

Anatoliy N. Ivakin

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Born 16 May 1955 in Tashkent, USSR. Graduated from Moscow Institute of Physics and Technology (MIPT) in 1978, with the M.S. degree in physics, specializing in thermo-hydronechanics and ocean physics. In 1978-1981 he was a MIPT post-graduate student. He defended a Ph.D. thesis "Sound Scattering and Reflection from Heterogeneous Ocean Sediments" in physics and mathematics (acoustics) at the Andreev Acoustics Institute, Moscow, in 1982. Professional activity: In 1981-1986, Dr. Ivakin had been a Scientist and then, in 1986-2001, a Senior Scientist at the Andreev Acoustics Institute. In 1995-2001 he also was a Visiting Scientist at the Applied Physics Laboratory, University of Washington (APL-UW), Seattle, USA. In 2001 he joined APL-UW as a Senior Physicist.

He also had other visiting appointments:

- Senior Scientist associated at CNRS/LMA, Marseille, France (Directeur de Recherche, Centre National de la Recherche Scientifique, Laboratoire de Mecanique et d'Acoustique, October 2007 – March 2008, December 2004 – May 2005, and July – September 2000).
- Adjunct Scientist, Department of Applied Ocean Physics & Engineering, Woods Hole Oceanographic Institution (2000-2003).
- Invited Fellow at Tokai University, Japan, awarded Invitation Fellowship for Research from Japan Society for the Promotion of Science (December 2000 – February 2001).

He received several national and international awards and recognitions, including:

- Award (Grant) of Naval International Cooperative Opportunities in Science and Technology Program (NICOP), from ONR Europe (1998).
- International Science Foundation (ISF) awards: for excellence in scientific publications (1993), and international travel (1992 and 1994).
- Scholar rank/title of Senior Scientist from Presidium of the USSR Academy of Sciences, in 1987.
- All-Union Young Scientist Award (Lenin Komsomol Prize in Science and Technology) in 1986.

He has been a member of several national and international societies and committees, including: Acoustical Society of America (ASA), ASA Technical Committees on Underwater Acoustics and Acoustical Oceanography, International Congress on Acoustics (ICA'98) Scientific Advisory Committee, Russian Acoustical Society, European Acoustics Association.

In 2001, Dr. Ivakin was elected a Fellow of the Acoustical Society of America.

His research interests include wave propagation and scattering in continuous and discrete media with rough interfaces and volume heterogeneity, remote acoustic sensing and characterization, underwater acoustic propagation and reverberation, geophysics and acoustics of elastic sea-bed and sea-ice, sediment acoustics, theoretical and numerical modeling of random processes and fields, Monte-Carlo methods, inversion techniques.

Total number of his publications is more than 100, including articles in major peer-reviewed journals in the field, such as The Journal of the Acoustical Society of America (JASA), IEEE Journal of Oceanic Engineering, Marine Geology, Acoustical Physics, Soviet Physics-Acoustics, Oceanology, and others (see <http://www.apl.washington.edu/people/profile.php?last=Ivakin&first=Anatoliy>).

Among them: Sound scattering from the ocean bottom: recent theoretical and experimental results, Ocean Acoustics, Proc. 13th L.M. Brekhovskikh's conference, Moscow: GEOS, 2011 (in Russian); High frequency broad band scattering from water-saturated granular sediments: Scaling effects, JASA, 122(5), 2007; A unified approach to volume and roughness scattering, JASA, 103(2), 1998.