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## PROFESSIONAL EXPERIENCE

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- Vice President, TDI-Brooks International, Inc., 1998 - Present
- General Manager (managing partner) of B&B Laboratories, providing analytical services to the environmental and geochemical markets, June 1996 - Present
- Consulting Scientist under contracts for instrument design and testing, January 1996 - Present
- Deputy Director, Geochemical & Environmental Research Group, Texas A&M University, May 1993 - October 1995
- Research Scientist, Geochemical & Environmental Research Group, Texas A&M University, May 1993 - January 1996
- Contract Design Consultant, O.I. Corporation, April 1993 - June 1995
- Vice President, Director of Technology, O.I. Corporation, January 1986 - April 1993
- Vice President, Chief Chemist, O.I. Corporation, August 1980 - December 1985
- Assistant Professor, Geochemistry, University of Oklahoma, August 1978 - July 1980
- Chemist and Consultant, O.I. Corporation, September 1977 - July 1978
- Research Associate, Texas A&M University, Chemical Oceanography, September 1977 - May 1978
- Research Assistant, Texas A&M University, Chemical Oceanography, September 1975 - August 1976
- Research Technician, Abilene Christian University, Chemistry, September 1970 - August 1974

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## KEY ACHIEVEMENTS - PATENTS DEVELOPED

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- Total Organic Carbon Analyzer, Date of Issue: October 28, 1986, Patent Number: 4,619,902
- Water Management Device for Gas Chromatography Sample Concentration, Date of Issue: October 5, 1993, Patent Number: 5,250,093
- Sample Concentration Filter, Date of Issue: November 16, 1993, Patent Number: 5,261,937
- Water Management Device for Gas Chromatography Sample Concentration, Date of Issue: October 25, 1994, Patent Number: 5,358,557
- Management Device for Gas Chromatography Sample Concentration, Date of Issue: November 28, 1995, Patent Number: 5,470,380
- Method and Apparatus for Linearization of Non-Dispersive infrared Detector Response, Date of Issue: June 18, 1996, Patent Number: 5,528,039
- Water Management Device for Gas Chromatography Sample Concentration, Date of Issue: December 10, 1996, Patent Number: 5,582,633
- Water Management Device for Gas Chromatography Sample Concentration, Date of Issue: September 29, 1998, Patent Number: 5,814,128

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## FORMAL EDUCATION

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- Ph.D. Oceanography, Texas A&M University, 1978
- B.S. Chemistry/Physics, Abilene Christian University, 1974

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## PROFESSIONAL TRAINING AND CERTIFICATIONS

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- Installation and Operation of the Kongsberg Simrad HPR400P USBL system (2003, 2004, 2005).
- The Fundamentals of Subsea Positioning, (12 - 22 June 2005), Ian Florence, Instructor.
- STCW (firefighting, first aid & CPR, Sea Survival and Ship responsibilities (2001)
- Health, Safety and Environmental procedures for TDI-Brooks & B&B Laboratories, (1998).
- Hewlett Packard Company, Process of Management Course for Managers, Certificate of Completion, 1992
- Stanford University, Graduate School of Business, Executive Program for Smaller Companies, Certificate of Completion, 1992
- Sport Diver Certificate, PADI (renewed Nov 2004), original certification by NASDS (1967)



