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SafeGreece 2020

new technologies & civil protection

agenda 14.10

OPENING CEREMONY

09:00 - 09:30

Welcome Greetings

Gerassimos Papadopoulos, *Scientific Collaborator EU and UNESCO, SafeGreece President*

Nikos Chardalias, *Deputy Minister for Civil Protection and Crisis Management*

Chara Kafantari, *ΣΥ.ΠΙΖ.Α. - Progressive Alliance Parliament Group, Deputy Head of Civil Protection*

Apostolos Tzitzikostas, *Governor of Central Macedonia*

Tassos Kouroupakis, *Civil Protection Deputy Regional Governor, Region of Crete*

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special session: MultiHazards

09:30 – 10:15

Efthymios Lekkas [invited speaker]

Earthquake Planning and Protection Organisation of Greece, Chairman | University of Athens, Professor

Multiple disasters and crises: the new challenges on management in a climate and pandemic crisis era

10:15 – 10:30

Nikos Androulakis

Member of European Parliament | Amending Decision No 1313/2013/EU on a Union Civil Protection Mechanism Instructor

Amending Decision No 1313/2013/EU on a Union Civil Protection Mechanism - rescEU

10:30 – 10:45

Kostas Chondronikolas

Secretariat General for the Aegean and Island Policy

Multiple Crises Management in an island environment

- 10:45 – 11:00 | **Evi Georgiadou**
Hellenic Institute for Occupational Health and Safety (ELINYAE)
New Challenges for Multi – Hazard Emergency Management in the COVID-19 Era in Greece
Evi Georgiadou, Dimitra Pinotsi, Theoni Koukoulaki, Konstantina Kapsali
- 11:00 – 11:15 | **Chih-Long Pan**
National Yunlin University of Science and technology, Taiwan
An Innovative Emergency Medical Regulation Model in Natural and Manmade Disasters
Chih-Long Pan, Michail Chalaris, Jet-Chau Wen
- 11:15 – 11:30 | **Sotiria Stefanidou**
Aristotle University of Thessaloniki
Fragility Analysis of Bridges in a Multiple Hazard Environment
Stefanidou Sotiria, Vassilis Papanikolaou

session: Climate Crisis

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- 11:30 – 11:45 | **Thanos Giannakakis**
WWF
Nature-Based Solutions: an Innovative (Though Not New) Approach to Deal with Immense Societal Challenges
Thanos Giannakakis, Ilias Tziritis, Dimitris Ibrahim, Panagiota Maragou
- 11:45 – 12:00 | **Yannis Krestenitis**
Aristotle University of Thessaloniki
Coastal Inundation due to Storm Surges on a Mediterranean Deltaic Area under the Effects of Climate Change
Christos Makris, Vasilis Baltikas, Yannis Androulidakis, Yannis Krestenitis
- 12:00 – 12:15 | **Georgios Tasionas**
Democritus University of Thrace
Optimization Model of the Mountainous Forest Areas Opening up in Order to Prevent and Suppress Potential Forest Fires
Georgios Tasionas, Ioannis Koukoulos, Ioannis Sismanidis, Vasileios C. Drosos

session: Natural Hazards

- 12:15 – 12:30 **Konstantinos Kokolakis**
Decentralized Administration of Macedonia – Thrace and the Region of Central Macedonia, Civil Protection former Director
We and the lightning....!
- 12:30 – 12:45 **Kostas Kalabokidis**
University of the Aegean, Professor
Landscape Fire Risk Governance
Kostas Kalabokids, Palaiologos Palaiologou
- 12:45 – 13:00 **Despoina Bafi**
Harokopio University of Athens
Multitemporal Monitoring of Ecosystem Response Using Burn Severity and NDVI Index: the Case of Kineta Wildfire 2018
Despoina Bafi, Andreas Karavias, Ioannis Papadopoulos, Issaak Parcharidis
- 13:00 – 13:15 **Aglaia Matsakou**
Aristotle University of Thessaloniki
Assessment of Seismically Induced Landslide Susceptibility at the Island of Lefkada Based on Data Provided by the 2003 and 2015 Earthquakes
Aglaia Matsakou, Vassilis Marinos, George Papathanassiou, Sotirios Valkaniotis, Athanasios Ganas
- 13:15 – 13:30 **Nikolaos Tavoularis**
Region of Attica
Towards the Development of an Updated GIS-based Landslide Hazard Map in Attica Region, Greece; Dias Project
Nikolaos Tavoularis, Panagiotis Argyrakis, George Papathanassiou, Athanassios Ganas
- 13:30 – 13:45 **Vassilis Lekidis**
Institute of Earthquake Engineering & Engineering Seismology
The instrumentation of University of Macedonia building (Thessaloniki, GR) for seismic response analysis and health monitoring
Vassilis Lekidis, Stelios Pardalopoulos, Christos Papaioannou

