

## CURRICULUM VITAE

Michael L. Brennan

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Brennan Exploration, LLC  
45 Saw Mill Drive #205  
North Kingstown, RI 02852  
Cell: 860-777-6181

brennanexploration@gmail.com  
mlbrennan@mail.uri.edu  
<http://uri.academia.edu/MikeBrennan#>  
<https://www.linkedin.com/in/michael-brennan-b979218>

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### EDUCATION

#### University of Rhode Island

- Ph.D. in Oceanography with focus in Marine Geology, 2012. Major Professor, Dr. Robert Ballard, Graduate School of Oceanography
- M.A. in History with focus in Archaeology, 2008. Major Professor, Dr. Roderick Mather

#### Bowdoin College

- B.A. with double major in Anthropology and Geology and minor in Classical Archaeology, 2004. Advisor, Dr. Leslie Shaw.

### EMPLOYMENT

- Principal and Founder, Brennan Exploration LLC, 2016-present.
- Director, Marine Archaeology and Maritime History, Ocean Exploration Trust, 2014-16.
- Postdoctoral fellow, URI Graduate School of Oceanography, 2012-2014.
- Project Manager, Institute for Exploration/Ocean Exploration Trust, 2010-2014.
- Research Assistant, URI Graduate School of Oceanography, 2004-2012.
- Archaeologist, American Cultural Specialists, 2003, 2004.

### GRANTS

- “Discovering Oregon's Lost Coast: Finding and Studying Submerged Archaeological Sites and Landscapes on the Pacific Continental Shelf” NOAA OER, 2016-2017.  
\$350,128; co-PI and Expedition Leader. PI Loren Davis
- ‘Victory at Sea’ Initiative startup grant, Richard Lounsbery Foundation, 2016.  
\$125,000; Project Manager and Expedition Leader. PI Robert Ballard
- Telepresence-enabled ROV exploration of Rhode Island shipwrecks, 2015.  
\$80,000; Scientist/Lead Archaeologist. PI Dwight Coleman.
- Dos Hombres to Gran Cacao Project, NSF Research Experience for Undergraduates Grant, 2014, co-PIs: Marisol Cortes-Rincon, Timothy Beach, Nick Brokaw.
- Research grant, Mesoamerican Archaeological Research Laboratory, 2013-2014, PI.

### AWARDS

- Enhancement of Graduate Research Award, URI 2010-2011.
- McMaster Award in Marine Geology, GSO 2010.
- Lance A. Ricci Award in Oceanography, GSO 2009.
- Riley Award for best honors analysis in Anthropology, Bowdoin College 2004.
- Sarah James Bowdoin Scholar Award 2002, 2003, 2004.

### CONSULTING

- Research Associate, Meadows Center for Water and the Environment, Texas State University, 2013-2015.
- UN World Oceans Assessment, 2012-present, following nomination as an expert through the US State Department to their pool of experts.
- Benthic Exploration, Consultant, 2011-2012.

### **INVITED PEER REVIEWS**

- Continental Shelf Research, 2014, 2015
- Journal of Archaeological Science, 2015

### **PROFESSIONAL AFFILIATIONS**

- Society of American Archaeology (SAA) - Member, 2010-present
- Geological Society of America (GSA) - Member, 2007-present

### **RESEARCH EXPERIENCE**

August 2016	Greater Farallones expedition, Expedition Leader, <i>E/V Nautilus</i> , Lead Scientist James Delgado, Jan Roletto.
August 2016	California Borderlands expedition, Expedition Leader, <i>E/V Nautilus</i>
August 2015	California Borderlands expedition, Expedition Leader, <i>E/V Nautilus</i> , Lead Scientist Peter Girguis, Lisa Levin, Chris German.
April/May 2015	ECOGIG expedition, Expedition Leader, <i>E/V Nautilus</i> , Chief Scientist Chuck Fisher.
August 2014	Mesoamerican Reef Expedition, Expedition Leader and principal marine scientific research permit holder, <i>E/V Nautilus</i> .
July 2014	<i>U-166</i> and <i>SS Robert E. Lee</i> documentary expedition, Expedition Leader/Archaeologist, <i>E/V Nautilus</i> , Robert Ballard/National Geographic.
June 2014	ECOGIG expedition, Expedition Leader, <i>E/V Nautilus</i> , Chief Scientist Chuck Fisher.
August 2013	Eastern Aegean AUV survey, Director/Chief Scientist and principle marine scientific research permit holder.
July 2013	Redbird Reef AUV survey, Scientist, <i>R/V Sharp</i> , Art Trembanis.
July 2013	Monterrey shipwreck excavation, Gulf of Mexico, Expedition Leader/Archaeologist, <i>E/V Nautilus</i> , Chief Scientist James Delgado.
June 2013	ECOGIG Gulf of Mexico deep corals, Expedition Leader, <i>E/V Nautilus</i> , Chief Scientist Erik Cordes.
September 2012	Eastern Aegean Expedition, on-shore Chief Scientist/Doctor on Call.
August 2012	Anaximander Mountains Expedition, Expedition Leader and principal marine scientific research permit holder, <i>E/V Nautilus</i> .
July 2012	Black Sea Expedition, Chief Scientist/Expedition Leader and principal marine scientific research permit holder, <i>E/V Nautilus</i> .
October 2011	Western Mediterranean Expedition, Watch Leader/Scientist, <i>E/V Nautilus</i> .
August 2011	Eastern Aegean Expedition, Expedition Leader/Co-Chief Scientist and principal marine scientific research permit holder, <i>E/V Nautilus</i> .
July 2011	Black Sea Expedition, Chief Scientist and principal marine scientific research permit holder, <i>E/V Nautilus</i> .
July 2010	Eastern Aegean Expedition, Chief Scientist/Expedition Leader.