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## FIELD EXPERIENCE

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- Party Chief, Geotechnical CPT, Anadarko Petroleum Corporation, Indian Ocean, OSV Rylan-T, 11 November – 22 November 2012.
- Party Chief, Geotechnical CPT, Exxon Mobil Development Company, Gulf of Mexico, R/V Brooks McCall, 11 June – 20 June 2012.
- Party Chief, Geotechnical CPT, Shell Global Solutions US Inc., Gulf of Mexico, R/V Brooks McCall, 05 April – 14 May 2012.
- Party Chief, Geotechnical CPT, Exxon Mobil Development Company, Gulf of Mexico, R/V Brooks McCall, 27 February – 11 March 2012.
- Party Chief, Geotechnical CPT, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 04 November – 03 December 2011.
- Party Chief, Geotechnical CPT, Chevron Pipe Line Company, Gulf of Mexico, R/V Brooks McCall, 25 July – 22 August 2011.
- Party Chief, Geotechnical CPT, ExxonMobil Exploration Inc., Gulf of Mexico, R/V Brooks McCall, June 27 – 15 July 2011.
- Party Chief, Geotechnical CPT, Chevron, Liberia, R/V JW Powell, 21 February – 02 March 2011.
- Party Chief, Geotechnical CPT, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 06 November – 21 November 2010.
- Party Chief, Geotechnical CPT, LLOG Exploration Company, Gulf of Mexico, R/V Brooks McCall, 17 September – 25 September 2010.
- Party Chief, Geotechnical CPT, Chevron Corporation, Gulf of Mexico, R/V Brooks McCall, 16 March - 20 March 2010.
- Party Chief, Geotechnical JPC, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 09 February - 27 February 2010.
- Party Chief, Exploration Heatflow, Brazil, 26 January - 06 February 2009.
- Party Chief, Geotechnical JPC, Chevron North America Production Company, Gulf of Mexico, R/V Brooks McCall, 11 December - 23 December 2008.
- Party Chief, Geotechnical JPC, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 28 November - 10 December 2008.
- Party Chief, Geotechnical JPC, Ghana, R/V JW Powell, 24 August - 03 September 2008.
- Party Chief, Geotechnical JPC, Shell Nigeria Exploration & Production Company Ltd., Atlantic Ocean, R/V JW Powell, 15 December 2007 - 03 January 2008.
- Party Chief, Geotechnical JPC, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 04 September - 12 October 2007.
- Navigator, Environmental ROV, Department of Interior Minerals Management Service, Gulf of Mexico, R/V Ron Brown, 04 June - 19 June 2007.
- Party Chief, Geotechnical JPC, Bluewater Industries Inc., Gulf of Mexico, R/V Brooks McCall, 13 May - 14 May 2007.
- Party Chief, Geotechnical JPC, Angola, R/V JW Powell, 08 March - 20 March 2007.

## PUBLICATIONS

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- 2008 Characterization of Near Surface Sediment, Offshore Technology Conference, May 2008, H. E. Low and M. F. Randolph, C. J. Rutherford, B. B. Bernard and J. M. Brooks.
- 2005 Thermal and visual time-series at a seafloor gas hydrate deposit on the Gulf of Mexico slope, Earth & Planetary Sciences Letters, 233, 45-59, MacDonald, Ian R., Leslie C. Bender, Michael Vardaro, Bernie Bernard, James M. Brooks.
- 2005 Estudio Regional de Manifestaciones Superficiales de Aceite y Gas en el Sur del Golfo de Mexico, su Origen e Implicaciones Exploratorias, Asociacion Mexicana de Geologos Petroleros, A.

