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KENNETH C. ABDULAH, P.H.D.
PRINCIPAL GEOSCIENTIST AND CO-OWNER

PROFESSIONAL PROFILE

My main area of expertise is the integrated, stratigraphic interpretation of 2-D and 3-D seismic and geologic subsurface data, at both the regional and prospect scales.

Project areas worked to date include: Venezuela, Trinidad and the southeastern Caribbean, Barbados, Brazil, the Atlantic Margin of the UK, offshore Sabah Malaysia, offshore Taiwan, the southern Tunisian sector of the Ghadames Basin, North Africa, the deep-water Gulf of Mexico, the Mississippi Salt Basin, the US Gulf Coast, the US onshore unconventional Eagle Ford, and the Delaware Mountain Group.

I have also been active in company-wide prospect reviews, peer assists, risk analyses, data rooms, competitive bid rounds, technology transfer, in-house training and early-career mentoring.

My foundation in the geosciences is based on a B.Sc. in geology and applied physics (1978), from the University of the West Indies, followed by 11 years in development geology, land and marine seismic data acquisition, and seismic data interpretation onshore and offshore Trinidad. These work assignments were followed by Ph.D. studies and research in geology and geophysics (1995) at Rice University, in Houston. Since then, I have continued to build on this background while working on a wide spectrum of US and international petroleum exploration and development projects. Technology transfer and mentoring remain an integral part of my work.

PROFESSIONAL HISTORY

<u>Subsurface Clarity, LLC, Houston, Texas</u> Principal Geoscientist <i>Permian Basin Exploration/Production (2017 - Present)</i>	Feb 2017 - Present
<u>BHP Billiton Petroleum, Houston, Texas</u> Geological Advisor <i>Caribbean Regional Exploration (2015-Jan 2017)</i> <i>Petroleum Geoscience Technology (2014)</i> <i>Western Growth Region - Brazil (2011/13)</i> <i>Petroleum Geoscience Technology (2009/10)</i>	2009 – Jan 2017
<u>Pioneer Natural Resources UK Ltd., Woking, UK</u> Technical Specialist – Geology <i>Exploration Ghadames Basin, Tunisia (2006/09)</i>	2006 – 2009
<u>Pioneer Natural Resources, Irving, Texas</u>	2003 – 2006

Technical Specialist – Geology

Exploration Ghadames Basin, Tunisia (2006)

Deepwater Gulf of Mexico (2005/06)

Senior Staff Geologist

Deepwater Gulf of Mexico (2003/04)

ConocoPhillips, Houston, Texas

2002 – 2003

Staff Stratigrapher

Deepwater Geosciences, Upstream Technology (2002/03)

Conoco Inc., Houston, Texas

1995 – 2002

Senior Geophysical Advisor

GOM Deepwater Prospect Generation Team (2002)

Staff Geophysicist/Geophysical Advisor

EP Technology Predictive Stratigraphy Global Project Support (1995/2001)

Rice University, Houston, Texas

1989 – 1995

Ph.D. Graduate Studies

Integrated stratigraphic studies based on high-resolution seismic data, core data, biostratigraphic data, oxygen isotope data, and gamma-ray logs.

Trintoc Ltd., Pointe-a-Pierre, Trinidad

1978 – 1989

Geophysicist II/III

Land and marine seismic data acquisition and interpretation (1980/89)

Geologist I

Field development, operations/well-site geology (1978/80)

EDUCATION

Rice University, Houston, Texas

1989 – 1995

Ph.D. Geology and Geophysics (1995)

- The Torkild Rieber Award in Geology 1995
- Eleanor and Mills Bennett Fellowships: 1991, 1992, and 1993
- HGS Poster Award 1993
- HGS Student Award 1991

University of the West Indies, Kingston, Jamaica

1975 – 1978

B.Sc. Geology and Applied Physics (1978)

