

Viktor Tatarinov

Education:

S. Ordzhonikidze Moscow Geological Prospecting Institute, Faculty of geophysics, specialty “Geophysical methods of prospecting and mineral exploration”, 1980.

Positions:

- RI “VNIPromtekhnologii”;
- Geophysical Center RAS.

Research:

- Development of methods for assessing and forecasting the geodynamic stability of the geological environment for selecting locations of NFC objects;
- Study of modern geodynamic crustal movements through the use of global navigation satellite systems.

Degrees:

- Ph.D. in engineering science, specialty “Physical processes of mining”, 1993;
- Doctor of engineering science, specialty “Geoecology”, 2007.

State awards:

- Medal “850th Anniversary of Moscow”, 1997;
- Medal “Veteran of Labour”, 2010.

Main scientific and practical results:

- Establishment of complex hazard forecasting systems in uranium mines (Russia, Kazakhstan, Uzbekistan, Ukraine) under the USSR Ministry of Atomic Energy geomechanical service, 1984–1993;
- Development of a system for monitoring the “Muruntau” gold mine (Uzbekistan), 1988–1990;
- Establishment of geodynamic polygons at the Kalinin, Novovoronezh and Volgodonsk NPPs, radioactive waste storages of SIA “Radon”, 1995–2009;
- Development of scientific and methodological foundations of modern observations of crustal movements using GPS-technology at NFC facilities, 1995–2008;
- Development of geodynamic models at the sites of Kalinin, Novovoronezh and Volgodonsk NPPs for justifying their geodynamic stability at the Research and Engineering Division of the Institute “ATOMENERGOPROEKT” (Moscow) and at the “ATOMENERGOPROEKT” Institute (Nizhny Novgorod), 1995–1998 гг.;
- Development of “Information technology for predicting stable geological environment for underground isolation of radioactive waste”, 2004–2008;

- Geodynamic zoning of the Elkon uranium field (Yakutia), 2009;
- Establishing a geodynamic polygon for observing the modern crustal movements in the Nizhnekansky massif as a part of the Federal Program – “Nuclear and Radiation Safety in 2008 and for the period up to 2015”, p. 35, “Preparation of project documentation for the construction of the final disposal of radioactive wastes” (Krasnoyarsk region), 2005–2014.

Research and management:

- Head of the monitoring group of uranium deposits of the USSR Minatom geomechanics service, 1988–1997;
- Manager of Project ISTC # 2764, 2005–2007;
- Scientific secretary of the expert committee of the RF Government (the order number 25 on 15.07.1996) for FTP Project “Underground nuclear power plants on the basis of shipbuilding technologies”, 1996;
- Member of the specialized Scientific Council K 002.08.04 at the O.Yu. Schmidt Institute of Physics of the Earth RAS, 1998–2005;
- Member of the Scientific Council of GC RAS, since 2007;
- RFBR expert, since 2008;
- RSF expert, since 2014;
- Head of Laboratory of Geodynamics of GC RAS, 2012–2015.

International scientific activity:

- Study of the project for mining the “Gurlan-Burlak” uranium deposit, Mongolia, 1987;
- Scientific cooperation in the framework of an agreement with the Federal Office for Geosciences and Natural Resources (BGR), Germany, 2006–2011;
- Participation in the international projects INTAS, INCO-Copernicus “TOXICAL” and “ENVRISK”, 2001–2003.

Tuition and lecturing:

- Professor of the basic chair “Mountain Ecology and GIS environmental safety” of the Moscow State Open University, 2007–2011;
- Head of the Scientific-educational centre (SEC) “Geodynamics and geoecology of the mineral resources: modelling, prediction and monitoring”, founded together with the Moscow State Mining University (MSMU), 2012.

Legislation:

As a part of the Federal Target Program “Nuclear and Radiation Safety of Russia” for 2000-2006 (subprogram ‘Development of Federal Regulations on Nuclear and Radiation Safety’) developed the following normative documents of Gosatomnadzor RF:

- NP-032-01 “Location of nuclear power plants. Main criteria and requirements for safety”;
- RB-019-01 “Evaluation of seismic hazard at the sites of nuclear and radiation hazardous objects on the basis of geodynamic data”;
- NP-050-03 “Nuclear fuel cycle facilities. Main criteria and requirements”.

Publications:

Author of 2 monographs, 5 textbooks, 6 copyright certificates for computer programs. 134 works have been published in national and international scientific journals.