



# TIEMS PRESIDENT 2019 ANNUAL REPORT



Pictures from TIEMS 2018 Annual Conference in Manila, Philippines





# The International Emergency Management Society - TIEMS

## Introduction to TIEMS

TIEMS prepares the world for emergencies. TIEMS is a global forum for education, training, certification, and policy for emergency and disaster management. TIEMS provides a platform for all stakeholders within the global emergency and disaster management community to meet, network and learn about new technical and operational methodologies. Our conviction is that sharing knowledge and best practices worldwide better prepares each of us to face emergencies at home, and better prepares all of us to face together increasingly global and severe emergencies.

The TIEMS international organization was established in 1993 in Washington DC, and is today registered in Brussels, Belgium as an International, Independent, Not-for-profit NGO. TIEMS has local chapters in BeNeLux (Belgium/Netherlands/Luxembourg), China, Finland, India, Iraq, Italy, Japan, Korea, Middle East and North Africa (MENA), Nigeria and West Africa (NWA), Romania, United States of America, Philippines and Ukraine. France, Australia and South Africa are under establishment. The TIEMS local chapters mandate is to establish local TIEMS activity and recruit local members and see to it that the worldwide cultural differences are understood and included in TIEMS activities and operations.



## TIEMS Activities

**Conferences and Workshops** - TIEMS organizes conferences, workshops, and exhibitions worldwide covering a wide range of research, best practices, and other topics in emergency management. In recent years conferences have been held in Manila in the Philippines, Kiev in Ukraine, San Diego in USA, Rome in Italy, Niigata in Japan, Aix-en-Provence in France, Erbil in Iraq and Beijing in China and this year TIEMS 2019 Annual Conference will be held in Goyang, [Korea](#). In addition, local chapters host local international conferences and workshops throughout the year.





**RTD Projects** - Because TIEMS is known in the international community for the wide-ranging expertise of its members, and for its ability to network researchers, practitioners, and policy-makers, TIEMS is often asked to participate in Research and Technology Development (RTD) projects sponsored by the European Commission and other organizations. TIEMS members who express interest to participate in the RTD projects TIEMS gets engaged in, are selected based on their qualifications, and the expertise needed to staff the projects. The ongoing RTD projects TIEMS was involved in in 2017 were [ASSET](#), a four-year program to improve public health communications during health emergencies, and [HERACLES](#), a three-year RTD program to develop technologies to improve cultural heritage sites in the face of climate change. At present TIEMS is a subcontractor to ECORYS for developing an expert HUB on wildfire expertise in Europe for DG ECHO project “Network of European Hubs for Civil Protection and Crisis Management”. This HUB will serve as an example HUB for other disaster HUBs in Europe.

**Experts** - The TIEMS International Group of Experts (TIGE), consisting of more than 100 experts from 25 countries with different educational background and experience, has been established as a resource to assist the global community in emergency planning, preparedness, and response. They are all TIEMS volunteers manning the TIEMS Board, the TIEMS Advisory Board and TIEMS Chapter Boards worldwide. TIGE’s unique worldwide network of experts adds the cultural diversity to emergency management and disaster response that makes TIEMS such a valuable international network, see [TIGE](#).



**Education, Training and Certification** - TIEMS believes that Education, Training and International Certification in Emergency Management and Disaster Response is the Key to Improved Resilience Worldwide, and TIEMS is therefore initiating a Comprehensive International Education, Training and Certification Program in this field. TIEMS motto is: **Preparedness Saves Lives!** TIEMS wants to promote an internationally shared understanding of emergency management elements, systems, qualifications, and terminology, and this is embedded in **TIEMS International Certification - TQC - Operations and Good Practise**. TQC stands for - TIEMS QIEMD Certification, where QIEMD is "Qualifications in International Emergency and Disaster Management". See [TQC](#).



## TIEMS Structure

TIEMS is a true international organization with a structure as shown to the right, comprised of a TIEMS Board of Directors and an Advisory Board with members from 15 countries. The TIEMS Secretariat is located in Brussels, Belgium, where TIEMS is registered as an international not for profit NGO. The members of TIEMS form the Annual General Assembly, which meets once a year during the TIEMS annual conference, during which TIEMS members evaluate the past performance of the organization and lay down plans for the future and elects its board of directors.



The current members of the TIEMS Board and Advisory Board and their functions are found below.

**TIEMS 2019 Board of Directors**



**K. Harald Drager**  
(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**



**Jean-Paul Monet**  
Europe  
(France)



**Thomas Robertson**  
North America  
(USA)



**Roman Tandlich**  
Africa  
(South Africa)



**Neil Dufty**  
Australia & New  
Zealand & Oceania  
(Australia)



**Rodney Jagolino**  
Asia  
(Philippines)



**Vacant**  
Latin America &  
Caribbean (LAC)  
(Country)

**TIEMS 2019 Officers**



**Meen Chhetri**  
Chair Paper  
Review Committee  
(Nepal)



**Joseph Pollack**  
Regular Newsletter  
Editor  
(France)



**Alex Fullick**  
Special Edition  
Newsletter Editor  
(Canada)



**Wenlong Yang**  
TIEMS Asia  
Secretariat Officer  
(China)



**Sandro Bologna**  
Chair of International  
Program Committee  
(Italy)



**Andre Samberg**  
Research & Technology  
Development Coordinator  
(Ukraine/Finland)



**Yukio Fujinawa**  
Chair of Disaster Early  
Warning Task Force Group  
(Japan)



**Chen Ran**  
TIEMS Emergency  
Medicine Committee  
(TEM) Director  
(China)



**D. K. Yoon**  
TIEMS 2019 Annual  
Conference Host  
(Korea)



## TIEMS Chapters



*“TIEMS thinks Globally and Acts Locally”*

TIEMS is therefore building an expert network worldwide, where chapters play an important role in establishing local TIEMS activity

TIEMS chapters are established in 14 countries; Romania, Belgium/Netherlands/Luxembourg (BeNeLux), Italy, Middle East and North Africa (MENA), Iraq, India, Korea, China, Finland, Nigeria and West Africa (NWA), USA, Ukraine, Philippines and Japan. France, Australia and South Africa are under establishment.

A TIEMS chapter is an autonomous entity within the TIEMS network. It establishes local TIEMS activities and recruits TIEMS international and local chapter members in the Chapter area. The TIEMS Secretariat is available to the Chapter for administrative support. The Chapter reports annually to the TIEMS Board about Chapter activities, plans and finances.

