

Lessons for the Geosciences: A View from the Past into the Future

A century of advancement in Petroleum and Hydrologic Geosciences will be woven into examples and discussion of future opportunities for the evolution and integration skillsets needed for Geoscience Careers. As the energy transition takes hold, the freshwater endowment is increasingly tasked.

Introduction and Objectives: Lawrence Walker, ExxonMobil - emeritus

PAST: “Reflection Seismology: Born in Oklahoma”

The first successful reflection seismic section gathered in the Arbuckle Mountains near Ardmore, OK in 1921; Professor James Knapp, Oklahoma State University, Boone Pickens School of Geology

PAST TO PRESENT:

“Reality Check: Life Cycle of Geophysical Data Utilized in the Exploration and Development of Deepwater Stratigraphic Traps”

Life Cycle of Geophysical Data Utilized in the Exploration and Development of Deepwater Stratigraphic Traps with several examples including Guyana (Liza), Angola (Girassol), Ghana (Jubilee) and Namibia (Graff & Venus) by Joseph Reilly, ExxonMobil Chief Geophysical Scientist - emeritus.

“The Story of Vega 13, the Most Important Seismic Line Ever Acquired?”

Opportunity Generation at the Frontier / Regional business stage with the 2D VEGA 13 line. VEGA 13 is the key line that contributed significantly to the Guyana Stabroek block lease. Discussion and observations will be lead by the original interpreter and GSA Fellow N.R. (Bob) Stewart, ExxonMobil Recruitment - emeritus.

FUTURE:

“Building A Pipeline to Geoscience Careers and Supporting Our Workforce”

A discussion of the educational pipeline being constructed by Oklahoma State University in partnership with the National Groundwater Association; Professor Todd Halihan, Oklahoma State University, Boone Pickens School of Geology

DATA AND DISCUSSION: Lawrence Walker, ExxonMobil - emeritus