



North Pole Expedition 2004

## **CAPTAIN DON WALSH USN (Ret), PhD BIOGRAPHICAL INFORMATION**

### **PROFESSIONAL ACTIVITIES & QUALIFICATIONS**

- Oceanographer, physical oceanography, air-sea interaction & remote sensing.
- Ocean engineer, specialization in undersea technology and operations.
- R&D program management at headquarters, university and Navy laboratory levels.
- Earth remote sensing from aircraft and satellites.
- Surface ship and submarine operations, 16 years at sea, including two commands with an additional two years of sea time in cruise and expedition ships.
- Qualified in Submarines and for command of submarines 1957 & 1961,
- Deep submersible vehicle design and operations, with dives in over 21 different manned submersibles.
- Manned submersible pilot. Designated U.S. Navy submersible pilot #1. Most recent pilot experience was May, 2009.
- Qualified SCUBA diver (U.S. Navy), 1959.
- Remotely operated vehicles (ROV) design and operations, both in Navy and commercial work.
- Ocean law and policy experience. Was member of State Department Law of the Sea Advisory Committee. Helped advise the U.S. delegation at the UN Law of the Sea Conference. Edited and contributed to several books and journals on law of the sea and ocean policy issues.
- Government R&D management, 3.5 years as special assistant to the Secretary of the Navy for Research and Development, 1.5 years as Deputy Director of Navy Laboratories and 3.5 years as a project manager in a navy laboratory.
- Extensive knowledge of international ocean industry. Have worked in 112 coastal nations throughout the world since the 1960's and continue to maintain international network of contacts.
- Business management experience through the founding, incorporation and day-to-day operations of International Maritime Incorporated (IMI), a consulting practice, for past 30 years. Acquisition experience in the purchase of Parker Diving in 1985. International experience through IMI participation in US-USSR (later Russian) joint venture, Soyuz Marine Service.
- Non-profit organization governance as an elected director and officer of several organizations.
- Current FAA licensed private pilot with multiengine, glider and seaplane ratings. Own and fly experimental sport biplane based at Bandon, Oregon

### **GOVERNMENT SERVICE**

- U.S. Navy 1948-1975, seaman to captain. Aviation, surface and submarine service including command at sea.
- Presidential appointments: National Advisory Committee on Oceans and Atmosphere (NACOA). Appointed by

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- President Carter 1979, reappointed by President Reagan, 1982. By law, limited to six years, term expired 1985.
  - U.S. State Department, Law of the Sea Advisory Committee (1978-1983), appointed by Ambassador Elliot Richardson.
  - Member, Board of Governors, California Maritime Academy (1986-1995). Appointed for two terms by Governor George Deukmejian, and two terms by Governor Pete Wilson. Chairman. Chaired Presidential Search Committee (1990).
  - Member, Harbor Affairs Advisory Committee (1983-1987). Appointed by Los Angeles City Councilwoman Joan Milke Flores.
  - NASA Space Applications Advisory Committee, member 1983-1986. Appointed by NASA Associate Administrator Burton Edelson.
  - Naval Research Advisory Committee, member of two subcommittees, 1984-1986.

## **ORGANIZATIONAL GOVERNANCE**

- Trustee, Clive Cussler's National Undersea Maritime Agency (1981-present).
- Vice President and Director Marine Technology Society (total of 9 years in 1970's-'80's).
- President and member, Board of Directors, International Maritime Inc. ('76-present).
- President, Parker Diving, Inc. ('92-'94).
- Member, Board of Control (director) and Member, Editorial Board, U.S. Naval Institute ('73-'75).
- Member, Board of Directors, Year of the Ocean Foundation ('84-'86).
- Vice President Deep Submersible Pilots' Association ('66-'68).
- Member, Board of Directors, Friends of Los Angeles Maritime Museum ('85-'94).
- Vice President and Director, American Society for Oceanography ('67-'69).
- Member, Board of Governors of the California Maritime Academy ('86-'95).
- Chairman, Harbor Affairs Committee, San Pedro Chamber of Commerce ('85-'86).
- Member, Executive Council of the Navy League of the U.S., ('77-'79).
- Vice President, Naval Undersea Museum Foundation ('88-present).
- Member, Board of Directors, Deep Ocean Engineering Co. (1990-2000).
- Member, Board of Directors, Coastal Resources Center (1990-94).
- Member, Alupower Inc. (subsidiary of ALCAN) Advisory Board (1992-94).
- Member, Board of Directors, Explorers Club (1994-2000). Reelected for second 3 year term, 1997.
- Member, Board of Directors Charles A. and Anne M. Lindbergh Foundation (1995-2005).
- Member, Board of Directors, Werner Offshore Diamonds, Ltd., Monaco. (1997-98).
- Honorary Director and Honorary President, the Explorers Club, (2003-)
- Member Board of Governors, American Polar Society (2010-)

