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## **Leslie C. Bender III**

### **MetOcean Director**

#### **PROFESSIONAL HIGHLIGHTS**

- 15 Cruises over the past six years as a Party Chief conducting Multi-Beam Surveys and Piston Coring operations.
- 5 years' experience as a Geothermal Heatflow Processing Specialist.
- 24 years' experience in physical oceanography and ocean engineering modeling and forecasting.
- Conducted 20 funded academic research projects and authored 15 research publications.
- Authored 58 technical reports for TDI-Brooks geochemistry, environmental monitoring, and geothermal heatflow projects.
- Awarded Texas A&M University, College of Geosciences Distinguished Research Scientist (2009)
- Extensive corporate level training in Safety (ISMS) and Security (ISPS) procedures and practices.

#### **EDUCATION**

Ph.D., Physical Oceanography, University of Delaware, 1987-1992

Ph.D. candidate, Chemical Engineering, University of Delaware, 1985-1987

M.S., Chemical Engineering, Carnegie-Mellon University, 1978-1980

B.S., Chemical Engineering, Magna cum Laude, University of Utah, 1974-1978

#### **PROFESSIONAL EXPERIENCE**

Jul 10 – Present MetOcean Director, TDI-Brooks Int., College Station, TX. Responsible for data management, data reporting, and one-off design of specialized data products to meet customer's needs. Responsible for the management of MetOcean projects, Environmental Baseline Studies (EBS) and geothermal heat flow analysis. A member of the executive management team responsible for the company's Safety Management System. Responsible for the IMO required Ship Energy Efficiency Management Plan. Developed and maintain the operational weather forecasting used to plan daily offshore operations. Developed and maintain the climatology analysis tool used to route ocean transits and predict weather downtime.

- Operational Weather Forecasting & SeaState Analysis:  
(<http://linux.geodatapub.com/tdibisr/seastate/index.html>)
- Party Chief on 4 MBES cruises in 2013 and 2014
- Piston Coring Party Chief/Navigator on 6 cruises
- Geothermal Heat Flow Processing Specialist - 19 projects
- EBS Project Manager – 5 projects
- Proposal preparation
- LADCP Processing Specialist – 3 projects
- Seabird CTD Processing
- Tidal Predictions
- CARIS HIPS/SIPS Training: October 2014



Sep 06 – Jul 10 Associate Research Scientist, Geochemical and Environmental Research Group, Ocean Sciences Division. Texas A&M University. Responsible for operational oceanography involving the Texas Automated Buoy System and conducting oceanographic research, writing proposals, and administering grants.

- Operational Oceanography for the Texas Automated Buoy System: ([http://tabs2.gerg.tamu.edu/Tglo/RTA/RTA\\_index.html](http://tabs2.gerg.tamu.edu/Tglo/RTA/RTA_index.html) )
- Oceanographic research
- Writing proposals and administering grants

Aug 00 – Sep 06 Assistant Research Scientist, Geochemical and Environmental Research Group, Ocean Sciences Division. Texas A&M University. Primarily responsible for operational oceanography involving the Texas Automated Buoy System and for conducting oceanographic research.

Feb 98 – Aug 00 Senior Research Scientist, Powerware Solutions, Inc. Responsible for performing the research and development necessary to maintain an alignment between the company's strategic objectives and its core technical competency. This entailed water chemistry modeling, prediction of consumption patterns, simulation of water utility operations, optimization of pipeline design, and financial and risk management modeling.

Jan 95 – Feb 98 Assistant Research Scientist, Texas-Louisiana Shelf Circulation Program, Texas A&M University. Analyzed, synthesized and modeled observational data collected during a three-year physical oceanography field program on the Texas-Louisiana continental shelf.

July 92 - Jan 95 Post Doctoral Fellow, Mesoscale Modeling Group, Australian Bureau of Meteorology Research Centre, Melbourne, Australia. Evaluated the ocean wave prediction model WAM for the Australian region, changed the physics, and upgraded the numerics prior to operational implementation. The model ran for 12 years without my assistance until it was upgraded with WaveWatch III.

