

TIEMS 2017 Annual Conference Summary and Conclusions

The passing year 2017 is remarkable. The 24th TIEMS Annual Conference and Assembly 2017 took place in Kiev in Ukraine on December 4-7, 2017. About 100 experts from North and South Americas, Europe and Asia participated three days in the technical sessions and after the end of the conference attended the guided tours to the Chernobyl exclusion zone: the Chernobyl nuclear power station and the Duga-3 radar installation which is known in the West as the Russian Woodpecker (Chernobyl-2) as well as the medical and emergency center in Kiev. There were 62 oral and poster presentations including the small exhibition. Experts exchanged the latest scientific results and other information about emergency management, disaster risk reduction and the increasing environmental risks in the Donbas region in the Eastern Ukraine.



The core group of the organizing committee, the TIEMS Board of Directors and the directors.



TIEMS president with the volunteers



The guided tour to the Chernobyl exclusion zone and the city of Pripyat



The guided tour to the Chernobyl nuclear power station, the reactor nro. 4 (behind)



This is how the 1st supermarket in the U.S.S.R. looks today. It was opened in 1970 in the city of Pripyat, which is about 10 km away from the Chernobyl nuclear power station.



The recipients of the scholarship from the Rotary Club of Eastern Helsinki (Finland), which supported the TIEMS Annual Conference 2017 in Kiev in Ukraine.

The conference was the success despite the fact that the host organization, the TIEMS Ukraine Chapter, had only 2 months to set up the event from 0, with the following topics :

- Information and Communications Technology and Geographical Information Systems
- solutions for Civil Protection and Emergency Management
- Geomatics in Education for Civil Protection and Emergency Management
- Environmental Risk Assessment by Means of Remote Sensing
- Peacebuilding in Ukraine
- Management of Abounded Areas of Long-term Man-made Disasters
- International Project Funding Mechanisms

General Chair: Andre SAMBERG, Professor of Practice, TIEMS International Program Committee (Finland), co-chairs: Major General (civil protection) Ruslan M. BILOSHYTSKYI, Deputy Head of the State Emergency Service of Ukraine (Ukraine), Professor Oleksandr M. SUKHODOLIA, Head of Department of Energy Security and Technogenic Safety of the National Institute for Strategic Studies under the President of Ukraine (Ukraine) and Major General (ret.) (Special Communication and Information Protection Forces) Professor Oleksandr V. KORNEIKO, Head of Cyber Security Department, National Academy of Internal Affairs of Ukraine (Ukraine).

Keynote speakers were:

- Ms. Oleksanda CHURKINA, Deputy Minister of Ministry of Social Affairs of Ukraine
- Mr. Oleksandr SUKHODOLIA, Head of Department of Energy Security and Technogenic Safety, National Institute for Strategic Studies of Ukraine under the President of Ukraine
- Mr. Vitaly PETRUK, Head of The State Agency of Ukraine on Exclusion Zone Management, Ministry of Ecology and Natural Resources (Ukraine)
- Mr. Artur AYVAZOV, UNICEF's Director for Social Policy in Ukraine
- Mr. Mark BATTLE, Head of UN Water and Sanitation Cluster (presentation "Water Risk Assessment in Donbass")
- Mr. Rustam Pulatov, Component Leader of Community Security and Social Cohesion of UNDP Recovery and Peacebuilding in Ukraine ("Community Security in Pro-longed")
- Mr. Dmytro AVERIN, Project manager, The Organization for Security and Co-operation in Europe OSCE (presentation "Assessment of Environmental Damage in Eastern Ukraine by means of Donbass Environment Information System DEIS")

The conference covered all aspects related to Emergency Management, Cyber Risk Analysis, Virtual Training Means for First Responders and Resilience.