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- C., Volumen LII, Numero 1, pp. 20-41, Holguin-Quinones, James M. Brooks, Juan R. Roman- Ramos, Bernie B. Bernard, Joel Lara-Rodriguez, John E. Zumberge, Luis Medrano-Morales, Joshua Rosenfeld, Maria de Farago Botella, Rodrigo Maldonado-Villalon y Gustavo Martinez-Pontvianne.
- 2004 Asphalt Volcanism and Chemosynthetic Life in the Campeche Knolls, Gulf of Mexico, *Science*, 304, 999-1002, MacDonald, I.R., G. Bohrmann, E. Escobar, F. Abegg, P. Blanchon, V. Blinova, W. Bruchmann, M. Drews, A. Eisenhauer, X. Han, K. Heeschen, F. Meier, C. Mortera, T. Naehr, B. Orcutt, B. Bernard, J. Brooks and M. de Farago.
- 2002 Application of marine heat flow data important in oil and gas exploration, *Oil and Gas Journal*, July 2002, S. Nagihara, J.M. Brooks, B.B. Bernard, G.A. Cole, N. Summer, T. Lewis
- 2001 Constraining source and charge risk in deepwater areas, *World Oil*, October 2001, G.A. Cole, A. Yu, F. Peel, R. Requejo, J. DeVay, J.M. Brooks, B.B. Bernard, J.E. Zumberge, S. Brown.
- 2000 The nature of gas hydrates on the Nigerian continental margin, In: *Gas Hydrates, Challenges for the Future* (G.D. Holder and P.R. Bishnoi, eds.), *Annals of the New York Academy of Sciences*, 192, 76-94, with J.M. Brooks, W.R. Bryant, and N.R. Cameron.
- 1985 Biogenic hydrocarbon gases and sulfate reduction in the Orca Basin brine, *Geochimica et Cosmochimica Acta*, with D.A. Wiesenburg and J.M. Brooks.
- 1981 Methane in the upper water column of the northwestern Gulf of Mexico, *Journal of Geophysical Research*, 86(11), 11029-11040, with J.M. Brooks and D.F. Reid.
- 1980 Sources of biogenic methane in the Gulf of Mexico, in *Marine Environmental Pollution*, 1, Hydrocarbons, edited by R.A. Geyer, Elsevier Scientific Publishing Co., Amsterdam, pp. 107-192.
- 1980 Environmental aspects of ocean dumping in the western Gulf of Mexico, *J. Water Pollution Control Federation*, 52, 329-350, with others.
- 1980 Facile synthesis of  $57\text{Fe}(\text{CO})_5$ , *Synth. React. Inorg. Metal-Org. Chem.*, 10, 1-7, with L. Daniels, R. Hance, and B. Hutchinson. 1979 Methane in marine sediments, *Deep-Sea Research*, 26, 429-443. 1979 Characterization of gases in marine waters and sediments, in *Geochemical Exploration*, 1978, edited by J.R. Watterson and
- T.K. Theobald, Association of Exploration Geochemists, Rexdale, Ontario, pp. 337-346, with J.M. Brooks and W.M. Sackett.
- 1979 Chemical aspects of a brine pool at East Flower Garden Bank, northwest Gulf of Mexico, *Limnology and Oceanography*, 24, 735-745, with J.M. Brooks, T.R. Bright, and C.R. Schwab.
- 1979 Natural gas seepage on the South Texas Shelf, in *Proceedings of the Eleventh Annual Offshore Technology Conference*, OTC 3911, pp. 471-478, with J.M. Brooks, W.M. Sackett, and J. Schwarz.
- 1979 A carbon inventory for Orca Basin brines and sediments, *Earth Planet Sci. Lett.*, 44, 73- 81, with W.M. Sackett and J.M. Brooks.
- 1978 Carbon isotopic variations in total carbon dioxide and methane of nearshore sediments, in *Stable Isotopes in the Earth Sciences*, edited by D.W. Robinson, Science Information Division, DSIR, Wellington, N.Z., pp. 39-48, with T. Whelan and J.M. Brooks.
- 1978 Environmental aspects of a well blowout in the Gulf of Mexico, *Environmental Science and Technology*, 12, 695-703, with J.M. Brooks, T.C. Sauer, and H. Abdel-Rehiem.
- 1978 Light hydrocarbons in marine sediments, Technical Report 78-5-T, Texas A&M Press, 144p
- 1977 Input of low-molecular-weight hydrocarbons from petroleum operations into the Gulf of Mexico, in *Fate and effects of Petroleum Hydrocarbons in Marine Ecosystems and Organisms*, *Proceedings of a Symposium* (November 1976), Seattle, edited by
- D.A. Wolfe, pp. 373-384, with J.M. Brooks and W.M. Sackett.
- 1977 A geochemical model for characterization of hydrocarbon gas sources in marine sediments, in *Proceedings of the Ninth Annual Offshore Technology Conference*, OTC 2934 (May 1977) Houston, pp. 435-438, with J.M. Brooks and W.M. Sackett.
- 1977 Light hydrocarbons in recent continental shelf and slope sediments, *Journal of Geophysical Research*, 83, 4053-4061, with J.M. Brooks and W.M. Sackett.
- 1976 Natural gas seepage in the Gulf of Mexico, *Earth Planet. Sci. Lett.*, 31, 48-54, with J.M. Brooks and W.M. Sackett.
- 1975 Metal-isotope measurement of iron pentacarbonyl, *J. Chem. Phys.*, 63, 3694-3696, with B. Hutchinson, R. L. Hance and M. Hoffbauer.