1985-1992 Graduate Research Assistant, University of Delaware

1981-1985 Lieutenant, US Navy, Naval Nuclear Propulsion Program, Washington, D.C. Member of Admiral Rickover's engineering staff. Responsible for the construction of the pressure vessel components used in nuclear propulsion plants in submarines and aircraft carriers.

## **FIELD EXPERIENCE**

Lab Tech, Geotechnical Investigation, Benthic Geotech Pty LTD, Esso Exploration and Production Guyana Limited, Atlantic Ocean, SABLE, 12 September – 27 September 2018

Lab Chief, Environmental Baseline Survey, DEA Deutsche Erdoel México (DEM), Gulf of Mexico, Maris, 16 August – 05 September 2018



Lab Chief/Scientist, Environmental Baseline Survey, Chevron Energia de Mexico, S. de R.L. de C.V., Gulf of Mexico, Maris, 15 June – 01 July 2018

Lab Tech, Environmental Baseline Survey, Total E&P México, Gulf of Mexico, Maris, 02 March – 12 March 2018

Party Chief, Environmental Baseline Survey, Créocéan, Total E&P Mexico, Gulf of Mexico, R/V Proteus, 07 October – 21 October 2017

Party Chief, Environmental Baseline Survey, Chevron Energia de Mexico (Chevron), Gulf of Mexico, R/V Proteus, 26 July – 01 August 2017

Party Chief, Environmental Baseline Survey, Amec Foster Wheeler (AFW), BHP Billiton Petróleo Operaciones De México, Gulf of Mexico, R/V Proteus, 11 July – 24 July 2017

Navigator & Onboard QC Specialist, Geochemistry Survey, StatOil New Zealand/National Institute of Water and Atmospheric Research (NIWA), Tasman Sea, R/V Tangaroa, 04 March – 25 March 2016

Party Chief, SGE PC and Heat Flow Survey/Geotechnical Survey, Anadarko Petroleum Corporation, Caribbean Sea, R/V Proteus, 25 June – 03 August 2014

Party Chief, Geotechnical Survey, Anadarko Petroleum Corporation, Indian Ocean, OSV RylanT, 21 April – 05 May 2014

Party Chief, Geotechnical Survey, Anadarko Petroleum Corporation, Atlantic Ocean, Teknik Perdana, 25 September – 10 October 2013

Assistant Party Chief/Navigator, SGE Program, SK Energy, Pacific Ocean, R/V GeoExplorer, 27 June – 06 July 2012

Assistant Party Chief/Navigator/HF Tech, SGE Program, Shell Exploration and Production, Caribbean Sea, R/V GeoExplorer, 09 May – 25 May 2012

Assistant Party Chief/Navigator, Geotechnical Survey, Tesla Exploration Ltd., Gulf of Mexico, R/V Gyre, April 2012

Assistant Party Chief/Navigator/HF Tech, Heat Flow Survey, University of Mississippi, Gulf of Mexico, R/V GeoExplorer, 25 March – 30 March 2012

Party Chief/Navigator/HSE Officer, Geotechnical Survey, Williams Production, Gulf of Mexico, R/V GeoExplorer, 04 January – 19 January 2012

Navigator, Geotechnical Survey, BP America Production Company, Gulf of Mexico, R/V Brooks McCall, 04 November – 18 November 2011

Navigator, Geotechnical Survey, Chevron Pipe Line Company, Gulf of Mexico, R/V Brooks McCall, 27 July – 01 August 2011

LADCP Tech, Geotechnical, SGE, Heat Flow, MetOcean, EBS Survey, Chevron, Atlantic Ocean, R/V JW Powell, 17 February – 20 February 2011



Party Chief, Oil Spill Field Response, BP Oil Spill Trustees, Gulf of Mexico, R/V Gyre, October 2010

Navigator, Geotechnical Survey, Enbridge Energy Co., Gulf of Mexico, R/V Brooks McCall, 17 September – 27 September 2010

Party Chief, Oil Spill Field Response, BP Oil Spill Trustees, Gulf of Mexico, R/V Brooks McCall, 28 July – 03 August 2010

