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In our next presentation, **Xuanye LI**, from the Longyan Haidexin Automobile Co., explained his company's approach to a total systematic field solution for emergency cases. This approach works to insure success in dealing with emergencies by addressing: human safety and support; effective command, control, and information; adequate facilities; and sufficient material supplies. These needs are provided through a wide range of networked vehicles and subsystems offered by Haidexin, such as their Integrated Detector Vehicle, Emergency Communication Vehicle, Mobile Command Platform, and Power Supply Vehicle.



Our next speaker was **Kevin Miller** from the California Governor's Office of Emergency Services, who discussed tsunami preparedness using "playbooks" incorporating evacuation lines based on *maximum potential tsunami flood elevation*, calculated using a model called FASTER. FASTER uses Forecasted Amplitude, Storm surge or existing ocean conditions, maximum Tidal height, forecasted Error potential, site amplified Run-up potential based on historical data, as well as local non-storm and non-tidal anomalies in sea level. This use of playbooks standardizes response, which improves inter-organization collaboration, and because it takes into account real-time forecasts, it helps improve safety while reducing over-evacuation.

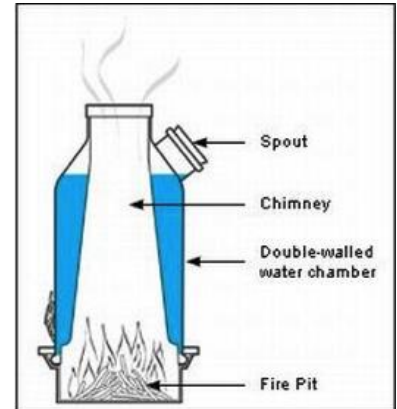
Our next presentation was by **Bin WEN**, who introduced the TIEMS China Chapter and described their activities. The TIEMS China Chapter was established in April of 2009, and has since held six annual conferences, the last of which had 650 attendees from government, academia, and industry. Bin Wen extended a warm welcome to everyone, to attend their 2016 Annual Conference being held November 1-6, 2016, in Zhuhai, China. Bin Wen also described the China Emergency Response Alliance (CERA), started by the Xinxing Cathay company, which is working with the TIEMS China Chapter to better link enterprises and government agencies in the field of emergency response.



TIEMS Secretary **Jaroslav Pejcoch** of T-Soft, next suggested we extend the idea of stress tests, already used for nuclear power plants and banks, to general emergency preparedness. He pointed out how a stress tests differ from the usual audits and checks, by introducing specific scenarios to gage the reaction of the people who will actually be responding to an emergency. The results of these stress tests go beyond just a graded result, by providing an assessment of routine versus stressed operations, and enabling a fruitful conversation about how risk can be further mitigated and resiliency increased.

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Our next speaker was **Arthur Nash**, University of Alaska Fairbanks, who gave us a fascinating look at the special concerns of emergency management in Alaska. In the last 25 years, Alaska has experienced coastal and arctic windstorms, river floods, evacuation due to land erosion, wildfires, volcanoes, and earthquakes. Because of extreme cold, foraging wildlife, remote communities, and other difficult conditions, special provisions for personal warmth, food/water, and self-sufficiency must be considered. This has led, for example, to cost-effective, efficient, innovative solutions for cooking and heat from biomass. Family and community preparedness is particularly important in Alaska, and community education is a key element of emergency resilience.



Our final presentation of the morning was by **Dr. Thomas Robertson**, TIEMS Regional Director for North America. Dr. Robertson reviewed the TIEMS Global Educational Network for Emergency Resilience and Training Excellence (GENERATE) initiative, whose goal is to create a network of educators, practitioners, and students contributing to and benefiting from an online platform for learning, certification, and sharing experiences. Design work has been underway for the initiative, organizational participants recruited, and partial funding has been identified as part of on-going projects. TIEMS continues to seek partners and organizations who share the goals of GENERATE, to join us in this activity.

Our conference concluded with a tour of San Diego State University's (SDSU's) Visualization Center. **Dr. Eric Frost**, Director of SDSU's Graduate Program in Homeland Security and the Visualization Center, provided an overview of the work in his program, with an emphasis on innovative use of remote sensing and social media to support homeland security. His graduate program has put together impressive technical capabilities, and his students are eager to find internships providing interesting challenges and potential pathways to future work. TIEMS looks forward to working with SDSU, through internships and as a participant in our GENERATE initiative.



TIEMS Korea Chapter 2016 Annual Conference



TIEMS Korea Chapter 2016 Annual Conference entitled "Performance of the Public Safety and Future Assignments" was held by the Ministry of Public Safety and Security, the Ministry of Trade, Industry and Energy, and Gyeonggi Province. The objectives of the conference was to promote the growth of national interests in safety and security and to create an ecosystem within the safety industry for a safer society. This conference was held on 16 November 2016 as part of the 2nd K-Safety Expo 2016 from 16 November to 18 November 2016.

1. Introduction to TIEMS Korea Chapter 2016 Annual Conference

- Topic: "Performance of Public Safety and Future Assignments"
- Date: 16 November 2016 (Wednesday, 09:30~18:00)
- Location: 1st Exhibition Hall, KINTEX, ILSAN, South Korea (<http://www.kintex.com/>)
- Host/Supervision:
 - Korean Society of Disaster & Security
 - TIEMS (The International Emergency Management Society) Korea Chapter
- Sponsor: Ministry of Public Safety and Security, Ministry of Trade, Industry and Energy, and Gyeonggi Province

2. Sessions for presentation

Water related disaster (stream/flooding/inundation and more), Slope Disaster Prevention (landslide, debris flow), Disaster Prevention Technology Industry, Disaster Prevention Convergence Technology, Fire Safety, Civil Emergency Rescue, Civil Safety Network (Civil Life Safety Management), Facility Safety (Safety Check/Diagnosis), Disaster Management Standards, Disaster Prevention (Disaster Prevention Manual/Disaster Response), Disaster Safety Education & Training, Special Disasters, Naval & Port Disaster (Maritime Accident/Taxiway line), Environmental Disaster (Waste Processing Plant/Water Quality) and Other Sessions

Korean Society of Disaster & Security
Jaekwon KIM, president

TIEMS DCEM 2016 Conference in Ukraine

October 7th, 2016, is the birthday of the new TIEMS chapter, namely, the TIEMS UKR Chapter in Ukraine. A group of the enthusiastic founders of this chapter decided to make a quick move after the final acceptance and organize the welcome event as soon as possible. Following the 1st TIEMS Conference on Disaster Control and Emergency Management Testbed Platform (TIEMS DCEM 2011), which was held on June 13-14, 2011, in Finland, and the 1st International Conference on Secure Society in Ukraine SESOCUKR 2014, which was held on November 18-21, 2014, the TIEMS Ukraine Chapter organized the 2nd TIEMS Conference on Disaster Control and Emergency Management (TIEMS DCEM) on October 12-13, 2016, in Ukraine.

The timeslot was not selected randomly. It was decided to run the conference at the same time on the same venue when and where the other annual major events on safety, security and defense took the place on October 11-14, 2016, in Kyiv, the capital of Ukraine. Those other events were the following: The XV International Exhibition Forum PROTECTION TECHNOLOGIES 2016, The X International Trade Fair FIRETECH 2016, The X International Aviation and Space Salon AVIASVIT-XXI, The XIII International Exhibition ARMS AND SECURITY 2016, The 2nd International Conference on Secure Society in Ukraine SESOCUKR 2016 as well as The XVIII National Conference "The Current State of Civil Protection in Ukraine: An Integration Roadmap to Europe".

Coincidentally, the show celebrated the 100th anniversary of the first firefighting engine in Ukraine. The commemorative coin of 5 hryvna (limited edition by The State Treasury of Ukraine) and the commemorative stamps (limited edition by UkrPost) were exposed to public at the opening ceremony.

The conference was supported by The State Emergency Service of Ukraine (Ukrainian: Державна служба України з надзвичайних ситуацій; until 24 December 2012 the Ministry of Emergency Situations of Ukraine (Ukrainian: Міністерство надзвичайних ситуацій України)). Nowadays, The State Emergency Service of Ukraine is governed by the Ministry of Internal Affairs. The event was hosted by The Ukrainian Research Institute for Civil Protection in Kyiv.

The organization team involved the international experts from Finland, Lithuania, Norway, Estonia, USA, UK, Slovenia, Slovakia, Poland, Czech Republic, Belgium as well as a large number of Ukrainian experts. Their flexibility and contributions to the technical program were very much appreciated by the domestic organizers. The conference was by invitation only.

Figure 1. From the left the Minister of Internal Affairs Arsen Avakov, the Secretary of the National Security and Defence Council of Ukraine, a former acting President of Ukraine, Oleksandr V. Turchynov and the Minister of Defence of Ukraine General of the Army Stepan T. Poltorak are opening the entire show.



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Figure 2. From the left the front row Major-General Vitaliy Kropyvnitskiy (Director-General of the Ukrainian Research Institute for Civil Protection), Major-General Mykola Chechetkin (Head of The State Emergency Services of Ukraine), Oleksij V. Takhtaj (Deputy Minister - Chief of Staff, Ministry of Internal Affairs of Ukraine) and Anatoli Tkachenko (the CEO of the International Exhibition Centre in Kyiv).



The second row Professor George Markowsky (TIEMS HQ, USA), Professor Andre Samberg (President of TIEMS UKR Chapter), Viktor Zaivenko (Director of Cash Circulation Department of the National Bank of Ukraine).



Figure 3. The Brass Band of The State Emergency Service of Ukraine at the opening ceremony dedicated to the 100th anniversary of the first firefighting engine in Ukraine and the front side of the coin

Figure 4. Major-General Vitaliy Kropyvnitskiy (on the left) (Director-General of the Ukrainian Research Institute for Civil Protection) receives the award from Major-General Mykola Chechetkin (Head of The State Emergency Services of Ukraine) for the development of the light marine fire fighter boat for operation near the shoreline where traditional marine fire-fighting vessels and other equipment cannot reach.



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Figure 5. Dr. Aleksander F. Nikulin (on the left) (Managing director, Ukrainian Scientific Park “Civil protection technology transfer center”, Ukraine) receives the award from Major-General Mykola Chechetkin (Head of The State Emergency Services of Ukraine) for the best technical innovation in the field of quick cleaning up of oil spill in sea water.



Figure 6. Major-General Mykola Chechetkin (on the left) (Head of The State Emergency Services of Ukraine SESU) and Professor Andre Samberg (President of TIEMS UKR Chapter) in the headquarter of the SESU during the meeting of the strategic working group of the SESU and TIEMS UKR Chapter.



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Figure 7. Delivering the TIEMS certificates to the founding members of TIEMS UKR Chapter and the first two TIEMS institutional members in Ukraine by Professor Andre Samberg (President of TIEMS UKR Chapter) and Professor George Markowsky (TIEMS HQ, USA)



Figure 8. Oral presentations



Figure 9. At the exhibition: Medevac ambulance version of Antonov-148 airplane (the manufacturer the Antonov corporation, Ukraine)

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The event brought together some 80 government officials, state owned research institutions, private enterprises and volunteer organizations to review the state-of-the-art of civil protection in Ukraine, expand capacity to address current and future development challenges and place national strategies in a global context. It also provided a valuable networking opportunity and set the stage for further cooperation among TIEMS UKR Chapter and The State Emergency Services of Ukraine.

The conference began with opening remarks by representatives of the Ukrainian Research Institute of Civil Protection, the Scientific Centre for Aerospace Research of the Earth of Institute of Geological Science of National Academy of Sciences of Ukraine, and the NATO Liaison Office in Ukraine. More than 30 oral presentations were delivered by various experts.

Professional development program manager lieutenant-colonel Ove Urup-Madsen from the NATO Liaison Office in Ukraine shared his experience and described the obstacles in the top management culture at the governmental level. He highlighted the need to strengthen the leadership capacity, expand the efficiency of training and fully utilize domestic professionals as a positive and transformative force for the future of the country. He also identified the following key factors needed:

- English language
- Electroning office and document management
- International advisors embedded in the daily work
- Step-by-step modular approach
- HR principles
- Invest in the youth but don't forget the seniors
- Patience and empathy

A number of good quality presentation touched on space-borne monitoring of radiation of such exclusion zones as Chernobyl. It has been reported that one of the main reasons of radioactive pollution are forest fires. The level of radiation in the atmosphere up to 10 km increases during those fires and would remain steady for a long period of time. Fire fighters are looking for rapidly deployable light-weight equipment which would allow large-scale monitoring. Interesting approaches were presented using UAV fleet (Unmanned aerial vehicle).

National experts and scientists expressed their increasing concern with regard to the natural disasters which are foreseen in the eastern part of Ukraine. The whole mining ecosystem of the Donbas region is affected in the following way. The Ukrainian government has stopped financing the coal mines located in the secessionist territories. The conflict has disturbed the coal-coke-metal vertical integration systems built there since 1991. Many of the system's components are located in the "gray zone" between government- and secessionist-controlled areas, as well as in the Russian side of the border. Because of the ongoing armed conflict, there is an estimation that only 23 mines of 82 active mines in the Donbas region remain in territories controlled by Ukrainian authorities. Many mining premises were flooded as a result of interruptions in electricity supply. The drawn out nature of the conflict has significant costs to local populations more saliently through destruction of local infrastructure and the degradation of the environment. With the intermittent collapse of the electricity supply across the entire conflict area, ventilation systems and water pumps in coal mines failed, resulting in the release of accumulated gases after ventilation restarted. The often irreparable flooding of mines not only damages installations but also waterlogs adjacent areas and pollutes groundwater. Permanent or temporary flooding has been reported at more than ten mines, yet due to the lack of

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uninterrupted monitoring and fieldwork to assess the damage, the exact extent of the risks to environmental and public health is unclear. At the moment, relatively little is known about the direct chemical impact of the war on the environment and people. , large quantities of damaged military equipment and potentially hazardous building rubble will require disposal.

