

**Monday, January 13, 2020**

Live Oak Room • Norris Conference Center • 816 Town and Country Blvd #210  
 Social Hour 5:30–6:30 p.m.  
 Dinner 6:30–7:30 p.m.

**Cost: \$40 Preregistered members; \$45 non-members/walk-ups****To guarantee a seat, pre-register on the HGS website & pre-pay by credit card.****Pre-registration without payment will not be accepted.****Walk-ups may pay at the door if extra seats are available.**

*If you are an Active or Associate Member who is unemployed and would like to attend this meeting, please call the HGS office for a discounted registration cost. We are also seeking members to volunteer at the registration desk for this and other events.*

**Dr. Jory A. Pacht**  
 Altair Resources

## Energy 101

Perhaps the most important thing to understand about energy is just how much of it we use. Every man, woman and child in the world uses 20 million watt-hours of energy per year. In developed countries, the number is far higher. The reason energy use is so high is that energy is in everything we do. For example, food for a family of four takes the energy equivalent of 22 gallons of gas to grow, ship, process and sell. If energy is in everything we do, then the cost of energy is in everything we do and worldwide, most decisions on energy sources are made based on cost. This is particularly true for undeveloped and developing countries, whose per capita GDP is far below the U.S. However, it is also true for industrial powerhouses like China, that have prioritized economic growth.

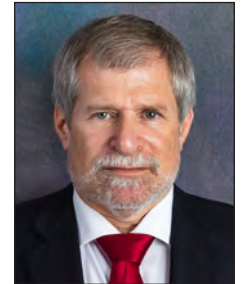
So, as we hear various pundits and politicians are calling for a carbon-free world in 30, 20 and now 15 years, we have to ask if this is realistic? Can we accomplish this without devastating our economies? And if the U.S. takes this step, will the rest of the world, including economic competitors like China, follow suit? Currently ~86% of all energy in the world is produced using fossil fuels. Solar and wind comprise only 4%. Are the world's citizens ready to accept the increased economic and land use costs that come with a switch to renewable sources of energy? In countries that are desperately poor, is it moral to insist that they forgo the benefits of cheap energy that we enjoy?

Anthropogenic global warming is an inconvenient truth. But so are the huge benefits that every country in the world has enjoyed and is enjoying as a function of cheap fossil fuel energy. Managing global CO<sub>2</sub> will therefore require rational market-based solutions that may be different for different countries. Political invective on both sides is counter-productive and only creates division. ■

### Biographical Sketch

**DR. JORY A. PACTH** began his career at ARCO in the exploration research department in 1980, where his work focused largely on using seismic and wireline data to delineate depositional sequences and facies. One of his projects resulted in the development of a new program to analyze closely spaced well-log data – a predecessor to today's 3D reservoir analysis programs. ARCO recognized his

contribution in its 1987 Annual Report and his team was credited with adding \$350 million of reserves from the Long Beach Unit – Wilmington Field. His work continued at RPI International as a Senior Scientist working on sequence stratigraphic and structural projects and at TGS-Calibre as the principal geoscientist on large regional offshore



studies in the Gulf of Mexico and offshore Africa. In 1992, Dr. Pacht founded Seis-Strat Services, Inc., a full service geological and geophysical company which employed up to 35 geoscientists in seven countries on a full-time and contract basis. He sold Seis-Strat Services in 2007 to a staffing company. In 2003, Dr. Pacht started EnergyQuest, an oil and gas production company with two other partners. They became EnergyQuest Resources in 2004 and they purchased and developed oil and gas fields in Oklahoma, Kansas, Louisiana and Texas. In particular they developed a large CBM position in the Cherokee Basin in Oklahoma and Kansas. In 2007 EnergyQuest sold their conventional assets to Layline Production and their unconventional assets to Constellation Energy Partners Shortly thereafter, Dr. Pacht and his partners started EnergyQuest II, which owned and operated multiple oil and gas fields in Louisiana and Texas. EnergyQuest II was producing approximately 5500 BOEPD when Dr Pacht and his partners sold the producing assets to TPIC in 2010. Dr. Pacht started Altair Resources LLC shortly thereafter and served as President. In 2013 he has assembled a team and secured Private Equity Funding from Ridgemoor Equity Partners to form Pintail Oil and Gas Company where he served as CEO. Pacht and his team completed four acquisitions and operated eight fields producing 1850 BOEPD. Dr. Pacht left Pintail in late 2016 and after doing conventional exploration in the Gulf Coast has assembled a team to conduct unconventional exploitation of conventional Gulf Coast reservoirs.

Dr. Pacht has won five best paper awards for his work on sequence stratigraphy and has published over 80 papers and abstracts. He serves on the Alumni Advisory Board of the School of Earth Sciences at Ohio State, where he received his PhD.