June 2010 North Aegean/Gallipoli Expedition, Chief Scientist, *E/V Nautilus*.  
August 2009 Eastern Aegean Expedition, Watch Leader/Navigator/Data, *E/V Nautilus*.  
August 2009 Gallipoli Expedition, Scientist/Navigator/Data, *E/V Nautilus*.  
October 2008 Eastern Aegean Expedition, Scientist/Data Manager/Navigator.  
September 2008 Black Sea Expedition, Scientist/Data Management, *USNS Pathfinder*.  
July-September 2007 Black Sea Expedition, Scientist/Data Management, *R/V Alliance*.  
March 2007 Flower Garden Banks Expedition, shore-based Data Management.  
September 2006 Electron Microprobe analysis on hydrothermal deposits from Santorini, Greece. Dr. Haraldur Sigurdsson and Dr. Steven Carey.  
May 2006 Black Sea Expedition, Data Management/Navigator, *R/V Endeavor*.  
April-May 2006 Sea of Crete Expedition, Scientist/Data Management, *R/V Endeavor*.  
Fall 2004 Research assistant, Rock and Core Lab, URI GSO.  
Spring 2003 Water quality data collection, Waquoit Bay, MA and Quahog Bay, ME.  
Spring 2002 Bathymetric mapping of bay, The Lobster Conservancy, Friendship, ME.  
Fall 2000 Scarborough Marsh core analysis for Maine Audobon Society.  
April-May 1997 Student Research Assistant/Argonaut, JASON Project VIII, Yellowstone National Park, Dr. Robert Ballard, April-May 1997.

#### **ARCHAEOLOGY EXPERIENCE**

May 2016 Geologist/Archaeologist, Maax Na Archaeological Project, Belize.  
May-June 2014 Excavation Director, geologist, and field school instructor, Dos Hombres to Gran Cacao (DH2GC) project, Belize.  
May-June 2013 Excavation Director and field school instructor, Dos Hombres to Gran Cacao (DH2GC) project, Belize, Dr. Marisol Cortes-Rincon.  
May-June 2012 Excavation supervisor and field school staff, Maax Na, Belize.  
May-June 2009 Excavation supervisor, Colha, Belize, Dr. Palma Buttles-Valdez.  
March 2008 Excavation supervisor, Maax Na east building; excavator, Spider Cave, Dr. James Brady, Maax Na, Belize.  
August 2007 Scientist/Data Management/Assistant Conservator, Black Sea Expedition, *R/V Alliance*, Dr. Robert Ballard  
June 2007 Specialized Researcher - Geoarchaeology/Field Staff, Rio Bravo excavations, Belize, Dr. Stan Walling.  
March 2006 Survey and mapping, Maax Na, Belize.  
June-July 2005 Excavation supervisor, 2005 field school excavations. Mitrou Archaeological Project, Dr. Aleydis van de Moortel.  
June 2005 Excavation at Medicinal Trail site, Belize, Dr. David Hyde.  
May-June 2005 Excavation supervisor and field school staff, Maax Na, Belize.  
May-June 2004 Excavation/survey supervisor and field school staff, Maax Na, Belize.  
October 2003 Survey and test excavations on Whaleboat Island, Maine, Dr. Leslie Shaw.  
Fall 2003 Excavation supervisor, 19th century residence, Bowdoin College.  
June-July 2003 Excavation supervisor, Paestum, Italy, Dr. James Higginbotham.  
May 2003 Excavation and survey, Maax Na Ballcourt and Bolsa Verde, Belize.  
Fall 2002 Excavation at Bowdoin College 19th century residence, Dr. Leslie Shaw and Dr. Scott MacEachern.  
May-June 2002 Field school - Maax Na Archaeology Project - Rio Bravo Conservation Area, Belize. Directors: Dr. Leslie Shaw and Dr. Eleanor King.

Spring 2001                      GIS and GPS survey of prehistoric archaeological sites on Orr's Island, ME, Dr. Anne Henshaw and Dr. Ed Laine, Bowdoin College.

## TEACHING

- Visiting Assistant Professor, United States Coast Guard Academy, Fall 2016.
  - Courses: Marine Archaeology
- Field School instructor
  - Dos Hombres to Gran Cacao Project, Belize: 2013, 2014
  - Maax Na, Belize: 2004, 2005, 2012
  - Mitrou, Greece: 2005
- TA for Ocean Exploration, OCG110: Robert Ballard, Steve D'Hondt, Chris Roman. University of Rhode Island, Spring 2011.

