

# THE BRIDGE

FALL/WINTER 2019

THE MAGAZINE OF THE NAVAL WAR COLLEGE FOUNDATION

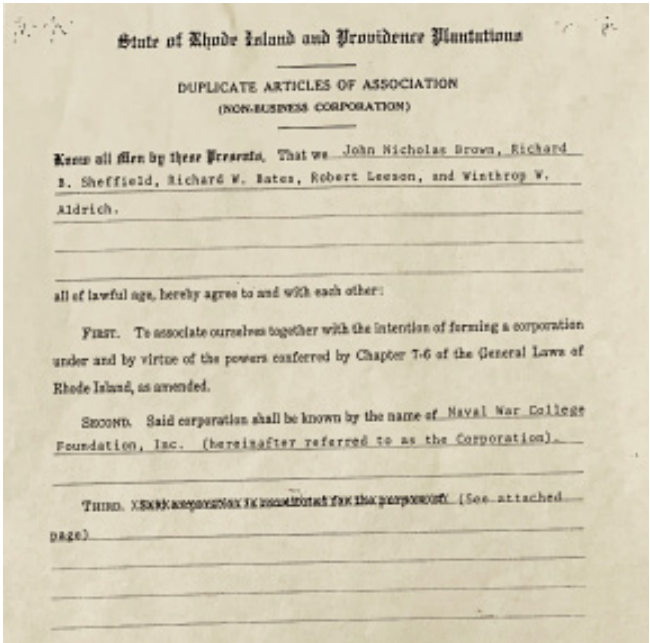
VOLUME 23

## Celebrating



## Years of Patriotic Support





**NWCF HISTORY**

(LEFT) ARTICLES OF ASSOCIATION FROM 1969, SIGNED BY JOHN NICHOLAS BROWN, RICHARD B. SHEFFIELD, RICHARD W. BATES, ROBERT LEESON AND WINTHROP W. ALDRICH, THE ORIGINAL FOUNDING MEMBERS OF THE NAVAL WAR COLLEGE FOUNDATION.

(ABOVE) NWCF’S LONGEST SERVING EXECUTIVE DIRECTOR (1973-1993), BUD WOODSON.



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**ON THE COVER**

AN ARTIST’S DEPICTION OF THE ICONIC LUCE HALL, HOME TO THE NWCF, WITH THE USS NEWPORT NEWS IN THE BACKGROUND, AS PHOTOGRAPHED ABOVE.



## THE LEIDOS CHAIR OF FUTURE WARFARE STUDIES

The field of future warfare studies is a new and highly interdisciplinary field of applied research that combines the fields of foreign policy, defense strategy, resource assessment and technology acquisition.

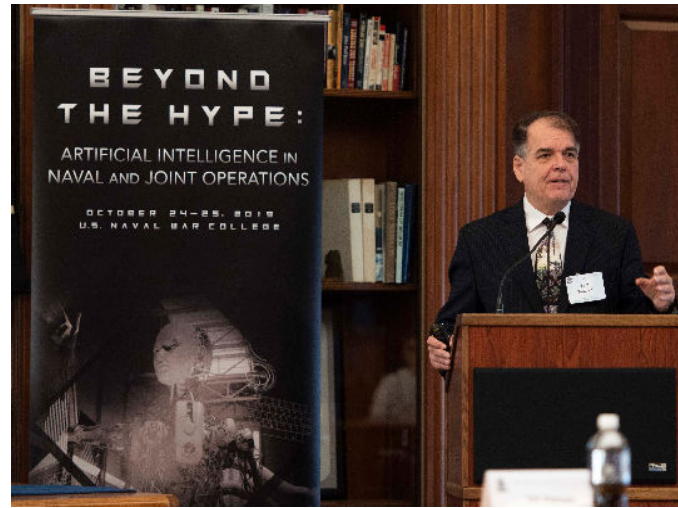
Responding to the CNO's request to "futurize" the efforts of the NWC in both teaching and research, the Naval War College President established the Institute for Future Warfare Studies (IFWS) in 2016. In the next year, it became part of the Naval War College's Center for Naval Warfare Studies, which also directs NWC war gaming as well as strategic and operational research.