### **The requirements for establishing a TIEMS Chapter are as follows:**

1. The Chapter region has to be defined so that it does not geographically overlap existing chapters
2. There must be at least 5 founding members of the Chapter with valid TIEMS International membership
3. The Chapter must be registered in a country of the Chapter’s region as a non-profit organization
4. Chapter By-Laws must be established which are not in conflict with TIEMS By-Laws
5. A Chapter Board with at least 5 members must be appointed/elected
6. A Chapter bank account must be opened in the name of the Chapter
7. The Chapter must be an Institutional Member of TIEMS
8. A plan for the Chapter activities must be prepared.

*An application with the above documentation must be sent to the TIEMS Secretariat.*

## **Why Join TIEMS?**

TIEMS offers a unique opportunity to Learn, Serve, and Network:

- **Learn** - TIEMS membership offers an exceptional learning opportunity through participation in TIEMS’s multi-disciplinary, multi-national community; access to TIEMS events and educational materials; and participation in the TIEMS international emergency management education, training and certification initiative



- **Serve** - as a member you are eligible to have a direct impact on the TIEMS mission to improve the world's emergency management, by participating in TIEMS RTD projects; supporting special initiatives such as the TIEMS Academy, TQC Certification, and TIGE; or by becoming an officer or board director
- **Network** - as part of TIEMS, you will develop valued personal and professional relationships, locally and internationally, that enhance your professional knowledge and opportunity, and broaden your appreciation of the multi-cultural global emergency and disaster management community.

The international emergency management communities have much to learn from each other. TIEMS is actively seeking to expand its operations worldwide, to further capitalize on this unique opportunity to make the world safer. Please join us and become part of our international communication and operation! We offer exceptional opportunities to work with us to expand TIEMS worldwide by participating in one of the following initiatives:

- **Membership outreach** - help create a worldwide database of potential members to contact, inform, and recruit
- **Partnership outreach** - help identify organizations worldwide to collaborate with and help us pursue collaboration
- **Conference Organization** - become part of the team organizing our worldwide conferences and workshops
- **Sponsor Outreach** - help us identify sponsors for TIEMS worldwide activities
- **TIEMS International Initiatives** - Participate in TIEMS international initiatives in International Education, training and Certification.

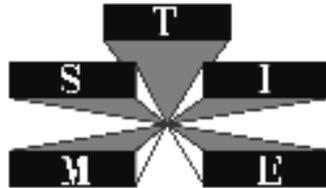
TIEMS Offers both individual and institutional membership:





# SUMMARY of the TIEMS YEAR 2018 - 2019 by TIEMS President

(Covers the period 2018 and until 25<sup>th</sup> September 2019)



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## TIEMS Main Focus in 2018 - 2019

The main focus of TIEMS the past year has been:

1. TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference in Manila
2. TIEMS International Certification - TQC
3. TIEMS RTD Projects
4. TIEMS New Chapters
5. TIEMS Events worldwide
6. TIEMS Newsletters

## TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference

TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference took place at the University of Santo Tomas (UST) in Manila in the Philippines, as a joint conference with the third USTCN Conference on Disaster Risk Reduction and Climate Change, in the period 13<sup>th</sup> - 16<sup>th</sup> November 2018.

The conference overview is shown below:

TIEMS 25 <sup>th</sup> ANNIVERSARY & 2018 ANNUAL CONFERENCE CONCEPT PROGRAM				
Monday 12 <sup>th</sup> November	Tuesday 13 <sup>th</sup> November	Wednesday 14 <sup>th</sup> November	Thursday 15 <sup>th</sup> November	Friday 16 <sup>th</sup> November
	Pre- Conference	Registration	Registration	Registration
Arrival of Delegates		Welcome & Introduction of the Workshops	Welcome & Opening	Technical Session
Reception and Poster Session and Registration	3 <sup>rd</sup> USTCN Conference on DRR and Climate Change	Workshop 1 DRR Communication Platform TIEMS Korea Chapter	Plenary Sessions 1 Keynote Speakers	
Get Together Networking	Program	Workshop 2 Simulation in DRR The Hirain Company	TIEMS Annual General Meeting	Plenary Session 2 Keynote Speakers Summary & Conclusions
		Coffee Break with visit to Posters & Exhibition		Bus Tour with Box Lunch
		Workshop 3 TIEMS TQC Certification TIEMS	Technical Session	Visit to Office of Civil Defense-National Disaster Risk Reduction Management Council (OCD-NDRRMC) Emergency Operations Center & Earthquake Center
		Coffee Break with visit to Posters & Exhibition		
		Workshop 4 Industry Presentations Exhibiting Companies	Technical Session	
		Welcome Reception	Gala Dinner	

The conference was attended by around 100 experts from 12 countries, Australia, Canada, China, Croatia, Czech Republic, India, Italy, Norway, Philippines, South Africa, Korea and USA. During the USTCN conference day, also about 500 students from UST attended.

The conference was noticed on the highest political level in the Philippines, by a warm welcome from the President of the Philippines.

More information is found in the special issue newsletter covering the TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference.

The most special moment of the entire week in Manila was the tours to the Manila Municipal Disaster Authority (MMDA) and the Philippines Civil Defence Emergency Command Centres. The tours of the centres and the corresponding presentations were insightful, with phenomenal hospitality, which was greatly appreciated by everyone in attendance.



Traffic Overview Screen at MMDA



MMDA and Civil Defence Band is playing for TIEMS delegates at the arrival at MMDA



TIEMS has started establishing an TIEMS International Education Network in 2018, and the following Universities are partners in this network at present:

- **Federal University of Technology, Minna, Nigeria**
- **Illinois Institute of Technology, USA**
- **Dongguk University, Korea**
- **Rhodes University, South Africa**

The first MOU was signed with Minna University in Nigeria in Manila. TIEMS is looking for more universities and training institutions to join this network.



TIEMS board members, Guosheng Qu, K. Harald Drager and Sandro Bologna signing and giving an update of the MOU between TIEMS and the MINNA University in Nigeria.

### TIEMS International Certification - TQC

TIEMS International Certification - TQC was presented and discussed for TIEMS membership first in a Workshop at TIEMS 2017 Annual Conference in Ukraine, and a follow up Workshop was arranged at TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference in Manila in November 2018. Since the workshop in Manila, TIEMS TQC team has been working with detailing the TQC, and below is presented the framework of TQC, which now will be further discussed in a Workshop during TIEMS 2019 Annual Conference in Korea,

where also a beta version of the TQC Web platform will be presented. The TQC description is as presented below, as TIEMS see it at the time of this annual report. However, the TQC development is an ongoing process and the framework and details may change over time.

