

E.I. GALPERIN AND THE REVOLUTION IN SEISMIC PROSPECTING IN THE LAST QUARTER OF THE XX CENTURY

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Abstract. A brief scientific biography of Evsei Iosifovich Galperin is presented. E.I. Galperin is a participant of the Great Patriotic War, doctor of technical sciences, known in the world as the inventor and founder of a new extremely effective seismic prospecting method – vertical seismic profiling (VSP). The Gold medal of the Exhibition of Economic Achievements, State Prize on Science and Engineering, and the Badge of Honor Order were awarded to him for invention and implementation of VSP. In addition to VSP, E.I. Galperin developed a polarization method of seismic investigations based on vector analysis of seismic wave fields instead of scalar one. His developments caused revolution in the theory and practice of seismic prospecting. E.I. Galperin made great contributions into development of the deep seismic sounding method, especially in its sea modification, correlation method of earthquake studies. Development of boreholes seismic prospecting in our country is connected to E. I. Galperin; he was the first to start using boreholes observation for seismic monitoring in regions of large industrial centers.

Keywords: E.I. Galperin, vertical seismic profiling, deep seismic sounding method, seismic acoustic, borehole observations.