### **PROFESSIONAL TRAINING & CERTIFICATIONS**

- Advanced Open Water Scuba Diver – PADI certified
- Basic Offshore Survival and Emergency Training – Falck Alford
- Basic Rigging – Crane Tech, LLC
- Designated Person Ashore – Quality Management International, Inc.
- ISPS Code/Vessel Security Training – Quality Management International, Inc.
- International Safety Management (ISM) Code – Quality Management International, Inc.
- Merchant Mariner Credential – U.S. Coast Guard
- Personnel Transfer Basket/Swing Rope – Falck Alford
- Tropical Helicopter Underwater Escape Training – Falck Alford
- VSO/CSO/PFSO Training – Quality Management International, Inc.

### **FUNDED PROPOSALS**

Texas A&M University Research Foundation #424132, “Flower Garden Mitigation” sponsored by Oil Company Consortium. PI: \$464,486, 2010.

Texas A&M University Research Services #430842, “Small Responder Buoy Design for Oil Spill Applications-Year 2 Addendum” sponsored by Texas General Land Office. PI: \$197,410, FY2010.

Texas A&M University Research Foundation #424131, “Flower Garden Mitigation” sponsored by Oil Company Consortium. PI: \$569,299, 2009.

Texas A&M University Research Services #430842, “Small Responder Buoy Design for Oil Spill Applications” sponsored by Texas General Land Office. PI: \$160,013, FY2009.

Texas A&M University Research Foundation #451268, “Flower Garden Mitigation” sponsored by J. Conor Consulting. PI: \$531,784, 2008.

Texas A&M University Research Foundation Proposal #683641, “Congo River Canyon Mooring Amendment-DRC 2<sup>nd</sup> Year Rotation ” sponsored by TDI-Brooks International, College Station, TX: PI: \$62,106 for eighteen month extension, 2008-2009.

Texas A&M University Research Foundation #451267, “Flower Garden Mitigation” sponsored by J. Conor Consulting. PI: \$531,676, 2007.

Texas A&M University Research Foundation Proposal #683641, “Congo River Canyon Mooring” sponsored by TDI-Brooks International, College Station, TX: PI: \$528,844 for three years, 2006-2008.



Texas A&M University Research Foundation Proposal #651265, “Flower Garden Mitigation” sponsored by J. Conor Consulting. PI: \$563,551, 2006.

Texas A&M University Research Foundation, ADCP Quality Control Addendum to “Coastal Air-Sea Coupling at Critical Latitudes” sponsored by Minerals Management. PI: \$12,910, 2006.

Texas A&M University Research Foundation Proposal #668361, “Report on Oil Slick in GC248” sponsored by Shell Oil Co. PI: \$1,500, 2005.

Texas A&M University Research Foundation Proposal #651263, “Flower Garden Mitigation” sponsored by J. Conor Consulting. Co-PI with Norman Guinasso: \$452,231, 2005.

Texas A&M University Research Foundation Proposal #651264, “Flower Garden Mitigation” sponsored by J. Conor Consulting. Co-PI with Norman Guinasso: \$321,755, 2004.

Texas A&M University Research Foundation Proposal #45640, “Understanding the Processes that Maintain the Oxygen Levels in the Deep Gulf” sponsored by the Minerals Management Service. Co-PI with Ann Jochens: \$154,330 for two years, 2004 – 2005.

Texas A&M University Research Foundation Proposal #651263, “Flower Garden Mitigation” sponsored by J. Conor Consulting. Co-PI with Norman Guinasso: \$317,545, 2003

Texas A&M University Research Foundation Proposal #655811, “Buoyancy Driven Plumes” sponsored by NOAA. PI. \$47,000, 2002.

Texas A&M University Research Foundation Proposal #0200277, “Flower Garden Mitigation” sponsored by J. Conor Consulting. Co-PI with Norman Guinasso: \$231,835, 2002.

Texas A&M University Research Foundation Proposal #0100705, “Flower Garden Mitigation” sponsored by J. Conor Consulting. Co-PI with Norman Guinasso: \$304,424, 2001.