## OUTREACH

- "Sonars and Shipwrecks" talk to 7th grade, Narragansett Pier Middle School, June 2016
- Lecture at gallery opening, "Protecting Our Underwater Heritage: The Destruction of Archaeological Sites by Commercial Trawlers", Lyman Allyn Art Museum, July 2014.
- Designed and wrote exhibit on ancient shipwrecks and trawling damage for Lyman Allyn Art Museum, Connecticut College, New London, CT, 2014.
- Guest lecturer at Texas A&M University Marine Archaeology class, Feb 2014.
- STEM Role Model live event, JASON Learning, Feb 2014.
- Finalist in 2014 Ocean 180 video challenge for bringing oceanographic research to middle school students.
- Oversaw development of BodrumLive website <[explorationnow.org/bodrum](http://explorationnow.org/bodrum)> for live Twitter, Vine, and Flickr updates from AUV expedition, July-August 2013.
- Keynote Speaker, Marine Technology Society Meeting, URI 12/2011.
- NBC 10 Providence News, live interview, multimedia event from *E/V Nautilus*, 8/9/11.
- STEM Showcase Keynote speaker, New Britain High School, CT, October 2010.
- Guest lecture, Avon Middle School, CT, March 2010.
- Scientist, Immersion Presents live broadcast, Mystic Aquarium, April 2009.

## MEDIA COVERAGE OF RESEARCH

"Historical shipwrecks threatened by bottom trawling" *The Blue Reporters*, 16 May 2016. <http://www.thebluereporters.com/2016/05/16/bottom-trawling-threats-shipwrecks/>

Lubofsky, Evan, 2016. "Trawling Damages Ancient Shipwrecks" *Frontiers in Ecology and the Environment*, May 2016, 14(4): 178. <http://onlinelibrary.wiley.com/doi/10.1002/fee.1273/full>

Conniff, Richard, 2015. "Save Shipwrecks to Save Fish (and Fishing)" *Take Part*, 7 August 2015. <http://www.takepart.com/article/2015/08/07/save-shipwrecks-save-fish-and-fishing>

Wood, Melissa, 2015. "Don't wreck the wrecks" *National Fisherman*, 25 August 2015. <http://www.nationalfisherman.com/blogs/coastlines/5460-don-t-wreck-the-wrecks>

Dorsey, Kristina, 2014. "Ancient shipwrecks, modern damage to historic sites highlighted in Lyman Allyn exhibition" *The Day*, 23 July 2014. <http://www.theday.com/article/20140723/ENT16/307239935>

Pringle Heather, 2013. Troubled waters for ancient shipwrecks. *Science* 340, 802-807.

## **SKILLS**

- Sonars: Kongsberg EM302 30 kHz, Knudsen chirp subbottom profiler 3.5/15 kHz, EdgeTech MP4200 900/600 kHz, Marine Sonic 900/1800 kHz, Benthos 100/400 kHz, Geoswath bathymetric sonar 500 kHz
- Sonar systems: Kongsberg SIS, EdgeTech Discover side-scan, Knudsen sub-bottom, QPS Fledermaus, Qimera, Hypack, QTC Swathview, Triton Isis, SonarWiz
- Computers: Hypack, ArcGIS, GMT, Excel, TurningPoint Technologies, GoogleDocs, Sakai, Adobe
- PADI SCUBA Certification 8/17/1997

