

GARY C. KESSLER

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Experience in SCUBA diving and boating in a large variety of waters and conditions for purposes of recreation, training/education, rescue, marine archaeology, light commercial work, SCUBA and fishing charters, passenger/bike ferry operations, boat relocation, and eco-tours. Research interest in maritime cybersecurity and cyberdefense.

SCUBA CERTIFICATIONS AND MARITIME (AND OTHER) LICENSURE

- L.A. County Parks & Recreation, SCUBA Diver (1967)
- PADI Master SCUBA Diver Trainer (#250556)
 - *Instructor Specialties include:* AWARE - Coral Reef Conservation, Boat Diver, Deep Diver, Emergency First Response (EFR), Emergency Oxygen Provider, Enriched Air Diver, Heritage Awareness Diver, Introductory Course in Underwater Archaeology (*Maritime Archaeological & Historical Society*), Night Diver, Technical Diving Tec Gas Blender, Underwater Naturalist, Underwater Navigator, Wreck Detective (*Nautical Archaeological Society*), Wreck Diver, and Wrecks of Lake Champlain [author]
- USCG Merchant Mariner Credential -- 50 GT, Master; Tow Assist
- FAA Part 107 Small Unmanned Aircraft System (sUAS) Remote Pilot Certificate

RELATED EMPLOYMENT (References available upon request)

- Victory Sports (Colchester, VT), SCUBA instructor, 2009-2014.
- Discover Diving Dive Center (Port Orange, FL), SCUBA Instructor and EAN gas blender, 2012-present.
- SCUBAtyme Dive Charter (Burlington, VT), Captain, summer 2013.
- Local Motion (Burlington, VT), Island Line Bike Ferry captain; diver for mooring inspection, repair, and replacement; wrote emergency drill procedures, crew training, and other documents for T-boat operation; and performed general boat preparation and maintenance; May-August, 2013 and May-August, 2014.
- Marine Discovery Center (New Smyrna Beach, FL), Eco-tour/eco-camp boat captain, May 2015-present.
- American Marine University (Sarasota, FL), Adjunct Faculty member (developed and teach Maritime Cybersecurity course), May 2018-present.
- Freedom Boat Club (Daytona Beach, FL), Captain (new member training), May 2018-present.

OTHER RELATED EXPERIENCE AND TRAINING

- Colchester Rescue Squad (Colchester, VT), 1978-1981, 1984-1998, 2002-2005.
 - Ass't. Chief, 1986; Chief, 1987-1997; Crew Captain, 2002-2004.
- Vermont Emergency Medical Technician (EMT), 1979-2006.
- Colchester Rescue Dive Team, 1991-1998.
- Maritime Archaeological and Historical Society (MAHS) field school, June 2016.
 - Pickles Reef, Key Largo, FL (Barrel wreck)
- Volunteer diver, St. Augustine Lighthouse Archaeological Maritime Program (LAMP), 2017-present.
- U.S. Coast Guard Auxiliary, Division 7, Flotilla 44, Daytona Beach, 2017-present.
- Member of advisory board, Maritime & Port Security Information Sharing & Analysis Organization (MPS-ISA), 2017-present.

RELATED PUBLICATIONS

- "Understanding and Applying Decompression Dive Tables," online tutorial (2007, 2013), <https://www.garykessler.net/tutorial/index.html>
- *A Short Course on Nautical Charts and Basic Plotting for the Recreational Boater* (2013-2018), https://www.garykessler.net/scuba/library/Charts_Navigation.pdf
- Author of PADI *Wrecks of Lake Champlain* Distinctive Dive Specialty Course, 2013
- Kessler, G.C. (2016, Fall). The Wrecks of Lake Champlain. *MAHSnews*, the Newsletter of the Maritime Archaeological and Historical Society, 27(2), 5-8. Retrieved from https://www.garykessler.net/scuba/library/WOLC_MAHS_2016%20Fall.pdf
- Kessler, G.C. (2017, November 8). Web Site Security for Seaports and Shipping Lines. *The Maritime Executive Online*. Retrieved from <https://www.maritime-executive.com/editorials/web-site-security-for-seaports-and-shipping-lines>
- Kessler, G.C. (In press). Cybersecurity in the Maritime Domain. *USCG Proceedings of the Marine Safety & Security Council*.

ORGANIZATIONAL MEMBERSHIPS

- Maritime Archaeological and Historical Society (MAHS)
- Professional Association of Dive Instructors (PADI)

EDUCATION

- B.A., Mathematics, , Humboldt State University (Arcata, CA), 1975
- M.S., Computer Science, University of Vermont (Burlington, VT), 1980
- Ph.D., Computing Technology in Education, Nova Southeastern University (Ft. Lauderdale, FL), 2010

RECENT EMPLOYMENT HISTORY

- Professor of Cybersecurity and Department Chair, Security Studies & International Affairs Dept., Embry-Riddle Aeronautical University, Daytona Beach, FL; August 2012-present.