special session: COVID-19

- 13:45 – 14:00 **Nikolaos Katsaros**
NCRS DEMOKRITOS Ex. Director of Research | Dept. of Biomedicine NEW YORK COLLEGE Director
The 7 Myths about the COVID-19 and the Origin of Coronavirus along with its Consequenses to the Enviroment
- 14:00 – 14:15 **Miranda Dandoulaki**
Region of Attica
Survey on Attitudes, Perceptions and Believes Regarding COVID-19 and its Management in Greece : Early Findings
Aspasia Karamanou, Miranda Dandoulaki
- 14:15 – 14:30 **Andreas Karavias**
Harokopio University of Athens
Changes in Nitrogen Dioxide Levels over Greece after the Outbreak of COVID-19; a Satellite View
Andreas Karavias, Isaak Parcharidis, Maria-Elissavet Koukouli, Ioanna Skoulidou , Dimitris Balis, Astrid Manders, Arjo Segers, De Bilt, Henk Eskes, Jos van Geffen.
- 14:30 – 14:45 **Phoebe-Demeter Speis**
National & Kapodistrian University of Athens
The COVID-19 Pandemic Initial Outbreak in Greece in Spring 2020. Public Perceptions and Behaviour
Phoebe-Demeter Speis, Ioannis Andreadakis, Emmanouil Andreadakis
- 14:45 – 15:00 **Fotini Gioltzidou**
Aristotle University of Thessaloniki
#MENOUMESPITI, #MENOUMEASFALEIS, #COVID19GREECE: The role of hashtag's language in the dissemination of information in Greece
Georgia Gioltzidou, Dimitrios Amanatidis, Ifigeneia Mylona, Fotini Gioltzidou

15:00 – 17:00 **Poster Session (p. 13-14)**

17:00 – 17:30 **Kyriaki Makri [invited speaker]**

National Observatory of Athens, Postdoctoral Research Fellow | Committee of GEOsciences Didactics of the Geological Society of Greece, President.
Conceptual development of the term Natural Disasters in textbooks from 1830 until today

17:30 – 19:00 **Round Table:**

Information and Education Role in Risk Reduction

Panel:

Assimina Kourou (EPPO, co-ordinator)

Miranda Dandoulaki (Region of Attica)

Aspasia Karamanou (Region of Attica)

Vassileios Vathrakogiannis (Hellenic Fire Corps)

special session

Prediction, Forecasting, Early Warning Systems

15.10

- 09:00 – 09:45 **Alessandro Annunziato [invited speaker]**
Joint Research Centre European Crisis Management Laboratory, Head
"Last Mile" Tsunami Project: Kos and Bodrum Tsunami Early Warning System
- 09:45 – 10:00 **Iraklis Katsaoulis**
National and Kapodistrian University of Athens
The Perils of Earthquake Prediction: a Historical and Epistemological Approach
- 10:00 – 10:15 **Stavroula Fotopoulpu**
Aristotle University of Thessaloniki
Towards an Earthquake Early Warning and Real-Time Seismic Risk
Kyriazis Pitilakis, Stavroula Fotopoulou, Anastasia Kiratzi, Stelios Siskos, Kostas Siozios, Christos Spandonidis
- 10:15 – 10:00 **Petros Katsafados**
Harokopio University of Athens
Nowcasting an Extreme Flash Flood Event: the Case of Mandra, Greece
Petros Katsafados, Christos Spyrou, George Varlas, Aikaterini Pappa, Angeliki Mentzafou, Anastasios Papadopoulos2 Marios N. Anagnostou, John Kalogiros
- 10:30 – 10:45 **Christos V. Komninos**
Hellenic Fire Corps
Cell Broadcast Messages as Public Warning System in Greece After Message, What?
Christos V. Komninos, Paraskevi D. Soulopoulou, Vasileios C. Komninos
- 10:45 – 11:00 **Athanasios Kalogeras**
Research Centre ATHENA, Industrial Systems Institute
Establishment of a Transnational Civil Protection Early Warning System in Adrion Territories: Project "Transcpearlywarning"
Athanasios Kalogeras, Miranda Dandoulaki

