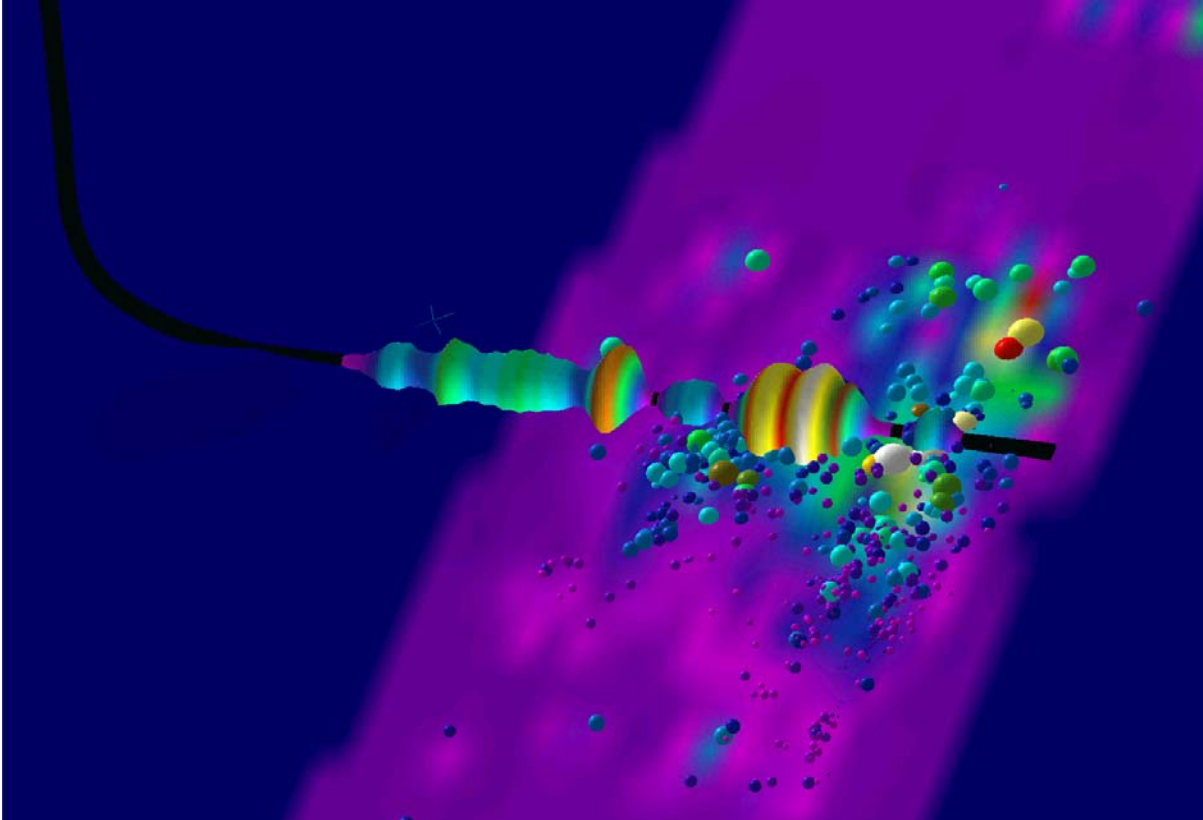


*Free Public Lecture*

# **Exploration Geophysics: Quantitative Interpretation, New Challenges and Economic Value.**



**Lee Hunt, P. Geoph., Distinguished Lecturer of the Canadian Society of Exploration Geophysicists**

The oil and gas industry is undergoing enormous changes, largely driven by the pursuit of so called "resource" plays. These changes affect all of us on an economic and environmental level, in some ways that are obvious and in other ways that are barely noticed but are nevertheless profound. Although resource plays were originally made possible by advances in engineering completions technology, geoscientists are hard at work delving into some of the risks that are particular to the exploitation of these kind of reservoirs. This talk is largely concerned with the uses of seismic to reduce risk, and emphasizes careful, objective, and honest measurements of outcomes: something called quantitative interpretation. This lecture will explain what quantitative methods are used in interpreting surface seismic data, and outline their history, value and weaknesses. The importance of these methods for describing oil reserves and the structure of the earth will also be discussed. Finally the talk will delve into the value of good seismic research in designing oil and gas wells that avoid geological hazards but increase production, efficiency, and economic value. The examples shown in this talk will illuminate a perspective on applied science that balances daunting uncertainty against spirited collaboration.

*Lee Hunt is an exploration geophysicist who consults for Fairborne Energy. He is this year's speaker for the Canadian Society of Exploration Geophysicists Distinguished Lecture tour. Mr. Hunt has worked in Saskatchewan, Manitoba, and British Columbia, exploring for heavy oil, shallow gas, and deep carbonates. Much of Lee's research has involved collaborations between industry and university researchers, work that has resulted in numerous technical publications and lectures.*

**Wednesday, January 18, 2012**

**7:00 - 8:00 p.m.**

Vancouver Island University, Building 356, Room 109

*Sponsors: Mid-Island Science, Technology & Innovations Council (MISTIC), Natural Sciences & Engineering Research Council (NSERC), VIUFA Professional Development Fund, Faculty of Science and Technology*

