Kevin P. Bowen
Chief Engineer/Engineering Fellow

Experience Summary

Mr. Bowen retired from Raytheon Corporation as Chief Engineer for Maritime Vehicle Technology Development and has performed Systems Engineering development on manned and unmanned Surface and Undersea Vehicles for 30 years. He has held lead technical and management positions in the development of Riverine Combat Craft C4ISR, Autonomous Unmanned Surface Vehicles, Diver Detection Interdiction Systems, External Combustion Engines, Renewable Energy Systems, Large Scale Vehicle, MK 30 ASW Training Target System, proprietary UUV's and Submarine Payloads & Sensors**.** He has been a major contributor to the US Navy and Japanese Deep Submergence Rescue Vehicles design, operation, test and evaluation.

Relevant Experience

Engineering Fellow, Raytheon Integrated Defense Systems (1995-Present)

Kevin is Program Manager for Unmanned Surface Vehicle Technology Development and Diver Detection/ Intervention for Port Security. He is also Chief Engineer for UUV Propulsion Systems and Riverine Craft Combat System Architectures. Kevin was Technical Lead for Unmanned Underwater Vehicles (UUV's) and Lead Systems Engineer on the MK 30 ASW Training Target System**.**

Manager of the Systems Engineering Group, Applied Remote Technology (1990-1995)

Kevin was Technical Director for a proprietary UUV program at Applied Remote Technology. Mr. Bowen was responsible for design, production and test phases of the project. He directed the requirements development, alternatives selection, design definition, and validation for the project. Kevin was a Systems Engineering SME for the General Dynamics Electric Boat Advanced Seal Delivery System proposal.

Senior Field Engineer, Sperry Systems Management Division (1974-1990)

Mr. Bowen developed Japanese DSRV program sonar equipment specifications, installation, test, modification and acceptance procedures and taught a Japanese language course in theory and operation of sonar systems. Mr. Bowen worked on DSRV Mystic and Avalon navigation, ship control, sonar, television, communications, and side looking sonar systems. He was a Field Engineer responsible for Ship's Inertial Navigation Systems on board the USNS Bowditch Oceanographic Survey Ship.

Professional Societies

Association for Unmanned Vehicle Systems International (AUVSI)
ASTM Maritime Vehicle Standards Committee, Vice Chairman USV Maritime Regulations
Member South West Innovation Cluster
Member San Diego State University Advanced Defense Technology Cluster

Education
- M.S., Computer Science, University of Massachusetts, Dartmouth 2003
- M.S., Electrical Engineering, University of Hawaii, 1974
- B.S., Engineering Science, SUNY at Stony Brook, 1969

Publications:
- Raytheon and Cyclone Power technologies Partner to Develop External Combustion Engines for Military and Civilian Applications, Kevin P. Bowen, Raytheon Technology Today, March 2011.
- R&D in the Unmanned Undersea Vehicle Industry, Kevin P. Bowen, Pacific Northwest Defense Symposium Harborside Conference Center, Bremerton, WA, 8/12/2010
- Long Endurance Air-Independent Undersea Power System, Kevin P. Bowen, High Energy Density Systems Technology Roadmap 2010-2030 Naval Surface Warfare Center, Crane, Indiana, 7/12/2010
- Optimizing Genetic Algorithms to Train Fully Connected, Fixed Feedforward Neural Networks, Intelligent Engineering Systems Through Artificial Neural Networks Volume 13 pps 391-396, University of Missouri-Rolla, 2003
- A Study on the Use of Unmanned Surface Vehicles for Integrated Mine Countermeasures in Littoral Amphibious Warfare, Dr. Douglas Todoroff, Office of Naval Research, Contract Number: N00014-99-C-0077, 8/7/2000
- LPD-17 Mine Reconnaissance Study (Avondale Study), Naval Sea Systems Command, SEA 05, 6/4/1999

Patents:
11-1506 Undersea Power & Propulsion, External Combustion Engine, Combustor

Innovation Awards:
11-2096 Decision Explanation via Semantic Reasoning, Robert Cole leading
11-2097 Decision Explanation via Hierarchical Dialog Mechanism, Robert Cole leading