- 11:00 – 11:15 **Theodoros Gatsios**
National and Kapodistrian University of Athens
Exploring deformation patterns of the Methana volcano in Greece using Copernicus Sentinel-1 MTInSAR, GNSS/GPS and seismic data
T. Gatsios, F. Cigna, D. Tapete, V. Sakkas, K. Pavlou, I. Parcharidis
- 11:15 – 11:30 **Aggelos Chasiotis**
METRICA
Natural Disasters: Applications for online monitoring in order to on time forecasting and early warning
Aggelos Chasiotis, Hippocrates Pappas
- 11:30 – 11:45 **Break**

session: Natural Hazards

- 11:45 – 12:30 **Kyriazis Pitilakis [invited speaker]**
Aristotle University of Thessaloniki, Professor | European Association of Earthquake Engineering (EAEE), President
The European Seismic Risk Model 2020 (ESRM20)
- 12:30 – 12:45 **Vasiliki Kouskouna**
National and Kapodistrian University of Athens
The 19 July 2019 Mw5.1 Attica Earthquake: a Multidisciplinary Approach
V. Kouskouna, A. Ganas, M. Kleanthi, I. Kassaras, N. Sakellariou, G. Sakkas, S. Valkaniotis, E. Manousou G. Bozionelos, V. Tsironi, I. Karamitros, N. Tavoularis, Ch. Papaioannou7 and R. Bossu
- 12:45 – 13:00 **Georgios Panagopoulos**
International Hellenic University, Greece
Seismic Risk Assessment of the City of Serres Using the Openquake Platform
Georgios Panagopoulos, Anatoli Sismanidou, Sotiria Stefanidou, Emmanouil Kirtas

session: Search & Rescue

13:00 – 13:15 **Harris Georgiou**
Hellenic Rescue Team of Attica (HRTA)
Resilient communications and UAV fleet for future Search & Rescue operations
Harris Georgiou, Alexis Vlachopoulos, Aspasia Tzeletopoulou, Miltiadis Koutsokeras, Alexandros Kordonis, Eleftherios Ouzounoglou6, Angelos Amditis, Friedrich Steinhäusler, Auer Lukas9, Andreas Feichtner, Christoph Oberauer, Anaxagoras Fotopoulos, Pantelis Lappas, Georgios Diles

13:15 – 13:30 **Vassilis Tzironis**
SPELEO caving club | Greek Cave Rescue team
The cooperation between Civil Protection and Cave Rescue teams: The example of Sarchos

13:30 – 13:45 **Aspasia Tzeletopoulou**
Hellenic Rescue Team of Attica (HRTA)
Smart boots, fusion engine and aerial assets for enhanced situational awareness and safety in Search & Rescue operations
Harris Georgiou, Alexis Vlachopoulos, Aspasia Tzeletopoulou, Georgios Diles, Eva Jaho, Anaxagoras Fotopoulos, Angelos Chatzimichail7, Anastasios Karakostas, Panayiota Demosthenous, Antonis Hadjiantonis, Henry Meissner, Thomas Kraft, Adrian Schischmanow, Gustav Tolt, Claudio Paliotta, Norman Kerle, Maria Krommyda, Lazaros Karagiannidis, Constantinos Vassilakis, Angelos Amditis

13:45 – 14:00 **George D. Romosios**
Hellenic Fire Corps
The Flashover: Description and Firefighter Tactics
George D. Romosios, Vaios Zygouris, George Ntzaferis

14:00 – 14:15 **Alexios Vlachopoulos**
Hellenic Rescue Team of Attica (HRTA)
Enabling gesture-based controls for first responders and K9 units
Alexis Vlachopoulos, Harris Georgiou, Aspasia Tzeletopoulou, Panagiotis Kasnesis, Christos Chatzigeorgiou5, Dimitris Kogias, Charalampos Z. Patrikakis, Georgios Albanis8, Konstantinos Konstantoudakis, Anastasios Dimou, Petros Daras

session: Accidents & Hazards

14:15 – 14:30 **Michail Chalaris**

International Hellenic University | Hellenic Fire Corps

Novel Systems for Detection and Monitoring of Dangerous Substances in Water Environmental Sensitive Areas

