



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

UNESCO-IPRED 11th Annual Session

International Workshop on

« Build Resilient Society with Scientific Knowledge and Experience on Seismology and Earthquake Engineering »

11-12 June 2019

Hall 1.2 - UTCB

Programme at a glance

Tuesday 11 June	
Time	International Workshop
9:00 - 9:30	Registration
09:30 - 9:45	Opening remarks Radu Văcăreanu, Rector of UTCB Raed Arafat, Secretary of State, Ministry of Internal Affairs Hitoshi Noda, Ambassador of Japan in Romania
9:45 - 13:00	Session – Implementation Takeo Fukui Edgar Armando Peña Figueroa Gad ElQady Toshihiro Kamatani
(11:00 - 11:30)	Coffee break
	Kazuo Sasaki E. S. Georgescu Gociman Cristina Olga Dragos Tătaru Iolanda Crăițăleanu
13:00 - 14:30	Lunch
14:30 - 17:30	Session – Technology for seismic safety Raúl Alvarez Medel Alberto Galaviz Alonso Mai Ito Yuji Ishiyama Ercan Yüksel
(16:00 - 16:30)	Coffee break
	Alexandru Aldea Florin Pavel Osman Tunc Cetinkaya Bogdan Cătălin Ștefănescu



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

Wednesday 12 June	
Time	International Workshop
9:30 - 13:00	Earthquake monitoring and seismic mapping Natalya Silacheva Carlos Zavala Cristian Arion Dan Bălțeanu Anabella Coțovanu
(11:00 - 11:30)	Coffee break Gheorghe Mărmureanu Dragoș Toma-Dănilă Paul Olteanu Claudiu Dragomir Alexandru Țigănescu
13:00 - 14:30	Lunch
14:30 - 17:00	Session – Masonry and concrete structures Tatsuo Narafu H. Bechtoula Radu Văcăreanu Mihail Iancovici
(15:30-16:00)	Coffee break Eugen Lozincă Viorel Popa Alexandra Scupin

Note: The presentations in the International Workshop will be in English language. The duration of each presentation is 15 minutes. The Q&A time is scheduled in the end of each Session.

The full list of the titles of the presentations and authors is presented below.



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

List of the Presentations

Day 1 (11th June)

Implementation

- UNESCO's contribution to DRR, Takeo Fukui
- Mutihazard assessment for defining safety upgrading strategies in school facilities, Edgar Armando Peña Figueroa
- Cultural Heritage Preservation, Documentation and Exploration - Case Studies in Egypt, Gad ElQady
- Guidelines for continuing functions of disaster prevention bases, Toshihiro Kamatani
- How to save people from earthquake damages, Kazuo Sasaki
- A critical assessment of the Romanian regulation for post-earthquake investigation of buildings, E. S. Georgescu
- Earthquake History of UNESCO Heritage Buildings in Transylvanian Burg of Sighisoara, Romania, E. S. Georgescu
- Earthquake disasters assessment in a multi-hazard approach. Case study of a protected area in Bucharest, Romania, E. S. Georgescu, I.-G. Craifaleanu, C. O. Gociman, M. S. Georgescu, C. S. Dragomir, D. Dobre
- Complex urban planning, architecture and structure strategies in disaster risk reduction to multiple hazards of the protected built space, Gociman Cristina Olga, Florescu Tiberiu, Moscu Cristian Iosif
- Seismic mitigation and risk awareness through educational projects, Dragos Tataru
- A review of recent earthquake awareness and preparedness projects at URBAN-INCERC, I.-G. Craifaleanu, E. S. Georgescu, C. S. Dragomir, D. Dobre

Technology for seismic safety

- Seismic protection in Chile - 25 years of evolution, Raúl Alvarez Medel
- Numerical Simulation of Seismic Waves for Mexican Basin, a Tool to Understand Source, Path and Site Effects and for Protocol Activations, Alberto Galaviz Alonso, Oscar López Batiz
- Verification of Non-linear Semi-active Isolated Structure by Dual Real-time Hybrid Test, Mai Ito



