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**Edward R. Franchi, Ph.D.**



**Associate Director of Research, Ocean and Atmospheric  
Science and Technology Directorate  
Naval Research Laboratory**

Dr. Edward Franchi is currently the Associate Director of Research for the Ocean and Atmospheric Science and Technology Directorate at the Naval Research Laboratory (NRL), where he is responsible for providing executive direction and technical leadership for six research divisions in the fields of acoustics, remote sensing, oceanography, marine geosciences, marine meteorology, and space science. He provides personnel, administrative, and technical oversight for a civilian workforce of approximately 500 Federal employees and an annual budget in excess of \$200M. Dr. Franchi is an internationally recognized expert in underwater acoustics research and anti-submarine warfare and mine warfare technology and possesses unique scientific/technical skills, qualifications and competencies. He serves on the NRL Research Advisory Council (RAC) to develop lab-wide strategies, policies, and corporate facilities.

Dr. Franchi was appointed to the Senior Executive Service in July 1988 and has over 34 years of Federal Service.

Dr. Franchi served as Superintendent of the Acoustics Division, Naval Research Laboratory from October 1993 through April 2008. The Division conducts basic, exploratory, and applied research and development in areas of acoustic modeling and simulation, ocean acoustics measurements, acoustic systems development, acoustic signal processing, and physical acoustics. He was responsible for the technical/scientific management, direction, and administration of programs with a total budget in excess of \$25 million, and for efficient management of Division resources including the activities of approximately 110 civilian personnel.

Dr. Franchi was appointed to the Senior Executive Service in July 1988 and selected as the Associate Technical Director of the Naval Ocean Research and Development Activity (NORDA)

and its Director of Ocean Acoustics and Technology. The Directorate conducted basic, exploratory and advanced research and development and program management in the areas of acoustic model development and simulation, ocean acoustics measurements, and ocean engineering in support of all undersea warfare missions. In October 1992, the Directorate became the Center for Environmental Acoustics in the Acoustics Division of the Naval Research Laboratory, with Dr. Franchi as Director.

Dr. Franchi joined the Naval Research Laboratory in March 1975 as a research mathematician in the Acoustics Division. In this position, he conducted and directed research in low frequency acoustic reverberation and scattering, including design and conduct of field experiments, development of signal processing techniques, data analysis and interpretation, computer prediction models, and active sonar performance studies. In April 1986, he was selected as the Head of the Acoustic Systems Branch where he was responsible for programs that emphasized theoretical, experimental, and computational research to understand the physical mechanisms of acoustic propagation, scattering, and ambient noise that control the design and performance of large aperture passive sonar systems, low frequency active sonar systems, and shallow water sonar systems.

Dr. Franchi was employed as a Senior Scientist at Bolt, Beranek, and Newman Inc. from June 1973 through March 1975. He conducted research for the US Navy on development of underwater acoustic propagation, ambient noise, and reverberation models, design of environmental acoustic at-sea experiments, and model-data comparisons.

Dr. Franchi graduated from Clarkson University in 1968, with a bachelor's of science degree in mathematics. He received his master's of science (1970) and doctorate (1973) degrees both in applied mathematics from Rensselaer Polytechnic Institute.

Dr. Franchi has over 35 years experience in underwater acoustics research and is the author/co-author of over 35 publications. He is recognized as an authority on underwater acoustic scattering and reverberation and has played major roles in Navy low frequency active sonar programs as both performer and advisor/consultant. He served as the US National Leader of The Technical Cooperation Program's (TTCP) multinational Panel on ASW Systems and Technology from 1996 to 2002, and served as its Panel Chairman from 2002 to 2009. In January 2008, he was appointed as the US Representative to the Scientific Committee of National Representatives for the NATO Undersea Research Centre. In July 2011, he was appointed to the NATO Science and Technology Reform Implementation Team.

Dr. Franchi received the Presidential Rank Award of Meritorious Executive in 2003. He received the TTCP Personal Achievement Award in 2011 in recognition of his significant contributions and strategic vision in leading the TTCP ASW Panel. He received the National Partnership for Reinventing Government Award in 1998 for contributions to the development of the NRL Personnel Management Demonstration Project. He has received numerous Letters of Appreciation from Flag Officers for his research contributions over the years. He was elected to Pi Mu Epsilon, the Honorary National Mathematics Society, while an undergraduate at Clarkson University. Dr. Franchi is a member of the Acoustical Society of America and past member of the Mathematical Association of America. Since 2004, he has volunteered his time to serve on the Board of Directors of the NRL Federal Credit Union.