Nikos Tsalas, Giorgos Katsouras, Michalis Chalaris, Stelios Samios, Efthymios Lytras, Kostas Papadopoulos, Nikos Kouris, Simos Malamis, Costas Noutsopoulos5, Danos Mamais5, Andreas Andreadakis

14:30 – 14:45 **Markela Giannousopoulou**

NCSR DEMOKRITOS

Maritime accidents and environmental hazards. Creating a dynamic model for predicting maritime accidents and environmental pollution

Markela Giannousopoulou, Myrto Konstantinidou

14:45 – 15:00 **Konstantina Bantouvaki**

Harokopio University of Athens

Earth Observation For Coastal Erosion Monitoring in Europe: the Space for Shore Project

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15:00 – 17:00 **Poster Session (p. 13-14)**

17:00 – 19:00

Round Table:

Legislative Framework and its Role for Local Authorities

Panel:

Gerassimos Papadopoulos (Coordinator)

Konstantinos Kokolakis

Kostas Chouvardas

16.10

09:00 – 10:10

Parallel Event by EPPO

Seminar for Teachers: "Seismic Protection of School Units" (Annex I)

session: Education

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10:10 – 10:15

Gerassimos Papadopoulos [invited speaker]

Scientific Collaborator EU and UNESCO

Earthquakes in Greece: Past, Present, Future: a comment

10:15 – 10:30

Afroditi Salta

2nd Lyceum of Megara, West Attica Secondary Education Directorate

Natural Disasters and Technological Accidents: Educated to Protect and to be Protected in Senior High School

10:30 – 10:45

Marianna Kalendi

Management Organization Unit of Development Programs (MOU S.A.)

Risk Communication and Disaster Management in Greece: the Prospect of an Adult Education Program

10:45 – 11:00

Assimina Kourou

Child Care Earthquake Preparedness: EPPO Initiative

Assimina Kourou, Ioanna Nikolopoulou, Aimilios M. Saber, Spilios Kyriakopoulos, Argiro H. Florou, Natalia Anyfanti

session: Innovation & Technology

- 11:00 – 11:15** | **Ioannis Kassaras**
I-REACT RSRA: Development of a Rapid Seismic Risk Assessment Tool that Integrates Instrumental, Crowdsourcing, Social Media Data and Empirical Vulnerability
I. Kassaras, V. Pipitsoulis, P. Papadimitriou, N. Voulgaris, V. Kouskouna, G. Kaviris, V. Kapetanidis, A. Karakonstantis, E. Lekkas, S. Lalechos, P. Bernard, R. Bossu, L. Fallou, F. Finazzi, C. Bielski, M. Chalaris, R. Kosheleva, A. Mitropoulos, P. Kinanlis, D. Kazantzidou-Firtinidou, L. Stupina, J. Alexander
- 11:15– 11:30** | **Michail Chalaris**
International Hellenic University | Hellenic Fire Corps
I-REACT: Improving Resilience to Emergencies Through Advanced Cyber Technologies
Michail Chalaris, Conrad Bielski, John Alexander, Vangelis Pipitsoulis, Ioannis Kassaras
- 11:30– 11:45** | **Olga Markogiannaki**
International Hellenic University
Application for the Real-Time Estimation Of Building's Seismic Damage in City-Scale on the Basis of Artificial Neural Networks
Konstantinos Morfidis, Olga Markogiannaki, Sotiria Stefanidou
- 11:45 – 12:00** | **Ioannis Kontos**
MARATHON DATA
The ArcGIS Platform as a useful tool for Civil Protection
- 12:00 – 12:15** | **Despoina Bafi**
Harokopio University of Athens
A Geospatial Intelligence Application Based on SAR Interferometry to Support Immediate Post-Seismic Infrastructure Inspections: the Cases of Earthquakes in the Balkan Peninsula
Despoina Bafi, Andreas Karavias, Theodoros Gatsios, Asimakis Fylaktos, Olga Markogiannaki, Efthymios Lekkas, Issaak Parcharidis
- 12:15 – 12:30** | **Athanasios Emmanouil Mourampezis**
Harokopio University of Athens
Geospatial Features and Mapping of Flood Events in Transboundary Basins in the Southern Balkans Using Earth Observation Satellite Data

12:30 – 12:45 | **Spiridon G. Krokidis**
Ionian University
A Low-Cost Seismograph: First Results
Spiridon G. Krokidis, Ioannis Vlachos, Nikolaos M. Polymenakos, Markos Avlonitis,
Anastasios Kostoglou and Vasileios Karakostas