### Motivation

TIEMS believes that education, training and international certification in emergency management and disaster response is the key to improved resilience worldwide, and TIEMS has therefore launched a comprehensive international education, training and certification program (TQC), under the motto:

***Preparedness Saves Lives!***

### What is TQC?

TIEMS International Certification, TQC, is a “*Certification of Qualifications in International Emergency and Disaster Management*” (QIEDM), with the acronym TQC. TIEMS long-term goal is to become an internationally certification body officially accredited by a recognized accreditation body. The-short-and-medium-term goal, is to set up the certification procedure, to implement the supporting certification platform, to get experience and to be recognized worldwide.

### Why Another Certification Scheme?

Although there are several higher qualifications and certification schemes in emergency management worldwide, they mainly focus on specific countries' requirements rather than having an



international focus. Looking throughout different certification schemes worldwide, TIEMS has found none which goes through an official internationally recognized accreditation for certification. They simply go through a generic and general endorsement from parts of the international community”. TIEMS long term plan is to go throughout an official accreditation path for TQC Certification.

### How to get TQC International Certification?

TQC Certification is reserved for individuals who have demonstrated their knowledge and experience in **“risk management / emergency management / disaster response”** and to be certified by the TIEMS Certification Board. The certification is based on the results evaluation of TQC Compliance, and the results evaluation of TQC examination, with reference to **“International Standards and Best Practices”**. Prerequisite to apply for TQC Certification is to satisfy the Minimum **“TQC Certification Qualification Requirements”**.

TQC Certification is a voluntary process by which individuals are evaluated against predetermined standards of knowledge, skills, or competencies, as well as test exam results. Participants who demonstrate they meet the certification requirements by successfully completing the assessment process are granted a time-limited TQC credential. To retain the credential, participants must maintain continued competence and periodically being re-evaluated. The importance of international certification is recognized worldwide, as mentioned in the World Bank report on **“The**

**State of Civil Protection Around the World”** (World Bank Desk Report, 2018).

### TQC Certification Concept

The TQC concept is represented by Figure 1 and it is supported by documented functional requirements specification for all four steps in the certification process.

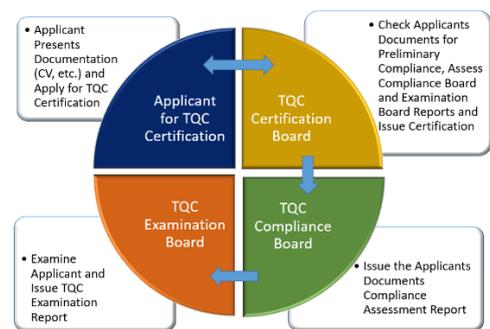


Figure 1: TQC Certification Concept

### TQC Certification Boards

Represented in Figure 2, TQC Certification Boards are; TQC Certification Board, TQC Compliance Board, TQC Examination Board and TQC Competence/Curriculum Board providing overall education and CV requirements and examination content, supported by TIEMS Academy providing access to learning material.

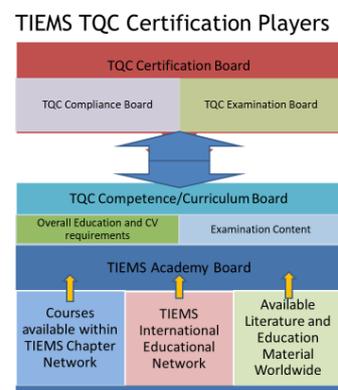


Figure 2: TIEMS TQC Certification Boards

## Overall TQC Certification Process

TQC Certification process is organized in eight steps as presented in Figure 3 and the steps are described below:

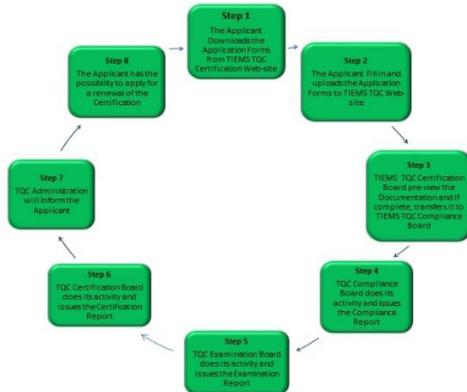


Figure 3: TQC Certification Process

### STEP1:

TQC full “Certification Procedure” is made available for free consultation. It means: TQC Certification Board Requirements and Procedures, TQC Compliance Requirements and Procedures, TQC Examination Requirements and Procedures, CV Minimum Requirements and Education Institutions. These are “static information” that will be updated by the TQC Certification Board but are not Applicant specific. **The Applicant Downloads the Application Forms from the TQC Certification Web-site.**

### STEP2:

An individual TQC Applicant decides to apply for Certification. The Applicant will have the possibility to interact with TIEMS Administration to communicate interest for TQC Certification and get “username” and “password” to have access to the “TQC Certification Platform” and upload all the required documentation as described by the “TQC Certification Procedure” available to everybody (see STEP 1). **The Applicant fill in**

**and uploads the Application Forms to the TQC Web-site.**

### STEP3:

TIEMS Administration has the possibility to interact with the TQC Applicant for any Administration issues. When all administration issues have been solved, TQC Certification Board will automatically be informed about the new Applicant. **The TQC Certification Board pre-view the Documentation and if complete, transfers it to the TQC Compliance Board.**

### STEP 4:

TQC Compliance Board will get an “automatic message” from TQC Certification Board that there is a new Applicant. TQC Compliance Board has the possibility to get access to all the applicant documentation and following the “Compliance Procedure” to check if it is compliant. At the end of STEP 4, TQC Compliance Board will release documentation of the Applicant’s activities to be archived. **TQC Compliance Board does its activity and issues the Compliance Report.**

### STEP 5:

TQC Examination Board will get an “automatic message” from TQC Compliance Board that there is a new Applicant. TQC Examination Board has the possibility to get access to all the applicant documentation and following the “Examination Procedure” to start the examination activities. This means interactions between the Applicant and the TQC Examination Board. At the end of STEP 5, TQC Examination Board will release documentation of the Applicants activities to be archived. **TQC Examination Board does its activity and issues the Examination Report.**