We had six workshops:

- Leveraging TIEMS Disaster Management Expertise to Strengthen Local Community Resilience through Global DRR Platform, Web-based Technologies for Disaster Risk Reduction
- Assessments of Vulnerabilities of Cyber in Power Grids and Critical Infrastructure: Case Ukraine 2015 - 2017
- EU-funded Horizon 2020 project "TARGET"
- EU-funded Horizon 2020 project "Driving Innovation In Crisis Management For European Resilience (Driver+)"
- TIEMS QIEM = Qualifications in International Emergency and Disaster Management
- World Bank Study On Typologies And Good Practices Of Civil Protection Systems In The World

Co-organized by

The National Institute for Strategic Studies under the President of Ukraine (Ukraine)
The State Emergency Service of Ukraine (Ukraine)
Ukrainian Academy of Cyber Security (UASC) (Ukraine)
Department of Cyber Security, National Academy of Internal Affairs of Ukraine, Ministry of Internal Affairs (Ukraine)
The State Agency of Ukraine on Exclusion Zone Management, Ministry of Ecology and Natural Resources (Ukraine)

With support of:

The United Nations Children's Fund (UNICEF) in Ukraine
 The United Nations Development Programmes (UNDP) in Ukraine
 The Organization for Security and Co-operation in Europe (OSCE) in Ukraine
 Department of Emergency Medical Care and Disaster Medicine, Ministry of Healthcare of Ukraine
 The Rotary Club of Eastern Helsinki (Finland)
 i4-Flame OÜ (Estonia)
 Procon Ltd. (Bulgaria)
 Hirain Technology Group (China)
 Lviv University of Life Safety (Ukraine)
 EU-funded Horizon 2020 project TARGET
 EU-funded Horizon 2020 project DRIVER+
 4-star hotel "Ukraine" (Kyiv, Ukraine)

TIEMS 2017 Annual Conference Final Program Sunday 3rd December 2017 Registration will be possible 2000 - 2200	
Monday 4th December 2017 Chair: Andre Samberg	
0800 - 0900 Registration	
0900 - 1000	Welcome and Opening Ceremony <p>Oleksandra CHURKINA Deputy Minister of Social Policy of Ukraine on European integration of Ministry of Social Policy of Ukraine will deliver the welcome word on behalf of the Cabinet of Ministers of Ukraine.</p> <p>Artur AYVAZOV UNICEF's Director for Social and Children Policy in Ukraine will welcome TIEMS and the participants of the TIEMS Annual Conference 2017 in Kyiv.</p> <p>Award Ceremony TIEMS Ukraine and Rotary Club of Eastern Helsinki will deliver award prizes to 2 reps from Lviv State University of Life Safety (Outstanding Young Researcher 2017 and Outstanding Instructor 2017)</p> <p>Signing Ceremony TIEMS and Ukrainian Academy of Cyber Security will sign a Memorandum of Understanding</p>
1000 - 1030	Coffee & Tea

1030 – 1250
Workshop 1

WORKSHOP 1

Leveraging TIEMS Disaster Management Expertise to Strengthen Local Community Resilience through Global DRR Platform, Web-based Technologies for Disaster Risk Reduction

TIEMS Korea Chapter
<http://www.pr4gdm>

Agenda

Duration (mins)	Description
10:30AM-10:40AM (10mins)	Overview of Global DRR Technology Platform <ul style="list-style-type: none">▪ Welcome Remarks (K. Harald Drager, TIEMS President)▪ Introduction (Prof. Young Jai Lee, Dongguk University)▪ Website Demonstration (Dongguk University Research Team)
90	Case Studies (Facilitator- Dr. H. Drager)
10:40-10:50	Presentation 1: Disaster Risk Reduction in the City of San Diego <i>Presenter: Dr. Thomas Robertson (USA)</i>
10:50-11:00	Q&A (Presenter asks prepared questions to the audience)
11:00-11:10	Presenter 2: The weakness of strong early warning systems. The case of Mexico <i>Presenter: Dr. Diego Otegui (Latin America & Caribbean)</i>
11:10-11:20	Q&A (Presenter asks prepared questions to the audience)
11:20-11:30	Presentation 3: CERT and local community resilience in China, present and future <i>Presenter: Dr. Qu Guosheng (China)</i>
11:30-11:40	Q&A (Presenter asks prepared questions to the audience)
11:40-11:50	Presentation 4: Water Risk Assessment in Donbass <i>Presenter: Mark Battle, Head of UN Water and Sanitation Cluster, and Prof. Andre Samberg, TIEMS Ukraine President</i>
11:50-12:00	Q&A (Presenter asks prepared questions to the audience)
12:00-12:10	Presentation 5: Community Security in Armed Conflict Zones: Case Eastern Ukraine <i>Presenter: Rustam Pulatov, Component Lead, Community Security and Social Cohesion, Recovery and Peacebuilding, United Nations Development Programme in Ukraine</i>
12:10-12:20	Q&A (Presenter asks prepared questions to the audience)
12:20-12:30	Presentation 6: Assessment of Environmental Damage in Eastern Ukraine <i>Presenter: Dmytro Averin, OSCE project manager</i>
12:30-12:40	Q&A (Presenter asks prepared questions to the audience)
12:40-12:50	Ways forward & Recommendations on utilizing the DRR platform <i>Facilitator: K. Harald Drager, TIEMS President</i>

