

**SUMMARY PROCEEDINGS OF THE
SCIENTIFIC AND PRACTICAL SEMINAR
ON SEISMIC PROBLEMS AND POST CRISIS OPERATIONS.**

**THE BSEC NETWORK OF LIAISON OFFICERS
RESPONSE IN CONDITION OF AN EARTHQUAKE**

Krasnaya Polyana, Russian Federation, 30 September – 1 October 2009

1. The Scientific and Practical Seminar on Seismic Problems and Post Crisis Operations was held in Krasnaya Polyana, the Russian Federation, on 30 September – 1 October 2009.
2. The Seminar was organized by the Ministry of Civil Defence, Emergencies and Disaster Relief of the Russian Federation in its capacity of the Country-Coordinator of the BSEC Working Group on Cooperation in Emergency Assistance.
3. The representatives of the BSEC Member States took part in the Seminar. The List of Participants is attached as Annex I.
4. Mr. Viktor GALICIN, Deputy Director of the Department of International Cooperation welcomed the participants of the Seminar on behalf of the Ministry of Civil Defence, Emergencies and Disaster Relief of the Russian Federation (EMERCOM of Russia). He underscored the significance of coped actions of rescuers of the BSEC Countries in SAR operations and, in particular, in case of earthquakes.
5. The Draft Agenda of the Seminar was discussed and adopted. The Agenda, as adopted, is attached as Annex II.
6. The participants were shown a movie on the activities of the South Regional Search and Rescue Centre of EMERCOM of Russia in 2008.
7. The participants made presentations and discussed the best world practices in the seismic hazard monitoring and earthquake forecasting. They exchanged views on scientific bases and stages of earthquake forecasting. Particular attention was paid to the practical work with population on the issues of seismic danger, including educational projects for school children. Modern technologies for inspection and assessment of conditions of buildings were presented.
8. The participants conversed on the usage of the BSEC Liaison Offices Network on Emergency Assistance in condition of an earthquake as well as on new trends in emergency assistance and possible new forms of cooperation among the BSEC Member States. Referring to the decisions of the recent BSEC Ministerial meeting (Baku, 18 September 2009) they underlined the importance of the soonest activation of the BSEC Network of Liaison Officers on Emergency Assistance.

9. Dr. Gennadiy NIGMETOV, Scientific Research Expert in All Russian Research Institute of Civil Defence and Emergencies, made the presentations “Estimation of seismic damage and individual risk” and “Mobile estimation of buildings and constructions stability”. The presentations contained information on estimation of seismic danger and risks in the Black Sea and Mediterranean Sea Regions. A report of the All Russian Research Institute of Civil Defense and Emergencies presented the estimation of a short- and long-term seismic danger of the region; vulnerability of constructions (on the examples of the Krasnodar and Stavropol regions); and individual seismic risk (the presentation is attached as Annex III).

10. Mr. Nikolay GRIGORYAN, Press-Attaché of the Armenian Rescue Service and Head of “Emergency Channel” Information Centre made a presentation on the problems of awareness of population about seismic danger and seismic risk. He described in detail the work of the Armenian Information Centre “Emergency Channel” which provides educational programs and consultancy on emergency situations for population and public sector. The presentation of Mr. N. GRIGORYAN was accompanied by a movie about the Spitak devastating earthquake (1988), demonstration of materials (brochures, leaflets and newspapers) which are used in educational programs about emergencies. Special attention was paid to the educational programs for schoolchildren.

11. Ms. Slavica RADOVANOVIC, General Manager, Seismological Survey of the Republic of Serbia, made a presentation “Seismic risk mitigation: education of children” (the presentation is attached as Annex IV), informing about 100-years experience of the Serbian Seismological Survey in Belgrade, activities of the national civil defense in protection of population from natural disasters, and in particular from earthquakes, estimation of building vulnerability and education of schoolchildren on actions during earthquakes. Particular attention was paid to international cooperation and utilization of best world practices in this field. Ms. S. RADOVANOVIC acquainted the participants with educational programs on seismic preparedness in Serbian schools.

12. Mr. Milan MIHAJLOVIC, Head of Section for Emergency Situations of Kolubarski District, Department for Emergency Situations, Ministry of Defence of the Republic of Serbia, said about activities of the Serbian civil defense and, in particular, in case of emergencies caused by earthquakes. His presentation contained also information about preparing maps of seismic hazard, estimation of seismic risk and rescue management. Saying about the importance of the present seminar Mr. M. MIHAJLOVIC suggested that the practice of such seminar should be continued. In this regard, he said that the Serbian side will study a possibility of organizing such event in its country.