#### **STEP 6:**

TQC Certification Board will get an “automatic message” from TQC Examination Board that there is a new Applicant. TQC Certification Board will have the possibility to get access to all the Applicant’s documentation, Compliance documentation, Examination documentation and following the “Certification Procedure” decides if awarding the Applicant with TQC Certification. At the end of STEP 6, TQC Certification Board will release documentation of Applicant’s activities to be archived. **TQC Certification Board does its activity and issues the Certification Report.**

#### **STEP 7:**

The Applicant will be informed by the Administration about TQC application and examination results, and either be awarded TQC International Certification or be advised that he failed to pass the TQC examination, and that he/she can apply for TQC certification at a later stage, having improved his/her skills required in the TQC Curriculum. **TQC Administration will inform the Applicant.**

#### **STEP 8:**

The Applicant may decide to apply for a renewal of TQC Certification, when the renewal time (3 years at present) is due. **The Applicant has the possibility to apply for a renewal of the Certification.**

#### **TQC Certification Board**

The TQC Certification Board is managing the TIEMS International Certification - TQC process as the overall responsible TQC Certification Board.

#### **TQC Certification Board Responsibilities**

The TQC Certification Board has the full responsibility of the TQC process and award the successful Candidates with the TQC Certificate. The TQC Certification Board Chair will sign the Certificate awarded to the Candidates.

#### **Fees, Refunds and Policies**

A TIEMS membership and a reasonable TQC Certification Fee needs to be paid by the TQC Applicant, before the TQC Certification Board will initiate the TQC certification process for the Applicant.

If the TQC Applicant is not fulfilling the compliance requirements, 50 % of the TQC Certification Fee will be refunded.

The TQC Certification is valid for 3 years, and the Candidate will be reminded of the need for re-certification, in due time before the TQC certification period is running out.

The Candidate need to be a TIEMS Certified Professional Member to maintain his/her TQC Certification.

#### **TQC COMPLIANCE BOARD**

The TQC Compliance Board handles the TQC compliance process of the TQC Applicant.

#### **TQC Compliance Board Responsibilities**

The TQC Compliance Board has the following responsibilities:

- Establish the criteria a TQC applicant must satisfy to be eligible to take the TQC certification exam



- Identify the information and documents TQC applicants must submit to the Compliance Board to begin the TQC process
- Assess TQC candidates' submitted information and documents and make one of the following determinations
  - ✓ The candidate is eligible to take the TQC exam
  - ✓ The candidate does not appear to be eligible to continue the TQC process
  - ✓ Deficiencies are identified, and the candidate may submit additional information or reapply at a later time
- Issue a Compliance Report to the Examination Board

### General Compliance Requirements

To be eligible to take the TQC exam, a candidate must provide evidence of the following:

- They have been exposed to in-depth **knowledge** in areas relevant to emergency and disaster management, through some combination of research, university coursework, formal training, and previous certification
- They have **participated** in emergency and disaster management, through professional or volunteer activities
- They have **contributed** to the profession of emergency and disaster management as evidenced by professional references, publishing and speaking, teaching, or leadership
- If applicable, evidence of knowledge, experience, or contribution in **international** emergency and disaster management

### Guidelines for Assessing Applicant Qualifications

Generally, the requirements for knowledge, participation, and contribution can be satisfied in various alternative ways. It will be up to the TQC Compliance Board to decide if the applicant has demonstrated that they have met the qualifications. The TQC Compliance Board will provide feedback to the applicant to help them correct deficiencies, where possible.

The following are guidelines for assessment:

- **Education** - one of more of the following:
  - ✓ Bachelor degree in science, engineering, or emergency/disaster management specialty (International Standard Classification of Education Level 6)
  - ✓ 50 hours of emergency / disaster management training
  - ✓ A certification related to emergency/disaster management
- **Participation** - 3 years' experience as a first responder, volunteer, educator, leader, or other activity directly involved with emergency/disaster management
- **Contribution** - one of more of the following:
  - ✓ At least 5 publications or speaking engagements in emergency/disaster management
  - ✓ Participation as leader or board member of an organization that participates in emergency/disaster management
  - ✓ Teaching emergency/disaster management
  - ✓ Two professional references attesting to applicant's contribution
- **International emergency/disaster management** - the applicant will be encouraged to identify international



aspects in any of the activities described for education, participation, and contribution

## Required Documentation

Applicants will be required to provide the following:

- Copies of educational degrees, certificates, and/or transcripts
- A CV including professional or volunteer experience applicable to TQC, together with websites, personal references, or other information that can verify applicant participation
- Copies of applicable certifications in emergency/disaster management
- A summary of emergency/disaster management contributions including publications, presentations, courses taught, board or leadership roles
- Two professional references who can verify applicant contributions

## Compliance Process

- The TQC Compliance Board will be informed by the TQC Certification Board that there is a new applicant and that applicant documentation is ready for review
- The TQC Compliance Board will review the applicant documentation according to the guidelines above and determine if the applicant is eligible to take the TQC Exam
- The TQC Compliance Board will inform the TQC Examination Board that there is an applicant ready to take the TQC Exam

The TQC Compliance process is illustrated in Figure 4 below:

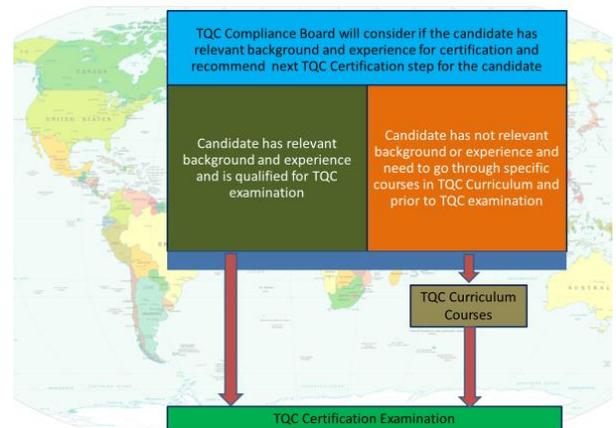


Figure 4: Illustration of TQC Compliance Process

## TQC EXAMINATION BOARD

The TQC Examination Board handles the TQC examination process of the TQC Applicant.