The Ukrainian Ministry of Defence also raised concerns that depleted uranium weapons may have been used in the fighting around Donetsk airport, and proposed to determine whether this was the case when conditions allowed. The conflict has also damaged the region's numerous nature protection areas, from armed groups occupying their administrative buildings to the impact of fighting and the movement of heavy vehicles within nature reserves. The restoration of large tracts of agricultural and other land for normal cultivation and use will require considerable effort too, and will be complicated by the presence of new minefields and unexploded ordnance. As is common for armed conflicts in heavily developed areas, a large proportion of the pollution impact may not come directly from the fighting but from damage to industrial infrastructure and to the disruption of everyday economic activities.

Dr. Evhen Yakovlev reported about the first results of the joint mission with The Directorate General for European Civil Protection and Humanitarian Aid Operations of the European Commission (DG ECHO) organized a four-day scoping mission between 4-7th of July 2016 to Solotvino (Ukraine), where the abandoned and neglected salt mine poses a significant contamination threat of the Tisza River and also threatens the livelihoods of those living in the region. The five-member scoping mission team was made up of British, Finnish, French, Hungarian and Latvian experts.

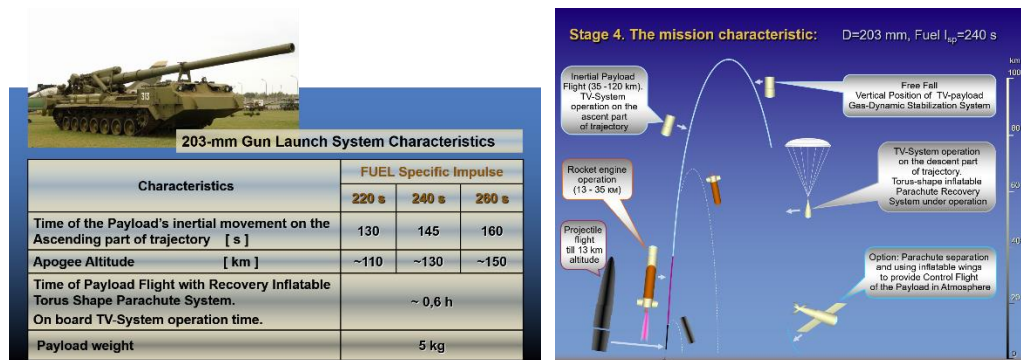
A few years ago, a significant amount of salt concentrate was measured on the Hungarian section of the Tisza River, which gave the situation at Solotvino an important cross-border element. The current state of affairs at the site requires quick and efficient measures that will provide secure housing to those living in Solotvino, and will also mitigate the negative cross-border environmental consequences of the Tisza River contamination.

In coordination of the Secretariat for the Danube Region Strategy Ministerial Commissioner of Hungary, the disaster management services of Ukraine and Hungary have requested the support of the European Commission in January 2016, in order to comprehensively map out of the cross border environmental emergency situation at Solotvino. The abandoned salt mines continuously contaminate the Tisza River with unknown quantities of salt, while the residential buildings of the area are also under constant threat because of the quickly forming craters (some craters can reach depths of 110-120 meters, and can form in matter of hours). (source: www.danube-region.eu/communication/news/616578-eusdr-support-to-contain-the-emergency-situation-at-solotvino-salt-mine).

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An exceptional presentation was given by Dr. Kanevskiy from High Technologies Institute Ltd. He introduced a prototype of sub-orbital gun launching platform.



In conclusion, the chair noted that readiness of the state to listen to experts is crucial. Despite the fact of ongoing reforms in the society, they cannot succeed if there is no balance and there is only a question of protecting the interests of the particular political groups and organizations. Cooperation is a must because the emergency preparedness and response system requires concerted efforts from all the relevant stakeholders. Also, it was pointed out that TIEMS is ready to support of the participation in collaborations for internationally harmonized standards.

The event was covered by 278 media representatives from 182 accredited media resources, including 15 foreign media such as the Press Agency of the Ministry of Defense of France, Jane's Defence Weekly, Associated Press, BBC News, Radio France Internationale, European Security and Defence Mittler Report Verlag, Lundi13, Phoenix Satellite Television Holdings Limited, Xinhua News Agency, Polskie radio, Polish Press Agency and others. The total number of exhibitors – 477 companies, including 45 companies from 16 foreign countries (China, USA, Switzerland, Sweden, United Arab Emirates, Belarus, Poland, Czech Republic, Italy, Israel, Great Britain, Belgium, Finland, France, Ireland). Over 18,000 professional visitors attended the exhibition throughout its duration. The representatives of approximately 100 companies from 24 countries (Canada, Sweden, Finland, France, Spain, Czech Republic, Poland, Lithuania, Latvia, Netherlands, UK, USA, Georgia, Belarus, Turkey, India, Pakistan, Kuwait, Egypt, Bangladesh, South Africa, Saudi Arabia, Bosnia and Herzegovina, Australia) were among the guests of the exhibitions.

The 5th Harvard Medical School BIDMC China Program Forum

From 15th to 16th October 2016, “the 5th Harvard Medical School BIDMC (Beth Israel Deaconess Medical Center) China Program Forum” was held successfully in Changsha Hunan province of China. This forum was organized by the International Emergency Management Society Emergency Medical Committee(TEMC) and The Harvard Medical School(HMS), supported by The Healthcare Family Planning Committee and The Xiangya Hospital of Central South University, undertaken by The Xiangya Hospital, The second Xiangya Hospital and The third Xiangya Hospital of Central South University. On the forum, the Harvard Medical University, TEMC and the Xiangya Hospital of Central South University signed tripartite cooperation agreements. Domestic and international scholars and experts had an extensive and in-depth discussion on win-win cooperation, classification on diagnosis and treat, medical association and medical collectivization development, etc.

President of the International Emergency Management Society Mr. K 'Harald Drager, Dean of External Education of HMS Mr. David Roberts, Vice President of Central South University Mr. Chen Xiang, Director of the Healthcare Family Planning Committee of Hunan Province Mr. Zhang Jian and TEMC Director Ms. Chen Ran participated in the opening ceremony and delivered their speeches. There were more than 20 international experts of UNESCO and HMS coming from U.S, Germany and Ireland, responsible officers of The Healthcare Family Planning Committee from provinces nationwide as well as more than 400 presidents and directors of cardiology, oncology and clinical laboratory from hospitals attending this forum.

Director of The Healthcare and Family Planning Committee of Hunan Province Mr. Zhang Jian expressed sincere thanks to the participating experts for the support and care they provided to The Healthcare Career of Hunan Province. Director Zhang Jian indicated that this time of forum in Changsha Hunan province will promote the international medical exchange of Hunan Province and vigorously promoting construction of “The Healthy Hunan”.

Vice President of Central South University Chen Xiang representing his university expressed warm congratulations to the 5th Harvard Medical School BIDMC China Program Forum. He indicated that the forum was undertaken by The Affiliated hospital of Central South University, providing a great opportunity for the collision between Chinese and western medical thoughts. The “handshake” between the Harvard Medical School and the XiangYa Hospital will promote the world medical community development.

Dean of External Education of HMS Mr. David Roberts thought that the forum gathered together lecturers and participants from Harvard Medical School programs to discuss common interested topics, it is a hard-won opportunity and platform for China-US high end exchanges.

President of The International Emergency Management Society Mr. K. Harald Drager introduced basic situation of TIEMS, indicated that currently facing threats from many aspects like natural disasters and public health, it requires countries around the world working together to make the team bigger and stronger so as to deal with the situations. He sincerely hopes to have more discussions and cooperation with Chinese peers in the future.

Director Chen Ran of The International Emergency Management Society Emergency Medical Committee (TEMC) represented the organizer to welcome all the distinguished guests and appreciated the help and support provided by all parties for the forum. She wished the forum being successfully held and hoped to

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make the forum the “Mobile Home” for Harvard program participants and a win-win study share cooperation platform.

This forum contains one main forum and four sub-forums. These four sub-forums include Hospital Presidents Sub-forum, Oncologists Sub-Forum, Clinical Laboratory Sub-Forum and Cardiologists Sub-Forum.

On the afternoon of October 15, the main forum was hosted by President Zhou Shenghua of The Second Xiangya Hospital of Central South University, Secretary General He Chaoyang of The International Emergency Management Society Emergency Medical Committee and President Han Guangshu of Nanjing Drum Tower Hospital. With the witness of all the participating personnel in the main forum, Beijing Huatong Guokang Foundation Opening Ceremony and Beijing Huatong Guokang Special Fund Launching Ceremony were held. The chairman of the foundation was taken hold by director Chen Ran. All participating personnel in the main forum also witnessed the Harvard album (recorded program participants’ learning experience) release ceremony of the 7th session of Harvard President Program, the 1st session of Harvard Cardiology program, the 1st session of Harvard Oncology program and the 2nd Harvard Clinical Laboratory program.

President Li Weimin of West China Hospital, Sichuan University, Director Wei Xiaochun of The Healthcare and Family Planning Committee of Shanxi Province, Dean David Roberts of External Education Faculty of Harvard Medical School, President K’Harald Drager of The International Emergency Management Society made special reports on healthcare group and diagnosis treat of classification, improvements on “healthy Jiangsu” in a global vision, discipline construction and personnel training under classification of diagnosis and treat as well as remote education and the responsibility system of The International Emergency Management Society.

On the morning of 16th October, The Harvard President Sub-Forum were hosted by the President Chen Yong of Beijing Chaoyang Hospital, Capital Medical University and president Tang Yonghong of The Second Hospital University of South China. President Zhou Shenghua of the Second Xiangya Hospital of Central South University, President Li Xingang of Qilu Hospital of Shandong University, the representative of President Wen Hao of the First Affiliated Hospital of Xinjiang Medical University, President Zhu Yimin of Hunan Provincial Hospital, president Sun Hong of the Xiangya Hospital of Central South University gave 5 high level theme reports respectively on research cooperation and win-win mode between hospitals under new circumstances regarding to classification of diagnosis and treat. In addition, Harvard President Sub-Forum held two spectacular summit dialogues, the involved interactive guests had a heated discussion on some issues that currently existed in hospital management.

The Harvard Oncology, Cardiology as well as Clinical Laboratory Sub-Forums were also carried out in full swing with strong communication atmosphere. Apart from previous participants in the Harvard Director Class Programme giving special reports, each Harvard Director Class Sub-Forum especially invited domestic and international well-known experts to share their experience with the attendees. Harvard Clinical Laboratory Sub-Forum invited the Chairman Zhang Man of Chinese Medical Doctor Association Laboratory Physician Branch, Doctor Joseph Cheng of National Institutes of Health of U.S to make special reports. Harvard Oncology Sub-Forum invited Rebecca Miksad, Director of Gastrointestinal Medical Oncology of BIDMC to give lectures for the Harvard students for the second time. Harvard Cardiology Sub-Forum especially invited Joseph Kannam, Director of Cardiology Fellowship of BIDMC, President Wang Jian’an of The Second Affiliated Hospital of Zhejiang University Medical School and Vice President Zhang Guogang of Xiangya Hospital of Central South University to make theme reports.

This forum confirmed the organizer of the 6th Harvard China Program Forum through fierce competition. Director Chen Ran and Professor David Roberts awarded crystal trophy of “the 5th Harvard China Program

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Permanent Host Unit” to The Second Xiangya Hospital of Central South University and “The 6th Harvard China Program Forum Undertake Unit” to the Nanjing Drum Tower Hospital which will be the organizer of next forum.



Since the establishment of Harvard China Program by HMS and TEMC in 2012, it has successfully held 11 sessions. Nearly 580 people from almost 30 provinces have already participated in the Harvard Training Program. Director Chen Ran of TEMC indicated that Harvard China Program has greatly promoted the exchange and cooperation between Chinese and American medical personnel in the medical and health

related fields, and promote the common progress and development of the health industry in China and U.S. The forum not only provides a full exchange of opportunities for Harvard students, but also further enhances the friendship of the Harvard students. HMS China Program has become a high-end platform in which Chinese hospital administrators and academic leaders communicate ideas and work together in order to become more and more influential, thus providing continuous study opportunity for more and more hospital administrators.