Texas A&M University Supercomputer Advisory Committee, *Waves on the Texas-Louisiana Continental Shelf*, Cray J90 Large Research Grant, awarded Nov. 1995 and extended Oct. 1996.

TEES Proposal #97-710, Texas General Land Office. *Texas Automated Buoy System Modeling Effort* by Drs. Robert Reid, Les Bender, and Norman Guinasso. \$80,001 for two years, 1998 and 1999.

## **PUBLICATIONS**

Bender, LC, SD Howden, D Dodd and NL Guinasso, *Wave heights during Hurricane Katrina: An evaluation of PPP and PPK measurements of the Vertical Displacement of the GPS antenna*, Journal of Atmospheric and Oceanic Technology, **27**(10), 1760-1768, 2010.

Bender, LC, NL Guinasso, JN Walpert, and SD Howden, *A comparison of methods for determining significant wave heights: Applied to a 3-m discus buoy during hurricane Katrina*, Journal of Atmospheric and Oceanic Technology, **27**(5), 1012-1028, 2010.

Bender, LC, NL Guinasso, JN Walpert, and SD Howden, *A comparison of two methods for determining wave heights from a discus buoy with a strapped-down accelerometer*, Proceedings of the 11<sup>th</sup> International Workshop on Wave Hindcasting and Forecasting and Second Coastal Hazard Symposium, Halifax, Nova Scotia, October 2009, JCOMM Technical Report No. 52, IOC Workshop Report No. 232, WMO/TD-No. 1533, 2009.

Bender, LC, NL Guinasso, JN Walpert, and SD Howden, *Wave heights from a 3m discus buoy during Hurricane Katrina*, Proceedings of the MTS/IEEE Oceans 2008 Conference, Quebec City, Canada, Sept 15-18, 2008.

Howden, S, D Gilhousen, N Guinasso, J Walpert, M. Sturgeon, and L. Bender, *Hurricane Katrina winds measured by a buoy mounted sonic anemometer*, Journal of Atmospheric and Oceanic Technology, **5**(4), 607-616, 2008.

Bender, LC, NL Guinasso, JN Walpert, LL Lee, RD Martin, RD Hetland, SK Baum and MK Howard, *Development, Operation and Results from the Texas Automated Buoy System*, Gulf of Mexico Science, **25**(1), 33 – 60, 2007.

MacDonald, I.R., L.C. Bender, M. Vardaro, B. Bernard, J.M. Brooks, *Thermal and Visual Time-Series at a Seafloor Gas Hydrate Deposit on the Gulf of Mexico Slope*, Earth and Planetary Science Letters, **233**, 45-59, 2005.

Martin, R.D., Jr, N.L. Guinasso, Jr., L.L Lee, Jr., J.N. Walpert, L.C. Bender, R.D. Hetland, S.K. Baum, & M.K. Howard, *Ten Years of Realtime, Near-surface Current Observations Supporting Oil Spill Response*, Proceedings 2005 International Oil Spill Conference, American Petroleum Institute, Washington, D.C., pp 541 – 545, 2005.

Walpert, J.N., N.L. Guinasso Jr., L.C. Bender, and L.L. Lee III, *The Effects of Marine Fouling on the Performance of a Single-Point Acoustic Doppler Current Sensor Mounted on a TABS-II Spar Buoy*, In *OCEANS 2001 MTS/IEEE Proceedings*, 956-961, Marine Technology Society, Washington DC, 2001.

DiMarco, S.F., and L.C. Bender, *WAM4 model/data comparison in the NW Gulf of Mexico*, Ocean Wave Kinematics, Dynamics and Loads on Structures Proceedings, American Society of Civil Engineers, Houston, Texas, April 30, 1998.

Tolman, H.L., L.C. Bender, and W.L. Neu, *Comments on "The Goddard Coastal Wave Model. Part I: Numerical Method,"* J. Phys. Oceanog., **28**(6), 1287-1290, 1998.

Tolman, H.L., W.L. Neu, and L.C. Bender, *Comments on "The Goddard Coastal Wave Model. Part II: Kinematics,"* J. Phys. Oceanog., **28**(6), 1305-1308, 1998.