## PEER-REVIEWED PUBLICATIONS

- Brennan, Michael L.**, Alexander Konick, Brooke E. Flammang, Lisa Levin, in prep. ROV-based observations of the demersal distribution and behavior of filetail catsharks (*Parmaturus xaniurus*). *Environmental Biology of Fishes*
- Varmer, Ole, **Michael L. Brennan**, Brittany Wright, in prep. Shipwrecked and stripped: The effect of bottom trawling on underwater cultural heritage sites and the legal tools for protection. *International Journal of Marine and Coastal Law*
- Brennan, Michael L.**, Marisol Cortes-Rincon, Robyn L. Dodge, Brett A. Houk, David M. Hyde, Rissa Trachman, Debora C. Trein, Ilya V. Buynevich, Eleanor M. King, Stanley L. Walling, Jr., Fred Valdez, Jr., in revision. Magnetic susceptibility reflects changes in Maya plaster production in northwestern Belize. *Geology*
- Beach, Timothy, Austin Ulmer, Duncan Cook, **Michael L. Brennan**, Sheryl Luzzadder-Beach, Colin Doyle, Sara Eshleman, Samantha Krause, Marisol Cortes-Rincon, Richard Terry, submitted. Geoarchaeology and tropical forest soil catenas of northwestern Belize. *Quaternary International*
- Altuğ, Gülşen, Aydean Saraç, Bekir Ergüner, Bayram Yüksel, Mahmut Ş. Sağıroğlu, Pelin S. Çiftçi Türetken, Sevan Gürün, Samet Kalkan, Gülruh Albayrak, Emre Yörük, **Michael L. Brennan**, submitted. Microbial diversity of metagenomic samples of oxic, suboxic and anoxic sediments of the Black Sea, Turkey. *FEMS Microbiology Ecology*
- Davis, Dan, **Michael L. Brennan**, Andrei Opait, submitted. Ereğli E: A Hellenistic merchant ship in the Black Sea. *American Journal of Archaeology*
- Brennan, Michael L.**, Dan Davis, Robert D. Ballard, Arthur C. Trembanis, J. Ian Vaughn, Jason S. Krumholz, James P. Delgado, Christopher N. Roman, Clara Smart, Katherine L.C. Bell, Muhammet Duman, Carter DuVal, 2016. Quantification of bottom trawl fishing damage to ancient shipwreck sites. *Marine Geology* 371: 82-88.
- Brennan, Michael L.**, Miquel Canals, Dwight F. Coleman, James A. Austin, Jr., David Amblas, 2015. Bathymetric extent of recent trawl damage to the seabed captured by an ROV transect in the Alboran Sea. *Oceanography* 28(4): 8-10, <http://dx.doi.org/10.5670/oceanog.2015.87>.
- Ürkmez, Derya, **Michael L. Brennan**, Murat Sesgin, Levent Bat, 2015. A brief look at the free-living Nematoda of the oxic/anoxic interface with a new genus record (Trefusia) for the Black Sea. *Oceanological and Hydrobiological Studies* 44(4): 539-551.
- Krumholz, J.S. and **M.L. Brennan**, 2015. Fishing for common ground: Investigations of the impact of trawling on ancient shipwreck sites uncovers a potential for management synergy. *Marine Policy* 61: 127-133.
- Talas, Ezgi, Muhammet Duman, Filiz Küçüksezgin, **Michael L. Brennan**, Nicole A. Raineault, 2015. Sedimentology and geochemistry of mud volcanoes in the Anaximander Mountain region. *Marine Pollution Bulletin*, doi:10.1016/j.marpolbul.2015.04.042
- Brennan, Michael L.**, Eleanor M. King, Leslie C. Shaw, Stanley L. Walling, Fred Valdez, Jr., 2013. Preliminary geochemical assessment of limestone resources and stone use at Maya sites in the Three Rivers Region, Belize. *Journal of Archaeological Science* 40: 3178-3192, doi: 10.1016/j.jas.2013.04.005

- Ürkmez, Derya and **Michael L. Brennan**, 2013. A new species of *Halaphanolaimus* (Nematoda: Leptolaimidae) from Southern Black Sea (Turkey). *Zootaxa* 3691: 220-228, doi: 10.11646/zootaxa.3691.2.2.0
- Brennan, Michael L.**, Dan Davis, Chris Roman, Ilya Buynevich, Alexis Catsambis, Meko Kofahl, Derya Ürkmez, J. Ian Vaughn, Maureen Merrigan, Muhammet Duman, 2013. Ocean dynamics and anthropogenic impacts along the southern Black Sea shelf examined by the preservation of pre-modern shipwrecks. *Continental Shelf Research* 53: 89-101, doi:10.1016/j.csr.2012.12.010.
- Brennan, Michael L.**, 2013. High-resolution imaging of the *M/S Dodekanisos* shipwreck site off Deveboynu Burnu, Turkey. *International Journal of Nautical Archaeology* 42(1): 204-208.
- King, Eleanor M., James E. Brady, Leslie C. Shaw, Allan B. Cobb, C.L. Kieffer, **Michael L. Brennan**, Chandra L. Harris, 2012. Small caves and sacred geography: A case study from the Prehispanic Maya site of Maax Na, Belize. *Latin American Antiquity* 23(4): 611-628.
- Brennan, Michael L.**, Robert D. Ballard, Chris Roman, Katherine L. Croff Bell, Bridget Buxton, Dwight F. Coleman, Gabrielle Inglis, Orkan Koyagasioglu, Tufan Turanli, 2012. Evaluation of the modern submarine landscape off southwestern Turkey through the documentation of ancient shipwreck sites. *Continental Shelf Research* 43: 55-70, doi: 10.1016/j.csr.2012.04.017.
- Brennan, Michael L.**, 2011. Geological survey of historical cemeteries, Jamestown, Rhode Island, 1693-1900. *Historical Archaeology* 45(4): 102-114.
- Brennan, Michael L.**, 2009. Ancient shipwreck survey and the modern submarine landscape off Yalikavak, Turkey. *Marine Technology Society Journal* 43(1): 47-49.

#### REFEREED BOOKS

- Brennan, Michael L.** and Dan Davis, in prep. Archaeological Oceanography of the Aegean and Black Seas: Ocean Exploration in Turkey, 2007-2013. Texas A&M University Press.
- Chapter 1. Introduction [lead author with D. Davis]
  - Chapter 16. The Six LRA Shipwrecks of the Early Byzantine Period: Knidos A, C, O, T, Marmaris B, and Ereğli C [lead author with A. Opait]
  - Chapter 19. The Modern Shipwrecks Dodekanisos and Miranda
  - Chapter 26. Quantification of Bottom Trawl Fishing Damage to Ancient Shipwrecks
  - Chapter 30. Effects of Conger Eel (*Conger conger*) Bioturbation on Ancient Shipwreck Site Formation
  - Chapter 33. Preservation of Premodern Shipwrecks in the Suboxic Zone of the Black Sea

#### REFEREED BOOK CHAPTERS

- Brennan, Michael L.**, in prep. Geomorphology and site formation processes of three 19th century shipwrecks in the Gulf of Mexico. In *The Monterrey Shipwrecks: Deep Water*

Archaeology and Three Wrecks from the Early Nineteenth Century. Texas A&M University Press.