1250 - 1350

Lunch

1350 – 1520
Workshop 2

WORKSHOP 2

Assessments of Vulnerabilities of Cyber in Power Grids and Critical Infrastructure: Case Ukraine 2015 - 2017

Chaired by: Oleksand Sukhodolia and Oleksandr Korneiko

National Institute for Strategic Studies of Ukraine, Department of Cyber Security of National Academy of Internal Affairs in Kyiv and Ukrainian Academy of Cyber Security

	<p align="center">PRESENTATION FOLLOWED BY DISCUSSION</p> <p align="center">IMPLEMENTATION OF CIP CONCEPT IN UKRAINE: ACHIEVEMENTS AND CHALLENGES</p> <p align="center">Oleksandr Sukhodolia, Ukraine</p>
1520 - 1530	Coffee & Tea
1530 – 1700 Workshop 3	<p align="center">WORKSHOP 3</p> <p align="center">Presentation and Discussion of the TARGET EU Project</p> <p align="center">Rod McCall, Luxembourg, The TARGET Project Team</p> <p align="center">http://www.target-h2020.eu/</p>
1700 - 1800	<p align="center">Poster Session</p> <p align="center">Viewing Posters</p> <p align="center">(List of Posters at the end of the Program)</p>
1800 - 2000	TIEMS Reception Networking
<p align="center">Tuesday 5th December 2017</p> <p align="center">Chairs: K. Harald Drager & Guosheng Qu</p>	
<p align="center">0800 - 0830</p> <p align="center">Registration</p>	
0830 - 1000	<p align="center">Welcome and Opening</p> <p align="center">Keynote Speaker</p> <p align="center">Safe Development Of Activities In The Exclusion Zone</p> <p align="center">Vitaliy PETRUK</p> <p align="center"><i>The Head of State Agency of Ukraine on Exclusion Zone Management Ukraine</i></p>
	<p align="center">Prevention And Management Of Emergency Situations In The Chornobyl Exclusion Zone</p> <p align="center">Oleg NASVIT</p> <p align="center"><i>The First Deputy of The Head of State Agency of Ukraine on Exclusion Zone Management Ukraine</i></p>
	<p align="center">TIEMS STATUS AND FUTURE WORK FOR MORE RESILIENT SOCIETIES WORLDWIDE</p> <p align="center">K. Harald DRAGER</p> <p align="center"><i>TIEMS President, Norway</i></p>
	<p align="center">USAR CAPACITY BUILDING, EMERGENCY INDUSTRY DEVELOPMENTS AND THE CONTRIBUTION OF CHINA TO THE WORLD</p> <p align="center">Guosheng QU</p> <p align="center"><i>TIEMS Vice President, China</i></p>
1000 - 1020	Coffee & Tea