Bender, L.C. and T.J. Glowacki, *The Assimilation of Altimeter Data into the Australian Wave Model*, Aust. Met. Mag., **45**, 42-48, 1996.

Bender, L.C., *A Modification of the Physics and Numerics in a Third Generation Ocean Wave Model*, J. of Atm. & Ocean. Tech., **13**(3), 726-750, 1996.

Bender, L.C. and K.C. Wong, *The Effect of Wave-Current Interaction on Tidally Forced Estuarine Circulation*, J. Geophys. Res., **98**, 16,521-16,528, 1993.



## PRESENTATIONS

- Bender, LC, *Ongoing Research and Development at GERG*, Oceanography Departmental Seminar, Texas A&M University, February 15, 2010.
- Bender, LC, NL Guinasso JN Walpert & SD Howden, *A wave height comparison study from a 3-m discus buoy during Hurricane Katrina*, University of Southern Mississippi Seminar, Stennis Space Center, MS, March 6, 2009.
- Bender, LC & SF DiMarco, *The Effect of Mobile Scatterers on ADCP Current Speed in the northwestern Gulf of Mexico*, Oral Presentation: #OS137-06, 2008 Ocean Sciences Mtg., Orlando, Florida, March 5, 2008.
- Guinasso, NL, LC Bender, SD Howden & JN Walpert, *Wave Heights from a 3-m Discus Buoy near the Mississippi Sound during Hurricane Katrina*, Poster Presentation: #OS151-578, 2008 Ocean Sciences Mtg., Orlando, Florida, March 3, 2008.
- Bender, LC, *The Effect of Mobile Scatterers on Horizontal ADCP Current Speeds*, Oceanography Departmental Seminar, Texas A&M University, September 24, 2007.
- Bender, LC, *The Three-Dimensional Arrested Topographic Wave along a Concave Coastline*. Paper#: OS16J-09, AGU 2006 Ocean Sciences, February 2006.
- Bender, LC, *Nonlinear Tides in a Narrow Channel: An Analytical Solution using a Time-Varying Eddy Viscosity*. Abstract # 1130, AGU 2004 Ocean Sciences, January 2004.
- MacDonald, I.R., M. Vardaro, M., L.C. Bender, *A temperature and photographic time-series from a seafloor gas hydrate deposit on the Gulf of Mexico slope*. Geophysical Research Abstracts. 5: p. 12714, 2003.
- Bender, L.C., N.L. Guinasso Jr., J.N. Walpert, and L.L. Lee III, *Is There Decadal Scale Information in the Texas Coastal Current?* AGU Fall Meeting, San Francisco, California, December 2002.
- Bender, L.C., N.L. Guinasso Jr., J.N. Walpert, L.L. Lee III, and S. DiMarco, *Current Observations Offshore of Pearl Harbor during the Ehime Maru Recovery Operations*, AGU Ocean Sciences Meeting, Honolulu, Hawaii, February 2002
- Bender, L.C., N.L. Guinasso Jr., J.N. Walpert, and L.L. Lee III, *Is There Decadal Scale Information in the Texas Coastal Current?* AGU Fall Meeting, San Francisco, California, December 2002.
- Guinasso, Jr., Norman L. Leslie C. Bender, III, Linwood L. Lee, III, John N. Walpert, Joseph Yip, Robert O. Reid, Matt Howard, David A. Brooks, Robert D. Hetland, and Robert D. Martin (2001). *Observing and Forecasting Coastal Currents: Texas Automated Buoy System (TABS) in OCEANS 2001 MTS/IEEE Proceedings*, 1318-1322, Marine Technology Society, Washington DC. Presented by Norman Guinasso 11/8/2001 at Oceans 2001 Meeting in Honolulu, HI.
- Bender, L.C., and R.O. Reid, *Volume Fluxes on the Texas-Louisiana Continental Shelf from a Structure-Function Box Model*, AGU Spring Meeting, Baltimore, MD, May 1997.



Bender, L.C., *A Method for Adjusting Dynamic Heights in Coastal Regions*, Physical Oceanography Seminar, Texas A&M University, Sept. 5, 1996.

