THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

Thematic Program on the Mathematics of Oceans

VLADIMIR ZAKHAROV
UNIVERSITY OF ARIZONA

Distinguished Lecture Series

Wind-driven Sea as a Subject for Theoretical Physics

May 7–9, 2013 · 3:30 p.m.
FIELDS INSTITUTE, 222 COLLEGE STREET

Topics will include:

- The Euler equations for the potential flow of an incompressible fluid with free surface as a Hamiltonian system
- The Hasselmann kinetic equation and its solutions
- The nature of the Phillips spectrum

ABOUT VLADIMIR ZAKHAROV

Vladimir Zakharov's research interests cover physical aspects of nonlinear wave theory in plasmas, hydrodynamics, oceanology, geophysics, solid state physics, optics, and general relativity. He is the former Director of the Landau Institute for Theoretical Physics in Chernogolovka and was elected as a full member of the Academy of Sciences of the Soviet Union in 1991. In 1992, Zakharov became a professor of mathematics at the University of Arizona, and in 2004 he became the director of the Mathematical Physics Sector at the Lebedev Physical Institute. He was awarded the Dirac Medal in 2003 for his contributions to the theory of turbulence.

For more information: www.fields.utoronto.ca

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