The Conference Audience



Director of Healthcare and Family Planning Committee of Hunan Province Mr. Zhang Jian, delivered his speech on opening ceremony



Vice President of Central South University Mr. Chen Xiang, delivered his speech on the opening ceremony



Dean of External Education Faculty of HMS Mr. David Roberts delivered his speech on the opening ceremony



President of The International Emergency Management Society Mr. K. Harald Drager delivered his speech on the opening ceremony



Director of TEMC Ms. Chen Ran, delivered her speech on the opening ceremony



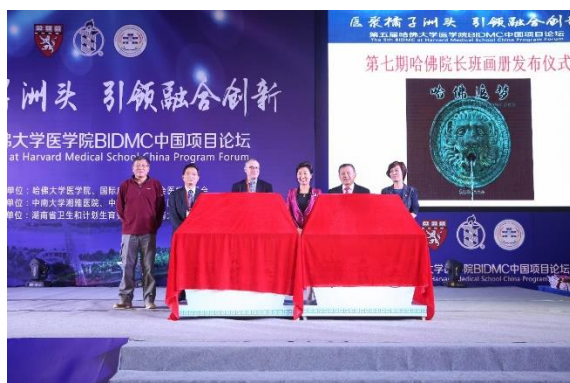
President of The Second XiangYa Hospital of Central South University Mr. Zhou Shenghua, delivered his speech on the opening ceremony



HMS, TEMC and XiangYa Medical School of Central South University signed the tripartite cooperation agreements



Beijing Huatong Guokang Foundation Namely Care for Medical Workers Specialized Fund Launch Ceremony



Album of Harvard Release Ceremony



Album of Harvard Release Ceremony



The Secretary General of TEMC Mr. He Chaoyang hosted the main forum



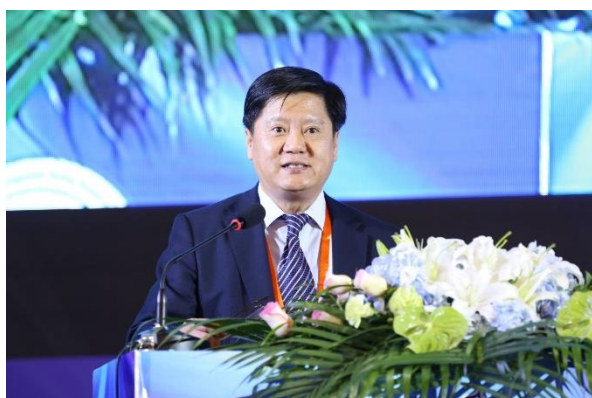
President of West China Hospital, Sichuan University Mr. Li Weimin delivered topic lecture on the main forum



Director of Healthcare and Family Planning Committee of Jiangsu Province Ms. Wang Yonghong delivered topic lecture on the main forum



Director of Healthcare and Family Planning Committee Mr. Wei Xiaochun delivered topic lecture on the main forum



President of Nanjing Drum Tower Hospital Mr. Han Guangshu hosted the main forum



President of Qilu Hospital of Shandong University Mr. Li Xingang delivered topic lecture on Hospital Presidents Sub-forum



President of Hunan Provincial People's Hospital Mr. Zhu Yimin delivered topic lecture on Hospital Presidents Sub-forum



President of Xiangya Hospital of Central South University Mr. Sun Hong delivered topic lecture on the Hospital Presidents Sub-Forum



President of Beijing Chaoyang Hospital, Capital Medical University Mr. Chen Yong hosted the Hospital Presidents Sub-Forum



President of the Second Hospital University of South China Mr. Tang Yonghong hosted the Hospital Presidents Sub-Forum



The Hospital Presidents Sub-Forum Summit Dialogue (1st)

President of the First Affiliated Hospital of Suzhou University Mr. Hou Jianquan(left), President of Beijing Chaoyang Hospital, Capital Medical University Mr. Chen Yong(central), President of the People's Hospital of Henan Province Mr. Gu Jianqin(right)

The Hospital Presidents Sub-Forum Summit
Dialogue (2nd)

President of the Second Affiliated Hospital of South China University Mr. Tang Yonghong (first on the left), President of the People's Hospital of Guizhou Province Mr. Sun Zhaolin(second on the left), President of the People's Hospital of Zhejiang Province Mr. Huang Dongsheng(first on the right), vice president of Beijing Millennium Monument Affiliated Hospital of Capital Medical University Mr. Yan Yong (second on the right)



Dean of External Education of HMS Mr. David Roberts and Director of TEMC Ms. Chen Ran awarded crystal trophy of "the 5th Harvard China Permanent Unit" to The Second XiangYa Hospital of Central South University



Dean of External Education of HMS Mr. David Roberts and Director of TEMC Mrs. Chen Ran awarded crystal trophy of "The 6th Harvard China Forum Organizer" to the Nanjing Drum Tower Hospital



Group photo



The Clinical Laboratory Sub-Forum



The Clinical Laboratory Sub-Forum Group Photo



The Cardiologists Sub-Forum Group photo



The Oncologists Sub-Forum Group photo

The 7th Annual Conference of TIEMS China Chapter

Held in Zhuhai, China November 3 – 4, 2016

From November 3rd to 4th 2016, The 7th annual Conference of the International Emergency Management Society (TIEMS) China Chapter was jointly held in Zhuhai by TIEMS China Chapter, China Emergency Rescue Equipment Industry Technology Innovation Strategic Alliance, Guangdong Provincial Government EMO and Zhuhai Government. As one of the important activities of the 11th China International Aviation and Aerospace Exhibition (hereinafter referred to as "Zhuhai Airshow"), this annual Conference focused on China's "Silk Road Economic Belt and the 21st Century Maritime Silk Road" and the military-civilian integration strategy, and further extended and enriched the content of the Zhuhai Air Show based on the Zhuhai Air Show Aerospace and Defense Theme, making it the highlight of the Air Show.

The annual Conference was co-sponsored by China Academy of Safety Science and Technology, Tsinghua University School of Public Administration, Beijing Harmony Technologies Co., Ltd. and other units.



As the co-organizers of TIEMS Zhuhai Conference, Beijing Harmony Technologies Co., Ltd. participated actively in this event

Emergency rescue industry is an emerging industry whose development is promoted by the Chinese government and worldwide. With the frequent occurrence of emergencies and the newly-released national policies, emergency industry has greatly developed in the past years. The China State Council Emergency Management Expert Group, the National Commission for Disaster Reduction, the National Development and Reform Commission, the Ministry of Industry, the Ministry of Public Security Fire Department, the China Earthquake Emergency Rescue Center, the National Safety Emergency Management Training Center, the Guangdong Provincial Government, the Zhuhai City Government, Tsinghua University Public Security Research Institute and other experts in the field of emergency and leaders of relevant departments in this field attended the Conference, and delivered opening speech as well as round-table forums. Nearly 300 Chinese and foreign emergency representatives gathered in Zhuhai to share the frontier theory of emergency management and discuss the development of emergency industry.



Opening Ceremony of the 7th Annual Conference of the International Emergency Management Society (TIEMS) China Chapter in Zhuhai on November 3rd, 2016

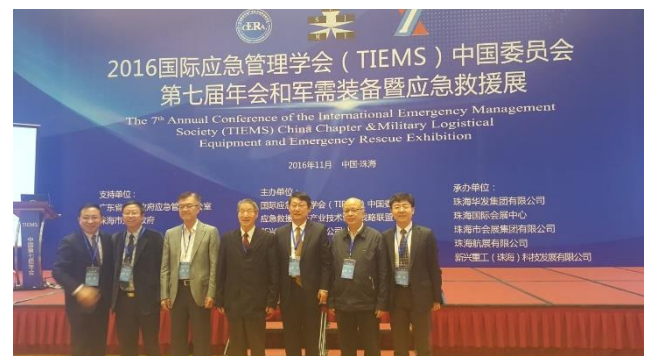


Conference Hall of the 7th Annual Conference of the TIEMS China Chapter in Zhuhai, November, 2016

The theme of this Conference is "risk, challenge, emergency and innovation". The Conference deeply discussed and exchanged the development of public safety science and technology, the development of emergency industry, the ability improvement of emergency and disaster management and the international exchange and cooperation, as well as the cutting-edge development of international emergency management through the 2-day pre-meeting training (November 1st to 2nd 2016), theme report, emergency rescue products exhibition and thematic roundtable forums.

Professor Shan Chunchang, President of TIEMS China Chapter, Professor Qu Guosheng, Vice-President of TIEMS and TIEMS China Chapter, Dr. Jack Zhang, Treasurer of TIEMS and Vice-President of TIEMS China Chapter, Chairman of the Z-park Industry Alliance of Emergency Management (ZIAEM) gave keynote speeches and hosted roundtable forums.

Prof Shan Chunchang (fourth from left), the Emergency Management Expert Group leader of China State Council, the Vice Director of National Emergency Disaster Reduction Committee of Experts, President of TIEMS China Chapter, Prof Qu Guosheng (second from left), Vice President of TIEMS and TIEMS China Chapter, Prof Fan Weicheng (third from left), Academician of CAS and Tsinghua University, Mr. Yang Bin (third from right), General Manager of Xinxing Cathay International Group and Vice President of TIEMS China Chapter, Dr. Jack Zhang (first from right), Treasurer of TIEMS, Vice President of TIEMS China Chapter and President of Z-park Industry Alliance of Emergency Management (ZIAEM) attended the opening ceremony of the TIEMS Zhuhai Conference



Prof Gui Weimin, Counselor of Shaanxi Provincial Government, leader of Shaanxi provincial government emergency management expert group and Vice Chairman of TIEMS China Chapter, presided over the opening ceremony. Prof Shan Chunchang, Leader of the China State Council Emergency Management Expert Group, Vice Director of the National Emergency Disaster Reduction Expert Committee, President of the TIEMS China Chapter, Mr. Gao Yongtao, Director of the Emergency Management Office of Guangdong Province, Mr. Wang Qingli, Vice Mayor of Zhuhai government, as well as representatives from the Ministry of Industry and Information Technology, National Development and Reform Commission, and other Emergency Department heads addressed the Conference. Professor Fan Weicheng from Tsinghua University, Ms. Jia Qun, Vice Inspector of National School of Administration of Emergency Management Training Center, Qu Guosheng, Deputy Director of China Earthquake Emergency Rescue Center Science and Technology Committee, Zhang Pingyuan, Deputy Secretary of the State Safety Production Emergency Rescue Command Center, and Zhang

2016国际应急管理学会 (TIEMS) 中国委员会
第七周年会和军需装备暨应急救援展

The 7th Annual Conference of the International Emergency Management
Society (TIEMS) China Chapter & Military Logistics
Equipment and Emergency Rescue Exhibition

2016年11月 中国·珠海

MO： 中国应急管理学会
珠海市政府应急管理办公室主任

中国应急管理学会会长

珠海华发集团有限公司董事长

珠海华发集团有限公司

珠海华发集团有限公司

珠海华发集团有限公司



二是高风险的城市，不设防的农村。

三是公共安全问题复杂性加剧，呈现出自然和人为至灾因素相互联系、传统安全和非传统安全因素相互作用、既有社会矛盾和新生社会矛盾相互交织的特点。

四是新隐患增多，各类潜在危险源增多，社会安全度变大。

五是致灾因子多、致灾链长，灾害链、次生灾害链、复合灾害链增多，甚至发生毁灭性灾害。

Vice Director of China Earthquake Emergency Rescue Center Science and Technology Committee, Vice President of TIEMS and TIEMS China Chapter, Prof Qu Guosheng expounded the progress of international emergency industry from three aspects: new concepts, new trends and new challenges of international emergency management, pointed out the problems and gaps in emergency management in China, and provided ideas for solving the existing emergency management problems in China.



Vice Director of China Earthquake Emergency Rescue Center Science and Technology Committee, Vice President of TIEMS and TIEMS China Chapter, Mr. Qu Guosheng is making keynote speech

The wonderful speeches of experts and leaders not only closely fit the theme of the Conference "risk, challenge, emergency, and innovation," but also spread the latest emergency management and industrial policy, sharing domestic and foreign advanced experience and ideas and enhancing interactions among the government, enterprises, universities and institutions.



The experts' keynote speeches and sparkling opinions have benefited everyone

As a high-level and multi-form emergency management annual event, the "Roundtable Forum" on November 4th is the highlight of this annual Conference. Participants discussed and exchanged the four topics of "Improving the urban public safety and emergency capacity", "Professional rescue and air-ground complicated SAR", "The first responder and individual protection" and "Application and innovation development of new technology". The roundtable forum of "Professional rescue and air-ground complicated SAR" hosted by the Vice President of TIEMS China Chapter, Chairman of Harmony Technologies, Dr. Jack Zhang attracted many Chinese experts in emergency industry: Yin Guanghui, Deputy Director of China Earthquake Administration, Peng Bibo, Director of Chinese People's Armed Police General Hospital, Xue Lan, Dean and Professor of Tsinghua University, Liu Tiemin, Director of China Academy of Safety Science and Technology, Wang Tong, Director of Beijing Labor Protection Office, Zhang Yongjun, Director of Dongguan EMO, Yang Bin, General Manager of Xinxing Cathay International Group, Dr. Yao Xiang in China Emergency Rescue Innovation Alliance, Li Jin, Commander of Beijing Public Security Fire Department, Zhang Qiang, Dean of Beijing Normal University as well as the experts from the United States Texas A & M University Emergency Training Center and China EU emergency management cooperation project.



Dr. Jack Zhang, Vice President of TIEMS China Chapter, President of the ZIAEM held the roundtable forum of "Professional rescue and air-ground complicated SAR"



Group photos of Vice Presidents of TIEMS China Chapter such as Prof Xue Lan, Director Liu Tiemin, Dean Zhang Qiang, with Dr. Jack Zhang, Treasurer of TIEMS, Vice President of TIEMS China Chapter and President of ZIAEM.

In the forum of Professional rescue and air-ground complicated SAR, experts discussed China's future emergency management, focusing on the "Silk Road Economic Belt and the 21st Century Maritime Silk Road" and emergency industry development strategy, more than 200 experts and guests shared their wonderful ideas concerning the following aspects: how the international and domestic emergency specialization rescue and air-sea rescue and air-ground rescue could work better? The improvement of specialized rescue capability in China should learn from the international advanced technology and application examples

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especially in emergency training and capability drilling; Enhancing emergency response capabilities of new technologies (such as VR/AR, AI, and robots, etc.) needs to focus on practicability. The deep and heated discussion and information exchange brought benefits to everyone.



Many experts in China's emergency industry attended the Roundtable Forum of "Professional rescue and air-ground complicated SAR" including Yin Guanghui, Deputy Director of China Earthquake Administration, Peng Bibo, Director of Chinese People's Armed Police General Hospital, Wang Tong, Director of Beijing Labor Protection Office and Dr. Jack Zhang, Treasurer of TIEMS etc.



Group photo of TIEMS China Chapter: Yang Bin (Second row fourth from left), Liu Tiemin (Second row fifth from left), Xue Lan (Second row fourth from right), Jack Zhang (Second row second from right), Zhang Qiang, (Second row first from right) etc.