Bender, L.C., *Mass Fluxes from a Box Model of the Texas-Louisiana Continental Shelf*, Poster OS31C-08, Ocean Sciences Meeting, San Diego, CA, Feb. 1996.

Bender, L.C., *The Assimilation of Altimeter Data into the Australian Wave Model*, The Sixth BMRC Modeling Workshop, Melbourne, Australia, Oct. 1994.

Bender, L.C., *The Parameterisation of Wind Input Physics in a Wind-Wave Model*, The Fifth BMRC Modeling Workshop, Melbourne, Australia, Nov. 1993.

## REPORTS

Bender, L.C., and Wolff, *StatOil Reinga Basin (ST16501) Environmental Baseline Survey – Data Report*, Technical Report Number: 15-3527, TDI Brooks International, June 2016

Bender, L.C., *Heat Flow Interpretive Report TGS US Perdido (Area 1)*, Technical Report Number: 16-3518, TDI Brooks International, June 2016.

Bender, L.C., *Heat Flow Interpretive Report TGS US Perdido (Area 0)*, Technical Report Number: 16-3498, TDI Brooks International, May 2016.

Bender, L.C., *StatOil Reinga Basin (ST16501) Heat Flow Interpretive Report*, Technical Report Number: 16-3508, TDI Brooks International, April 2016.

Bender, L.C., *SeaSeep Potiguar Basin Heat Flow Interpretive Report*, Technical Report Number: 16-3489, TDI Brooks International, February 2016.

Bender, L.C., *SeaSeep Amazonas Heat Flow Interpretive Report*, Technical Report Number: 16-3482, TDI Brooks International, January 2016.

Bender, L.C., *TOTAL/SeaSeep Amazonas Heat Flow Interpretive Report*, Technical Report Number: 16-3473, TDI Brooks International, January 2016.

Bender, L.C., *Ship Energy Efficiency Management Plan Quarterly Review: Fourth Quarter*, TDI Brooks International, January 2016.

Bender, L.C., *Ship Energy Efficiency Management Plan Quarterly Review: Third Quarter*, TDI Brooks International, October 2015.

Bender, L.C., *Classification Method for Identifying Potential Bottom Water Temperature Transient Sites*, Technical Note, TDI Brooks International, September 2015.

Bender, L.C., and Wolff, *Tullow Jamaica Walton Morant Block, Environmental Baseline Survey – Data Report*, Technical Report Number: 15-3401, TDI Brooks International, August 2015





- Bender, L.C., *Tullow Jamaica Heat Flow Interpretive Report*, Technical Report Number: 15-3397, TDI Brooks International, July 2015.
- Bender, L.C., *Ship Energy Efficiency Management Plan Quarterly Review: Second Quarter*, TDI Brooks International, July 2015.
- Bender, L.C., *Repsol Aruba Heat Flow Interpretive Report*, Technical Report Number: 15-3386, TDI Brooks International, June 2015.
- Bender, L.C., *Chevron Morocco Heat Flow Interpretive Report*, Technical Report Number: 15-3365, TDI Brooks International, April 2015.
- Bender, L.C., *Ship Energy Efficiency Management Plan Quarterly Review: First Quarter*, TDI Brooks International, April 2015.
- Bender, L.C., *Anadarko Colombia Col2 Heat Flow Interpretive Report*, Technical Report Number: 15-3356, TDI Brooks International, February 2015.
- Bender, L.C., *Anadarko Colombia Fuertes Heat Flow Interpretive Report*, Technical Report Number: 15-3352, TDI Brooks International, February 2015.
- Bender, L.C., and Wolff, G, *Maersk Oil Angola Chissonga Field Environmental Baseline Survey – Data Report*, Technical Report Number: 15-3346, TDI Brooks International, February 2015.
- Bender, L.C., *REPSOL Columbia Guajira-1 Block Heat Flow Interpretive Report*, Technical Report Number: 14-3331, TDI Brooks International, November 2014.
- Bender, L.C., and Wolff, G , *Anadarko Colombia Col2 Block Multibeam Bathymetry Survey Field Report*, Technical Report Number: 14-3293, TDI Brooks International, 348 pgs, September 2014.
- Bender, L.C., and Wolff, G , *Anadarko Colombia Fuerte Block Multibeam Bathymetry Survey Field Report*, Technical Report Number: 14-3292, TDI Brooks International, 238 pgs, September 2014.
- Bender, L.C., *Geotechnical and Environmental Baseline Survey – Fuerte Block, Lowered Acoustic Doppler Current Profiler (LADCP) Report*, Anadarko Petroleum, Technical Report Number: 14-3298, TDI Brooks International, June 2014.
- Bender, L.C., *Anadarko Colombia Fuerte and COL-2 Multi-beam Project HSE Closure Report*, August 2014.
- Bender, L.C., *Anadarko Kenya Heat Flow Interpretive Report*, Technical Report Number: 14-3276, TDI Brooks International, June 2014.
- Bender, L.C., *Geotechnical and Environmental Baseline Survey – Stabroek Block, Lowered Acoustic Doppler Current Profiler (LADCP) Report*, Esso Exploration and Production, Guyana LTD, Technical Report Number: 14-3263, TDI Brooks International, June 2014.
- Bender, L.C., *BG Uruguay Heat Flow Interpretive Report*, Technical Report Number: 14-3256, TDI