**Brennan, Michael L.**, 2016. Quantifying impacts of trawling to shipwrecks. In Keith, Matthew E., ed., *Site Formation Processes of Submerged Shipwrecks*. University Press of Florida, p. 157-178.

**Brennan, Michael L.** and Robert D. Ballard, 2014. *Archaeological Oceanography*. In *Encyclopedia of Natural Resources*; Wang, Y.Q., Editor; Taylor & Francis, New York, pp. 604-608, doi:10.1081/E-ENRW-120047573.

**Brennan, M.L.**, Ballard, R.D., Croff Bell, K.L., and Piechota, D., 2011. *Archaeological oceanography and environmental characterization of shipwrecks in the Black Sea*, in Buynevich, I., Yanko-Hombach, V., Gilbert, A., and Martin, R.E., eds., *Geology and Geoarchaeology of the Black Sea Region: Beyond the Flood Hypothesis*. Geological Society of America Special Paper 473, p. 179-188, doi:10.1130/2011.2473(11).

### INVITED TALKS

**Brennan, Michael L.**, 2015. Quantification of trawl damage to premodern shipwreck sites: Case studies from the Aegean and Black Seas. Presented in a workshop on Underwater Cultural Heritage at the 2015 AIA Meetings, Washington, D.C.

**Brennan, Michael L.**, 2011. Quantification of trawl damage to premodern shipwreck sites: Case studies from the Aegean and Black Seas. Paper presented at the 2011 UNESCO Scientific Colloquium and Intergovernmental Meeting for Europe on the Protection of the Underwater Cultural Heritage, Royal Library of Belgium, Brussels.

### OTHER PUBLICATIONS

**Brennan, Michael L.**, in prep. Petrographic examination of Late Classic utilitarian ceramics from Maax Na and Bolsa Verde. In: *Maax Na: Cooperation and Competition in the Three Rivers Region of Belize*, eds. Leslie C. Shaw and Eleanor M. King. Occasional Papers, No. #, Mesoamerican Archaeological Research Laboratory, The University of Texas, Austin.

**Brennan, Michael L.**, in prep. Geochemical and geophysical characterization of limestone variability at Maax Na, Belize. In: *Maax Na: Cooperation and Competition in the Three Rivers Region of Belize*, eds. Leslie C. Shaw and Eleanor M. King. Occasional Papers, No. #, Mesoamerican Archaeological Research Laboratory, The University of Texas, Austin.

Cortes-Rincon, Marisol, Sarah Nicole Boudreaux, Erik Marinkovitch, **Michael Brennan**, 2014. Household and elite labor investments at the Dos Hombres to Gran Cacao Archaeology Project. *Research Reports in Belizean Archaeology: Papers of the 2012 Belize Archaeology and Anthropology Symposium*, eds. Jaime Awe and John Morris. Institute of Archaeology, Belize.

**Brennan, Michael L.** 2012. Application of low-field magnetic susceptibility to plaster floors in excavation profiles at Maya sites in the Three Rivers Region, Belize. University of Texas at Austin. Mesoamerican Archaeology Research Laboratory Occasional Papers.



- Coleman, Dwight, Chris Roman, **Michael Brennan**, Clara Smart, 2012. Nautilus Exploration Program - high-resolution robotic mapping of deep-sea sites. *The Australian Geologist* 165: 29-32.
- Ürkmez, D. and **M.L. Brennan**, 2012. First Insights into the Meiobenthic Nematodes of Oxic-Suboxic-Anoxic Transition Zones in the Turkish Black Sea (Sinop Peninsula). 31st International Symposium of the European Society of Nematologists, Turkey, Adana, 23-27 September.
- Brennan, Michael L.**, 2011. Quantification of trawl damage to premodern shipwreck sites: Case studies in the Aegean and Black Sea. UNESCO Scientific Colloquium on Factors Impacting the Underwater Cultural Heritage. <[http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/CLT/pdf/UCH\\_S2\\_Brennan.pdf](http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/CLT/pdf/UCH_S2_Brennan.pdf)>.
- Brennan, Michael L.**, 2010. The disarticulation of ancient shipwreck sites by mobile fishing gear: A case study from the southeast Aegean Sea. *INA Quarterly* 36(4): 6-7.
- Piechota, D., R.D. Ballard, B. Buxton, **M. Brennan**, 2010. *In situ* preservation of a deep-sea wreck site: Sinop D in the Black Sea. Conservation and the Eastern Mediterranean: Contributions to the 2010 IIC Congress, Istanbul, p. 6-11.
- Brennan, Michael L.**, Dennis Piechota, Katherine Croff, Robert Ballard, Sergiy Voronov, 2007. Geoarchaeology and environmental monitoring of two Byzantine shipwrecks in the Black Sea. *Geological Society of America Abstracts with Programs* 39(6): 430.