### Composition of TQC Examination Board

The Examination Board is composed of TIEMS representatives belonging to TIEMS International Group of Experts (TIGE). The Examination Board reflects the spectrum of emergency management expertise knowledgeable of existing Standards and Best Practices. The Examination Board is a peer-review body and ensures that the Certification Program remains open, fair and impartial; retains integrity; and implements the mission of emergency management by certifying that successful applicants have met the minimum standards outlined in the program. TQC examination does not cover specific national standards and procedure, because it is assumed that the Applicant is already certified or competence approved at national level, if a national certification does not exist.



## What is a TQC Certification Examination?

TQC Certification examination is a **proctored exam**, which the Applicant can have either on site with a member of TQC Certification Examination Board or on-line via Internet. In the case of an on-line Internet examination, proctoring software has to be monitoring the computer. Proctored exams are timed exams that you take while proctoring software monitors your computer.

## Admissibility to Examination

An Applicant is admissible to the examination only when all of the preliminary and graduate educational requirements set by the TQC Certification Board, currently in force at the time of receipt of the formal application, have been satisfactorily fulfilled, and declared compliant by TQC Compliance Board.

## Examination Sites

TQC Certification examination can be either on site or on-line, computer-based via TQC Web Platform.

## Nature of Examination

Examination is consisting of, essay questions and multiple-choice questions. The Applicant will need to score sufficiently on the examination in order to pass the exam. TQC Examination Board will set the criteria for a sufficient score.

## Limited Responsibility of TQC Examination Board

Members of the TQC Examination Board are not to comment on the eligibility of

Applicants. TQC Examination Board decides only on the examination pass - fail base.

## Release of Results

The Applicants will receive the results of their examinations (pass/fail) from the TQC Certification Board.

## Responsibilities

All examination activities are under the responsibility of TQC Examination Board.

## Taking the Exam

The Applicant must present a valid form of identification before he/she can take the exam. Failure to provide appropriate identification at the time of the examination is a missed appointment.

An exam has some questions that require selection of the best answer to a multiple-choice question, and other questions that require the applicant to name some relevant examples.

The TQC Examination process is illustrated in Figure 5 below:



Figure 5: Illustration of the TQC Examination Assessment Process

## TQC COMPETENCES / CURRICULUM BOARD

TQC Competences/Curriculum Board defines the competences required to be possessed by a Candidate to be TQC certified and present this as the focus in TQC Curriculum, as illustrated in figure 6 below.

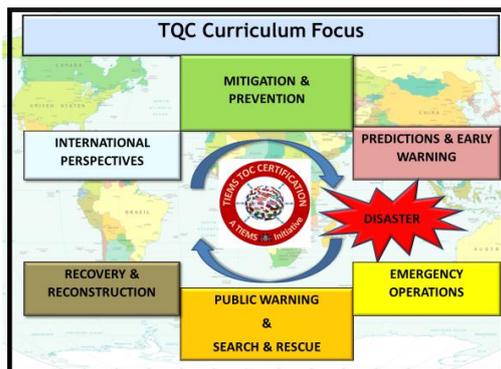


Figure 6: Illustration of the content in TQC Curriculum

## TQC Competences/Curriculum Board Responsibilities

TQC Competences/Curriculum Board responsibilities are:

- Define and describe the competences against which Applicant for TQC certification are assessed by TQC Examination Board
- Transfer the competence requirements into a description of TQC Curriculum
- Update the competence requirements and curriculum continuously in line with the development of the emergency management and disaster response field
- Advise the Applicant of where background material, courses, articles and literature can be found, which comprise the TQC curriculum content
- Advise the Applicant of which courses and other learning material for TQC

curriculum content are available through TIEMS Academy

## TIEMS ACADEMY

TIEMS will make available courses and other relevant TQC learning material through TIEMS Academy which is relevant for TQC Curriculum, whenever it is available, developed within TIEMS or supported by TIEMS International Education Network. The plan is to link learning material provided by TIEMS International Education Network through TIEMS Academy, and also provide information on where to find TQC relevant learning material worldwide. Figure 7 below illustrates the functions of TIEMS Academy.

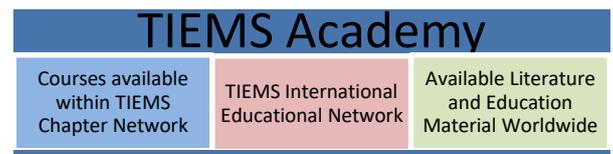


Figure 7: Illustrates the functions of TIEMS Academy

## TIEMS Academy Board Responsibilities

TIEMS Academy Board responsibilities are:

- Plan and develop TIEMS Academy to provide a complete set of courses and learning material sufficient for TQC candidates to be able to prepare for becoming TQC Certified
- The sources of learning material will be:
  - ✓ TIEMS internally developed courses
  - ✓ Courses and learning material provided by TIEMS International Education Network
  - ✓ Links to suggested learning material worldwide supporting TQC competences requirements

## TQC Test Candidates

In order to see to it that TIEMS International Certification - TQC, is relevant and appropriate and fulfilling the needs of the emergency management and disaster response community, and that it is up-to-date and using state-of-the-art technology, we have invited experienced professionals with different backgrounds and experience and from different countries, to be test candidates of TQC before it is opened to the community of professionals. Their role is to test the TQC system from A to Z and give valuable feed-back on the quality, operational aspects, and relevance of TQC certification, to allow TIEMS to tune it to the needs of the international emergency management community experts.

The present TQC Test Candidates are:

1. Larry Porter, USA
2. Gbenga Morenikeji, Nigeria
3. Naill Momani, Jordan
4. Ji (Jack) Zhang, China
5. Amardeep Bhardwaj, India
6. Roman Tandlich, South Africa
7. Desiree Beekharry, Australia
8. Russell Diffy, Australia

## TQC WEB Platform

The supporting WEB platform is under implementation for the beta testing activities as reported in Figure 8 below:

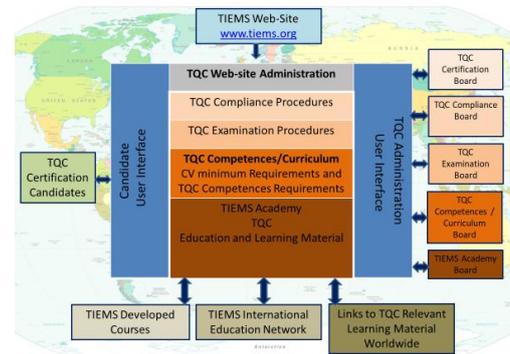


Figure 8: Illustration of TQC WEB Platform

## TIEMS RTD Projects

TIEMS is invited to participate in new proposals of RTD projects each year, and in 2019 TIEMS is participating in three new proposals. TIEMS international network and presence with chapters in soon 17 countries makes TIEMS an attractive partner for RTD projects in EU.

