

KEVIN T BIDDLE

Geologist/Executive/Professor

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Dr. Biddle is a geoscientist/businessman with over 40 years of experience in the energy industry. He spent the bulk of his career with ExxonMobil in positions of increasing responsibility, retiring in London in 2014 as Exploration Director of ExxonMobil International, Ltd. Groups that he led were responsible for finding billions of oil-equivalent barrels of oil and gas in West Africa and other areas. For the last several years he has taught at the undergraduate/graduate level at a Tier-1 university in Houston. He is a Fellow of the Geological Society of America and a member of the American Association of Petroleum Geologists. Outside interests include travel, hiking, fly fishing, and reading. He is married to Katherine Balshaw-Biddle (artist). They have one son, Nicholas (software developer). Dr. Biddle resides in Bellaire, Texas, and Taos, New Mexico.

Skills

Leadership

Management

Supervision

Government and
Partner
Relationships

Basin Analysis and
Structural Geology

EDUCATION

University of California at Santa Cruz, 1969 – 1973

Crown College

Bachelor of Science in Earth Sciences

Awarded Departmental Honors in Earth Sciences

Rice University, Houston, Texas, 1974 - 1979

Master of Arts in Geology, 1976

Ph.D. in Geology, 1979

Doherty Fellow

WORK EXPERIENCE

Adjunct Professor, Rice University, Department of Earth, Environment, and Planetary Sciences

2014 - 2023

Teaching classes in concepts and techniques for managing risk and uncertainty in geoscience predictions and basic petroleum geoscience. Working with and advising students interested in industry careers.

Faculty Scholar, Center for Energy Studies, Baker Institute for Public Policy, Rice University, 2020

One-year appointment. Research on energy minerals.

Exploration Director, ExxonMobil International Ltd.

2011 – 2014

Responsible for exploration programs in Europe, Russia, and the Caspian region. Member of the UK leadership council. Located in London with a staff of 105 and a budget of \$560 M.

Vice President, New Opportunities, ExxonMobil Exploration Company

2010 – 2011

Responsible for identification and development of new exploration opportunities worldwide. Member Compensation and Executive Development Committee. Staff of 280 and a budget of \$250 M.

Director and Vice President, ExxonMobil Development Company

2008 - 2010

Responsible for subsurface geoscience in field development projects worldwide. Vice Chairman – Reserves Committee. Staff of 180 and a budget of \$50 M.

Vice President, Sub-Saharan Africa, ExxonMobil Exploration Company

2004 – 2008

Responsible for the design, management, and execution of the company's exploration program in Africa. Staff of 120 and a budget of over \$500 M.

Vice President, Asia/Pacific Region, ExxonMobil Exploration Company

2003 – 2004

Responsible for the design, management, and execution of the company's exploration program in the Asia/Pacific region. Staff of 60 and a budget of \$80 M.

Vice President, South America, ExxonMobil Exploration Company

2002 – 2003

Responsible for the company's exploration program in South America. Staff of 40 and a budget of \$120 M.

Upstream Exploration Advisor, ExxonMobil Corporation

2000 – 2002

Advisor to the Upstream Director and Corporate Senior Vice President at ExxonMobil corporate headquarters in Irving, TX. Key interface between corporate management and upstream operating companies. Duties as assigned.

Research Geologist to Ventures/Operations Manager

1978 – 2000

Various positions of increasing responsibility with Exxon in research, exploration, supervision, and management, worldwide.

Physical Science Technician, United States Geological Survey

1973 - 1974

ACTIVITIES AND HONORS

Member – Board of Earth Sciences Advisory Committee, University of California at Santa Cruz, 2016 - 2022

Member – Dean's Advisory Board, Keith Wiess School of Natural Sciences, Rice University, 2016 – 2022

Certified Texas Master Naturalist, Coastal Prairie Chapter, 2021

Member – Dean's Advisory Board, School of Natural Sciences and Mathematics, University of Houston, 2006 – 2011

Member - National Research Council Committee on the Preservation of Geoscience Data and Collections, 2000 – 2002

Member - Development Committee, Geological Society of America Foundation, 1999 - 2001

1998 **Distinguished Service Award** from The American Association of Petroleum Geologists

Elected Fellow, Geological Society of America, 1996

Member - Geological Society of America Publications Committee, 1996 – 1999

Co-Chairman - International Symposium on Oil/Gas Reservoir Geology and Development Engineering, Chengdu, China, August 1995

Member – US National Research Council, National Academy of Sciences Panel Geodynamics of Sedimentary Basins, 1995