- 1977/78 Student Geology Association, President

PROFESSIONAL MEMBERSHIPS/ACTIVITIES

- American Association of Petroleum Geologists (AAPG); Society for Sedimentary Geology (SEPM); Gulf Coast Section of the SEPM (GCSSEPM); Society of Exploration Geophysicists (SEG); Houston Geological Society (HGS).
- Committee Member for IRESS 2014, 2015, 2016 and 2017, Rice Univ., Houston.
- SEPM Technical Program Judge AAPG/SEPM Meeting, April 2004, Dallas, Texas.
- Member of the SEPM Technical Program Committee for the AAPG/SEPM

- Annual Meeting, March 2002, Houston, Texas.
- Texas Board of Professional Geoscientists, #2135

SELECT PUBLICATIONS

CHAMBERS, T.M., ABDULAH, K.C., AND ROBSON, 2009 J., Spatial Variations in Hydrocarbon Generation and Expulsion, Southern Tunisia, extended abstract, EAGE 4th North African/Mediterranean Petroleum and Geosciences Conference and Exhibition, Tunis (March 2-4, 2009).

ABDULAH, K., AXTMANN, T., CAAMANO, E., REHFELD-KIEFER, U., MCCABE, R., AND MILES, N., 2008, Stratigraphic Architecture of the Acacus Formation within the Cherouq Concession, Southern Tunisia, extended abstract, Proceedings of the 11th Tunisian Petroleum Exploration and Production Conference, October 13th-18th, 2008, Tunis.

ABDULAH, K., DOUD, K., COOK, M., KELLER, D., BENGSTEN, M., JENSEN, T., AND ALWIN, B., 2004, Reservoir Facies within the Deepwater Sandstones of the Falcon Field – Western Gulf of Mexico, extended abstract, AAPG/SEPM Annual Meeting, Dallas.

ABDULAH, K. C., ANDERSON, J. B., SNOW, J. N., AND HOLDFORD-JACK, L., 2004, The Late Quaternary Brazos and Colorado Deltas, offshore Texas - their evolution and the factors that controlled their deposition: *in* Anderson, J. B., and Fillon, R. H., eds., Late Quaternary stratigraphic evolution of the northern Gulf of Mexico Basin, SEPM Special Publication No.79, p.237-269.

ANDERSON, J. B., RODRIGUEZ, A. B., ABDULAH, K. C., FILLON, R. H., BANFIELD, L. A., MCKEOWN, H. A., AND WELLNER, J. S., 2004, Late Quaternary stratigraphic evolution of the Northern Gulf of Mexico Margin: A Synthesis: *in* Anderson, J. B., and Fillon, R. H., eds., Late Quaternary stratigraphic evolution of the northern Gulf of Mexico Basin, SEPM Special Publication No.79, p.1-23.

ABDULAH, K. C., ANDERSON, J. B., COPERUDE, S., CANNING, A., 1997, Temporal and Spatial Sampling Constraints in High Resolution 3-D Seismic Surveys, Marine Geophysical Researches v.19, p.97-113.

SUTER, J. R., ABDULAH, K. C., TRAVIS, P. D., GLAGOLA, P. A., YOUNG, J. W., WATSO, D. C., AND FINLEY, W. E., 1996, An integrated seismic and well-log sequence stratigraphic study over 32 Grand Isle/West Delta OCS Blocks, GCSSEPM Foundation 17th Annual Research Conference, p.305-313.

ANDERSON, J. B., ABDULAH, K. C., SARZALEJO, S., SIRINGAN, F., AND THOMAS, M. A., 1996, Late Quaternary sedimentation and high-resolution sequence stratigraphy of the east Texas shelf, *in*: deBatist, M., Jacobs, P., eds., Geology of Siliciclastic Seas, Geological Society Special Publication No.117, p.95-124.

ABDULAH, K. C., AND ANDERSON, J. B., 1994, Contrasting styles of deltaic deposition and the role of eustasy – examples from the Quaternary deltas of the Texas continental shelf, *in*: Applications of sequence stratigraphy to oil field development, AAPG Hedberg Conference, Paris, p.1-11.