#### **E/V NAUTILUS PUBLICATIONS**

- Bell, K.L.C., **M.L. Brennan**, J. Flanders, N.A. Raineault, K. Walsh, eds. 2016. New frontiers in ocean exploration: The E/V *Nautilus* 2015 field season. *Oceanography* 29(1), supplement, 84 pp, [http://tos.org/oceanography/archive/29-1\\_supp.html](http://tos.org/oceanography/archive/29-1_supp.html)
- Licklitter-Mundon, Megan, **Michael L. Brennan**, Clara Smart, Bruce G. Terrell, Robert V. Schwemmer, Alexis Catsambis, 2016. High-resolution imaging and characterization of the USS *Macon* airship wreck site. *Oceanography* 29(1), supplement, pp. 48-49.
- Levin, Lisa, Peter R. Girguis, Christopher R. German, **Michael L. Brennan**, Suna Tüzün, Jamie Wagner, Clara Smart, Avery Kruger, Katherine Inderbitzen, Jennifer Le, Melinda Martinez, Catalina Martinez, Ellen Kappel, Natalya Gallo, Benjamin M. Grupe, 2016. Exploration and discovery of methane seeps and associated communities in the California Borderland. *Oceanography* 29(1), supplement, pp. 44-47.
- Bell, K.L.C., **M.L. Brennan**, N.A. Raineault, eds. 2015. New frontiers in ocean exploration: The E/V *Nautilus* 2014 field season. *Oceanography* 28(1), supplement, 64 pp, [http://tos.org/oceanography/archive/28-1\\_supp.html](http://tos.org/oceanography/archive/28-1_supp.html)
- Brennan, Michael L.**, Katherine L.C. Bell, Clara Smart, J. Ian Vaughn, Robert D. Ballard, 2015. Documenting WWII shipwrecks in the Gulf. *Oceanography* 28(1), supplement, pp. 30-31.
- Etnoyer, Peter J., **Michael L. Brennan**, Daniel Finamore, Steven Hammond, Marsha Vargas, Xavier Janson, Suna Tuzun, Jamie Wagner, Danielle Ferraro, Will Snyder. Exploration and mapping of the deep Mesoamerican Reef. *Oceanography* 28(1), supplement, 34-35.
- Brennan, Michael L.** and Dan Davis, 2015. A symposium on archaeological oceanography in the Mediterranean and Black Sea. *Oceanography* 28(1), supplement, 44-45.

- Bell, Katherine L.C., **Michael L. Brennan**, Nicole A. Raineault, Christopher German, James P. Delgado, Emil Petruncio, Stephen Hammond, Dwight Coleman, Steven Carey, Marry Mayer, Robert D. Ballard. Workshop on telepresence-enabled exploration of the Eastern Pacific Ocean. *Oceanography* 28(1), supplement, 46-47.
- Bell, K.L.C., **M.L. Brennan**, N.A. Raineault, eds. 2014. New frontiers in ocean exploration: The E/V *Nautilus* 2013 field season. *Oceanography* 27(1), supplement, 64 pp, [http://tos.org/oceanography/archive/27-1\\_supp.html](http://tos.org/oceanography/archive/27-1_supp.html)
- Brennan, Michael L.**, Arthur C. Trembanis, Dan Davis, Allison Fundis, Val Schmidt, Carter DuVal, W. Benjamin Ballard, Kelsey Cornwell, Daniel Faas, 2014. A portable, education-focused approach to ocean exploration and acoustic surveys in the Aegean Sea. *Oceanography* 27(1), supplement, pp. 42-43.
- Irion, Jack, Frank Cantelas, James Delgado, Amy Borgens, Frederick Hanselmann, Christopher Horrell, William Kiene, Steve Gittings, **Michael L. Brennan**, Alicia Caporaso, 2014. The Monterrey Wrecks: Characterization of three early 19th century shipwrecks in the Gulf of Mexico. *Oceanography* 27(1), supplement, pp. 30-31.
- Bell, K.L.C., and **M.L. Brennan**, eds. 2013. New frontiers in ocean exploration: The E/V *Nautilus* 2012 field season and summary of Mediterranean exploration. *Oceanography* 26(1), supplement, 64 pp, [http://tos.org/oceanography/archive/26-1\\_supp.html](http://tos.org/oceanography/archive/26-1_supp.html)
- Brennan, Michael L.** and Robert D. Ballard, 2013. Deep-water ancient shipwrecks of the Mediterranean, Aegean, and Black Seas: 1988-2012. *Oceanography* 26(1), supplement, p. 22-25.
- Brennan, Michael L.**, Dennis Piechota, Jane Drake Piechota, Jeff Emerson, 2013. Environmental characterization of oxic/anoxic transition zone in the Black Sea. *Oceanography* 26(1), supplement, p. 26-27.
- Bell, Katherine L.C., **Michael L. Brennan**, Peter Girguis, James A. Austin, Steven Carey, Dwight Coleman, Larry Mayer, Robert D. Ballard, 2013. Workshop on telepresence-enabled exploration of the Caribbean region. *Oceanography* 26(1), supplement, p. 50-55.
- Brennan, Michael L.**, Dan Davis, Chris Roman, Ilya V. Buynevich, Alexis Catsambis, Meko Kofahl, Maureen Merrigan, Suna Tuzun, Muhammet Duman, Derya Ürkmez, Tufan Turanli, 2012. Coastal exploration of the southern Black Sea off Eregli and Sinop, Turkey. *Oceanography* 25(1), supplement, p. 26-27.
- Brennan, Michael L.**, Robert D. Ballard, Muhammet Duman, Suna Tuzun, Gabrielle Inglis, Tufan Turanli, 2012. Continued documentation of the coastal landscape off the Datca peninsula, Turkey. *Oceanography* 25(1), supplement, p. 28-29.
- Coleman, Dwight, James A. Austin, Jr., Miquel Canals, David Amblas, Joan B. Company, **Michael L. Brennan**, 2012. *Nautilus* explores the western Mediterranean. *Oceanography* 25(1), supplement, p. 36-37.
- Brennan, Michael L.**, Tufan Turanli, Bridget Buxton, Katherine L. Croff Bell, Christopher N. Roman, Meko Kofahl, Orkan Koyagasioglu, Daniel Whitesell, Thomas Chamberlain, Richard Sullivan, Robert Ballard, 2011. Landscape imaging of the southeast Aegean Sea. *Oceanography* 24(1), supplement, p. 18-19.
- Brennan, Michael L.**, Dwight Coleman, Christopher N. Roman, Tufan Turanli, Dan Davis, Alexis Catsambis, James Moore, Maureen Merrigan, Brennan Bajdek, Daniel Whitesell,

