

## APPOINTMENTS

- x 1998–Present. Senior Research Faculty Ocean Engineering, University of South Florida College of Marine Science, St. Petersburg, FL Coastal Ocean Monitoring and Prediction System (COMPS) Program <http://comps.marine.usf.edu> and High Frequency Radar (HFR) Operations Director
- x 2012–Present. Elected 4-term City Commissioner (Vice Mayor), City of Safety Harbor, FL Elected 2012 -2021. Policy and budget decisions for 100+ residents and ~ \$4 million budget
- x 2003–Present. Founder and President of Dialytics, Inc., Safety Harbor, FL. A small business technology company focused on water/food/energy nexus solutions. Website: [www.dialytics.com](http://www.dialytics.com).
- x 1988–1998. Assistant Technical Director ManTech Advanced Systems International, Incorporated/Applied Measurement Systems International (AMSII) Hollywood, FL Underwater acoustic analysis and sea testing of Naval towed array active and passive sonar systems.
- x 1986 -1988. Senior Analytical Engineer, Pratt Whitney (PW), Mature Engines Group West Palm Beach, FL. Structural analysis of rotational and static aircraft engine hardware.
- x 1984- 1986 General Dynamics Corporation/Electric Boat Division, Naval Architecture Group Ocean Engineer-Groton, Ct. Submarine hydrodynamics, hydrostatics, and hydroacoustics.

## RESEARCH ACTIVITIES

- x Author and investigator (Principal [PI] and Co-PI) of competitive research grants and fundraising events conducted during academia and the private sector totaling \$1M (\$2.34M as Lead PI):
- 9 [1] PI -National Science Foundation (NSF) Innovation Corps (CORPS) 2022 USF Site grant - \$3,000
- 9 [1] PI- National Academy of Science, Engineering, and Medicine (NAASEM) - \$1,371,027
- 9 [1] Co-PI– ONR Defense University Research Instrumentation (DURIP) Program - \$150,000
- 9 [4] PI -Florida's Emergency Management & Preparedness Trust Fund [EMPTF] - \$664,826
- 9 [12] PI and Co-PI- NOAA/SECOORA/IOS Grants for COMPS HF Radar Stations - \$1,342,076
- 9 [9] PI and Co-PI NOAA/SECOORA/IOS Grant for COMPS Coastal Tidal Weather Stations - \$430,701
- 9 [4] PI-

- x Presenter(2019): 25<sup>th</sup> North American Diatom Symposium (NADS) held at the University of Georgia's Rock Eagle Center in Eatonton, Georgia from July 31-August 4, 2019. Presentation entitled: Bubble Farming: Scalable Microcosms for Diatom Biofuel Production.
- x Invited Speaker(2017): Pinellas County Economic Leadership Symposium. Workforce panel: Preparing for the future.
- x Large Scale Algal Cultivation, Harvesting and Downstream Processing (2017) 28.24.055 0 Tdt7 ( P)9.9 - (a)12.1

- x Gordon, R., Merz, C.R., Gurke, S. and Schoeninger, B. Bubble farming: Scalable microcosms for diatom biofuel and the next Green Revolution. Chapter 22 of *Diatoms: Fundamentals & Applications* [DIFA, Volume 1 in the series: Diatoms: Biology & Applications, series editors: Richard Gordon &

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- x Merz, C.R., May 1997. Nautronix 23 Channel Vertical Line Array Factory Acceptance Test and NUWC/LEFAC Calibration Summary Test Report, AMSI, Hollywood, FL, 969.TM
- x Hepp, J. S. and Merz, C.R., March 1997. Nautronix 23 Channel Measurement Array Factory Acceptance Test Plan, AMSI, Hollywood, FL, 968P
- x Merz, C.R., March 1997. T23/BQ Long HF November 96 LPO Test Result Summary - Follow-on Investigation, Letter 597:15 CRM to Mr. Frank Rubin dated 18 March 1997, (Confidential).
- x Merz, C.R., January 1997. High Frequency Array 2 Channel Test Module NUWC/LEFAC Calibration Quick Look Test Report, AMSI, Hollywood, FL, 959M
- x Merz, C.R., January 1997. High Frequency Array 2 Channel Test Module Calibration Test Plan, AMSI, Hollywood, FL, 955.
- x Merz, C.R., January 1997. T23/BQ Long HF November 96 LPO Test Result Summary, Letter 597:01: CRM to Mr. Frank Rubin dated 13 January 1997, (Confidential).
- x Safford, R. E, Hauptman, R. O., Merz, C.R., Greenberg, S., August 1996.-T23/BQ (SN 003) LPO Tow Test Report, October 1995 (U), NUWC, New London, CT, TM No 951129 (Confidential).
- x Merz, C.R. and Scarlatos, P. D., June 1996. Sedimentation Dynamics of Tidal Inlets, *Paper presented on June 28, 1996 at The American Society of Engineers, North American Water and Environment Congress 96*, Anaheim, CA, App-4377-4382. ASCE, 978-084401668 or 078440166-7.
- x Guarun 16784438.582 038..8.580-

- x Merz, C.R., February 1992. AMFIP Towed Array Measurement System Towcable Trip Report Meetings Held at Brantner and Associates, The Consolidated Products Corporation, Tension Member Technology, and Sonatech, Inc., AMSI, Hollywood, FL, ~~517~~9.R-
- x Merz, C.R., February 1992. AMFIP Towed Array Measurement System (ATAMS) Pend Oreille Test Module Towing Profile, AMSI, Hollywood, FL, ~~578~~1-
- x Merz, C.R., November 1991. LSV Analytical Study of a Precipitate Found on an Insulated Accelerometer Mounting Stud, AMSI, Hollywood, FL, ~~555~~1
- x Merz, C.R., October 1991. ATAMS USSNS HAYES Winch Modification Criteria and Electrical/Optical Slip Ring Operation and Installation, AMSI, Hollywood, FL, ~~542~~1M
- x Merz, C.R., September 1991. AMFIP Towed Array Measurement Systems (ATAMS) TTUMS Towcable Design Evaluation, AMSI, Hollywood, FL, ~~571~~1M.
- x Merz, C.R., July 1991. AMFIP Towed Array Measurement System (ATAMS) Beacon/WQC Conceptual Design, AMSI, Hollywood, FL, ~~583~~1.
- x Merz, C.R., June 1991. Electro/Optical Tow Cable Report, AMSI, Hollywood, FL, ~~527~~1M
- x Merz, C.R., May 1991. The ATAMS System Wide Factor of Safety of 2.0 and Its Impact on the ATAMS Tow Cable Design at Survival Towing Speed, AMSI, Hollywood, FL, ~~524~~1.M
- x Merz, C.R., April 1991. ATAMS Electro/Optical Tow Cable Functional Design Report, AMSI, ~~581~~1M