12:45 – 13:00 | **Michail Chalaris**
International Hellenic University | Hellenic Fire Corps
Novel Solutions for Command and Control Network for Disaster
Management
Michail Chalaris, Vangelis Pipitsoulis, Itamar Banayan

session: Crisis Management

13:00 – 13:45 | **Amir Yahav [invited speaker]**
Israel National Steering Committee for Earthquake Preparedness, Director
Israel preparedness for tsunami, emphasizing on the March 2019

13:45 – 14:00 | **Lazaros Philippidis**
University of Greenwich , U.K.
Multimodal Wildfire Evacuation at the Microscopic Level
L. Filippidis, P. J. Lawrence, V. Pellacini, A. Veeraswamy, D. Blackshields, E. R. Galea

14:00 – 14:15 | **Anna Karatzetou**
Aristotle University of Thessaloniki
A Prioritization Scheme for Seismic Intervention in School Buildings. The
case of Thessaloniki, Greece
Anna Karatzetou, Evi Riga, Stefania Apostolaki, Stella Karafagka, Kyriazis Pitilakis,
Efthymios Lekkas

14:15 – 14:30 | **Miranda Dandoulaki**
Harokopio University of Athens
Emergency Evacuation in Case of an Imminent or an Ongoing Disaster in
Greece: a Comment

14:30 – 14:45 | **Michail Chalaris**
International Hellenic University | Hellenic Fire Corps
Long-Distance Voice Messaging Systems (Clear Voice) During the Time of
Natural and Manmade Disaster According to Health and Safety Regulations
Michail Chalaris , Vangelis Pipitsoulis, Ray Ingblum

14:45 | **Closure**

POSTERS

- 1.** UAVs To Enhance Watershed Management. Examples From N. Greece
Paschalis Koutalakis, Ourania Tzoraki, George N. Zaimis
University of the Aegean
- 2.** SCIENCE PROJECT: SpaCeborne SAR Interferometry as a Nonivasive tool to assess the vulnerability over Cultural hEritage sites
Athanasia-Maria Tompolidi, Asimakis Fylaktos, Theodoros Gatsios, Issaak Parcharidis
Harokopio University of Athens
- 3.** Heat Waves, Land Surface Temperature and Spatial Distribution of Public Hospitals in Attica – Greece
Athanasios Papachristou, Athanasia Kapsali, **Anastasios Mavrakis**, Athanasios Papachristou
Secondary Education Directorate of West Attica
- 4.** Exploring an Early Heat Wave Event in an Industrialized Area of Eastern Mediterranean (Thriasio Plain – Greece)
Anastasios Mavrakis, Athanasia Kapsali, Ioannis X. Tsiros
Secondary Education Directorate of West Attica
- 5.** The use of urban planning as a tool for strengthening civil protection and increasing of inclusive community resilience
Kalliopi Papadaki, **Sofia Karma**, Maria Poulou, Avgi Vassi, Efthimios Bakogiannis
Ministry of Environment and Energy | NTUA
- 6.** Flash Flood Interaction with Composite Infrastructures. Floodwater Velocity, Erosion and Deposition
Eleftheria Ezat, Emmanouil Andreadakis, Michalis Diakakis, Nafsika-Ioanna Spyrou
National and Kapodistrian University of Athens

- 7.** Optical Granulometry in Flood Deposits. Analysis and Mapping
Petros Andriopoulos, Emmanouil Andreadakis, Michalis Diakakis, Georgios Exadaktylos
National and Kapodistrian University of Athens
- 8.** Applying An Integrated Coastal Vulnerability Index (ICVI) to Sea-Level Rise for the Southern Coast of The Corinth Gulf, Greece
Paschalis Ramnalis, Dimitrios Vasilios Batzakis, Efthimios Karymbalis
Harokopio University of Athens
- 9.** A semantic approach for modeling community resilience data
Sofia Kostakonti, Vassilis Papataxiarhis, Stathes Hadjiefthymiades
National and Kapodistrian University of Athens
- 10.** Flood Hazard Assessment In Megalo Rema (Rafina) Drainage Basin (East Attica, Greece)
Maria Andreou, Dimitrios-Vasilios Batzakis, Konstantinos Tsanakas, Sotirios Karalis, Efthimios Karymbalis
Harokopio University of Athens

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