At the end of the Conference, the Academic Organizing Committee of the Conference presented the award to 10 authors of the best paper of the year 2016. As member of the editorial board of the paper, President, Vice President of the TIEMS China Chapter like Shan Chunchang, Qu Guosheng and Jack Zhang etc. participated in the review of the collected papers and the evaluation of best paper of the year 2016.



As a member of the editorial board of the paper, Dr. Jack Zhang, Vice President of the China Chapter, participated in the evaluation of “Best paper of the year 2016”



The authors of “Best paper of the year 2016” in TIEMS Forum

TIEMS 2017 Events

TIEMS is arranging eleven (11) events in seven (7) countries in 2017. Below is the calendar:

- **10 February:** TIEMS India Chapter Workshop in New Delhi, India
- **26 May:** TIEMS Ukraine Chapter Workshop in Kyiv, Ukraine
- **12 – 16 June:** TIEMS USA Chapter Conference in Orono, Maine, USA
- **28 – 30 June:** Co-organizer of the 7th China International Fire Safety Exhibition in Guangzhou, China
- **July:** TIEMS Japan Chapter Public Conference in Tokyo, Japan
- **October:** TIEMS Iraq Chapter Conference in Erbil, Iraq
- **9 – 11 November :** Co-organizer of China Southeast Asia & South Asia Fire Safety and Emergency Rescue Technology Expo, Kunming, *China*
- **11 - 12 November:** TIEMS Emergency Medical Committee (TEMC) Annual Conference with the 6th Harvard Medical School BIDMC China Program Forum, Nanjing, China
- **13 – 15 November:** TIEMS China Chapter Annual Conference in Chengdu
- **15 – 16 November:** TIEMS Korea Annual Conference in, Ilsan, Gyunggido, Korea
- **4 – 6 December:** TIEMS 2017 Annual Conference in Kyiv, Ukraine

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TIEMS Chapters

The beauty of TIEMS is its international network of experts and chapters in different countries and regions worldwide. Such a network is very valuable for exchanging expertise and experiences, and it can help ensure that the best solutions for emergency and disaster management will be used to make a safer world.

There is a growing interest in TIEMS worldwide, and TIEMS is reaching out to emergency management and disaster stakeholder groups in an increasing number of geographical areas of the world. Since emergency management and disaster response are the responsibility of national and local authorities, TIEMS seeks cooperation with these authorities in all our initiatives and arrangements, and TIEMS global and local events are supported by the local authorities, wherever the events are arranged.

TIEMS's objective is to create a meeting place for all stakeholders in emergency and disaster management, for an open dialogue and exchange of experience and expertise, taking cultural aspects of emergency and disaster management into account. This is achieved through moving our annual conference around the world, and arranging local workshops and conferences annually in TIEMS chapter areas in cooperation with the authorities, industry and others with an interest in emergency and disaster management. This way the TIEMS international network increases and opens up an international dialogue, and also facilitates exchange of important local knowledge in emergency and disaster management. In order to reach out worldwide, TIEMS is building an international expert network, with local chapters to organize local activities, and to assure that cultural differences are understood and included in TIEMS events, education and research programs, as well as other TIEMS activities.

TIEMS chapters are self-governed entities within the TIEMS framework. Today (July 2017) chapters are established in Be/Ne/Lux, China, Finland, India, Iraq, Italy, Japan, Korea, Middle East and North Africa (MENA), Romania, USA and Nigeria & West Africa (NWA), Ukraine and Philippines. Dialogue has been opened with experts in other countries, who see the benefit of the TIEMS international expert network of chapters and members, where partnership, education and research in disaster resilience is the focus.

Chapter	Contact
BeNeLux Chapter (Belgium, Luxemburg and Netherlands)	Carmelo Di Mauro
China Chapter http://en.tiems-china.org/	Guosheng Qu Jack Zhang
Finland Chapter	Andre Samberg
India Chapter http://www.tiems-india.org	Kailash Gupta
Iraq Chapter http://isemiraq2017.com/	Shakir Katea

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Chapter	Contact
Italy Chapter http://www.tiems-ic.it	Simona Cavallini Alessandro Lazari
Japan Chapter Japan Chapter Facebook	Norio Maki
Korea Chapter http://www.dssms.org	Jae Kwon Kim
MENA Chapter (Middle East and North Africa)	Naill Momani Ayman Fadil
NWA Chapter(Nigeria & West Africa Chapter)	Ismail Sani
Philippines Chapter	Angeli Medina Maricelia Antonio Jose dela Cruz
Romania Chapter	Stela Petrescu
USA Chapter http://tiemsusa.org/	Thomas Robertson George Markowsky
Ukraine Chapter	Andre Samberg

TIEMS International Group of Experts (TIGE)

TIEMS international network of members and chapters is managed by an international group of volunteers, whom are TIEMS Directors in TIEMS International Board, Officers in TIEMS Advisory Board and members of TIEMS Chapter Boards in 14 countries. They all do an excellent job for TIEMS in maintaining and developing TIEMS worldwide with international and local TIEMS activities. This group also constitutes a large international multidisciplinary group of experts, with different educational background and various experience in the field of emergency management and disaster response. They represent a unique source of expertise and ideas, which are important assets for research and technology development activities. Below is the complete list of TIEMS International Group of Experts, 102 members from 23 countries. Their affiliations and fields of expertise are listed.

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TIEMS UNIT	NO	NAME	COUNTRY	POSITION	TIEMS UNIT	FIELDS OF EXPERTISE
TIEMS Board of Directors	1.	K. Harald Drager	Norway	President	Board of Directors	International organizational development, emergency, disaster and risk management and project management
	2.	Guosheng Qu	China	Vice President Vice President	Board of Directors China Chapter Board	Seismic risk and earthquake disaster assessment and management. Disaster preparedness and capacity buildings for USARs. Earthquake disaster information quick collection, real-time estimation and emergency response. Earthquake disaster on-site coordination and operation, Search and rescue. Multi-hazards risk assessment and management. Project management and research as well as international task force group developments.
	3.	Jaroslav Pejcoch	Czech Republic	Secretary and Chair of TIEMS Advisory Board	Board of Directors	Information systems for disaster management, Training and simulation. Risk Analysis, Information sharing and distribution. Critical Infrastructure Protection. Exercising Methods and Tools. Information @ Communications in Disasters. Information Security in Disasters.

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	4.	Ji (Jack) Zhang	China	Treasurer Vice President	Board of Directors China Chapter Board	IOT and Big-data applications in risk management and infrastructure protection; 3D simulation online emergency training sys; Risk management and early warning IT solution provider.
	5.	Snjezana Knezic	Croatia	Director Chapters & Membership TIEMS Proceedings Editor in Chief	Board of Directors	Disaster management (theory and implementation); Consequences of climate change processes; Flood management; Forest fires; Risk assessment; Critical infrastructure (NOT ICT, but transportation, water supply and similar systems); Decision support systems and Information systems design for disaster and emergency management; Some aspects of business continuity related to decision making processes
	6.	Jean- Paul Monet	France	Regional Director Europe	Board of Directors	Incident command CBRNe Robotics Industrial risks Forest and Bushfires Disaster aerial support

7.	Jae-Kwon Kim	Korea	Regional Director Asia President	Board of Directors Korea Chapter Board	Disaster analysis & assessment (geotechnical landslide & tunnel, subway, railway), Civil engineering, construction project management and railroad safety, emergency, disaster, hazard and risk management
8.	Thomas V. Robertson	USA	Regional Director North America Treasurer	Board of Directors USA Chapter Board	Organization Development Virtual Simulation Risk Communication Governance and Resilience International Education
9.	Mohammed Shuaib	Iraq	Regional Director Middle East & Africa Board Member	Board of Directors Iraq Chapter Board	Epidemiological analysis in disasters and catastrophes. Crisis management. Disability management. Preventive measures before emergency. Administration of medical services in emergencies
10.	Neil Dufty	Australia	Regional Director Australia, New Zealand & Oceania	Board of Directors	Early Warning System Design, Disaster Education and Engagement, Emergency Communications including Social Media, Evaluation of Disaster Management Performance, Social Resilience-building

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TIEMS Advisory Board	11.	Diego Otegui	Argentina	Regional Officer for Latin America and Caribbean	Advisory Board	Post-disaster security, social behaviour, emergence and convergence behaviour, post-disaster coordination, training in higher education, humanitarian relief in violent settings, community emergency management.
	12.	Meen Poudyal Chhetri	Nepal	Chair of TIEMS Paper Review Committee TIEMS Proceedings Co-Editor	Advisory Board	Effective Disaster Management Theory and Policy, Climate Change, Earthquake Disaster Prevention Technologies, and Mitigation and Management of Floods and other Disasters
	13.	Sandro Bologna	Italy	Chair of TIEMS International Program Committee Board Member	Advisory Board Italy Chapter Board	Critical Infrastructures and Communities Resilience Evaluation and Planning
	14.	Joseph Pollack	USA	TIEMS Regular Newsletter Editor Board Member	Advisory Board USA Chapter Board	Statistics (GIS, Demographics, surveying), Training Systems, Law and Policy for Technology and Emergency Management, Disaster Management

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	15.	Alex Fullick	Canada	TIEMS Special Issue Newsletter Editor	Advisory Board	Risk Assessment. Risk Management. Business Impact Analysis. Crisis Management. Crisis Communications. Business Continuity Management. Business Continuity Planning. Disaster Recovery Planning. Emergency Response & Operations. Project & Program Management.
	16.	Samantha Ridler	UK	TIEMS Social Media Editor	Advisory Board	Social Media, Business continuity planning, Alternative Finance models, Crowdfunding, Education.
	17.	George Markowsky	USA	Chair of TIEMS Education, Training and Certification Programs Board Member	Advisory Board USA Chapter Board	Cybersecurity, Computer Support Systems, SCADA, Educational Technology, and Nuclear Power Systems
	18.	Yukio Fujinawa	Japan	Chair of TIEMS Disaster Early Warning Task Force Group Board Member	Advisory Board Japan Chapter Board	Earthquake disaster information: earthquake early warning and earthquake prediction

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	19.	Chen Ran	China	TIEMS Emergency Medicine Committee (TEMC) President	Advisory Board	Epidemic diseases, health statistics, program design & assessment and health management.
	20.	Shakir Katea	Iraq	TIEMS Task Force Activity Officer Board Member	Advisory Board Iraq Chapter Board	Risk assessment, Incident command, Emergency response
	21.	Nina Frolova	Russia	TIEMS Research, Technology and Development Coordinator	Advisory Board	Earthquake loss assessment in emergency mode; seismic risk assessment taking into account technological accidents; multi-hazards risk assessment and management
	22.	Ranko Britovic	Croatia	Officer for Sponsorship, Partnership & Exhibitors	Advisory Board	Disaster Law, EU projects, Civil Protection Education and Training activities
	23.	Wenlong Yang	China	TIEMS Asia Secretariat Officer	Advisory Board	Community emergency management. Seismic Hazard Analysis. Emergency education and training. Design and Plan of Disaster and Emergency Safety Experience Hall. Emergency industrial park planning consultation.
	24.	Kay Goss	USA	President	USA Chapter Board	Emergency management planning, training, higher education, standards, accreditations, certifications, and technologies

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TIEMS USA Chapter Board	25.	Brent Woodworth	USA	Vice President	USA Chapter Board	Disaster preparedness, risk management, catastrophic event response, community relations, humanitarian relief, and community/government partnerships.
	26.	Carl Taylor	USA	Board Member	USA Chapter Board	<p>Disaster Planning, Training and Response for Health Professionals.</p> <p>Emergency Medical Operations Management.</p> <p>Medical Surge Capacity and Situational awareness. Software Design and Development for Disasters for Health Facilities. Informatics, Risk Analytics and Big Data. Simulation and Visualization for Disaster Planning and Exercises. Geo Mapping. Founding Partner- Fraser Institute for Health and Risk Analytics - Princeton NJ CEO XCH LLC. Globally involved in software and tools for disaster response - Florida and Kenya.</p> <p>Member of the Crisis Mapping Community.</p> <p>Contributor to the Understanding Risk Community. Former Executive Director National Center for Disaster Medical Response. Founder of Advanced Regional Response Training Center. BS in Political Science</p> <p>JD (Juris Doctor of Law).</p>

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	27.	Nathaniel Forbes	USA	Board Member	USA Chapter Board	Business continuity management (BCM), IAEM member, traumatic stress intervention, #Persuade! for presenters
	28.	Josef Leitmann	USA	Board Member	USA Chapter Board	Post-disaster reconstruction. Post-disaster needs assessments. Disaster recovery frameworks. Urban resilience. Financing for disaster risk management. Climate change mitigation and adaptation. Urban environmental management. Natural resource management. Clean energy.
	29.	James Hagen	USA	Board Member	USA Chapter Board	International emergency management training. Use of Near Earth Objects (satellites) in risk assessment and disaster management. Application of IoT and Big Data in Disaster Management. Infectious Disease Epidemiology in public health disasters. Public health response to natural and man-made disasters
	30.	Murray Turoff	USA	Board Member	USA Chapter Board	Emergency Management Information Systems. Emergency Management Education. Planning and Forecasting Methods. Delphi Design and Collaborative Methods. Interactive Systems Design and Evaluation. Information Systems. Management Science. Decision Support Systems and Modelling.

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	31.	Vilma Milmoe	USA	Board Member	USA Chapter Board	Senior Advisor US Integrated and Whole Community Emergency and Disaster Management Theory, Policies and Procedures. Crisis Management. All Hazards Emergency Management and Risk Assessment. Resilience and Capability Building. Continuity of Operations. Instructional Design and Adult Educational Concepts. Training and Education Platforms and Learning at a Distance. Organizational Development and Management. Total Quality and Project Management. First Vice President, International Network of Women in Emergency Management (inWEM), and 2015 Inductee, International Women in Homeland Security and Emergency Management Hall of Fame.
	32.	John Light	USA	Working on a Fellowship Grant to TIEMS USA	Working on a Fellowship Grant to TIEMS USA	Human-Computer Interaction. Information visualization. Software lens technology. Internet of Things. Ubiquitous computing. Neuroscience application to computing. Linux kernel hacking. Software optimization. Software threat analysis. Communication protocol design. Brain lateralization theory.