## **ADVISORY COMMITTEE SERVICE**

- National Advisory Committee on Oceans and Atmosphere (NACOA). Appointed by President Carter in '79 and reappointed by President Reagan in '84. Completed statutory six year term in 1985. Committee Service was:
  - Chairman, NACOA panel on marine transportation ('80- '83).
  - Chairman, NACOA panel on U.S. shipbuilding industry ('83-'85).
  - Chairman, NACOA panel on U.S. Exclusive Economic Zone ('83-'84).
- NASA Space Applications Advisory Committee ('83-'86).
- National Academy of Sciences, National Research Council:
  - Member, Ocean Studies Board Committee on Arctic Ocean Research and Supporting Facilities ('95)
  - Member, Marine Board ('90-93), member Executive Committee ('92-'93)
  - Chairman, NRC Committee on Aquaculture ('76-'78).
  - Chairman, Marine Board Committee to Review the National Oceanic and Atmospheric Administration's (NOAA) Fleet Replacement and Modernization Plan ('93-'94).
  - Chairman, Ocean Studies Board Task Group on Freedom of Marine Research ('77-'79)
  - Committee on Maritime Industry Opportunities and Requirements for Development of Ocean

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- Resources, member ('78- '80).
  - Committee on Alternative Strategies for Obtaining Research/Survey Ship Services, member ('87-'88).
  - Committee on Safety of Passenger Carrying Submarines ('89-'90).
  - Numerous committees and studies during 1970-1975 when Walsh was Navy liaison to the Marine Board of the Academy.
  - Naval Research Advisory Committee (NRAC):
    - Panel on Mid-Depth Seafloor Technology, member ('84- '86).
    - Program Review Panel at U.S. Navy Civil Engineering Laboratory, Port Hueneme, CA., member ('85-'86).
  - The R&D Council of the American Management Association, member ('78-'85).
  - Citizens Advisory Committee on Law of the Sea, U.S. Department of State, member ('78-'83).
  - Advisory Committee to the Center for Oceans Law and Policy, the Law School, University of Virginia, member.
  - Board of Technical Advisors, Deep Ocean Technology, Inc., member ('85-'90).
  - Harbor Advisory Committee for L.A. City Council Member Joan M. Flores, member, ('81-'86).
  - Judge (one of ten international judges) for the Rolex Achievement Awards, 1990 ('88-'90).
  - Sea Grant Advisory Committee, Hancock Institute for Marine Studies, University of Southern California, (1991-)
  - Member, panel of experts to study deep submergence technologies in the former Soviet Union, organized by the World Technology Evaluation Center (WTEC), Loyola College, Baltimore, MD., ('92-'95). Involved two study trips to European and Far Eastern Russia.
  - American Bureau of Shipping (ABS) Special Advisory Committee on Undersea Systems and Vehicles. (2000-)
  - Member, Advisory Council, Harte Research Institute for Gulf of Mexico Studies, Texas A&M University Corpus Christi (2001- 2008)
  - Member Advisory Board, Jules Verne Aventures (France), 2001-present.
  - Member Board of Sponsors, Solar Impulse Program (Swiss solar powered airplane world flight), 2006-present.
  - Member, Ocean Studies Board, US National Research Council, 2011-2013.