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

- Comparison of factors to determine design seismic actions between ISO 3010, BSL of Japan, Eurocode 8 and IBC & ASCE7 of U.S., Yuji Ishiyama
- Energy-Based Procedures in Seismic Design, Ercan Yüksel and Ahmet Güllü
- Seismic instrumentation of ELI-NP Extreme Light Infrastructure - Nuclear Physics, Măgurele, Romania, Alexandru Aldea, Basarab Chesca
- Overview on recent PSHA studies for Romania, Florin Pavel, Radu Vacareanu
- Seismic design measures adopted in Izmit Bay bridge, Osman Tunc Cetinkaya
- Influence of variable load distribution on the state of load in a steel structure sized by seismic actions, Bogdan Cătălin Ștefănescu

Day 2 (12th June)

Earthquake monitoring and seismic mapping

- Seismic zoning in Kazakhstan, Natalya Silacheva
- Current state of SHM system in Peru, Carlos Zavala, Miguel Diaz, Gabriela Cunia
- Advanced geo-data modelling to assess earthquake-induced liquefaction deposits for Bucharest city, Cristian Arion, Elena-Andreea Calarasu
- Geo-data modelling an engineering tool as guidelines for estimating near-surface seismic effects, Cristian Arion, Elena-Andreea Calarasu
- Interdisciplinary researches in the Vrancea Seismic Region as a support for disaster resilience in rural areas, Dan Bălțeanu, Mihai Micu, Marta Jurcescu, Mihaela Sima, Gheorghe Kucsicsa
- Stochastic Simulation of Ground Motions Generated by Vrancea Intermediate-Depth Seismic Source, Anabella Coțovanu
- On Vrancea deep earthquakes with peak ground accelerations (PGA) larger than in epicentre, Marmureanu, Gh. Balan, Fl. St., Mărmureanu, A., Cioflan, C.O.
- Advances in the rapid loss estimation of damage generated by earthquakes in Romania, Toma-Danila Dragos, Cioflan Carmen Ortanza, Tigănescu Alexandru
- Ground Motion Prediction Model for Spectral Displacement of Earthquakes Generated by Intermediate-Depth Vrancea Seismic Source, Paul Olteanu, Radu Văcăreanu
- The Romanian URBAN-INCERC Seismic Strong-Motion Recording Network as a Tool for Reducing Earthquake Disasters, C. S. Dragomir, V. Meiță, E. S. Georgescu, I.-G. Craifaleanu, D. Dobre
- Mitigation of seismic risk through vibration-based structural monitoring, Alexandru Tigănescu, Stefan-Florin Balan, Constantin Ionescu, Bogdan Felix Apostol



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

Masonry and concrete structures

- Brief introduction of JICA's Policy on Disaster Risk Reduction and a New Initiative in the Philippines for Safe Concrete Hollow Brock Structures based on Achievement of UNESCO/IPRED, Tatsuo Narafu
- Experimental investigation of the effect of masonry infill panels and RC shear walls on the seismic performance of RC bare frames, H. Bechtoula, H. Aknouche and A. Airouche
- Probabilistic seismic risk assessment for reinforced concrete buildings in Romania, Radu Văcăreanu, Florin Pavel, Alexandra Scupin
- Probabilistic seismic damage evaluation of low-rise RC frame buildings, Mihail Iancovici, Radu Văcăreanu, Florin Pavel
- Experimental study on seismic behavior of old masonry walls in Romania, Eugen Lozincă, Viorel Popa, Dragoș Coțofană, Alexandru Basarab Cheșcă
- Experimental study on emulative connections for precast members, Viorel Popa, Mihai Pavel, Eugen Lozincă, Andrei Papurcu, Eugen Iovănică
- Numerical simulation of the non-linear response of unreinforced masonry, Alexandra Scupin