1020 - 1035	MCI (MASS CASUALTY INCIDENT) MANAGEMENT: SAVING LIVES BY OPTIMIZING PATIENT LOGISTIC Robert Sunde, Less AS, Norway
1035 - 1050	DISASTER RESPONSE IN VIOLENT MARGINAL URBAN SETTINGS. IS THERE A ROLE FOR VIOLENT GANGS? Diego Fernandez Otegui, Argentina/USA
1050 - 1105	TOWARDS A TAXONOMY OF CRISIS MANAGEMENT FUNCTIONS Todor Tagarev and Valeri Ratchev, Bulgaria
1105 - 1120	THE PROBLEM OF INTERCEPTOR TOP LEVEL DOMAINS George Markowsky, USA
1120 - 1135	EMERGENCY MEDICAL SERVICES IN IRAQ USING “S.W.O.T ANALYSIS” Shakir Kadhim Katea Rubayi, Iraq
1135 - 1150	TRAINING AS TOOL OF FOSTERING A CIP CONCEPT IMPLEMENTATION: RESULTS OF TABLE TOP EXERCISE ON CRITICAL ENERGY INFRASTRUCTURE RESILIENCE Oleksandr Sukhodolia, Ukraine
1150 – 1250	TIEMS ANNUAL GENERAL MEETING
1250 - 1400	Lunch
1400 – 1600 Workshop 4	WORKSHOP 4 DRIVING INNOVATION IN CRISIS MANAGEMENT FOR EUROPEAN RESILIENCE (DRIVER+) Peter Petiet, Netherlands and Michael Löscher, Germany WORKSHOP DISCUSSION: HOW DRIVER+ CAN SUPPORT TIEMS AND HOW TIEMS MEMBERS CAN CONTRIBUTE TO DRIVER+?
1600 - 1630	Coffee & Tea
1630 - 1645	VULNERABILITY ANALYSIS FOR URBAN NATURAL GAS PIPELINE NETWORK SYSTEM Qiuju You, Wei Zhu, Jianchun Zheng and Shaohu Tang, China
1645 - 1700	Safety & Security Passports For CI Facilities As The Base Element of The State System of Critical Infrastructure Protection Dmytro BOBRO, Ukraine
1700 - 1715	A BRIEF ANALYSIS ON EMERGENCY POWER SUPPLY SYSTEM CONSTRUCTION Li Xuanye, China
1715 - 1730	METHODOLOGY OF RISK MANAGEMENT IN PROVIDING SUSTAINABLE DEVELOPMENT OF SETTLEMENTS Oleksandr NEPOMNYASHCHYY and Iryna LAHUNOVA, UKRAINE
1730 - 1745	TRENDS IN ARMED FORCES’ SUPPORT TO CIVILIAN AUTHORITIES Valeri Ratchev and Todor Tagarev, Bulgaria

1745 - 1800	RADON EMANATION AS A SOURCE OF RADIATION HAZARD TO THE ENVIRONMENT: THE CASE OF UKRAINIAN SHIELD Tamara Dudar, Valentin Verkhovtsev, Georgii Lysychenko and Yurii Tyshchenko, Ukraine
1800 - 1900	WORKSHOP AND BROKERAGE EVENT ON Emerging Technology and Emergency Industry Innovation as a Contribution to a Safer World THE CHINESE DELEGATION MEETS CONFERENCE PARTICIPANTS FOR DISCUSSING PARTNERSHIP AND COOPERATION FOR GLOBAL EMERGENCY INDUSTRY DEVELOPMENT
1900 – 2200	TIEMS Gala Dinner Networking Please, tell at registration if you like to participate in the gala dinner, such that we can give the restaurant a number of guests in advance! https://www.tripadvisor.co.uk/Restaurant_Review-g294474-d3377255-Reviews-Taras_Bulba-Kiev.html This place is located about 500 m from the conference venue. Each participant pay themselves directly to the restaurant depending on an individual order. The price range converted into euros is roughly 10-50 Euros excluding the alcohol.

Wednesday 6th December 2017 Chairs: Snjezana Knezic and Diego Otegui	
0800 - 0830 Registration	
0830 - 0845	FACING DISASTERS FROM THE FINANCIAL PERSPECTIVE: AVAILABLE TOOLS AND ADOPTED PRACTICES Simona Cavallini, Italy
0845 - 0900	SELF-REGULATION AS RISK MITIGATION TOOL IN FORMATION OF CRITICAL INFRASTRUCTURE Oksana MEDVEDCHUK, UKRAINE
0900 - 0915	ENGAGING THE PUBLIC TO IMPROVE RESPONSE TO PUBLIC HEALTH EMERGENCIES Thomas Robertson, USA
0915 - 0930	SECURITY ASPECTS OF SMART CITIES Jaroslav Pejcoch, Czech Republic
0930 - 1000	PRESENTATION OF VIRTUAL AND AUGMENTED REALITY OPPORTUNITIES FOR EDUCATION AND TRAINING PROGRAMS IN EMERGENCY MANAGEMENT AND DISASTER RESPONSE Presentation by Susie Chen Hirain-Boya Emergency Science & Technology Co., Ltd Company www.hirain-best.com.cn
1000 - 1030	Coffee & Tea