In 2018 TIEMS was partner in one EU projects, HERACLES, which was terminated 1<sup>st</sup> of May 2019. It is described below.

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 an holistic, multidisciplinary approach through the involvement of different expertise.

This will be operationally pursued with the development of a system exploiting an ICT platform able to collect and integrate multisource information in order to effectively provide complete and updated situational awareness and support decision for innovative measurements improving cultural heritage site resilience, including



new solutions for maintenance and conservation.

TIEMS participates in the project with a team of four TIEMS members, from Croatia, USA and Norway, and is responsible for adding value with expertise on end user requirements, risk and vulnerability analysis, guidelines and datasheets for virtual training courses, risk management procedures for end users, demonstration and result analysis, dissemination and communication and an impact, exploitation and business model.

The **HERACLES** project has three cultural test sites, the medieval city of Gubbio in Italy, and two cultural sites in Crete: the Minoan Knossos Palace and the Heraklion Fortress. **HERACLES** is a fascinating project with high ambitions, and it shows that emergency management and disaster response expertise is of importance in different settings.

At the end of 2018 TIEMS got involved in another EU project. TIEMS is a subcontractor to Ecory's Company, in the Netherlands, for developing an expert HUB on wildfire expertise in Europe for DG ECHO project "Network of European Hubs for Civil Protection and Crisis Management". This HUB will serve as a prototype/example for establishing other HUBs with special expertise on other disaster types. The project is a one year project, with the following objectives:

- To formulate a concept for an expert HUB for Civil Protection
- To propose a generic expert HUB model based on the experience of a HUB on wild fire expertise

### TIEMS New Chapters

TIEMS is building an expert network worldwide, where chapters play an important role in establishing local TIEMS activity. 14 chapters are in operation and during last year 3 chapters are under establishment in France, Australia and South Africa. TIEMS looks forward to extend its worldwide network with these new chapters.



### TIEMS Events Worldwide

TIEMS worldwide events are important meeting points for networking, and discussing relevant topics in Disaster Risk Reduction (DRR). TIEMS arranged some international events last year, and here are some highlights of three events:

#### **2018 TEMC & BHGF International Medical Forum & The 7th Harvard China Program Experience Exchange Conference was Successfully held in Xi'an**

From November 10<sup>th</sup> to November 11<sup>th</sup> 2018, with the support of Shaanxi Province Health Commission, hosted by The International Emergency Management Society Emergency Medical Committee (TEMC), Beijing Huatong Guokang Foundation (BHGF), and undertaken by The First Affiliated Hospital of Xi'an Jiaotong University, Shaanxi Provincial People's Hospital, Xi'an Central Hospital, 2018 TEMC & BHGF International Medical Forum & The 7th Harvard China Program



Experience Exchange Conference, was successfully held in Xi'an.

The conference invited more than 10 foreign experts from top international medical institutions, including The International Emergency Management Society (TIMES), Harvard Medical School, Australian Medical Association etc. There was altogether 300 leaders of health administration department and hospital presidents from all over China attending the emergency medicine event.

Liu Baoqin, Director of Shaanxi Province Health Commission introduced development of medical and health services in Shaanxi and corporation with TEMC & BHGF. Director Liu indicated that it's a great chance to fasten the medical exchange and international cooperation, and promote the medical and health services of Shaanxi. She expected the scope of exchange and intension of corporation can be widened, advanced medical technology and management can be learned in the future, in order to implement Health China Program and ensure people's health.



Liu Baoqin, Director of Shaanxi Province Health Commission, making her speech

Chen Ran, the Director of TEMC and the Chairman of BHGF said, during the past years, with support of all the administrative departments, TEMC & BHGF has closely

focused on the policy of Health China Program, caring for medical personnel as the central task, helping the poor, and from three aspects of hospital, medical personnel and patients to positively carry out charity activities, so as to improve the development of Chinese health services. The successful completion of the forum aims to build a sustainable mutual high-end communication platform.



Ms. Chen Ran, Chinese Chairman of the Conference, the Director of TEMC and the Chairman of BHGF, making her speech

At the meeting, K. Harald Drager, President of The International Emergency Management Society(TIEMS), David A Hirsh, Dean of the Harvard Medical School Academy of Educators, Jan-Henrik Norberger, General Manager for Education and Training of Australian Medical Association, Qu Guosheng, Vice President of The International Emergency Management Society(TIEMS), Xue-Jun(June) Kong, Massachusetts General Hospital, and Shi Bingyin, President of The First Affiliated Hospital of Xi'an Jiaotong University, Jiang Lihong, President of the First People's Hospital of Yunnan Province, Li Bing, President of Liuzhou Worker's Hospital delivered speech and shared experience respectively. The presentations were: "Saving lives by optimizing patient logistics-from stretcher to a holistic medical rescue strategy - A Norwegian Approach", "The



educational science and the story of the Harvard Medical School longitudinal integrated clerkship”, “Quality healthcare systems an Australian perspective”, “The trend of Improving the capacity for heavy and catastrophic rescue”, “Artificial intelligence and integration of East-West - the globalization of medical modernization”, “Imaging of future hospital”, “Building intelligent hospital to improve patient care”, and “Building intelligent hospital in mobile Internet era- a practice from Guangxi Zhuang Autonomous Region Liuzhou Workers Hospital”.

After competitive election speech given by representative from hospitals from different provinces and voting onsite, 2019 TEMC & BHGF International Medical Forum & the 8th Harvard China Program Experience Exchange Conference will be held in Kunming, Yunnan province. The First Affiliated Hospital of Kunming Medical University will undertake the forum with the joint effort of The First People’s Hospital of Yunnan Province.

Over the years, TEMC & BHGF has adhered to the establishment of a public welfare-support platform and an international high-end resource platform to help Chinese medical institutions build cooperation with world-renowned universities and hospitals. The successful completion of 2018 TEMC & BHGF International Medical Forum & Harvard Medical School China Program Experience Exchange Conference has effectively consolidated the medical exchanges achievements between China and foreign countries, responded to One Belt One Road initiative, established regular communication mechanism and continued international high-end dialogue, facilitating the cooperation between China and western countries in medical exchange and cooperation.