Brooks International, June 2014.

Bender, L.C., *Ship Energy Efficiency Management Plan: R/V Gyre*, TDI Brooks International, February 2014.

Bender, L.C., *Ship Energy Efficiency Management Plan: R/V Geoexplorer*, TDI Brooks International, February 2014.

Bender, L.C., *Ship Energy Efficiency Management Plan: R/V Proteus*, TDI Brooks International, February 2014.

Bender, L.C., *Ship Energy Efficiency Management Plan: R/V Brooks McCall*, TDI Brooks International, February 2014.

Bender, L.C., *Ship Energy Efficiency Management Plan: R/V Rylan T*, TDI Brooks International, February 2014.

Bender, L.C., and Wolff, G , *Anadarko Guyana Roraima Block Multibeam Bathymetry Survey Field Report*, Technical Report Number: 13-3139, TDI Brooks International, November 2013.

Bender, L.C., *Conoco Phillips Western Gulf of Mexico Heat Flow Interpretive Report*, Technical Report Number: 13-3091, TDI Brooks International, July 2013.

Bender, L.C., *Petrobras Portugal Peniche Basin Heat Flow Interpretive Report*, Technical Report Number: 12-2975, TDI Brooks International, November 2012.

Bender, L.C., *Petrobras Portugal Alentejo Basin Heat Flow Interpretive Report*, Technical Report Number: 12-2968, TDI Brooks International, October 2012.

Bender, L.C., *Morocco Pura Vida Heat Flow Interpretive Report*, Technical Report Number: 12-2964, TDI Brooks International, October 2012.

Bender, L.C., *Tanzania Heat Flow Interpretive Report*, Technical Report Number: 12-, TDI Brooks International, September 2012.

Bender, L.C., *Shell Columbia Guajira-3 Block Heat Flow Interpretive Report*, Technical Report Number: 12-2870, TDI Brooks International, May 2012.

Bender, L.C., *PTTEP Makassar Straits Heat Flow Interpretive Report*, Technical Report Number: 12-2846, TDI Brooks International, May 2012.

Bender, L.C., *Talisman Makassar Straits Heat Flow Interpretive Report*, Technical Report Number: 12-2858, TDI Brooks International, May 2012.

Bender, L.C., *Geotechnical and Environmental Baseline Survey – Liberia, Lowered Acoustic Doppler Current Profiler (LADCP) Report*, Esso Exploration and Production, Guyana LTD, Technical Report Number: 11, TDI Brooks International, June 2011.

*Deepwater Horizon Dispersant Use Meeting Report*, May 26-27, 2010. Issued by the Coastal Response Research Center of the University of New Hampshire, June 4, 2010.