## REPORTS

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- 2003 Nigeria Sao Tome Joint Development Zone Consortium Program, Surface Heat Flow Interpretive Report, Technical Report 031066, TDI-Brooks International, Inc., College Station, Texas, USA, September 2003.
- 2003 Nigeria Sao Tome Joint Development Zone Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 03-1067, TDI-Brooks International, Inc., College Station, Texas, USA, July 2003.
- 2003 Trinidad Consortium Program, Surface Heat Flow Interpretive Report, Technical Report 03-1087, TDI-Brooks International, Inc., College Station, Texas, USA, September 2003.
- 2003 Trinidad Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 03-1088, TDI-Brooks International, Inc., College Station, Texas, USA, December 2003.
- 2002 Newfoundland Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 02-951, TDI-Brooks International, Inc., College Station, Texas, USA, September 2002.
- 2001 Guinea-Bissau Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 01-844, TDI-Brooks International, Inc., College Station, Texas, USA, December 2001.
- 2000 Angola Consortium Heat Flow Program, Surface Heat Flow Interpretive Report, Technical Report 00-510, TDI-Brooks International, Inc., College Station, Texas, USA, July 2000.
- 2000 Angola Ultra Deep Consortium - Central Area, Interpretive Surface Geochemical Exploration Report, Technical Report 00495, TDI-Brooks International, Inc., College Station, Texas, USA, September 2000.
- 2000 Angola Ultra Deep Consortium - Northern Area, Interpretive Surface Geochemical Exploration Report, Technical Report 00488, TDI-Brooks International, Inc., College Station, Texas, USA, September 2000.
- 2000 Central/Eastern Gulf of Mexico Consortium Program, Surface Heat Flow Interpretive Report, Technical Report 01-696, TDI-Brooks International, Inc., College Station, Texas, USA, February 2001.
- 2000 Central/Eastern Gulf of Mexico Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 01-698, TDI-Brooks International, Inc., College Station, Texas, USA, May 2001.
- 2000 Nigeria Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 00-446, TDI-Brooks International, Inc., College Station, Texas, USA, March 2000.
- 2000 Nile Delta Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 00-593, TDI-Brooks International, Inc., College Station, Texas, USA, January 2001.
- 2000 Nova Scotia Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 00-587, TDI-Brooks International, Inc., College Station, Texas, USA, January 2001.
- 1999 Central Gulf of Mexico Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 99-289, TDI-Brooks International, Inc., College Station, Texas, USA, February 1999.
- 1999 Central Gulf of Mexico Heat Flow Program Phase 1, Surface Heat Flow Interpretive Report, Technical Report 99-303, TDI-Brooks International, Inc., College Station, Texas, USA, April 1999.
- 1999 Central Gulf of Mexico Heat Flow Program Phase 2, Surface Heat Flow Interpretive Report, Technical Report 99-324, TDI-Brooks International, Inc., College Station, Texas, USA, June 1999.
- 1999 Western Gulf of Mexico Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 99-338, TDI-Brooks International, Inc., College Station, Texas, USA, August 1999.
- 1999 Western Gulf of Mexico Heat Flow Program, Surface Heat Flow Interpretive Report, Technical Report 00-411, TDI-Brooks International, Inc., College Station, Texas, USA, January 2000.
- 1998 Gabon Ultra Deep Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 98-206, TDI-Brooks International, Inc., College Station, Texas, USA, September 1998.
- 1998 Nigeria Ultra Deep Consortium Program, Surface Heat Flow Interpretive Report, Technical Report 98-208, TDI-Brooks International, Inc., College Station, Texas, USA, September 1998.
- 1998 Nigeria Ultra Deep Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 98-237, TDI-Brooks International, Inc., College Station, Texas, USA, December 1998.
- 1997 Angola Ultra Deep Water Consortium Program, Surface Heat Flow Interpretive Report, Technical Report 98-100, TDI-Brooks International, Inc., College Station, Texas, USA, January 1998.
- 1997 Angola Ultra Deep Water Consortium Program, Interpretive Surface Geochemical Exploration Report, Technical Report 98-155, TDI-Brooks International, Inc., College Station, Texas, USA, April 1998