## TIEMS Italy Chapter Workshop

### Prevention and Preparedness in Emergency Management: How to improve Infrastructure Resilience



The International Emergency Management Society Italian Chapter  
Sede Legale: Via Cadore, 26 - 20135 Milano (Italia)  
Email: [info@tiems-it.it](mailto:info@tiems-it.it)  
Site web: <https://tiemsic.wordpress.com/>  
Codice Fiscale: 97649520158

#### TIEMS Italian Chapter Workshop

### Prevention and preparedness in Emergency Management: how to improve infrastructure resilience

Rome, January 29th, 2019  
ENEA Headquarters, Lungotevere Thaon di Revel, 76, 00196 ROME

#### Draft agenda

9:00 - Welcome coffee and participants’ registration

- 9:30 Opening  
Simona Cavallini (TIEMS-IT President)

#### Infrastructure: prevention and preparedness in Italy

- 10:00 – 10:30 Electrical distribution  
Silvio Alessandroni (ACEA-Areti SpA)
- 10:30 – 11:00 Prevention and preparedness in the Italian road system  
Patrizia Bellucci (ANAS SpA)

11:00 – Coffee break

#### Threats on the Italian territory

- 11:30 – 12:00 The Italian Earthquake Observatory  
Salvatore Stramondo (Osservatorio Nazionale Terremoti, INGV, Rome)
- 12:00 – 12:30 Flooding risk assessment: the NEWFRAME project  
Marcello Arosio (Pavia University and IUSS)
- 12:30 – 13:00 Scenarios opened by climate changes  
Gianmaria Sannino (ENEA)

13:00 - Lunch

Joint event with:



European Infrastructure Simulation and Analysis Centre  
Italian Node  
ENEA Casaccia Research Centre, Rome  
Website: [www.eisac.it](http://www.eisac.it)  
Email: [vittorio.rosato@enea.it](mailto:vittorio.rosato@enea.it)



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Site web: <https://tiemsic.wordpress.com/>  
Codice Fiscale: 97649520158

#### From protection to resilience

- 14:30 – 15:00 The Italian Department of Civil Protection: strategies and perspectives  
Luigi D’Angelo (Italian Department of Civil Protection)
- 15:00 – 15:30 EISAC.it and its tools: CIPCast, a Decision Support System for risk analysis and forecast on Critical Infrastructure  
Maurizio Pollino (ENEA and EISAC.it)
- 15:30 – 16:00 The WeResilient Project  
Alessandro Attolico (Province of Potenza)
- 16:00 – 16:30 The role of the Italian National Corp of Firefighters in territorial resilience: the urban dimension and the infrastructure perspective  
Stefano Marsella (Corpo Nazionale dei Vigili del Fuoco) TBC
- 16:30 – 17:00 TIEMS International activities and conclusions  
Sandro Bologna (AIIC and TIEMS International)



## TIEMS South Africa Workshop in cooperation with Rhodes University

### The 1<sup>st</sup> Eastern Cape workshop on Ethics in Disaster Situations

Programme for the 1<sup>st</sup> Eastern Cape Workshop on Ethics in Disaster Situations

Venue: Gavin Reilly Postgraduate Village

Date: 20<sup>th</sup> September 2019

Time slot	Activity/Presenting author	Topic
8:30-9:00	Registration	Registration
9:00-9:15	Roman Tandlich	Opening remarks
9:15-9:45	K. Harald Drager	TIEMS – introduction to the organization and its activities in Africa
9:45-10:15	Professor Godwell Nhamo	Ethical dilemmas during natural disasters: Emerging findings from cyclones and floods in Southern Africa
10:15-10:45	David Chikodzi	Review of ethical issues in the use of Earth Observation Technologies during disaster times
10:45-11:15	Tea	Tea
11:15-11:45	Felix Donkor	A tale of two disasters and the critical insights on how ICT can overcome fragmentation and inform measures for enhanced disaster risk reduction
11:45-12:15	Hugh van Niekerk	New SA Weather Service Impact based severe weather warning service
12:15-12:45	Siviwe Shwababa	Ethical approach to managing disasters in land reform farms, a case study of the South African Land Reform Programme
12:45-14:00	Lunch and informal conversations	Lunch and informal conversations

Programme for the 1<sup>st</sup> Eastern Cape Workshop on Ethics in Disaster Situations

Venue: Gavin Reilly Postgraduate Village

Date: 20<sup>th</sup> September 2019

Time slot	Activity/Presenting author	Topic
14:00-14:30	Hlengiwe Precious Kunene	Strengthening the mainstreaming of gender in disaster preparedness, relief and reconstruction: A case of South African floods
14:30-15:00	Kaitano Dube	Technology social media and ethics during disaster and emergencies in Africa
15:00-15:30	Peter du Toit	Ethical dilemmas confronting journalists covering disasters
15:30-15:45	Tea	Tea
15:45-16:15	Kuvashna Singh	Ethical challenges that health care professionals such as pharmacists are faced with
16:15-16:45	Elias Sithole	To be announced
16:45-17:15	Roman Tandlich	Animal ethics in disaster situations and concluding remarks
17:30-20:00	Cocktail function	Provost Café

## TIEMS Newsletters

TIEMS issued four newsletters in 2018, three regular newsletters and one special issue: (Click on the pictures and get access to the full newsletter)

### Regular Newsletter April 2018

**THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY**  
**Newsletter** - ISSUE 32 - April 2018  
 ISSN 2033-1614

**TIEMS QUALIFICATION IN INTERNATIONAL EMERGENCY & DISASTER MANAGEMENT CERTIFICATION**

**TQC**

PREPAREDNESS & PROTECTION

MITIGATION & PREVENTION

PREDICTIONS & EARLY WARNING

DISASTER

RECOVERY & RECONSTRUCTION

RESPONSE & RECOVERY

EMERGENCY OPERATIONS

PUBLIC AWARENESS

SEARCH & RESCUE

Illustration of TIEMS TQC Curriculum (see article in newsletter)

**The International Emergency Management Society**

TIEMS continues its international development, and is spreading out its activity more and more worldwide, with members and chapters. New members and chapters add valuable expertise and cultural diversity to the TIEMS international network, which comprises of users, planners, researchers, industry, managers, response personnel, practitioners, social scientists, and other interested parties within emergency management and disaster response. This network constitutes a large international multidisciplinary group of experts, with different educational backgrounds and various experiences. Read more about this network and its activities in this newsletter.