- Bender, LC & SF DiMarco, *Quality Control and Analysis of Acoustic Doppler Current Profiler Data Collected on Offshore Platforms of the Gulf of Mexico*, U.S. Dept. of the Interior, Minerals Mgmt. Service, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study MMS 2009-010, 63 pp.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Thalweg Current Meter Mooring in the Congo River Canyon, Angola, Final Report*, Technical Report Number: 08-2102, TDI Brooks International, July 2008.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Terrace Current Meter Mooring in the Congo River Canyon, Angola, Final Report*, Technical Report Number: 08-xxxx, TDI Brooks International, January 2008.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Shallow Current Meter Mooring in the Congo River Canyon, Angola, Preliminary Data Report*, Technical Report Number: 07-1841, TDI Brooks International, March 2007.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Terrace Current Meter Mooring in the Congo River Canyon, Angola, Preliminary Data Report*, Technical Report Number: 07-1840, TDI Brooks International, March 2007.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Thalweg Current Meter Mooring in the Congo River Canyon, Angola, Preliminary Data Report*, Technical Report Number: 07-1815, TDI Brooks International, January 2007.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, Congo River Canyon Crossing Pipeline Project, *Terrace Current Meter Mooring in the Congo River Canyon, Angola, Preliminary Data Report*, Technical Report Number: 06-1796, TDI Brooks International, December 2006.
- Bender, L.C, III, N.L. Guinasso, Jr. and J. N. Walpert, *A Program to Test the Feasibility of using the Texas Automated Buoy System to Measure Waves Impinging on the Texas Coast*. Final Report prepared for the Texas General Land Office and the National Oceanic and Atmospheric Administration under GLO contract no. 04-001, May 24, 2006.
- Jochens, A.E., L.C. Bender, S.F. DiMarco, J.W. Morse, M.C. Kennicutt II, M.K. Howard, and W.D. Nowlin, *Understanding the Processes that Maintain Oxygen Levels in the Deep Gulf of Mexico: Synthesis Report*. U.S. Dept. of the Interior, Minerals Management Service, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study MMS 2005-032, 142pp, 2005.
- Bender, L.C., J.N. Walpert, and N.L. Guinasso Jr, *Lowered ADCP Measurements in the Black Sea aboard the Research Vessel K. Piri Reis*, TDI Brooks International, November 3, 2004. Bender, L.C., N.L. Guinasso Jr., L.L. Lee III, and J.N. Walpert, *Marathon Current Meter Report: Moorings at GC999 (2000) and GC1001 (2001)*, Marathon Oil, October 21, 2002.
- Bender, L.C., N.L. Guinasso, F.J. Kelly, D.A. Brooks, and Y-T Loo, GERG Technical Report No. 01-016, *An Observational and Predictive Study of Inner Shelf Currents over the Texas-Louisiana Shelf: Final Report to Louisiana State University* under Subcontract No. R148184, July 7, 2001.



Bender, L.C., and F.J. Kelly, "*Chapter 7, Physical Oceanography/Hydrography Ecosystem Monitoring of the Mississippi/Alabama Shelf.*" Minerals Management Service Report, October 2000.

Bender, L.C., *LATEX Shelf Technical Report: Mass Fluxes on the Inner Texas-Louisiana Continental Shelf*, Technical Report No. **00-1-T**, Dept. of Oceanography, Texas A&M University, 236pp., 2000.

Bender, L.C. and F.J. Kelly, *LATEX Shelf Data Report: Acoustic Doppler Current Profiler*, Report No. **96-3-T**, Dept. of Oceanography, Texas A&M University, 249pp., 1997.

Bender, L.C. and L.M. Leslie, *Evaluation of a Third Generation Ocean Wave Model for the Australian Region*, BMRC Research Report No. **43**, Australian Bureau of Meteorology Research Centre, Melbourne, Australia, 1994.

## **STUDENTS**

James Taylor, BS Honors Student, *Analysis of Wave Prediction in the Bass Strait*, University of Melbourne, Victoria, Australia 1994.

## **PROFESSIONAL AND HONORARY SOCIETIES**

IEEE Oceanic Engineering Society

Marine Technology Society

Tau Beta Pi (Engineering Honor Society)

## **AWARDS**

Texas A&M University College of Geosciences 2009 Distinguished Research Scientist Award