

JACK MCCREADY -PH.D.

BIO

Dr. McCready more than 40 years of successful experience in the Scientific and Engineering community, providing research, development, evaluation, and successful product transition/implementation. He spent more than 25 years at the U.S. Coast Guard's (CG) Research & Development Center (RDC) as the Division Director responsible for all research relating to C4ISR (Command, Control, Communications, Computers/Cyber and Intelligence, Surveillance & Reconnaissance) as well as the Director for Strategic Analysis & Business Development.

Throughout his tenure at the RDC, his expertise spanned multiple areas. He is an expert in Maritime Operations covering Maritime Stewardship, Maritime Security (Founding member of the CG Special Forces), and Maritime Search & Rescue. His technical experience includes maritime communications (shore, surface, underwater, airborne, and space-based), sensing systems (Acoustic Visual, IR, and RF), IT/Cyber, Risk Analysis, Counter-Narcotics & Counter-Terrorism, non-lethal weaponry as well as CBRNE technology. He has specific expertise in defining and developing research plans addressing cyber issues affecting the Maritime Transportation System (MTS). Complimenting his knowledge and expertise with cyber, Dr. McCready has both the practical experience of identifying, matching, and delivering new capabilities from industry and academia as ready-made products for immediate use by CG.

With that, Dr. McCready brings an immeasurable amount of exposure, experience, and knowledge of government strategic analysis, requirements analysis and has been both a certified Federal Contracting Officer's Representative (COR), as well as a certified Acquisition Program Manager.

As a Sr. Professor, he instructs or has taught Undergraduate, Master's, and Doctoral students across several universities, including the University of San Diego, Alliant International University, Tiffin University, and Coleman University. Additionally, he was the Dean of Academics and the CIO at California Miramar University.

Some of his key highlights include:

- Key role in the startup of the Department of Homeland Security.
- Founding member of the Science & Technology Directorate; (\$1B annual budget).
- Identified national-level solutions to physical and cyber-based Critical Infrastructure / Key Resource (CI/KR) vulnerabilities.
- Developed enterprise-wide solutions for the actualization of mobile technology for critical business tasks.
- Created and implemented technology and procedural solutions that improve the reliability and performance of communication systems – even across the most remote and geographically challenging terrain.
- Two Patents on structure-borne vibration analysis and suppression.

- Managed over \$500M in equipment acquisitions, including high-tech security and defense equipment.
- Lectured at Queen’s College, Oxford-UK and presently an Instructor at several Universities teaching subjects across Counter-Terrorism, Computer & Information Systems, Cyber, and Network Security
- Multiple presentations to international industry, government, and academic audiences on topics ranging across the Command, Control, Communications, Computer/Cyber, and Intelligence, Surveillance & Reconnaissance (ISR) spectrum including Gordon Technical, IEEE, National Risk Symposia, and SNAME conferences.

PUBLICATIONS:

- “Towards A Maritime Cyber Compliance Regime,” Draft Paper for US Coast Guard Maritime Cyber Risk Symposium Compendium, December, 2016
- “San Diego Maritime Consortium” Lecture at the CREATE/CCICADA Working Group Meeting on Maritime Cyber Security, March, 2016
- Co-author of Team 5’s Report on “What approach should to conduct nodal analysis to identify single-points of failure for maritime cyber events within the MTS including navigation systems” to the Cal Maritime CCICADA Working Group meeting on Maritime Cyber Security in the MTS June, 2015
- “Knowledge Based Discovery & Dissemination” Lecture at the *“Intelligence Advanced Research Programs Agency”* (IARPA), 2009.
- International Conference on Acoustics, Speech & Signal Processing Vol 4; “Error Probability in Spectral Analysis Using DFT or FFT Analyzer, (McCready, 1987)
- Proceeding of the International Society for Optics & Photonics (SPIE) Vol 3575; Technical Demonstration of a Prototype Nighttime Identification System (McCready, Glenn, Paolino, 1998)
- WORK- A Journal on Prevention, Assessment, and Rehabilitation; “A qualitative study of older workers' adaptation to physically demanding work” (Sanders, McCready, 2009)
- Technical Report; Chem/Bio/Rad/Nuc Primer for Counter-Terrorism; U.S. Coast Guard Research & Development Center (McCready, 2002)
- Strategic Report; ARCTIC Roadmap & Strategy, US Coast Guard (McCready, 2014)
- Chemical, Biological, Radiological, Nuclear & Explosives (CBRNE) Primer to USCG Forces (McCready, 2011)

Other:

- Two U.S. Patents on Structureborne Vibration Analysis

Synergistic Activities:

- Industry Advisory Member for the California International School of Business Innovation Technology
- Curricula Development for Coleman University in Information Systems Management Master's Program
- Curricula Development for California Miramar University in Computer Information Science Master's Program
- Curricula Development for California Miramar University in Criminal Justice Program
- Consultant to U.S. Coast Guard Risk Management & Maritime Security
- Consultant to the Scientific Advisory Guidance Expert (SAGE) Group
- Consultant to "The Maritime Alliance" on Cyber based vulnerabilities to Port and Maritime Transportation System
- Consultant to MaXentric LLC on integrated Comms solution for Public Safety
- Cited in SeaPower Magazine and in Coast Guard Forum Magazine for technologies relating to IT, Communications, Sensing, Law Enforcement, Surveillance, and Analysis.

CREDENTIALS:

Ph.D., Application of Natural-Language-Processing to enhance Risk-Based Management Decisions ☐
MS, Operations Research ☐ **BS, Electrical Engineering**