

# Dr. Ilya Tsvankin

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## Curriculum Vitae

### Education

Moscow State University, Ph.D. in Geophysics 1978–1982  
Moscow State University, B.S and M.S. in Exploration Geophysics 1973–1978

### Professional Experience

Colorado School of Mines, Golden, CO 1992 – present  
Professor, Department of Geophysics (Associate Professor until 1995)  
Director, Center for Wave Phenomena (Co-Leader of CWP until 2004)  
Amoco Production Company, Research Center, Tulsa, OK 1990 - 1992  
Consultant  
Institute of Physics of the Earth, Moscow, Soviet Union 1978 – 1989  
Deputy Head of Laboratory (Research Scientist until 1986).

### Professional Memberships

Society of Exploration Geophysicists, European Association of Exploration Geophysicists, American Geophysical Union, Denver Geophysical Society, Sigma Xi.

### Professional Activities

Society of Exploration Geophysicists (SEG): Member of the Translations Committee (chairman from 1999–2004) and Research Committee.

Instructor of the SEG Continuing Education Course “Seismic anisotropy: Basic theory and applications in exploration and reservoir characterization” (since 2002).

Member of the Editorial Board, *Journal of Seismic Exploration* (since 2005).

Editor of the book by A. Rüger “Reflection coefficients and azimuthal AVO analysis in anisotropic media” (SEG, 2001).

Editor of the English/Russian and Russian/English Dictionary of Exploration Geophysics, Mining Academy Publishers, Moscow, 1997 and 2001 editions, 477 p.

Editor of the special section of the journal *Geophysics* “Azimuthal dependence of P-wave seismic signatures” (July 1999).

Associate Editor for Translations of *Geophysics* (1999–2004).

Chaired numerous sessions at SEG Annual International Meetings (1993–2005). Organizer and chair of the post-convention workshop “Azimuthal dependence of P-wave seismic signatures” at the 67th SEG Annual Meeting, Dallas, 1997.

Member of the Organizing Committee, Technical Program Co-Chairman and Session Chair at several International Workshops on Seismic Anisotropy (1986–2004).

International Association of Seismology and Physics of the Earth’s Interior (IASPEI) of the International Union of Geology and Geophysics (IUGG): Member of the Committee on Wave Propagation (1992–96).

CSM committees: Board of Student Publications (1994–96), Curriculum Reform Committee (1996–97), Tutorial Committee of the McBride Honors Program (1998–2000), Faculty Affairs Committee (1999–2001), Graduate Council (2000–2004), Academic Standards Committee (2002–2004), Graduate Advisory Committee of the Geophysics Department (since 1998; chairman from 2000–2004).

Gave numerous invited talks and lectures at universities, companies and meetings of professional societies.

Principal investigator on research projects supported by the Department of Energy, Army Research Office, oil and service companies.

### **Scientific Research**

Author of two books and about 80 scientific papers devoted to seismic wave propagation and methods of seismic exploration (see the list of publications). Research interests have focused on modeling, processing and inversion of seismic wavefields in anisotropic media, borehole seismics, nonlinear phenomena in seismic wave propagation, and development of seismological methods based on surface and nongeometrical waves. Received patents for new methods of seismic exploration in the U.S. and former Soviet Union. Director of the Center for Wave Phenomena, a research consortium supported by 23 oil and service companies and several government agencies.

### **Major Awards**

Virgil Kauffman Gold Medal Award of the Society of Exploration Geophysicists (1996).

Shell Faculty Fellow, Recipient of Shell Faculty Career Initiation Grant (1996–99).

Gold Medal in Geophysics for Outstanding Young Scientists of the Soviet Academy of Sciences (1988).

Honorable Mention for Best Paper in *Geophysics* Award of the SEG (1999, 2002).