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TIEMS Middle East & North Africa Chapter Board	33.	Ayman Fadil	Saudi Arabia	President	Middle East & North Africa Chapter Board Chapter Board	Disasters Risk Management, Economics of Disasters
	34.	Naill Momani	Jordan	Board Member	Middle East & North Africa Chapter Board	Disasters Risk Management, Earthquakes Consequences Management
	35.	Mohamad Zhagal	Jordan	Board Member	Middle East & North Africa Chapter Board	Information, Communication and Technology of Disasters Management
	36.	Hassan Taibah	Saudi Arabia	Board Member	Middle East & North Africa Chapter Board	Crowd management, risk communication, social vulnerability
TIEMS Iraq Chapter Board	37.	Ayad Jasim Matar	Iraq	Board Member	Iraq Chapter Board	Risk assessment, Incident command, Emergency response training

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TIEMS Nigeria & West Africa Chapter Board	38.	Ismail Sani	Nigeria	Executive Director	Nigeria & West Africa Chapter Board	He is a Media/Public relations expert with speciality in Disaster and rescue operation management. He is the Proprietor of a radio station called Platinum Radio FM and Executive producer of "Rescue Team" radio public enlightenment programme on disaster and rescue operation. - TIEMS Representative/ Executive Director
	39.	Audu Mohammed Bida	Nigeria	Chairman and Head of Training	Nigeria & West Africa Chapter Board	He is a retired Air Vice Marshal in the Nigerian Airforce and former Director General of the National Emergency Management Agency (NEMA). He is Chairman and Head of Training
	40.	Yushau Shuaib	Nigeria	Board Member and Director of Special Duties	Nigeria & West Africa Chapter Board	He is public relations expert with speciality in disaster management. He was a former spokesperson of the National Emergency Management Agency (NEMA). He is Director of Special Duties in TIEMS Nigeria & West Africa.
	41.	Sanya Adejokun	Nigeria	Board Member and Director of Publicity	Nigeria & West Africa Chapter Board	He is a journalist trained to cover rescue and disaster management. He is the former Chairman of Journalist Against Disaster (JADI). He is Director of Publicity in TIEMS Nigeria & West Africa
	42.	Jibrin Ndace	Nigeria	Board Member and Director of Mobilisation	Nigeria & West Africa Chapter Board	He is a journalist but trained to cover disaster and rescue operation - He is our Director of Mobilisation TIEMS Nigeria/ West Africa Chapter

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TIEMS Italy Chapter Board	43.	Simona Cavallini	Italy	President	Italy Chapter Board	Economics of security with specific competences in the analysis of interdependencies between infrastructures (and critical infrastructure protection in general), in the definition of security and resilience strategies and policies, in socio-economic impact assessment of critical events, in information sharing issues in emergency response (interagency cooperation included) and in the analysis of optimal security investments.
	44.	Alessandro Lazari	Italy	Secretary	Italy Chapter Board	Policy and strategy on Critical Infrastructure Protection and Resilience
	45.	Vittorio Rosato	Italy	Board Member	Italy Chapter Board	Risk Analysis of Critical Infrastructures Simulation models of Critical Infrastructures
	46.	Paolo Trucco	Italy	Board Member	Italy Chapter Board	Industrial Risk Analysis and Management, Network Enabled Operations, Resilience engineering

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TIEMS Romania Chapter Board	47.	Stela Petrescu	Romania	Board Member	Romania Chapter	Accumulated experience from Romanian hazard and risk mitigation project regarding earthquakes, floods and landslides. Active involved since 2007 in the Romanian Red Cross (RRC). The RRC is a national humanitarian NGO, offering emergency assistance during occurred disasters, prevention measures and education, sanitary education, various social activities for vulnerable young and elder people on voluntary basis.
TIEMS India Chapter Board	48.	Kailash Gupta	India	Managing Trustee	India Chapter	Disaster research, including quick response research; mass-fatalities management; strategic management and institutional building; response and preparedness; crisis participatory governance; amateur radio communications
	49.	Gaurav Natani	India	Trustee	India Chapter	Insurance planning for disaster risk reduction and management; Risk communication via social media
	50.	Neelay Srivastava	India	Secretary	India Chapter	Geoinformatics Applications, ICT, DM Planning, Hazards Mapping-(Flood, landslide, chemical disaster), Risk and damage/loss assessment, Earthquake Risk Reduction
TIEMS Korea	51.	Young Jai Lee	Korea	Board Member	Korea Chapter Board	Disaster management, Business Continuity Risk-Based Decision making

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Chapter Board	52.	Jihyeob Ryu	Korea	Board Member	Korea Chapter Board	Early warning system design in landslide and debris flow. Disaster management. Risk assessment and management. Emergency management planning, training, education
	53.	Changsam Jeong	Korea	Board Member	Korea Chapter Board	Hydrology, Meteorology Hazards Mapping-(Flood), Frequency analysis, Optimization
	54.	Dongkeun Yoon	Korea	Board Member	Korea Chapter Board	Disaster management, Disaster planning and policy, Risk assessment, Vulnerability assessment, Flood mitigation measures, Big-data application in hazard and risk analysis, Hazard mapping
	55.	Heekyung Park	Korea	Board Member	Korea Chapter Board	Urban infrastructure & Disaster management, Community Resilience, Policy & Strategy decision support modelling, Integrated Disaster Management
	56.	Namyong Park	Korea	Secretary	Korea Chapter Board	Emergency, disaster, risk management, crisis communication and decision support
TIEMS China Chapter Board	57.	Shan Chunchang	China	President	China Chapter Board	National policy making in emergency management. Emergency system and response plan making and fulfilment.
	58.	Ning Chunlin	China	Secretary	China Chapter Board	Emergency industry. Heavy facilities on emergency rescue and management.

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	59.	Xiang Yao	China	Deputy Secretary	China Chapter Board	International risk management and training base construction.
	60.	Hui Ding	China	Board Member	China Chapter Board	Risk management, Standardization on DRR and EMS.
	61.	Tiemin Liu	China	Board Member	China Chapter Board	Risk management, Resilience and Work-safety research, DRR and EMS solutions.
	62.	Jiaqi Ji	China	Board Member	China Chapter Board	Emergency management.
	63.	Jing Li	China	Board Member	China Chapter Board	Remote Sensing, GIS, and their applications in Emergency Management.
	64.	Bin Yang	China	Board Member	China Chapter Board	Emergency Industry DRR and EMS solutions.
	65.	Weimin Gui	China	Board Member	China Chapter Board	Risk management, Emergency management.
	66.	Huadong Guo	China	Board Member	China Chapter Board	Emergency management.
	67.	Lan Xue	China	Board Member	China Chapter Board	Risk management, Resilience and DRR and EMS research.
	68.	Qiang Zhang	China	Board Member	China Chapter Board	Risk management, Resilience and NGO EMS research, DRR solutions.

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	69.	Chunlin Liu	China	Board Member	China Chapter Board	Risk management, Resilience research, DRR and EMS solutions.
	70.	Xiaoning Zhang	China	Board Member	China Chapter Board	Emergency management.
	71.	Guanghui Yin	China	Board Member	China Chapter Board	Earthquake management, EMS and DRR solutions.
TIEMS Japan Chapter Board	72.	Haruo Hayashi	Japan	President	Japan Chapter Board	Disaster Psychology, Emergency Response and Recovery
	73.	Norio Maki	Japan	Secretary	Japan Chapter Board	Planning, Disaster Reduction, and Recovery
	74.	Keiko Tamura	Japan	Board Member	Japan Chapter Board	Disaster reduction for Person with Special Needs, Relief Operation and Individual Recovery
	75.	Hidenori Tanaka	Japan	Board Member	Japan Chapter Board	Disaster reduction planning, and Business continuity management
	76.	Kenji Watanabe	Japan	Board Member	Japan Chapter Board	Business Continuity Management, Risk management for ICT
	77.	Munenari Inoguchi	Japan	Board Member	Japan Chapter Board	ICT for disaster management, individual recovery

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TIEMS Ukraine Chapter Board	78.	Andre Samberg	Ukraine	President	Ukraine Chapter Board	Geoinformatics, ICT, GIS, public safety communications, disaster relief, policy & strategy decision support, CBRNE, first responding, situational awareness, critical infrastructure information protection, critical infrastructure protection, remote sensing, hazards mapping, standardization
	79.	Serhii Chumachenko	Ukraine	Secretary	Ukraine Chapter Board	CBRNE, GIS, ecological monitoring. Simulation emergency situation. Emergency management, disaster relief, first responders, remote sensing, disaster mapping, hazards mapping. ICT. Risk assessment for critical infrastructure
	80.	Pospelov Boris	Ukraine	Treasurer	Ukraine Chapter Board	Emergency management, risk assessment, stochastic models of natural and technical emergencies, innovative technologies for early detection of emergency situations, remote monitoring, technology of building optimal technical environmental security systems, wireless telecommunications critical applications, robotics, localization and liquidation of consequences of emergency situations.

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	81.	Yevhen Yakovliev	Ukraine	Chair of Board	Ukraine Chapter Board	Disaster management, Disaster planning and policy, Risk assessment of geological media, Vulnerability assessment of geological media in mining regions, Flood mitigation measures, National policy making in emergency management; Emergency system and response plan making and fulfilment
	82.	Serhiy Ponomarenko	Ukraine	Board Member	Ukraine Chapter Board	Remote sensing, avionics, disaster modelling
	83.	Serhii Stankevich	Ukraine	Board Member	Ukraine Chapter Board	Disaster mapping, disaster analyses and modelling, remote sensing
	84.	Oleksii Mikhno	Ukraine	Board Member	Ukraine Chapter Board	Geoinformatics, geospatial analysis, remote sensing

TIEMS President 2017 Annual Report

TIEMS Philippines Chapter Board	85.	Jaime Almora	Philippines	Vice President	Philippines Chapter Board	Level 1 Hospital owner & Medical Director, Surgeon, Vice President, Philippine Hospital Association (PHA), Chairman, Committee on Disaster Preparedness & Response PHA, President, Philippine College of Surgeon NE Luzon Chapter, Founder, Regional Emergency Assistance Communications Team (REACT), Chairman, Committee on New & Emerging Diseases, Founder, Mutual Assistance Agreement, Best in Business Excellence & Farmer Scientist for Hybrid Rice Seed Production Award, Agriculture, Forestry & Natural Resources Research and Development
	86.	Elinor Grace Andam	Philippines	Board Member	Philippines Chapter Board	Business Continuity & Information Security, Management System practice in Information & Communications Technology, Real Estate Developer, Certified in Quality Management System ISO 9001, Information Security Management System ISO 27001, Business Continuity Management System ISO 22301, Environmental Management System ISO 14001 & Associate Business Continuity Professional (ABCP).

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	87.	Marcelia Antonio	Philippines	Alternate Secretariat	Philippines Chapter Board	Fire Inspector, Chief Research and Academic Affairs Division of National Fire Training Institute, Dean & project Coordinator of Master in Crisis & Disaster Risk Management Program of the Philippine Public Safety College, Training Coordinator for the Community Based Disaster Risk Reduction Management of the Department of Interior & Local Government, RN with Master in Public Administration, Civil Service Commission Pag-asa Award, The Netherlands, Model Employee of the Year in Officer Category, International instructor under the Program of Enhancement for Emergency Response (PEER) National Society for Earthquake Technology (NSET) of USAID.
	88.	Jose dela Cruz	Philippines	Secretariat	Philippines Chapter Board	Certified Business Continuity Professional, Associate Member Business Continuity Institute, DRI Philippines Instructor, CFC Missionary for Social Development Program, Information Technology, Insurance & Banking Industries, Software Development, Financial Business.

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	89.	Ricardo De Leon	Philippines	Vice President	Philippines Chapter Board	Philippine Military Academy graduate, General (ret), President of Philippine Public Safety College for Philippine National Police, Bureau of Fire Protection & Bureau of Jail Management & Penology, Former Executive Vice President of Centro Escolar University & President of Mindanao State University.
	90.	Judith Geronga-Dolot	Philippines	Treasurer	Philippines Chapter Board	Deputy Director & Assistant Executive Officer, Incident Management Team, Bangko Sentral ng Pilipinas, Asia Pacific Center for Security Studies, Honolulu, Hawaii, Advanced Security Cooperation Fellow's Project: Integration of BSP Security Units, National Defense College of the Philippines, Master in National Security Administration (Bronze Medalist: Best Thesis Award).