1030 - 1045	PRESERVING CULTURAL HERITAGE IN AS THE WORLD'S CLIMATE CHANGES Thomas Robertson, USA
1045 - 1100	A CASE STUDY ON IMPROVEMENTS OF SAFETY INDEX RELATED LEISURE IN KOREAN LOCAL AREA Young Jai Lee, Yennie Kim & Seong Kyung Kang
1100 - 1115	A MODEL OF RECREATION MANAGEMENT OF ABANDONED TERRITORIES AFTER ARMED CONFLICTS Sergiy Chumachenko, Sergei Ponomarenko, Sergei Hopersky, Valery Popel and Andre Samberg Ukraine & Finland
1115 - 1130	EDUCATIONAL TRADITIONS AND INNOVATIONS AT LVIV STATE UNIVERSITY OF LIFE SAFETY Dmytro KOBYLKIN, UKRAINE
1130 - 1145	EDUCATION IN GEOMATICS FOR FIRST LINE EMERGENCY MANAGEMENT IN UKRAINE Liudmila Datsenko, Oleksii Mikhno and Mykola Molochko, Ukraine
1145 - 1200	DEVELOPMENT AND APPLICATION FOR MOBILE EMERGENCY DRAINAGE SYSTEM IN URBAN FLOOD RESCUE Zhang Shifu, Deng Xianyi, Mao Yuwen, Zhang Dongmei and Li Cunjing, China
1200 - 1215	USING OF EXPERT EVALUATION METHODS FOR ESTIMATION CHARACTERISTICS OF INTEGRATED SYSTEM OF MONITORING AND EMERGENCIES ALERT Aljona Mykhailova, Serhii Chumachenko and Andre Samberg, Ukraine
1215 - 1230	URBAN AREA GEODYNAMIC RISK MAPPING USING LONG-TERM TIME SERIES OF SENTINEL-1 SATELLITE RADAR INTERFEROMETRY Sergey Stankevich, Iryna Piestova, Olga Titarenko, Volodymyr Filipovych, Tamara Dudar and Mykhailo Svideniuk, Ukraine
1230 - 1245	ALTERNATIVE VOICE COMMUNICATION SYSTEM FOR EMERGENCY AND DISASTER SITUATION APM-40 Matjaz Serazin, Slovenia
1245 - 1345	Lunch
1345 - 1400	AN OVERVIEW OF THE TIEMS ACADEMY George Markowsky, USA
1400 – 1500 Workshop 5	TIEMS QIEDM Certification QIEDM = Qualifications in International Emergency and Disaster Management Presentation and Discussion of the Concept Angeli Medina, Thomas Robertson & K. Harald Drager, TIEMS
1500 – 1600 Workshop 6	WORLD BANK STUDY ON TYPOLOGIES AND GOOD PRACTICES OF CIVIL PROTECTION SYSTEMS IN THE WORLD Presentation and Discussion of the Study K. Harald Drager, Angeli Medina, Thomas Robertson & Andre Samberg, TIEMS
1600 - 1630	Coffee & Tea
1630 - 1645	Applying the Risk-Height Criteria for Geospatial Damage Assessment of Flooding Territories in Ukraine George STARODUB and Andri HAVRYS, UKRAINE