Robert Ballard, 2011. Maritime history of ANZAC Cove. *Oceanography* 24(1), supplement, p. 20-21.

Bell, Katherine L. Croff, **Michael L. Brennan**, Ilya Buynevich, Art Trembanis, Dwight Coleman, Bridget Buxton, Dennis Piechota, Dan Davis, Alexis Catsambis, Kathleen Cantner, Serhiy Voronov, Robert Ballard, 2011. Maritime history of the Crimean continental shelf. *Oceanography* 24(1), supplement, p. 34-35.

## PRESENTATIONS

Legg, Mark R., Marie-Helene Cormier, **Michael Brennan**, Katy Croff Bell, Dwight Coleman, 2016. Seafloor expression of active transpressional faulting offshore southern California. Paper presented at AGU.

Janson, Xavier, Gregory Hurd, Nathan Tinker, Charles Kerans, Peter Etnoyer, **Michael Brennan**, 2016. Morphometric of carbonate canyons, gullies and channels from recent to ancient. Paper presented at the Dolomieu Conference on Carbonate Platforms and Dolomite.

Ürkmez, Derya, Nicole Raineault, **Michael L. Brennan**, Murat Sezgin, 2016. Deep-sea meiofaunal community structure of the Amsterdam mud volcano (Eastern Mediterranean, Anaximander Mountains). Paper presented at Meioscool2016, Best, France.

**Brennan, Michael L.**, Megan Lickliter-Mundon, Bruce Terrell, 2016. High-resolution 2D and 3D imaging of the USS Macon wreck site. Paper presented at the 2016 SHA Meetings, Washington, D.C.

Cantelas, Frank, Amy A. Borgens, **Michael L. Brennan**, James P. Delgado, Christopher Dostal, Frederick Hanselmann, Christopher E. Horrell, Jack Irion, 2016. The Monterrey Shipwrecks: Current Research Findings. Paper presented at the 2016 SHA Meetings, Washington, D.C.

Levin, Lisa, Pete Girguis, **Mike Brennan**, Jennifer Le, Ben Grupe, Natalya Gallo, 2016. Telepresenting secrets from the deep southern California margin. Paper presented at the 2016 Ocean Sciences meetings, New Orleans, LA.

**Brennan, Michael L.**, J. Ian Vaughn, Amy A. Borgens, James P. Delgado, Christopher E. Horrell, Frederick H. Hanselmann, Jack B. Irion, Frank Cantelas, 2015. Geomorphology and site formation processes of three 19th century shipwrecks in the Gulf of Mexico. Paper presented at the 2015 SHA Meetings, Seattle, WA.

Delgado, James P., Jack Irion, Frank Cantelas, Frederick Hanselmann, Christopher Horrell, Amy Borgens, Susan Langley, **Michael Brennan**, 2015. Copper-clad ghost: The Monterrey A Shipwreck. Paper presented at the 2015 SHA Meetings, Seattle, WA.

Altuğ, Gülşen, Aydan Saraç, Bekir Ergüner, Betül Yüçeturk, Bayram Yüksel, Mahmut Şamil Sağıroğlu, Gülruh Albayrak, Emre Yörük, Pelin S. Çiftçi Türetken, Sevan Gürün, Samet Kalkan, and **Michael L. Brennan**, 2014. Black Sea microbiology and results from Nautilus sampling: The microbial diversity of metagenomic samples of sediments at oxic, anoxic and suboxic zones. Paper presented at the Symposium on Archaeological Oceanography in the Mediterranean and Black Sea, Bodrum, Turkey.

**Brennan, Michael L.**, 2014. Quantification of trawl damage to premodern shipwreck sites: Case studies from the Aegean and Black Seas. Paper presented at the Symposium on Archaeological Oceanography in the Mediterranean and Black Sea, Bodrum, Turkey.