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	91.	Roberto Estioko	Philippines	Board Member	Philippines Chapter Board	Admiral, President of National Defense College of the Philippines (NDCP), Philippine Military Academy graduate, Master in Management & National Security Administration & Doctor of Philosophy in Development Education, Chief Naval Intelligence, Commander Naval Intelligence & Security Force, Naval Inspector General, Senior Fellow for Development & Security.
	92.	Roberto Genave	Philippines	Board Member	Philippines Chapter Board	Director, National Fire Training Institute, Engineering Degree. Philippine National Police Academy Cadet, Senior Inspector & Superintendent

TIEMS President 2017 Annual Report

	93.	Rodney Jagolino	Philippines	Board Member	Philippines Chapter Board	Vice President for Academics, Philippine Public Safety College, Facilitates the Master in Crisis and Disaster Risk Reduction Management, Co-facilitator for the Multilateral Organizational Performance Assessment Network, Philippine Country Dialogue for UNDP, UNICEF, UNAIDS and World Bank commissioned by the Organization for Economic Cooperation & Development, administrative and technical support to Secretary of National Defense, National Security Adviser, Executive Doctorate in Education Leadership & Masters in National Security Administration
	94.	Ricardo Jalad	Philippines	Consultant	Philippines Chapter Board	Undersecretary of Office of Civil Defense, Executive Director of the National Disaster Reduction and Management Council (NDRRMC)

TIEMS President 2017 Annual Report

	95.	Reynaldo Laguda	Philippines	Board Member	Philippines Chapter Board	Former Undersecretary of Education Data Analysis, Project Management, Public Relations, Public Policy, Public Sector Financial Management, Educational Technology, Business Process Improvement, Human Resource Development, Corporate Social Responsibility, Strategic Leadership, Disaster Risk Reduction, Management Information Systems (MIS).
	96.	Angeli Medina	Philippines	Executive Director/ Acting President TIEMS QIEDM Certification Officer Board Member	Philippines Chapter Board USA Chapter Board	BSN, Masters in Public Administration with focus on Public Policy, Nurse Educator, Certified Healthcare Provider Continuity Professional, Certified Business Continuity Professional, Certified Emergency Nurse, Certified Trauma Nurse, Associate Member Business Continuity Institute, DHS/FEMA Healthcare Leadership for Mass Casualty and Hospital Emergency Response Trainer, Basic and Advance Cardiac Life Support Instructor, Basic and Advance Disaster Life Support Certified, Disaster Emergency Management Personnel System Responder, Healthcare Continuity Reserve Corps co-facilitator under the PHA, NYC Medical Reserve Corps Point of Dispensing (POD) Area Operation Manager,

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	97.	Maria Lourdes Otayza	Philippines	Board Member	Philippines Chapter Board	Physician, Board of Director, Philippine Hospital Association (PHA), Medical Center II, Disaster Preparedness & Response Committee, PHA, International Hospital Federation Presenter in Illinois, , South Africa and Washington DC, Chairman, Research Agenda Committee, Association of Health Administration, Public Health Association, Founder & Board of Trustee Salun-at Foundation.
	98.	Alexander Pama	Philippines	Consultant	Philippines Chapter Board	Former Undersecretary for the Office of Civil Defense, Flag Officer in Command of the Philippine Navy, Vice Commander of Naval Inspection General, Strategic Intelligence, Defense Intelligence, Operations Control Division Chief, Responsible for the Naval offensive against Abu Sayaf Group, Navy Anti-Terrorism Task Group.
	99.	Austere Panadero	Philippines	Board Member	Philippines Chapter Board	Undersecretary for Local Government of the Interior & Local Government (DILG), local government supervision, monitoring and enforcement in the areas of poverty, reduction, economic development, climate change adaptation, disaster risk reduction and environmental management.

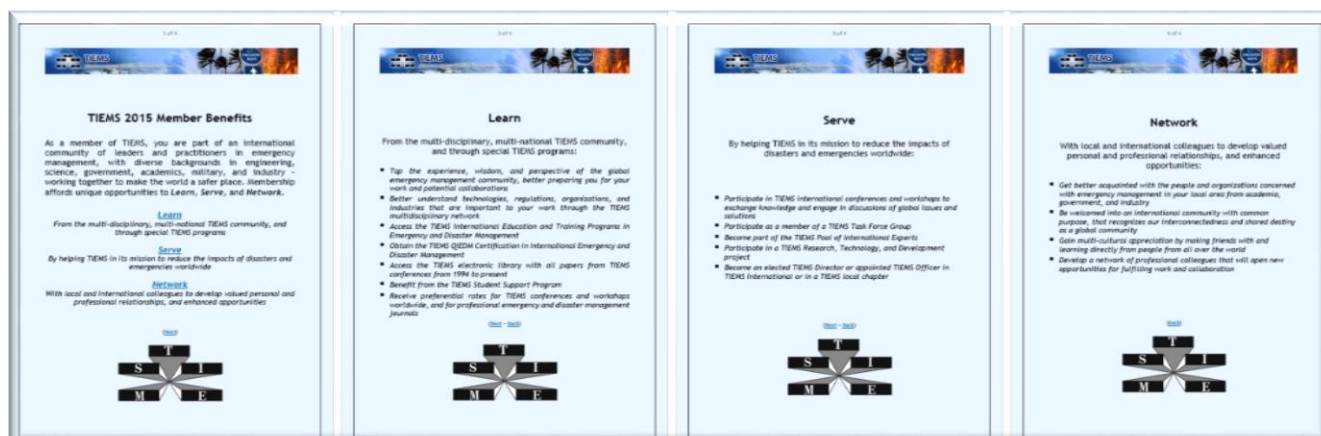
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	100.	Joey Sarte Salceda	Philippines	Consultant	Philippines Chapter Board	<p>Congressman, Representative from 2nd District of Albay, Senior Vice Chairman of the House Committees on Ways and Means, Economic Affairs and Local Government, House Committee on Appropriations & House of Special Committee on Climate Change, Chairperson of the Department of national Defense Multi-Sector Advisory Council, His district has been judged by the DILG as the Best Province in Local Governance ranked #1, It's Disaster Management body, Albay Public Safety & Emergency Management Office is a pioneer in Asia, & Best Disaster Risk Reduction & Management Council, Member of the Board of the Green Climate Fund, First Senior Global Champion on Disaster Risk Reduction and Climate Change Adaptation by the United Nations International. Strategy for Disaster Reduction, established the Climate Change Academy, Green Economist, Best Analyst for Swiss bank Corporation</p>
	101.	Renato Umali Solidum Jr.	Philippines	Vice President	Philippines Chapter Board	<p>Undersecretary for the Department of Science and Technology, Disaster Imagination, Director of Philippine Institute of Volcanology & Seismology.</p>

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TIEMS BeNeLux Chapter Board	102.	Carmelo Di Mauro	Luxembourg	Coordinator for re- establish a BeNeLux Chapter Board		Risk Management Strategies, Resilience and Communication
		Robert Miskuf		Main Contact for TIEMS International Group of Experts	TIEMS Secretariat	

TIEMS 2016 Member Benefits



As a member of TIEMS, you are part of an international community of leaders and practitioners in emergency management, with diverse backgrounds in engineering, science, government, academics, military, and industry - working together to make the world a safer place. Membership affords unique opportunities to

Learn, Serve, and Network.

Learn

From the multi-disciplinary, multi-national TIEMS community, and through special TIEMS programs

Serve

TIEMS President 2017 Annual Report

By helping TIEMS in its mission to reduce the impacts of disasters and emergencies worldwide

Network

With local and international colleagues to develop valued personal and professional relationships, and enhanced opportunities

Learn

From the multi-disciplinary, multi-national TIEMS community, and through special TIEMS programs:

- *Tap the experience, wisdom, and perspective of the global emergency management community, better preparing you for your work and potential collaborations*
- *Better understand technologies, regulations, organizations, and industries that are important to your work through the TIEMS multidisciplinary network*
- *Access the TIEMS International Education and Training Programs in Emergency and Disaster Management*
- *Obtain the TIEMS QIEDM Certification in International Emergency and Disaster Management*
- *Access the TIEMS electronic library with all papers from TIEMS conferences from 1994 to present*
- *Benefit from the TIEMS Student Support Program*
- *Receive preferential rates for TIEMS conferences and workshops worldwide, and for professional emergency and disaster management journals*

Serve

By helping TIEMS in its mission to reduce the impacts of disasters and emergencies worldwide:

- *Participate in TIEMS international conferences and workshops to exchange knowledge and engage in discussions of global issues and solutions*
- *Participate as a member of a TIEMS Task Force Groups*
- *Become part of the TIEMS Pool of International Experts*
- *Participate in a TIEMS Research, Technology, and Development projects*
- *Become an elected TIEMS Director or appointed TIEMS Officer in TIEMS International or in a TIEMS local chapter*

Network

With local and international colleagues to develop valued personal and professional relationships, and enhanced opportunities:

- *Get better acquainted with the people and organizations concerned with emergency management in your local area from academia, government, and industry*
- *Be welcomed into an international community with common purpose, that recognizes our interconnectedness and shared destiny as a global community*

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- *Gain multi-cultural appreciation by making friends with and learning directly from people from all over the world*
- *Develop a network of professional colleagues that will open new opportunities for fulfilling work and collaboration*

TIEMS 2016 Award Winners

TIEMS believes that one way to improve disaster preparedness and reduce the consequences of disasters, is to recognize and stimulate those who do excellent work within emergency and disaster management. Also, stimulating and encouraging young people to participate in this work and engage themselves in emergency and disaster management is important for the recruitment of young talents into this field. These are the motivations behind TIEMS Awards and Student Support.

The TIEMS awards for 2016 were granted as shown below, and TIEMS would like to congratulate the winners of the Paper Awards bestowed during the recent annual conference in Rome, Italy. Each was awarded a certificate and 120 Euros, generously donated by the **TIEMS China Chapter**. While there were many excellent presentations made at the conference, only authors who submitted full text papers were eligible for these awards. The award winners are:

- **TIEMS 2016 Best Paper Award – Importance to the Field:** George M. Karagiannis, “Emergency Management Aspects of the European Migration Crisis”
- **TIEMS 2016 Best Paper Award – Practical Application:** Jaroslav Pejcoch, “Stress Test Not Only for Banks and Nuclear Power Plants”
- **TIEMS 2016 Best Paper Award – Creativity:** LI Xuanye, “Total Systematic Field Solution for Emergency Cases”.

The **TIEMS 2016 President’s Outstanding Achievement Award** was given to Carmelo Di Mauro and Vittorio Rosato, for their outstanding and excellent work in arranging TIEMS 2015 Annual Conference in Rome, Italy.

International Events Supported and Endorsed by TIEMS in 2016

TIEMS has endorsed and supported the following conference:

1. Final conference of the POP-ALERT & TACTIC projects, 15 – 16 March 2016, Brussels, Belgium
2. The Asia Emergency Management Expo (AEME) and Conference (AEMC) will take place from 10 to 12 May 2016 at the Venetian, Macao.
3. 14th PSCE Biannual Conference in Brussels, Belgium, 18 – 19 May 2016
4. Geospatial World Forum 2016 in Rotterdam, Netherlands, 23 – 26 May 2016
5. Nice Global Forum on Homeland Security & Crisis Management, October 25-28, 2016 in Nice, France
6. China (Kunming) Southeast Asia & South Asia Fire Safety and Emergency Rescue Technology Expo, 9 – 11 November, 2016, in Kunming, China

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TIEMS Newsletters in 2016

TIEMS issued six newsletter editions in 2016, three regular issues and three special edition issue. TIEMS has two volunteer newsletter editors, given responsibility for one newsletter each, Joseph Pollack for the Regular Newsletter and Alex Fullick for the Special Edition Newsletter.

The Regular Newsletter issues in 2016 are:



Issue no 26
March 2016



Issue no 27
July 2016



Issue no 28
November 2016

The Special Edition Newsletter issues in 2016 are:



Issue no 2
March 2016
Selected Paper
from the EU
Driver Project



Issue no 3
July 2016
Selected papers from
the AEMC Conference
in Macao and
the EU PHAROS Project



Issue no 4
October 2016
Papers from TIEMS
2016 Annual Conference
in San Diego

All newsletters can be downloaded at: <http://www.tiems.info/index.php/our-archives/newsletter>

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TIEMS ACADEMY and QIEDM CERTIFICATION

TIEMS started already in 2006 with developing its international education, training and certification program, and it has developed over the years with influence from different TIEMS experts and chapters. The present concepts are described below, and it is expected the program will develop considerably now, when TIEMS has appointed two officers with dedicated responsibility for each part of the program:

- TIEMS Academy Officer – George Markowsky
- TIEMS QIEDM Officer – Angeli Medina

TIEMS Academy

The goals of the TIEMS Academy are:

- *Educating the Public*
- *Educating Children*
- *Educating Officials Improving Preparedness*
- *Offering Courses and Training*
- *Helping Certify Expertise*
- *Build and Distribute Emergency Management Tools*

TIEMS Academy will develop in in close cooperation with TIEMS QIEDM Certification needs, but also with guidance and input from TIEMS Chapters.

The TIEMS Academy present plans are:

- Develop an internationally shared understanding of emergency management elements, qualifications, and terminology
- Help students find and connect with useful live and online educational resources
- Make increasing amounts of emergency management knowledge available online, especially vulnerable societies
- Provide a platform to share critical lessons learned from disasters and emergencies
- Create an eLearning and Certification platform that will foster, across the international community, a shared, common understanding of emergency management elements, standards, and terminology
- Establish a directory of educational resources, described within a common framework, including live and online degree programs, courses, workshops, and knowledge bases
- Create an online portal that will make emergency management educational resources, from established educational institutions and initiatives, broadly available to students worldwide.

The TIEMS Academy will start out using FreeConferenceCall.com as its platform for eLearning. FreeConferenceCall.com makes it easy to have online courses and meetings with up to 1,000 simultaneous participants.

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

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TIEMS QIEDM Certification

TIEMS believes there is a need for an internationally shared understanding of emergency management elements, qualifications, and terminology. Hence, TIEMS is launching TIEMS – QIEDM - Certification of Qualifications in International Emergency and Disaster Management, as a global concept to establish such a shared understanding.

The present concept of TIEMS QIEDM Certification Program is found in the following, but this program will be developed further according to international needs.

Education Courses:

- The course curriculum will be comprised of both theoretical and practical courses and hands on training
- Courses will be offered by TIEMS in cooperation with Universities and Training Institutions worldwide through TIEMS Academy
- Participants must receive a passing grade on the certification exam
- TIEMS Chapters will be responsible for adding local/national competences

Once a review is performed of all submitted documentation and a passing grade is achieved on the certification exam, the TIEMS-QIEDM designation will be awarded by TIEMS QIEDM Certification Board.

Recertification will be required every three (3) years by successfully completing three QIEDM TIEMS International courses and submitting the appropriate recertification application.

