

Institute of Earthquake Engineering and Engineering Seismology, University 'Cyril and Methodius', Skopje, Republic of Macedonia

K.V.Talaganov

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The Institute of Earthquake Engineering and Engineering Seismology from Skopje, Republic of Macedonia, is a scientific-research and educational institution and is a constitutive part of the University "Cyril and Methodius" in Skopje. Besides, the Institute has applicative activity as well for the needs of aseismic construction in seismic active regions.

For performing of its activities the Institute has highly educated and trained staff and corresponding contemporary research equipment in its laboratories. In the Institute have been employed over 60 scientific and professional staff members of which 15 are doctors of sciences, 20 masters of sciences and the remaining of university training level. The Institute has its own premise with total area of about 8500 sq.m. of which 2500 sq.m. are laboratories. The laboratories are equipped with modern equipment for laboratory and field dynamic tests and with instruments for strong motion recording. In the Institute exist a Dynamic Testing Laboratory, Strong Motion Laboratory, Geophysical Laboratory and Soils Dynamics Laboratory.

In the frame of its educational activities the Institute organizes on permanent basis, international postgraduate studies for the degrees of Master and Doctor of technical sciences, in cooperation with other institutions (UNESCO) or in the frame of international projects (EC - TEMPUS), as well as international specialist courses. In the past period of 25 years over 250 candidates attended the postgraduate studies. Also, over 200 candidates from different countries in the world attended the 12-week international course supported by the governments of the Netherlands and the Republic of Macedonia, organised over the period of 10 years now for candidates from the developing countries.

In the period of the past 25 years the Institute has developed activities in scientific and applied research, as follows:

- study of the effects of strong earthquakes occurred in the region of former Yugoslavia, the Balkans and in the wider region in the world, during that period;
- installation of a strong motion instruments network on the territory of former Yugoslavia, and analysis and processing of over 1000 accelerograms;
- participation in planning of immediate measures for mitigation of earthquake consequences of a number of strong earthquakes, and in planning and designing of repair and revitalization of structures and settlements and towns stricken by strong earthquakes;
- studies of the seismicity and the seismic hazard in former Yugoslavia, in the Balkan Region and in a number of countries all over the world;
- studies of the vulnerability based on the effects of occurred earthquakes and on the basis of theoretical research;
- analyses of the seismic stability of structures and participation in planning and designing of aseismic construction of structures, settlements, industrial complexes, towns;
- experimental investigations of the dynamic characteristics of structures and equipment, both on prototypes and on models;
- participation in elaboration of codes for aseismic design in former Yugoslavia and other countries.

As a result of its activities the Institute has available a great number of data which have been used for formulation of data banks for: strong motion, vulnerability, seismicity etc.

The institute regularly publishes the results from these investigations in its reports, the number of which reach the number of approximately 100 per year. In order to make these reports available to a greater number of institutions and scientists the Institute started to publish the issue ABSTRACTS, a yearly publication which contains the abstracts of all published works by the Institute staff members in the course of the previous year.