In 2019, through the generous support of the Leidos Corporation and the Naval War College Foundation, the Leidos Chair of Future Warfare Studies was established to lead the IFWS research effort and to provide a stable source of funding for IFWS in its collaborative efforts with other NWC and U.S. Navy research institutes, centers and teaching departments.

The first Leidos Chair holder is Dr. Sam J. Tangredi, a noted naval strategist and retired U.S. Navy Captain. Before his Chair appointment, Dr. Tangredi published five books on naval strategy and future warfare, along with numerous articles, official studies and research papers. He is a recipient of the U.S. Naval Institute's Arleigh Burke Prize and the U.S. Navy League's Alfred Thayer Mahan Award.

In October, through the use of the Leidos and Naval War College Foundation gift, IFWS held a highly successful two-day workshop entitled "Beyond the Hype: Artificial Intelligence (AI) in Naval and Joint Operations," bringing together over 60 scientists, engineers, academics, Navy, and other military personnel to discuss the practical application of AI to warfighting problems.

A keynote presentation by former-Deputy Secretary of Defense Robert O. Work, currently the Vice Chair of the Congressionally-established National Security Committee on Artificial Intelligence, was one of the highlights of the workshop. The workshop included four panel discussions and presentations by subject matter experts and five working groups that incorporated the ideas of all attendees.



*Dr. Sam Tangredi speaks at the "Beyond The Hype" conference held this past October at the Naval War College. (U.S. Navy photo by Mass Communication Specialist 2nd Class Tyler D. John)*

The title of the workshop was specifically chosen to indicate that the effort was to go beyond a general public discussion of the far-future possibilities of AI. It focused on the specifics of what can be done to apply AI to naval and military operations in the near future, as well as what decisions need to be made now to facilitate successful implementation.

As Tangredi told the audience at the start of the workshop, "If you read any of our professional journals, you read articles that say, 'Whoever has AI is going to rule the world! Legacy systems are dead!' [But] I think we are heading toward the Department of Defense and others starting to realize that this might not be so easy. It's going to be hard to apply... a lot of hard work before it actually has practical applications."

It is thanks to the support of the Naval War College and Leidos that this hard work can be discussed, planned and continued in practice, not just at the Naval War College but also with collaborating institutions.

Meanwhile, IFWS members and Naval Information Warfare Center Pacific scientists are putting the finishing touches on what will hopefully be another success - a multi-author book on the same topic, AI at War, to be published by Naval Institute Press in 2020.

## LEIDOS: A 50-YEAR PARTNER IN THE MILITARY COMMUNITY



*Photo courtesy of Leidos*

The Naval War College Foundation is pleased to partner with Leidos to establish the Leidos Chair of Future Warfare Studies at the Naval War College. Leidos, a prominent figure in the defense industry, specializes in leveraging information technology, engineering, and science to make the world safer, healthier, and more efficient. Their pioneering work in the field of military technologies makes Leidos a natural sponsor of the Naval War College's Institute for Future Warfare Studies, a focal point for research and analysis on future warfare trends and challenges, the future operating environment, warfare innovation, and future strategy and force operations.



"The Naval War College facilitates critical collaboration between academic researchers, future leaders, and enterprise in support of present-day and predictive Navy strategy," said Nevin Carr, vice president, U.S. Navy strategic account executive. "By investing in this home of thought, we are better able to identify the resources needed to enhance maritime readiness and overcome emerging challenges from our adversaries."

A remarkable example of the leadership of Leidos in the autonomous technology space is the Sea Hunter project, a 132-foot-long Trimaran that is the first autonomous, unmanned vessel capable of traveling for long periods of time and executing a variety of missions. This year, Sea Hunter became the first ship to successfully autonomously navigate from San Diego to Pearl Harbor, Hawaii and back (approx. 5,000 nautical miles) without a single crew member onboard. Additionally, the Sea Hunter project has extended its platform to assist with the development of advanced sensors designed to expand the use of medium Unmanned Surface Vehicles (USV). This project, conducted by the Office of Naval Research, was supported by the Naval Information Warfare Center - Pacific, Naval Undersea Warfare Center-Newport (NUWC), and Johns Hopkins Applied Physics Laboratory.

### About Leidos

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 33,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported annual revenues of approximately \$10.19 billion for the fiscal year ended December 28, 2018. For more information, visit [www.Leidos.com](http://www.Leidos.com).



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