Applicants Requirements:

- *Being Certified in Emergency Management/Disaster Response or Similar by Another Certifying Institution Approved by TIEMS*
- or
- *Document a Practical or Theoretical Background in Emergency and Disaster Management for a minimum of 4 years*
 - *Provide a Letter of Recommendation to TIEMS QIEDM Program from a Current or Former Employer*

QIEDM Certification Objectives:

- Availability Globally
- Web-based On-Line
- Low Cost
- A Common Understanding of Emergency and Disaster Management
- The Common Language is English, but local language adaption in TIEMS Chapter Countries
- Lessons Learned Focus
- State-of-the-Art and Up-to-Date

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TIEMS on Social Media

TIEMS has been active on Twitter and Facebook since 2011, and TIEMS has appointed Samantha Ueno as responsible for editing TIEMS social media publications.

The Twitter account has now reached 1086 tweets and has 293 followers, and the activity level is high with good participation from many international actors. The TIEMS Facebook page has pictures and reports from the latest TIEMS events, and both Twitter and Facebook will be regularly used in future TIEMS events.

Also other social media will be explored for active participation of TIEMS in the future.

EU Projects with TIEMS Participation

TIEMS is involved in two RTD projects, financed by the European Commission.

ASSET

<http://www.asset-scienceinsociety.eu/>



ASSET is a 48 month project to:

- Forge a partnership with complementary perspectives, knowledge and experiences to address effectively scientific and societal challenges raised by pandemics and associated crisis management
- Explore and map Science in Society related issues in global pandemics
- Define and test a participatory and inclusive strategy to succeed
- Identify necessary resources to make sustainable the action after the project completion.

ASSET combines public health, vaccine and epidemiological research, social and political sciences, law and ethics, gender studies, science communication and media, to develop an integrated, transdisciplinary strategy, which will take place at different stages of the research cycle, combining local, regional and national levels.

ASSET is close to its conclusion and its experts will present the main project's outcomes during the ASSET Final Event, a two-days conference that will be held in Rome, on October 30-31 2017, at the hotel NH Roma Leonardo Da Vinci.

HERACLES

<http://www.heracles-project.eu/>



The HERACLES EU project's main objective is to design, validate and promote responsive systems/ solutions for effective resilience of cultural heritage sites against climate change effects, considering as a mandatory premise a holistic, multidisciplinary approach through the involvement of diverse expertise.

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This will be pursued operationally with the development of a system exploiting an ICT (Information and Communication Technology) platform able to collect and integrate multisource information to effectively provide complete and updated situational awareness and decision support using innovative measurements improving cultural heritage site resilience, including new solutions for maintenance and conservation.

TIEMS has also been/is a member of the following EU projects Advisory Boards *or member of the end user group* of the following EU projects:

- ACRIMAS; www.acrimas.eu/
- Opti-Alert; www.opti-alert.eu/
- CRISMA; www.crismaproject.eu/
- Archimedes; www.archimedes-eu.eu/
- EDEN; www.eden-security-fp7.eu/
- DRIVER; www.driver-project.eu/
- TAWARA_RTM; www.caen.it/csite/DisplaySupportData.jsp?Type=News&Id=47&home=y
- PHAROS; www.pharos-fp7.eu/
- RESCUER; www.rescuer-project.org/
- TARGET; www.target-h2020.eu/

TIEMS member experts and end users are valuable assets for EU projects, and also TIEMS worldwide conferences and workshops every year are efficient ways to disseminate results from EU projects. Therefore, TIEMS is invited to participate as a Consortium partner in many EU project proposals.

TIEMS will encourage and stimulate more participation in RTD project proposals in the coming years, and will monitor research calls from EU and notify TIEMS members in order to initiate RTD participation.

Other research funding opportunities worldwide will also be explored in 2017.

TIEMS Library Update

TIEMS Library was opened at the end of 2012 containing most papers presented at TIEMS annual conferences from 1994 to present, as well as papers and posters from some of the workshops and conferences arranged by TIEMS. The address of the TIEMS Library is:

<http://www.tiems.info/index.php/our-archives/library>

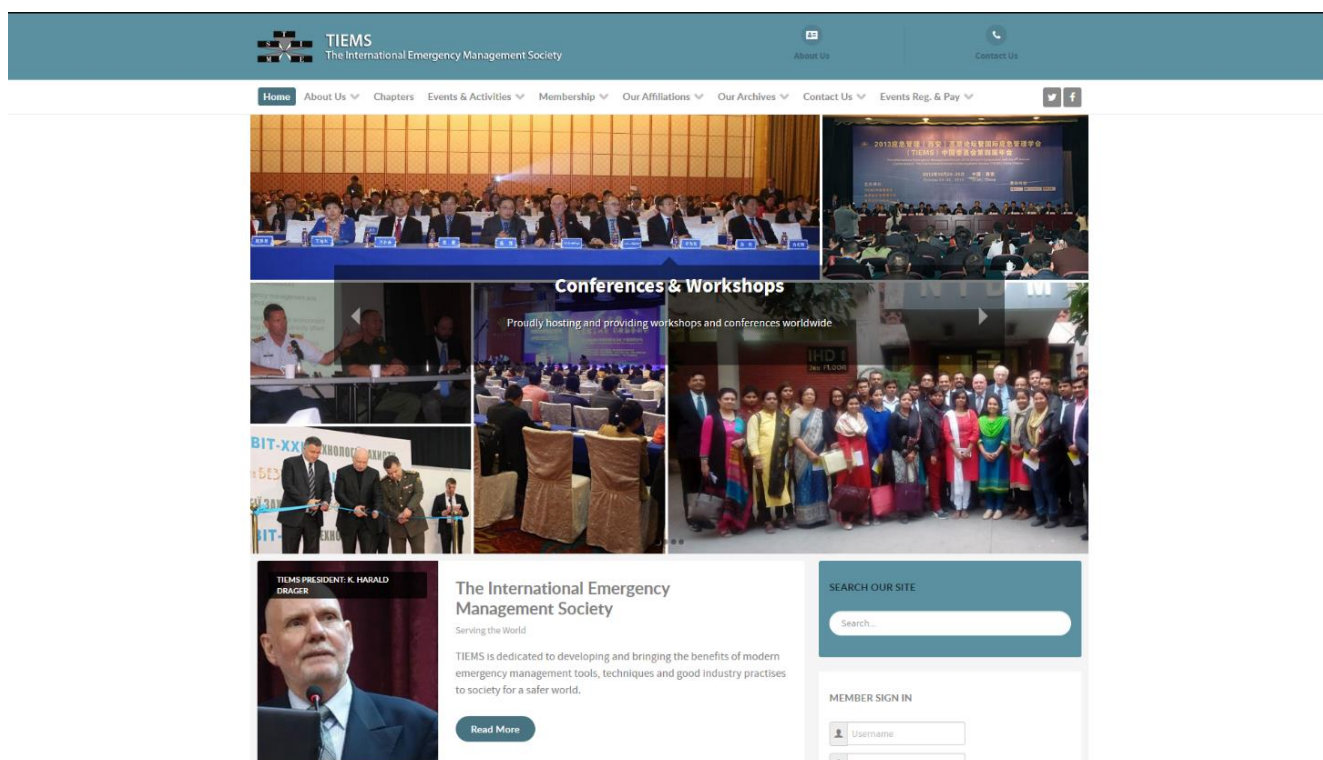
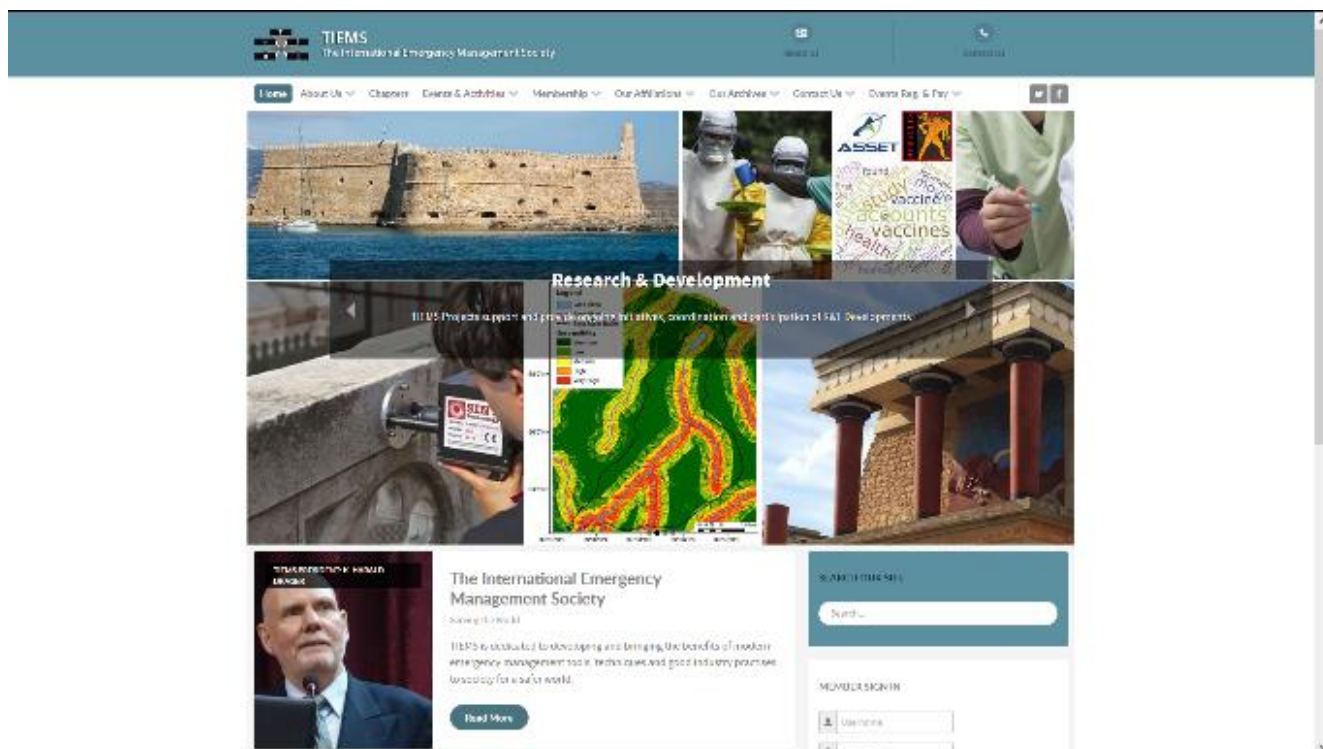
User name and Password can be obtained by contacting TIEMS Secretariat.

The TIEMS Library was updated with papers and posters from TIEMS conferences and workshop in 2016.

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TIEMS New Web-site

TIEMS Board of Directors made the decision to develop a new web-site at TIEMS 2016 Annual Conference in San Diego. The TIEMS new web-site was put online 12th June, 2017 and looks like below:



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TIEMS
The International Emergency Management Society

Home About Us Chapters Events & Activities Membership Our Affiliations Our Archives Contact Us Events Reg. & Pay

TIEMS ACADEMY
A TIEMS Initiative

Develop a professional international education, continuing education or professional emergency management response

TIEMS Academy

Graduation

The International Emergency Management Society
Serving the World

TIEMS is dedicated to developing and bringing the benefits of modern emergency management tools, techniques and good industry practices to society for a safer world.

[Read More](#)

SEARCH OUR SITE

MEMBER SIGN IN

Username

Password

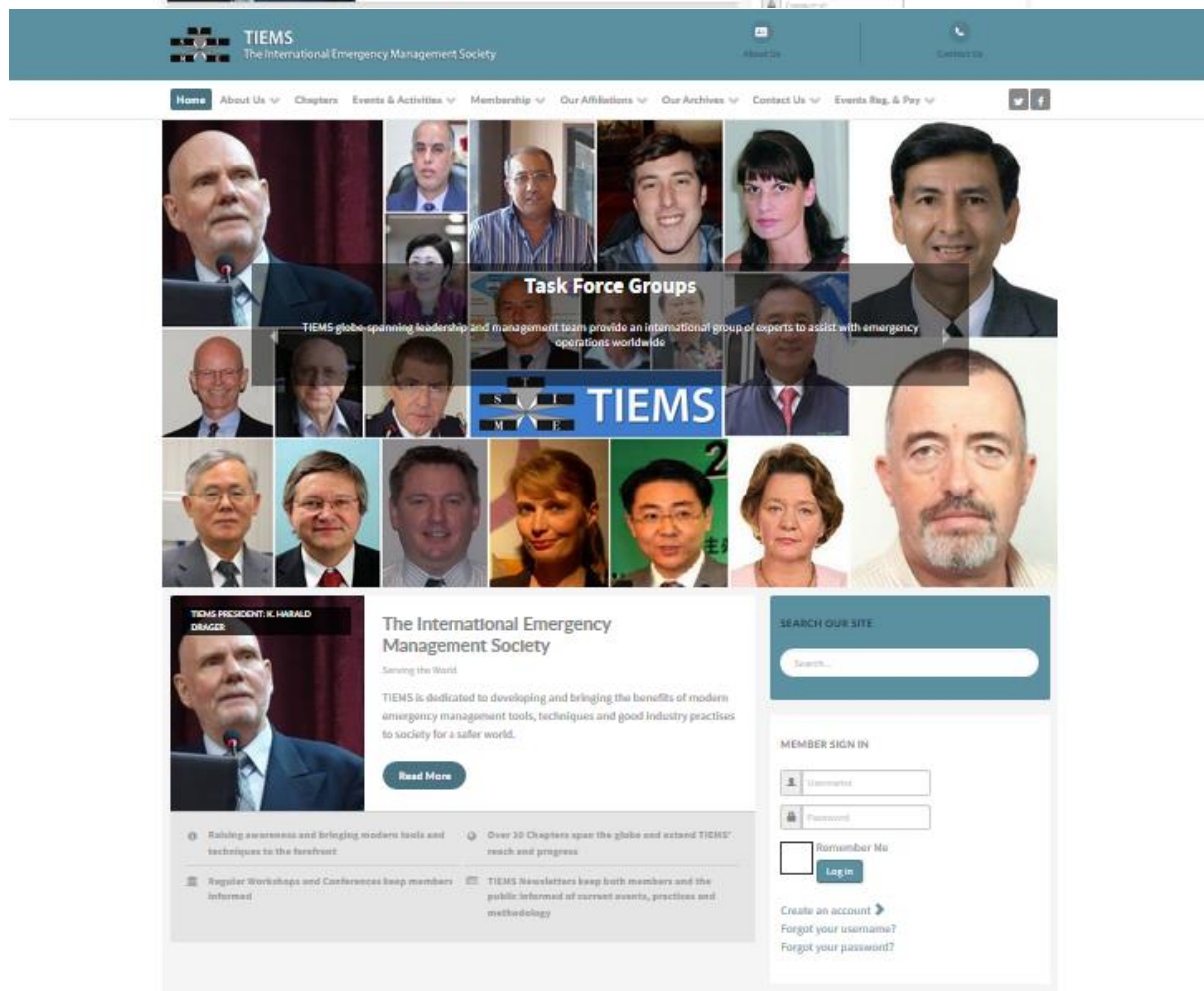
[Remember Me](#)