- Brennan, Michael L.**, Meko Kofahl, Andrei Opaït, 2014. The Late Roman Amphora 1 Wrecks: Knidos A, C, T, and Marmaris B. Paper presented at the Symposium on Archaeological Oceanography in the Mediterranean and Black Sea, Bodrum, Turkey.
- Davis, Dan, **Michael L. Brennan**, Alexis Catsambis, and Andrei Opaït, 2014. The Ereğli E Shipwreck: An International Merchant Ship of the Early Hellenistic Period. Paper presented at the Symposium on Archaeological Oceanography in the Mediterranean and Black Sea, Bodrum, Turkey.
- Trembanis, A., **M. Brennan**, D. Davis, A. Fundis, V. Schmidt, C. DuVal, W. Ballard, K. Cornwell, D. Faas, M. Duman, T. Turanlı, and R. Ballard, 2014. The Bodrum Live 2013 Expedition - A model for robotic based experiential exploration. Paper presented at the Symposium on Archaeological Oceanography in the Mediterranean and Black Sea, Bodrum, Turkey.
- Brennan, Michael L.**, 2014. Regional limestone geochemistry study of Maya stone resources in the Three Rivers Region, Belize. Paper presented at the 2014 SAA Meetings, Austin, TX.
- Hanselmann, Frederick, Christopher Horrell, Amy Borgens, **Michael L. Brennan**, 2014. The Monterrey Shipwreck Project: Initial Concept and Historical Context. Paper presented at the 2014 SAA Meetings, Austin, TX.
- Horrell, Christopher, Amy Borgens, **Michael L. Brennan**, Frederick Hanselmann, 2014. The Monterrey Shipwreck Project: Research Design and Methodology. Paper presented at the 2014 SAA Meetings, Austin, TX.
- Borgens, Amy, **Michael L. Brennan**, Christopher Horrell, Frederick Hanselmann, 2014. The Monterrey Shipwreck Project: Preliminary Results. Paper presented at the 2014 SAA Meetings, Austin, TX.
- Brennan, Michael L.**, 2013. Application of low-field magnetic susceptibility to plaster floors in excavation profiles at Maya sites in the Three Rivers Region, Belize. Paper presented at the 2013 SAA Meetings, Honolulu.
- Brennan, Michael L.**, Eleanor M. King, Leslie C. Shaw, 2012. Preliminary geochemical assessment of limestone resources and stone use at the Maya site of Maax Na, northwestern Belize. Poster presented at the 2012 SAA Meetings, Memphis.
- Bell, Katherine L. Croff, Robert D. Ballard, Dwight F. Coleman, Chris N. Roman, **Michael L. Brennan**, 2012. New Frontiers in Ocean Exploration: The E/V Nautilus Exploration Program. Poster presented at the Ocean Sciences meeting, Salt Lake City.
- Bell, Katherine L. Croff, Robert D. Ballard, Dwight F. Coleman, Chris N. Roman, **Michael L. Brennan**, Tufan Turanlı, Muhammet Duman, Steven N. Carey, Paraskevi Nomikou, Michael Marani, Mauro Rosi, James Austin, Miquel Canals, Jeff Karson, Larry Mayer, Yizhaq Makovsky, 2011. New Frontiers in Ocean Exploration: The 2011 E/V NAUTILUS Field Season. Paper presented at the 2011 AGU Ocean Science Meeting.
- Bell, Katherine L. Croff, Robert D. Ballard, Dwight F. Coleman, Chris N. Roman, Brennan T. Phillips, **Michael L. Brennan**, Tufan Turanlı, Steven N. Carey, Paraskevi Nomikou, Georges Vougioukalakis, Larry Mayer, Stelios Nicolaidis, Kostas Konnaris, Timothy Shank, James Austin, and Zvi Ben-Avraham, 2010. New Frontiers in Ocean Exploration: The 2010 E/V NAUTILUS Field Season. Paper presented at the 2010 AGU Ocean Science Meeting.

Piechota, Dennis, Robert D. Ballard, Bridget Buxton, **Michael L. Brennan**, 2010. The preservation of Sinop D: A wreck site in the deep Black Sea. Paper presented at the 2010 Istanbul Conservation Congress.

**Brennan, Michael L.**, 2008. Stone and space: Constructed environments for water rituals in the Maya Lowlands. Paper presented at the 2008 URI Graduate Student Conference, University of Rhode Island.

Ballard, Robert, Bridget Buxton, **Michael Brennan**, Dwight Coleman, Katherine Croff, Dan Davis, Dennis Piechota, Sergiy Voronov, 2008. Byzantium beneath the Black Sea: The deepwater investigation of two Byzantine shipwrecks. Poster presented at the 2008 Meeting of the Archaeological Institute of America, Chicago.

### **THESIS**

**Brennan, Michael Lee**, 2012. Cultural sites as platforms for environmental characterization of marine landscapes. Ph.D. Dissertation. Graduate School of Oceanography, University of Rhode Island.

**Brennan, Michael Lee**, 2004. Petrographic evidence for preclassic ceramic specialization at the Maya site of Colha, Belize. Senior Honors Thesis. Bowdoin College.