EGI Energy & Geoscience Institute
AT THE UNIVERSITY OF UTAH

Since 1972

R. William (Bill) Keach, MSc

Affiliate Scientist

Bill is a professional geophysicist who has worked with geoscientists and interpreters from national and international oil companies around the world. His main areas of focus are 3D visualization, volume interpretation techniques, and effective use of seismic attributes in understanding depositional environments and structural controls. He earned an MS in Geophysics from Cornell University (1986) and a BS in Geology from Brigham Young University (1984).

Prior to joining EGI, he worked six years with Standard Oil Production Co. and British Petroleum on exploration play development in California and the Deep Water Gulf of Mexico. He was with Landmark Graphics – Halliburton from 1992-2009 in a variety of technical and leadership roles. He has been an Adjunct Professor of Geology at Brigham Young University (BYU) since 2001 and Visiting Associate Professor of Geology in 2006. He currently teaches two courses: Introduction to Seismic Interpretation, a senior-level course, and 3D Subsurface and Evaluation (Geomodeling) at the graduate level. Bill has also developed and led 20 EGI Field Courses, reaching over 200 professional geoscientists from around the world.

Bill reads, writes, and speaks Spanish fluently, and has taught many technical courses and given numerous technical speeches in Spanish throughout Latin America. His Regional and Basin Experience includes New Mexico, Texas, Campos Basin, US Rocky Mountains, North Sea, Gulf of Mexico - on and off shore, and Brazil. He is a member of the Society of Exploration Geophysicists (SEG) (past Chair, SEG Interpretation Committee), American Association of Petroleum Geologists (AAPG), and Rocky Mountain Association of Geologists (RMAG) where he is a member of the 3D Symposium Committee.

Select publications include:

Keach II, R.W., McBride, J.H., and Pykles, B.C., June 2010, "Petroleum industry techniques yield new insights into 3D GPR data." Proceedings of Ground Penetrating (GPR), 2010 13th International Conference

Keach II, R.W., Birgenheier, L., Hokanson, W., and Baster, D., October 2009, "Integrated Interpretation of the Dakota and Cedar Mountain Channel Complexes Play Using 3D Seismic Attribute Analysis and Well Logs, Uinta Basin, Utah". A USTAR (Utah Science Technology and Research) funded project, #53000492, with cooperation between industry, government and academia. EGI Technical Report #I00964.

Keach II, R.W., Morris, T.H., McBride, J.H., Mullen, M. Leetaru, H.E., O'Neal, R., December 2006 "Interpretation of the Jurassic Entrada Sandstone play using 3D seismic attribute analysis, Uinta Basin, Utah. Utah Geological Survey, Open File Report 493.

McBride, J. H., Leetaru, H. E., **Keach II, R. W.**, and Nelson, W. J., 2008, Subtle fault detection and mapping for carbon sequestration assessment in the Illinois Basin, in Carbon Dioxide Sequestration in Geological Media - State of the Art, AAPG Special Publication, edited by M. Grobe, J. Pashin, and R. Dodge, in press.

Research Interests

- 3D visualization
- Volume interpretation techniques
- Seismic attributes

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