[Log In](#)

[Create an account](#)

[Forgot your username?](#)

[Forgot your password?](#)



TIEMS
The International Emergency Management Society

Home About Us Chapters Events & Activities Membership Our Affiliations Our Archives Contact Us Events Reg. & Pay

Task Force Groups

TIEMS globe-spanning leadership and management team provide an international group of experts to assist with emergency operations worldwide

TIEMS

TIEMS PRESIDENT: K. HARALD DRAGER

The International Emergency Management Society
Serving the World

TIEMS is dedicated to developing and bringing the benefits of modern emergency management tools, techniques and good industry practices to society for a safer world.

[Read More](#)

Raising awareness and bringing modern tools and techniques to the forefront
 Over 30 Chapters span the globe and extend TIEMS' reach and progress
 Regular Workshops and Conferences keep members informed
 TIEMS Newsletters keep both members and the public informed of current events, practices and methodology

SEARCH OUR SITE

MEMBER SIGN IN

Username

Password

[Remember Me](#)

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[Create an account](#)

[Forgot your username?](#)

[Forgot your password?](#)

TIEMS Membership

Membership, donation packages and journals available through TIEMS membership are as follows:

1. Standard Member
2. Standard Member "Transition Economy Country"
3. Professional Certified Member
4. Student Member
5. Institutional Member
6. Platinum Donation
7. Gold Donation
8. Silver Donation
9. Bronze Donation
10. International Journal of Emergency Management
11. International Journal of Risk Assessment and Management

In addition, local chapter membership is available, which is recruited and governed by each chapter, within TIEMS guidelines.

Details on TIEMS membership can be found at:

<http://www.tiems.info/index.php/membership/become-a-member>

TIEMS Economy and Financial Situation

The TIEMS economy and financial situation is a challenge as with many other non-profit and international NGO's. However, volunteers working for TIEMS around the world in TIEMS chapters, with recruiting members and sponsors and arranging events have made it possible to establish and maintain a TIEMS Secretariat in Brussels, which started its operation at the end of 2010, and has now been in operation more than 5 years. Having professional administration and legal advice at a permanent registered address for TIEMS has proven worthwhile and beneficial, and is a priority among the different cost items to be financed by the society.

TIEMS membership is increasing, both personal and institutional members. TIEMS chapters arranging events around the world adds value and income by recruiting new members and local sponsors, improving the overall the economic situation of TIEMS. TIEMS by-laws allow different categories of membership, which we expect will further increase recruitment of new TIEMS members, both locally in chapters, and also professional certified members according to the TIEMS QIEDM certification service.

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The TIEMS financial situation has also improved with TIEMS participating in successfully funded RTD proposals. This is also a good benefit for TIEMS members, for whom it is an opportunity to be a TIEMS team member in performing the projects. TIEMS has therefore prioritized increased activity by TIEMS members in this area. As TIEMS increases its scientific profile and serious work worldwide, we expect to attract additional sponsors and supporters, which will have a positive impact on TIEMS economical and financial situation.

TIEMS Members, Officers and Directors

The main assets of TIEMS are its members, officers, directors, and TIEMS Chapter board members (See TIGE), their expertise and the voluntary work they do in order to develop and promote the society worldwide. I therefore like to thank them all for the work they do and the loyalty to TIEMS and its mission. Without them and their efforts, TIEMS could not exist. Members of TIEMS Board of Directors are elected at the Annual General Meeting (AGM), which takes place at the TIEMS Annual Conference. TIEMS members make up the AGM, and they make the decisions by their voting in the AGM. At the AGM in Rome, Italy, new board members were elected for a period of three years and TIEMS Board has now the following board members with positions mentioned below:

- *K. Harald Drager, TIEMS President (Norway)*
- *Guosheng Qu, Vice President (China)*
- *Jack (Ji) Zhang, Treasurer (China)*
- *Jaroslav Pejcoch, Secretary and Chair of TIEMS Advisory Board (Czech Republic)*
- *Snjezana Knezic, Director for Chapters and Membership (Croatia)*
- *Jean – Paul Monet, Regional Director for Europe (France)*
- *Thomas Robertson, Regional Director for North America (USA)*
- *Neil Dufty, Regional Director for Australia, New Zealand & Oceania (Australia)*
- *Jae Kwon Kim, Regional Director for Asia (Korea)*
- *Mohammed Shuaib, Regional Director for Middle East and Africa (Iraq)*
- *Diego Fernandez Otegui, Regional Officer for Latin America and Caribbean (LAC)*

Introduction and pictures of the Board of Directors are shown below:

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TIEMS 2016 – 2017 Board of Directors



K. Harald Drager
President
(Norway)



Guosheng Qu
Vice President

(China)



Jack (Ji) Zhang
Treasurer

(China)



Jaroslav Pejcoch
Secretary & Chair of
Advisory Board

(Czech Republic)



Snjezana Knezic
Director of
Membership & Chapters

(Croatia)

Regional
Directors/
Officer
(LAC)



Jean-Paul Monet
Europe

(France)



Thomas Robertson
North America

(USA)



Mohammed Shuaib
Middle East & Africa
(MENA)

(Iraq)



Neil Dufty
Australia & New
Zealand & Oceania

(Australia)



Jae Kwon Kim
Asia

(South Korea)



Diego Fernandez Otegui
Latin America &
Caribbean (LAC)

(Argentina)

The Board appoints officers each year for various tasks, and the following officers are appointed for the functions described below for one year; they are also members of the TIEMS Advisory Board:

- *Sandro Bologna, Chair of TIEMS International Program Committee (Italy)*
- *Meen Poudyal Chhetri, Chair of TIEMS Paper Review Committee (Nepal)*
- *Wenlong Yang, TIEMS Asia Secretariat Officer (China)*
- *Joseph Pollack, TIEMS Editor, Regular Newsletter (USA)*
- *Alex Fullick, TIEMS Editor, Special Issue Newsletter (Canada)*
- *Samantha Ueno, TIEMS Editor, Social Media (UK)*
- *Shakir Katea, TIEMS Task Force Activity Officer (Iraq)*
- *Ranko Britvic, TIEMS Sponsorship Officer (Croatia)*
- *George Markowsky, Chair of TIEMS Academy (USA)*
- *Nina Frolova, TIEMS Research, Technology and Development Coordinator (Russia)*
- *Yukio Fujinawa, Chair of TIEMS Disaster Early Warning Task Force Group (Japan)*
- *Chen Ran, Director of TIEMS Emergency Medicine Committee (TEMC) (China)*
- *Angeli Medina, TIEMS QIEM Certification Officer (USA)*

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TIEMS 2016 – 2017 Officers



Meen Chhetri
Chair Paper
Review Committee
(Nepal)



Joseph Pollack
Regular Newsletter
Editor
(USA)



Alex Fullick
Special Edition
Newsletter Editor
(Canada)



Samantha Ueno
Social Media
Editor
(UK)



Wenlong Yang
TIEMS Asia
Secretariat Officer
(China)



Shakir Katea
TIEMS Task Force
Activity Officer
(Iraq)



Sandro Bologna
Chair of International
Program Committee
(Italy)



George Markowsky
Chair of Education,
Programs
(USA)



Nina Frolova
Research,
Development Coordinator
(Russia)



Yukio Fujinawa
Chair of Disaster Early
Group
(Japan)



Ranko Britvic
Officer for Sponsorship,
& Exhibitors
(Croatia)



Chen Ran
TIEMS Emergency
(TEMC) Director
(China)



Angeli Medina
TIEMS QIEM
Certification Officer
(USA)

There are several board positions open for election each year, and all TIEMS members can stand for election. I encourage all TIEMS members to consider taking on a position either as a board member or be appointed officer for special tasks. TIEMS needs active and dedicated directors and officers, so I encourage TIEMS members to use the opportunity in Kyiv, Ukraine, this year to suggest their candidacy for either a director or officer position.

TIEMS Secretariat in Brussels

The TIEMS Secretariat in Brussels, Belgium started its operation for TIEMS 1st November 2010. Most administrative TIEMS activities have been transferred to the Secretariat and the board members have more time to concentrate on the long term planning of the development of TIEMS. The Secretariat office can be found at the following address and phone, fax and e-mails:

TIEMS Secretariat

Rue Des Deux Eglises 39, 1000 Brussels, Belgium

Phone: +32 2286 8038

Fax: +32 2286 8039

E-mails:

secretariat@tiems.info

TIEMS Asia Secretariat

The activity level has increased considerably in TIEMS China Chapter, and the TIEMS Board approved at the end of 2013 the establishment of a TIEMS Asia Secretariat in Beijing. First of all, it will take care of the increased TIEMS activity in China, with workshops and conferences already planned in 2017. In addition, it will also serve as the liaison with the International Emergency Industry Alliance on Technological Innovation and Strategy:

<http://www.tiems.info/images/TIEMS%202014%20Chinese%20Industrial%20Alliance%20Group.pdf>

The TIEMS Asia Secretariat is also prepared to assist other chapters in Asia and worldwide with professional administrative and expert assistance in emergency management and disaster response.

TIEMS Future Plans

As can be seen from the report above, 2017 was another very active and expansive year for TIEMS, but also an important year with a major effort towards increased professionalism and further spread of the society's activities worldwide.

This progress is in line with the TIEMS 5 year plan agreed by the Board of Directors at the end of 2012, which set concrete goals. This sends a message to TIEMS members and the international emergency management community that TIEMS has a promising future, in which all with interest in emergency and disaster management can participate, and work together towards the TIEMS goal of a safer world.

A dialogue has been opened with quite a few countries for establishing chapters. The TIEMS slogan of "Think Globally and Act Locally" is demonstrated in a very concrete way with the establishment of TIEMS chapters. TIEMS is a decentralized organization, where the driving force and momentum of the organization is with its chapters. The activity level in the established chapters is clear proof of this. The TIEMS Board of Directors and Officers and TIEMS Secretariat are the core of TIEMS, supporting the chapters and establishing a solid framework and support structure from which all chapters can benefit.

The increasing number of chapters has allowed TIEMS to continue to maintain a high activity level. In 2017, 11 events are already scheduled in 7 countries, and more events are expected to come.

The research project service for TIEMS members, where members are informed of RTD project calls, for example in the EU, has resulted in TIEMS participation in the successfully funded EU

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projects, ASSET, which started 1st January 2014 and will last for 4 years, and in the EU project HERACLES, which started 1st May 2016 and will last for 3 years. TIEMS is continuously involved in new proposals for the EU Horizon 2020 calls. It is also expected that TIEMS will be invited to participate in more proposals. The TIEMS RTD service is expected to lead to more participation by TIEMS members in RTD projects in the coming years, and also to add important value to research for improved worldwide resilience and a safer world.

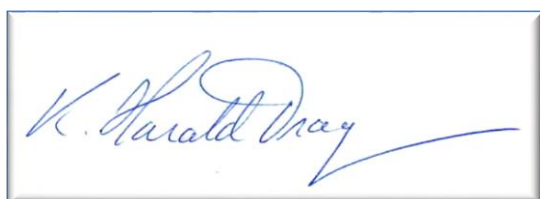
By appointing two TIEMS Officers with responsibility for TIEMS Academy and TIEMS QIEDM Certification, TIEMS education, training and certification program is expected to further concretized and reach out globally in 2017.

TIEMS is only one of many good and dedicated organizations working to improve resilience worldwide, and TIEMS invites complimentary organizations for partnering to gain an even stronger momentum towards a safer world. Together we can achieve more than working alone one by one. TIEMS encourages and invites future partnerships with complimentary and similar organizations.

TIEMS is a decentralized organization where the momentum and driving force stay with TIEMS chapters. A team of TIEMS volunteers worldwide, driven by the motivation and mission of TIEMS work for a safer world, have made 2016 achievements possible. I would like to thank them all, and encourage them to further stay on and develop and spread the society's network to reach further out and recruit new members and volunteers to join TIEMS in this work.

I would like to conclude TIEMS Presidents annual report on TIEMS activities in 2016 by expressing my strong belief that TIEMS has an important role to play internationally in education, training and certification and research and development activity, improving methods and tools for better emergency management and disaster response, and in policy concerning emergency and disaster management and disaster response. TIEMS will continue to strive to develop this role to the benefit of TIEMS members and others, and towards TIEMS mission for a safer world.

Oslo 17th September 2017



K. Harald Drager
TIEMS President