

**3rd International conference on Science and Technology for Safe
Development of Lifeline Systems - Natural risks**

*Progress on seismic and geotectonic modeling across CEI territory and
implications on preventing and mitigating seismic risk*

October 24-26, 2007 in Bucharest, Romania

CONFERENCE PROGRAMME

OCTOBER 24 (Wednesday):

OPENING 9:00-9:30 Chairman: M. Radulian

**SESSION I Seismicity and Seismotectonics
Chairman: G.F. Panza**

09:30	Preventive actions to the impact of large Vrancea events in Bucharest carried on in the framework of CEI, <i>G. F. Panza, C.O. Cioflan, M. Kouteva, M. Radulian, G. Mărmureanu, I. Paskaleva - Invited</i>
10:00	A note on the damage capacity of the strong intermediate-depth Vrancea earthquakes in Bulgaria, <i>M. Guentcheva-Kouteva, I. Paskaleva, G.F. Panza - Invited</i>

**Coffee Break
10:30 – 11:00**

11:00	Some remarks on the seismic risk to lifelines due to the activity of the Vrancea seismogenic zone, <i>H. Sandi - Invited</i>
11:30	Seismicity of Bosnia & Herzegovina in the period 1996-2005, <i>I. Brlek - Invited</i>
12:00	Tidal influence on the temporal distribution of earthquake occurrences, <i>P. Varga</i>
12:20	Seismotectonic activity in Belarus, <i>A. Aronov, V. Kulich</i>
12:40	The 1928 Plovdiv sequence (Bulgaria): fault model constrained from geodetic data and surface breaks, <i>D. Dimitrov, J.-C. Ruegg, J.-B. de Chabaliere, R. Armijo, B. Meyer, I. Georgiev, E. Botev</i>

**Lunch
13.00 – 15:00**

SESSION II Seismicity, Seismic Hazard and Prediction

Chairman: *P. Varga*

15:00	Seismic safety of structures, Case study: Probabilistic methodological approach to definition of seismic input, <i>S. Stamatovska</i>
15:20	Deterministic earthquake scenarios for Bucharest, <i>C. O. Cioflan, A. Marmureanu, G. F. Panza</i>
15:40	Analysis of strong motion records (Mw=4.3-4.9) obtained recently on Elbasani (Central Albania) area, <i>L. Duni</i>
16:00	Deterministic and probabilistic PGA values for Tirana city, <i>L. Duni</i>

Coffee Break

16:20 – 16:50

16:50	Estimation of an upper limit on prehistoric peak ground acceleration using the parameters of intact speleothems in Hungarian and Bulgarian caves, <i>G. Szeidovitz, I. Paskaleva, K. Gribovszki, G. Surányi, K. Kostov, P. Varga</i>
17:10	On the geodynamic evolution of the SE Carpathians and their foreland (Romania), and related seismicity, <i>L. Beșuțiu</i>
17:30	On the complex regional and global NETWORK sets for researching the possibilities for reliable natural risks estimation including "when, where and how" earthquake prediction, <i>S. C. Mavrodiev, L. Pekevski, G. Melikadze, T. Jimseladze, T. Mosgowa, V. Bachmutov, V.D. Rusov, V.N.</i>

POSTER SESSION

18:00 – 19:00

Dinner: 19:30 – SIQUA Hotel

OCTOBER 25 (Thursday):

SESSION II Seismicity, Seismic Hazard and Prediction

Chairman: *S. Stamatovska*

09:00	History of early isoseismal maps, <i>P. Varga - Invited</i>
09:30	Seismicity patterns in Vrancea and predictive features, <i>M. Radulian, M. Popa, O. Cărbunar, M. Rogozea - Invited</i>
10:00	Ground motion models – State of the art, <i>S. Stamatovska - Invited</i>

Coffee Break

10:30 – 11:00

SESSION III Site Effects, Microzonation, Vulnerability

Chairman: I. Paskaleva

11:00	Associated natural hazards: earthquakes and landslides, reflected in the electromagnetic data, <i>D. Stănică – Invited</i>
11:30	State of art of geodetic studies for monitoring crustal motions in Bulgaria and the impact on geodynamics and seismotectonics, <i>I. Georgiev, D. Dimitrov, S. Nikolova, S. Shanov</i>
11:50	An approach of microzonation of the Sofia city, <i>Panza G.F., Vaccari F., Paskaleva I., G. Koleva</i>
12:10	Analysis of seismic activity for Sofia region with synthetic accelerograms, <i>D. Radev</i>
12:30	Relevance of H/V spectral ratios technique in case of Bucharest city, <i>B. Grecu, M. Radulian, N. Mandrescu, G. F. Panza</i>

Lunch
13.00 – 15:00

Chairman: M. Guentcheva-Kouteva

15:00	Numerical and experimental site effects study: Kishinev city, Republic of Moldova, <i>V. Alcaz, A. Zaicenco, E Isicko</i>
15:20	Fragility evaluation of existing typified educational system buildings in Albania, <i>N. Pojani, M. Baballeku</i>
15:40	Synthesis of nonstationary seismic response of structures, <i>S. Radeva</i>

Coffee Break
16:00 – 16:30

POSTER SESSION
16.30 - 17.30

CLOSING SESSION

Chairman: A. Kendzera

17:30 – 18:00

- Minutes of the Meeting (by P. Varga)
- Place and date of the next Meeting (by I. Paskaleva)
- Closing of the Meeting (by P. Varga)

OCTOBER 26 (Friday):

Excursion:

One day tour in the Southern Carpathians area

- Visit to the Vidraru dam and lake at the foothill of the Făgăraș Mountains
- Visit to the Seismological Observatory – Vidraru dam
- Sightseeing tour of the Curtea de Argeș city (famous historical and cultural centre of Valahia – Southern Romania)
- Lunch in Curtea de Argeș
- Visit to Poenari, fortress of Vlad Tepeș (Vlad The Impellor), well-known ruler of Valahia in 15 century.