Member - US National Research Council Geodynamics Committee, 1994 - 1996

1994 **Wallace Pratt Award** - from the American Association of Petroleum Geologists for the best paper in the 1992 AAPG Bulletin

Elected editor of AAPG Bulletin, 1993 - 1995, 1995 - 1997 (also member of AAPG Executive Committee, 1993-1997)

1993 **Robert H. Dott Sr. Memorial Award** from The American Association of Petroleum Geologists for the best Special Publication in 1991

Member - Advisory Board, Petroleum Research Fund, 1992-1995

Member – Journal Editorial Board, *Geology* (1983 -1991), *Basin Research* (1991 – 1997), *Marine and Petroleum Geology* (1992 – 1993)

Representative-at-large, Joint Technical Program Committee, Geological Society of America, 1991-1993

Editor, American Association of Petroleum Geologists Active-Margin Basins volume, Petroleum Basins series, AAPG Memoir 52, 1991

Guest editor (with Dr. W. Schlager), The record of sea-level fluctuation, special issue of *Sedimentary Geology*, 1991

AAPG distinguished lecturer, 1990, "Basin evolution along an active transform margin - the Los Angeles Basin"

Co-convener (with W. Schlager), symposium on the record of sea-level fluctuations, 28th International Geological Congress, Washington D.C., July 1989

Member, AAPG program subcommittee, 1988 - 1990 Offshore Technology Conference, co-chairman 1989, 1990

Certified petroleum geologist #3446 - AAPG Division of Professional Affairs (inactive)

Associate editor, American Association of Petroleum Geologists Bulletin, 1986 -1994

Member, US National Science Foundation ad-hoc review group of Deep Observation and Sampling of the Earth's Crust, Inc. (DOSECC, Inc.), 1985

Alumnus of the year, 1985, Board of Earth Sciences, University of California at Santa Cruz

Editor (with Dr. N. Christie-Blick), SEPM Special Publication 37 - Strike-slip deformation, basin formation, and sedimentation, 1985

Convener, 1984 SEPM Research Symposium on strike-slip deformation, basin formation, and sedimentation

Member, Research Committee, Society of Economic Paleontologists and Mineralogists, 1983-1985

Houston Geological Society **Outstanding Student Award**, 1978

Awarded departmental honors in Earth Sciences, University of California at Santa Cruz, 1973

Selected Publications (full list on request)

Campbell, M. D. and **Biddle, K. T.**, 1977, Frontier uranium exploration in the South-Central U.S., Chapter 1: Frontier Areas and Exploration Techniques, in [Geology of Alternate Energy Resources](#): Houston Geological Society, pp. 3-44. ([here](#)).

Biddle, K. T., 1984, Triassic sea level and the Ladinian-Carnian Stage boundary: *Nature*, v. 308, n. 5960, p.631-633.

Christie-Blick, N., and **Biddle, K. T.**, 1985, Deformation and basin formation along strike-slip faults, in Biddle, K. T. and Christie-Blick, N. (eds.), *Strike-slip deformation, basin formation, and sedimentation*: Society of Economic Paleontologists and Mineralogists Special Publication 37, p. 1-34.

Uliana, M. A., **Biddle, K. T.**, Cerdan, J., 1989, Mesozoic extension and the formation of Argentine sedimentary basins, in Tankard, A. J., and Balkwill, H. R. (eds.), *Extensional tectonics and stratigraphy of the North Atlantic margins*: American Association of Petroleum Geologists Memoir 46, p. 599-614.

Biddle, K. T., Schlager, W., Rudolph, K. W., and Bush, T. L., 1991, Seismic model of a progradational carbonate platform, Picco di Vallandro, Dolomite Alps, northern Italy: *American Association of Petroleum Geologists Bulletin*, v. 76, p. 14-30.

Chen, C., Lee, C-T. A., Tang, M., **Biddle, K.**, and Sun, W., 2020, Lithium systematics in global arc magmas and implications for exploration: *Nature Communications*, <https://doi.org/10.1038/s41467-020-19106-z>, 8 p.

Campbell, M. D., **Biddle, K. T.**, Wielchowsky, C. C., Gregory, R. T., Lee, R. E., Conca, J. L., and M. David Campbell, 2021, A new meteor crater, old uranium, thorium & REE mineralization, and a new roll-front uranium district ...All in Eastern Seward Peninsula, Alaska?, Extended Abstract ([here](#)) for AAPG MAGE 2021 Virtual Conference, September 28, 2021 – 3:40 PM Track 9, and PDF of Presentation ([here](#)).

Rudolph, K., Paez, R., and **Biddle, K.**, in prep, Incorporating geoscience uncertainty into economic evaluations: concepts and examples