

THOMAS W. ALTSHULER, Ph.D.

Teledyne Marine Systems
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Experience:

Teledyne Marine Systems

*49 Edgerton Drive, North Falmouth, MA 02556
Vice President and Group General Manager*

April 2009 to present

Vice President and Group General Manager of Teledyne Marine Systems, a group of strategic business unit within Teledyne Technologies, Incorporated (TDY). The group consists of Teledyne Benthos, Teledyne TapTone, and Teledyne Webb Research, in Falmouth, Massachusetts and Teledyne Gavia in Kopavogur, Iceland. Executive responsibilities include oversight of all functions of the four manufacturing business units with approximately 200 employees. Provide leadership and act as key decision maker for the group, which develops and manufactures a range of products including advanced underwater communication and positioning systems, remotely operated vehicles, autonomous underwater vehicles, underwater gliders, and water column profiling floats, as well as, inspection systems for the bottling and packaging industries. Oversee research and product development, manufacturing, sales and marketing, operational and strategic planning, and financial planning. Work closely with the President of Teledyne Marine Sensors and Systems on business acquisitions and Corporate level initiatives.

Teledyne Scientific and Imaging, LLC

Rockwell Scientific Company, LLC

1049 Camino Dos Rios, Thousand Oaks, CA 91360
Executive Director

Information Sciences Division

March 2003 to April 2009

Executive Director of the Information Sciences Division, Teledyne Scientific and Imaging, LLC (formerly Rockwell Scientific Company, LLC). Executive responsibilities included management of the day-to-day operation of a technical division that includes approximately 35 technical staff (20 with Ph.D.s). Was responsible for the coordination and oversight of operations of departments located at facilities in Thousand Oaks, California and Research Triangle Park, North Carolina. Provided executive oversight of personnel, budgeting, and program execution. Provided leadership and acted as key decision maker for all division strategic planning, IRAD, business development, and program pursuit and capture. Led interactions with strategic partners, government customers, and other Teledyne businesses. Established plans for maintaining and expanding division core competencies and business thrusts including autonomous systems, image and sensor processing, and resource allocation and planning. Worked closely with the business unit President as a key member of executive teams involved in multiple corporate level initiatives. Was key member of the executive team responsible for the preparation and execution of the sale of Rockwell Scientific Company, LLC to Teledyne Technologies, Incorporated in September 2006. Responsibilities included preparation of the Information Sciences Division's contribution (both technical and financial) to the Confidential Information Memorandum (CIM) provided to potential buyers. Participated in all management briefings to potential buyers. Assisted executive team during the transition after sale.

Defense Advanced Research Projects Agency

Advanced Technology Office

3701 North Fairfax Drive, Arlington, VA, 22203
Program Manager

September 1998 to September 2002

Managed the Defense Advanced Research Projects Agency (DARPA) Antipersonnel Landmine Alternative (APLA) program. The APLA program goals were the development of technologically innovative approaches to both mounted and dismounted maneuver denial to obviate the need to employ antipersonnel landmines as tactical obstacles. The main APLA effort, the Self-Healing Minefield Program, focused on the development of a fully networked, intelligent, mobile, antitank landmine system that was successfully demonstrated in March 2002. The Self-Healing Minefield was named one of 100 technologies in the 15th Annual Best of What's New for 2002 by Popular Science Magazine. Managed the Electronic Dog's Nose program from 2000 until program completion in 2001. The Electronic Dog's Nose program

focused on the development of technologies to permit detection of landmines by means of the sensing of explosive materials present in landmines in either the vapor or condensed phases. Program Manager responsibilities included development and execution of the technical, financial, and programmatic portions of the programs, determination of the budget requirements included in the yearly DoD budget submitted to Congress, establishment of technical requirements and milestones, promulgation of contracting requirements and milestones, delivery of informational updates to the DoD chain of command and the National Security Council, providing leadership to contractor and government teams, and working with Army acquisition and warfighting communities to establish a technology transition plan and system requirements. Other duties included membership on a NATO study group established to determine the effects of the elimination of antipersonnel landmines and alternative systems for the alliance; Executive Secretary for the Defense Science Board Task Force investigating chemical weapon defense; member of White House Office of Science and Technology Policy Task Force investigating technology investment opportunities for humanitarian demining. DARPA Program Management position was held through the Intergovernmental Personnel Act as a GS-15 equivalent.

Institute for Defense Analyses
Science and Technology Division
June 1995 to September 1998

4850 Mark Center Drive, Alexandria, VA 22311
Research Staff Member

Managed projects that provided technical assessment and performance evaluations of landmine and unexploded ordnance (UXO) detection and remediation for the Defense Advanced Research Projects Agency, the Office of the Deputy Under Secretary of Defense for Environmental Security, and the U.S. Army Communication and Electronics Command, Night Vision and Electronic Sensors Directorate. Developed clutter mitigation algorithms for magnetic detection of UXO. Actively participated as a member of the Antipersonnel Landmine Alternative Track II Task Force looking for alternative systems to replace antipersonnel landmines. Chaired two Technology Working Groups responsible for identification of magnetic and electrical materials for inclusion on the Militarily Critical Technology List. Performed assessments for the Office of the Secretary of Defense evaluating potential opportunities for research and development collaboration between the U.S. Department of Defense and the Argentine and Chilean Ministries of National Defense. Participated in an External Independent Readiness Review of the NOAA-K satellite.

Massachusetts Institute of Technology
Underwater Vehicle Laboratory, Sea Grant College Program
April 1994 to June 1995

77 Mass. Avenue, Cambridge, MA 02139
Postdoctoral Fellow

Managed the design and construction phase of the transition from prototype to operational field vehicle of the Odyssey II autonomous underwater vehicle (AUV). Responsibilities included programmatic and purchasing oversight. This work resulted in the fielding of five operational Odyssey IIb AUVs. Designed main electrical power system, vehicle wiring and mechanical and electrical subsystems for vehicle actuation. Managed the logistics for all field experiments including under-ice experiments in the Arctic and deep-ocean cruises in the Atlantic and Pacific Oceans.

Massachusetts Institute of Technology
Department of Materials Science and Engineering
September 1993 to April 1994

77 Mass. Avenue, Cambridge, MA 02139
Visiting Scientist

Characterized acoustic emission in ferromagnetic materials using an electron tunneling transducer. Expanded theoretical model of elastic radiation emission processes in ferromagnets

Education:

Massachusetts Institute of Technology

77 Mass. Avenue, Cambridge, MA

Ph.D. in Physics, August 1993. Thesis titled 180 Degree Domain Walls as a Source of Magnetoacoustic Emission performed at The Specialty Materials Laboratory under Professors M.L.A. MacVicar and Robert M. Rose.

Massachusetts Institute of Technology

77 Mass. Avenue, Cambridge, MA

S.M. in Physics, February 1988. Thesis titled Low Frequency Noise and Electromigration Damage in Thin Film Aluminum performed at The Specialty Materials Laboratory under Professor M.L.A. MacVicar. Charles Stark Draper Laboratory Fellow, September 1985-September 1987.

Rensselaer Polytechnic Institute

15th Street, Troy, NY

B.S. in Physics, May 1983. Cum Laude. Minor in Mathematics

Awards

Secretary of Defense Award for Outstanding Public Service, 2002

Bronze Order of the de Feury Medal by the Army Engineer Association for inspirational leadership to the United States Army Corps of Engineers, 2002

Outstanding Briefing Award, DARPA Tech 2002, Second Place