13. Mr. Valeriy SINKOV, Chief of Section for Emergency Preventing, South Regional Center, EMERCOM of Russia, made a presentation concerning seismic situation on the territory of the South Federal Region of the Russian Federation and development of a system of early warning in emergencies. The presentation contained visual materials on the monitoring of seismic situation along the Trans Caucasian Road.

14. Ms. Tatyana TIMOKHOVA, Deputy Head of Section, Finance and Economic Department, EMERCOM of Russia, made a presentation about financing of operations from the Reserve Fund of the Government of the Russian Federation for prevention and overcoming of emergencies and

aftermath of natural disasters. Using concrete examples, she informed about methodologies of calculations used by the EMERCOM of Russia for SAR operations.

15. Mr. Mikhail SHEVCHUK, Deputy Head of Regional Management Department, Krasnodar Region, EMERCOM of Russia, made a presentation about the development of the fire rescue service in the Sochi district and strengthening of safety of objects of the Winter Olympic Games 2014.

16. Following his previous presentation Dr. G.NIGMETOV acquainted the participants with a mobile diagnostic complex «STRING-MANTIS» which allows evaluating the seismic strength and solidity of buildings and constructions. The technology is based on the dynamic test of a system “ground-building” and it was positively estimated at the EU scientific seminar in the town of Ispra (Italy) in 2003. The “String-Mantis” technology was successfully utilized for evaluation of seismic strength of buildings in Iran, Italy, Germany, Greece, Russia and Turkey. In his presentation about the earthquake in the Italian city L’Aquila, Dr. G.NIGMETOV informed about results of work of the Russian team which investigated the seismic strength of buildings with the mentioned technology.

17. Dr. G.NIGMETOV stated that the All Russian Research Institute of Civil Defense and Emergencies is ready to create a system for the permanent monitoring and forecast of individual seismic risks for the Black Sea and Mediterranean Sea regions.

18. The participants discussed the issue of implementation of the Agreement among the Governments of the BSEC Participating States on Collaboration in Emergency Assistance and Emergency Response to Natural and Man-Made Disasters and the Additional Protocol to it for further collaboration of the BSEC Member States in the field of Emergency Assistance, and in particular, in case of seismic activity.

19. Referring to the decisions of the recent BSEC Ministerial Meeting (Baku, 18 September 2009) they underlined the importance of the soonest activation of the BSEC Network of Liaison Officers on Emergency Assistance.

20. The EMERCOM of Russia proposed to hold the next meeting of the Network and its training exercise on 1 March 2010 in Krasnaya Polyana. Invitations for this event will be sent via BSEC PERMIS.

21. The participants suggested that cooperation of seismologists of the BSEC region on the issues of seismic damage and risk is essential for better preparedness to emergency situations caused by seismic activities. In this regard, they proposed to bring to the agenda of the next meeting of the BSEC Working Group on Cooperation in Emergency Assistance the issue about establishment of the Ad hoc Working Group on Evaluation of Seismic Damage and Risk.

22. They also recommended to consider at the meeting of the Working Group the issue about preparedness of population to the seismic activities and practices used for that purpose.

23. The following training operations and rescue forces in mountains and at the sea were demonstrated by the Rescuers' Training Center "Krasnaya Polyana" :

In mountains:

- deployment of a mobile hospital
- deployment of a mobile complex for video conference and establishment of communication with EMERCOM of Russia in Moscow
- rescuing people with participation of trained dogs dispatched by helicopters;
- evacuation of injured from island by a cross-country vehicle;
- Activity of SAR Horsemen Team:
- dispatching SAR Team on a raft boat
- evacuation of injured to hospital by a helicopter MI-8;

At the sea:

- Delivery of a life-boat and a rescue team by helicopter to the place of accident.
- Rescuing people in the sea with life-boats
- Evacuation of injured people by a helicopter

24. The participants were demonstrated modern diving equipment and technologies for deep-water operations.

25. They shared the view that such seminars are important for exchanging experience on various types of emergency situations and they are a good basis for development of cooperation in this sphere.

26. The participants of the Seminar expressed their high appreciation to the Ministry of Civil Defence, Emergencies and Disaster Relief of the Russian Federation for the excellent organization of the Seminar and training exercise as well as warm hospitality extended to them.

27. The present Summary Proceedings of the Seminar was adopted for submission to the Meeting of the BSEC Committee of Senior Officials to be held in Baku on 20-21 October 2009.