Joseph Pollack  
 TIEMS Newsletter Editor

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**In this issue**

- ✓ TIEMS Organization Update
- ✓ TIEMS QIEDH Certification
- ✓ TIEMS 2018 Board of Directors
- ✓ International Conference for the Decade Memory of the Wenchuan Earthquake
- ✓ Disaster Preparedness & Response Training & Workshop in the Philippines
- ✓ Second International Conference on Disaster Management
- ✓ 2017 TICCBHGF International Medical Forum & the 6th Harvard China Program Experience Exchange Conference
- ✓ The Emergency Managers Leadership Forum in Australia
- ✓ The Resuscitation and Research Conference 2018
- ✓ The International Conference on Climate Change and DRR
- ✓ And more...



## Regular Newsletter July 2018

**THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY**  
**Newsletter** - ISSUE 33 - July 2018  
 ISSN 2033-1614

**In this issue**

- ✓ **TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference**
- ✓ **The State of Civil Protection in the World**
- ✓ **The Amadeus Approach**
- ✓ **International Conference for the Decade Memory of the Wenchuan Earthquake**
- ✓ **Ontario Disaster and Emergency Management Conference, Toronto**
- ✓ **International Conference on Climate Change and DRM, India**
- ✓ **International Disaster Management Conference, Gümüşhane in Turkey**
- ✓ **The Other Side of Resilience To Terrorism (Book)**
- ✓ **Drivers- Project Update**
- ✓ **A holistic approach to long term SHM of transport infrastructures**
- ✓ **A Survey on Unsolicited Donations**
- ✓ **And More...**

Picture of some Heroes from the Thailand Cave Rescue Drama

**The International Emergency Management Society**  
 TIEMS continues its international development, and is spreading out its activity more and more worldwide, with members and chapters. New members and chapters add valuable expertise and cultural diversity to the TIEMS international network, which comprises of users, planners, researchers, industry, managers, response personnel, practitioners, social scientists, and other interested parties within emergency management and disaster response. This network constitutes a large international multidisciplinary group of experts, with different educational backgrounds and various experiences. Read more about this network and its activities in this newsletter.

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## Special Edition December 2018

**THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY**  
**Newsletter - Special Edition** - ISSUE 7 - December 2018  
 ISSN 2033-1614 A TIEMS Special Issue Covering  
 The TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference in Manila, the Philippines.

**The International Emergency Management Society**  
**Newsletter - Special Edition**

TIEMS network constitutes a large international multidisciplinary group of experts, with different educational backgrounds and various experiences. Their knowledge and experience are important to share with other experts worldwide. TIEMS has therefore decided to issue this additional newsletter, which we now call TIEMS Newsletter - Special Edition. This is the seventh issue, which we have dedicated to TIEMS 25th Anniversary and 2018 Annual Conference in Manila 13 - 16 November 2018. We invite other conferences and workshops, and RTD projects to use the opportunity to present the conference and workshop presentations and RTD projects to present articles of their results in the upcoming Special Edition Newsletters. We plan to have an issue three times a year. Please, give us feedback, and send us new articles for publication.

Alex Fullick  
 TIEMS Scientific Newsletter Editor

**Articles in this issue**

This issue is dedicated to  
 TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference in Manila

- ✓ **Presentation of Hiran Best Company**
- ✓ **Songpa Safety Training Center**
- ✓ **Disaster Risk Reduction Communication Platform**
- ✓ **TIEMS TQC Certification**
- ✓ **The Amadeus Approach to Earthquake Prediction**
- ✓ **Analysis of the Application of Haidexin Emergency Industry Platform in the Philippines**
- ✓ **A New Approach to Disaster Education**
- ✓ **From Protection To Resilience**
- ✓ **Poverty and Domestic Fuel Challenges**
- ✓ **And much more.....**

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## Regular Newsletter October 2018

**THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY**  
**Newsletter** - ISSUE 34 - October 2018  
 ISSN 2033-1614

**In this issue**

- ✓ **TIEMS Organization Update**
- ✓ **TIEMS President 2018 Annual report**
- ✓ **TIEMS 25<sup>th</sup> Anniversary and 2018 Annual Conference Announcement**
- ✓ **Civil protection in Europe: towards a unified command system?**
- ✓ **Invitation to participate in research project on challenges of unsolicited donations**
- ✓ **State of Civil Protection in the world: Typologies, Good practices and Economic Returns**
- ✓ **How to Predict the Next Big Earthquake in Manila? Is it possible? The Amadeus Approach**
- ✓ **I HEARD IT ON THE INTERNET! Common Emergency Management & Business Continuity Challenges**
- ✓ **Arcon Method Summary**
- ✓ **And more...**

TIEMS 25th Anniversary and 2018 Annual Conference  
 Manila, Philippines, 13 - 16 November 2018  
 At the University of Santo Tomas, the oldest university in Asia

**The International Emergency Management Society**  
 TIEMS continues its international development, and is spreading out its activity more and more worldwide, with members and chapters. New members and chapters add valuable expertise and cultural diversity to the TIEMS international network, which comprises of users, planners, researchers, industry, managers, response personnel, practitioners, social scientists, and other interested parties within emergency management and disaster response. This network constitutes a large international multidisciplinary group of experts, with different educational backgrounds and various experiences. Read more about this network and its activities in this newsletter.

Joseph Pollack  
 TIEMS Newsletter Editor

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## 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 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 Secretariat in Brussels

The TIEMS Secretariat in Brussels, Belgium started its operation for TIEMS 1<sup>st</sup> November 2010. Most administrative TIEMS activities have been transferred to the Secretariat so the board members will 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](mailto: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. 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 Financial Situation

Accomplishing TIEMS's mission on a limited budget is a continuous 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. 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 financed by fees collected by the society.

TIEMS participation in RTD projects has had a good impact on TIEMS financial situation, as well as being a benefit for its members. Members can apply for being on TIEMS team in RTD projects where TIEMS participate, given that they fulfill the projects qualifications requirements.

### 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 they carry out activities on TIEMS 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 they elect TIEMS Directors, and vote on decisions proposed by TIEMS Board.

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.

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 AGM's expectations, expressed in TIEMS AGM. Our

international 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 they can work together towards the TIEMS goal of contributing to more resilient societies worldwide.



**Oslo 25<sup>th</sup> September 2019**  
**K. Harald Drager**  
**TIEMS President**