1645 - 1700	DETERMINATION OF ANTHROPOGENIC INFLUENCE ON SPACE IMAGES IN CONDUCTING ENVIRONMENTAL MONITORING OF TERRITORIES Roman Pashkov and Dmitro Shevchenko, Ukraine
1700 - 1715	SEMANTIC MODELLING IN DISASTER AND EMERGENCY MANAGEMENT: AN OVERVIEW AND PERSPECTIVES Snjezana Knezic, Croatia
1715 - 1730	VOLUNTEERS IN DISASTER RELIEF AND ARMED CONFLICT ZONES; CASE STUDY: SYRIAN REFUGEES CAMPS IN JORDAN Mohamad Alzaghal, Jordan
1730 - 1745	EXPERT-ANALYTICAL PREDICTION OF NUCLEAR FOCUS IN THE MONITORING OF MILITARY EMERGENCIES Leonid Pisnya, Igor Cherniavskiy, Sergey Petrukhin and Serhii Chumachenko, Ukraine
1745 - 1800	Summary & Conclusions
	POSTERS
	BUILDING A DISASTER RESILIENT HEALTHCARE SYSTEM Jaime Almora & Angeli Medina, Philippines & USA
	TRENDS IN DISASTERS AND HUMANITARIAN OPERATIONS IN ASIA AND POSSIBLE CONSIDERATIONS FOR CHINESE NGOS AND FOUNDATIONS Yao Yue, Singapore
	IMPORTANCE OF SPACE TECHNOLOGIES FOR DISASTER RISK REDUCTION Meen Poudyal Chhetri, NEPAL
	DISASTER MANAGEMENT IMPLICATIONS OF HIV & TB CO-INFECTIONS IN NAMIBIA AND BOTSWANA Jean Rusere and Roman Tandlich, South Africa
	SCHOOL/COMMUNITY- BASED VEGETABLE GARDENS: A PROMISING APPROACH TO ENHANCE SCHOOLS AND COMMUNITY PARTICIPATION TOWARDS A SUSTAINABLE LIVING TO OVERCOME FOOD INSECURITY Viwe Krele, Nosiphiwe P. Ngqwala and Roman Tandlich, South Africa
	LEGISLATION, VULNERABILITY AND DISASTER RISK MANAGEMENT OF WATERBORNE DISEASES IN ZIMBABWE Tatenda G. Chirenda, Roman Tandlich, South Africa
	LAW ENFORCEMENT AND FIRST RESPONDERS INTERACTIONS WITH THE MENTALLY ILL: MAYBE WE SHOULD DELIVER DIFFERENT INTERACTIVE TRAININGS Sara Roldan and Katherine Turner, USA
	AN EVALUATION OF MOBILE BANKING TECHNOLOGY IN BOTSWANA USING POST ACCEPTANCE MODEL Tebogo Kebonang and Dr Keletso Letsholo, Botswana
	SELF-ADVERTISING ATTACK SURFACES FOR WEB APPLICATION HONEYPOTS - THE NEW TECH TO MANAGING CYBER DISASTERS Banyatsang Mphago, Dimane Mpoeleng and Shedden Masupe, Botswana
1800	End of Conference Technical Program

Thursday 7th December 2017

Chair: Andre Samberg

0830 - 1800

Guided Tour to the Chernobyl Exclusion Zone

There will be an exclusive unique trip to the Chernobyl exclusion zone in co-operation the State Agency of Ukraine on Exclusion Zone Management. It will take place on the 7th of December.

The attendees will be demonstrated the latest achievements on the radiation protection of nuclear power stations and the aftermath. The new sarcophagus, etc. will explained and demonstrated.

PROGRAM

08.30-09.00 Departure from Kyiv

10.30-11.00 Pass through Dytiatky police and dosimetry control checkpoint on the border of the 30-km Exclusion Zone (exclusion zone and the zone of absolute (mandatory resettlement), passport check, instruction of radiation safety rules and briefing with envoy officer of SE Technical and Information Support Management Center of the exclusion zone, insurance papers check.

Note. During the briefing visitors shortly informed about the exclusion zone (including ChNPP), problems of the area, get acquainted with the main directions of works performed in the exclusion zone by enterprises of the State Exclusion Zone Agency.

11.30-15.00 Observation pavilion of the ChNPP (presentation of the history of the New Safe Confinement creation, main tasks and objectives ChNPP). Drive to town Pripyat - sightseeing Pripyat town (no entry to the buildings). Lunch at the Chernobyl canteen (ecologically clean).

15.30-16.45 Visit to the right-bank dam and State Special Enterprise «Ecocentre» (presentation of the radiological monitoring in the Exclusion Zone).

16.45 Departure from Chernobyl town

17.00 Pass through Dytiatky checkpoint.

1800

End of Conference