



# Seminar - Workshop

Organized by:

M. Nodia Institute of Geophysics Iv. Javakishvili Tbilisi State University  
Institute of Earth Sciences Ilia State University



## BlackSeaHazNet

**COMPLEX RESEARCH OF EARTHQUAKES'  
FORECASTING POSSIBILITIES, SEISMICITY AND  
CLIMATE CHANGE CORRELATIONS**

**WORK PROGRAMME**



ILIA STATE UNIVERSITY



**Sponsored by**

**COUNCIL OF EUROPE**

EUR-OPA MAJOR HAZARD AGREEMENT

EUROPEAN CENTRE

**GEODYNAMICAL HAZARDS OF HIGH DAMS**

**and by the GEORGIAN GEOTHERMAL ASSOCIATION**

EUR-OPA  
EUR-OPA MAJOR HAZARDS AGREEMENT  
ACCORD EUROPA RISQUES MAJEURS



**13-16 September 2011  
Tbilisi, GEORGIA**

**12.09.2011**

**Arrival day**

**1<sup>st</sup> day: September 13, 2011**

- 9:30-10:00**      **Registration of the Participants**
- 10:00-10:30**      **Opening Ceremony**
- Dr. George Melikadze**, M. Nodia  
Institute of Geophysics, Iv. Javakhishvili  
Tbilisi State University
- Dr. Strachimir Mavrodiev**  
**BlackSeaHazNet**  
Project Coordinator
- 10:30-11:30**      **Chair: Dr. Tamaz Chelidze**
- Dr. Valery Lytvynov**
- Antarctica as the Unique Natural  
Laboratory for Determination of Main  
Reasons of Earth's Global Changes
- 11:30-12:00**      **Dr. Natalya Kilifarska**
- Statistical Methods in Analysis of  
Climate Variability and its Forcing
- 12:00-12:30**      ***Coffee Break***

**12:30-13:30**     **Chair: Dr. Strachimir Mavrodiev**

**Dr. Tamaz Chelidze**

Triggering and Synchronization of Seismicity:  
Laboratory and Field Data

**13:30-14:00**     **Dr. Stefan Shanov**

Extensometric Observations as Earthquake  
Precursors: Case Study for the Black Sea  
Area

**14:00-15:00**     ***Lunch***

**15:00-15:30**     **Chair: Dr. Lazo Pekevski**

**Dr. Erhan Alparslan**

Processing Russian and European Earth  
Observations for Earthquake Precursors  
Studies (PRE-EARTHQUAKES) EC 7th  
Framework Programme Project and  
TUBITAK MRC's Role in this Project

**15:30-16:00**

***Coffee break***

**16:00-16:30**

**Chair: Dr. Stefan Shanov**

**Dr. Mehmet Ergin**

TÜRDEP Project - Multi-Disciplinary  
Earthquake Researches in High Risk  
Regions of Turkey Representing Different  
Tectonic Regimes

**16:30- 17:00**

**Dr. Nikolai Dobrev**

3D Monitoring of Geological Hazard  
Processes in Bulgaria

**18:00-20:00**

***Ice Breaker Party***

**2nd day: September 14, 2011**

**10:00-10:30**

**Chair: Dr. Erhan Alparslan**

**Dr. Stanka Sebela**

Scientific Research in Karst Areas in  
Slovenia Related to Earthquake  
Precursors

**10:30-11:00**

**Dr. Vedat Ediger**

Investigation of Possible Active Faults in  
Istanbul Land Area and Development of  
Landslide Determination and Monitoring  
Methodologies in Istanbul Metropolitan  
Area by Multidisciplinary Researches

**11:00-11:30**

**Dr. Mehmet Ergin**

Sismokul- Seismology at School

**11:30-12:00**

**Dr. Tea Godolazde**

Seismo-tectoncs and Earthquake Hazard  
of the Tbilisi Area, Georgia

**12:00-12:30**

***Coffee Break***

**12:30-13:00**

**Chair: Dr. Natalia Kilifarska**

**Dr. Kerim Kerimov**

Problems and Judgments About  
Possibility of Short-term Prediction  
Earthquakes

**13:00-13:30**

**Dr. Katya Georgieva**

Solar Activity and its Geoeffective  
Manifestations

**13:30- 14:00**

**Nino Kapanadze**

Creation of Multi-parametrical  
Monitoring Network on the Territory  
of Georgia

**14:00-15:00**

***Lunch***

**15:00-15:30**

**Chair: Dr. Nikolai Dobrev**

**Dr. Genadi Kobzev**

A Method of Analysis of Geodynamical  
Data

**Dr. George Melikadze**

**15:30-16:00**

Evolution of Geodynamic Field During  
Preparation of Earthquake

**16:00-16:30**

**Aleksandr Sborschikov**

Nonextensivity Concepts and Modern  
Approach to Seismic Data Analysis,  
Theory and Applications

**16:30-17:00**

*Coffee Break*

**17:00- 17:30**

**Discussion**

**18:00-20:00**

*Dinner*

**3rd day: September 15, 2011**

**10:00-10:30**

**Chair: Dr. Strachimir Mavrodiev**

**Mr. Petko Nenovski**

DFA analysis of SEGMA Magnetic Field Data  
Around the M6.3 Aquila EQ

**10:30-11:00**

**Dr. Maria Chamati**

Application of DFA Method to Magnetic Field

**11:00- 11:30**

**Dr. Bojidar Srebrov**

**11:30-12:00**

**Tamar Jimsheladze**

Study of Geomagnetic Variations in Georgia and Establish the Anomaly Nature of Earthquake's Precursors

**12:00-12:30**

***Coffee Break***

**12:30-13:30**

**Dr. Strachimir Mavrodiev**

**Dr. Lazo Pekevski**

**13:30-14:30**

***Lunch***

**14:30**

Training- Excursion To Dusheti Geomagnetic Observatory

**19:00**

***Dinner***



**4th day: September 16, 2011**

**10:00-10:30**

**Chair: Dr. Ivan Kobal**

**Dr. Dionisis Patiris**

Radon Measurements in the Aquifer of  
Gran Sasso, L' Aquila, Italy

**10:30-11:00**

**Dr. Christos Tsabaris**

Set up and Deployment of a Radon  
Monitoring Platform in Marmara Sea  
(Anatolian fault)

**11:00-11:30**

**Dr. Asta Gregoric**

Methods for long-term Radon Time-series  
Evaluation

**11:30-12:00**

***Coffee Break***

**12:00-12:30**

**Chair: Dr. Christos Tsabaris**

**Dr. Mateja Smerajec**

Radon and Measurement Techniques

**12:30-13:00**

**Dr. Ivan Kobal**

Radon as Earthquake Precursor

**13:00- 14:00**

***Lunch***

**14:00-15:00**

**Discussion and Results of the Workshop**

**15:00-18:00**

**Sightseeing Tbilisi**

**19:00**

***Gala Dinner***

**17.09.2011**

***Departure day***