## **EDUCATION ACTIVITIES**

- BS, U.S. Naval Academy, 1954, general engineering.
- MS, Texas A&M University, 1967, physical oceanography. Research emphasis was on ocean remote sensing.
- Set up and managed the Spacecraft Oceanography Project at A&M, 1966-68.
- PhD, Texas A&M, 1968, physical oceanography. Continued work in ocean remote sensing.
- MA, San Diego State University, 1969, in political science. Research was on law of the sea issues.
- Fellow, Woodrow Wilson International Center for Scholars, Washington DC, 1983- 84.
- Professor of ocean engineering & founding Director (dean) of Institute for Marine and Coastal Studies, (IMCS) University of Southern California, 1975-1983.
- Adjunct Fellow, Center for Strategic and International Studies (CSIS), Georgetown University, 1975-83.
- Adjunct professor, California State University, San Bernardino, 1988.
- Adjunct Senior Scientist, Hancock Institute for Marine Studies, University of Southern California, 1983-1995.

## **COMMUNICATIONS**

- Over 200 published articles, papers and contributions to the marine industry literature since 1959.
- Editor of the Marine Technology Society Journal ('76- '80).
- Edited five books on ocean subjects.
- Chapter contributions to nine books on marine subjects.
- Since 2008 writing a trade book on the US Navy bathyscaph programs.
- Regular contributor to three marine industry publications.
- Over 1500 lectures, in 50 nations, on ocean-related subjects since 1959.
- Technical advisor on numerous TV and movie productions with ocean themes.
- Participated in over 150 radio and TV interviews/programs.

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- Organized and managed three international conferences on coastal ocean space uses.
  - Lecturer on board cruise and expedition ships for 150 cruises since 1973

## **HONORS AND AWARDS**

- Legion of Merit, awarded by President Eisenhower at White House, for deep submergence exploration with the Bathyscaph Trieste, 1960.
- Legion of Merit (second award) for service as Special Assistant (Submarines) in the Office of the Assistant Secretary of the Navy (Research and Development), 1973.
- Meritorious Service Medal, for assistance to State Department and U.S. Information Agency. Conducted 2 1/2 month lecture program on U.S. ocean activities and law of the sea interests through South Asia and Middle East, 1971.
- Meritorious Service Medal (second award) for service as Deputy Director of Navy Laboratories in the Headquarters of the Naval Material Command, 1975.
- Antarctic Service Medal, for participation in Deep Freeze '71, November - December 1971.
- RADM William S. Parsons Award from the Navy League of the United States for "outstanding scientific and technological contributions" to the U.S. Navy. 1962.
- Distinguished Service Medal from the Theodore Roosevelt Association (youngest recipient since Charles Lindbergh), 1960.
- Gold Commendation Medal and Honorary Citizen from the City of Trieste, Italy, 1961.
- Richard Hopper Day Memorial Medal from the Philadelphia Academy of Natural Sciences, 1960.
- Gold Medal of the Chicago Geographic Society, 1960.
- Golden Plate Award of the American Academy of Achievement, 1961.
- One of the Ten Outstanding Young Men of the Year, U.S. Junior Chamber of Commerce, 1960.
- The "Walsh Spur" (ridge) geographic feature in the Antarctic named in honor of contributions to U.S. national programs in Antarctic, 1972.
- Marine Technology Society Commendation, 1977.
- Elected to Fellow of the Marine Technology Society, 1980.
- U.S. Coast Guard Meritorious Public Service Award Medal, 1980.
- Lowell Thomas Award, the Explorers Club, 1986.
- NOGI Award of the Academy of Underwater Arts and Sciences for contributions to science, 1989.
- Marine Technology Society Special Commendation Award, 1992.
- Elected Fellow of the Academy of Underwater Arts & Sciences, 1992.
- Honorary Life Member (one of 20 permitted), the Explorers Club, 1994.
- Honorary Life Member of the Adventurers Club, Los Angeles, 1994.
- Compass Distinguished Achievement Award, Marine Technology Society, 1996.
- Divers Hall of Fame, 1998
- Honorary Life Member, American Geographical Society, 2000
- Signer of the unique, "Fliers and Explorers Globe", American Geographical Society, 2000
- The Explorers Medal, from the Explorers Club, 2001
- Elected a Member, National Academy of Engineering, 2001
- L'Etoile Polaire Medal from the Jules Verne Aventures Association, Paris, 2001
- Award for Excellence, Aquarium of the Pacific, Long Beach California, 2003
- Science Achievement Award, Science Museum of Long Island, 2004.
- 2006 Laureate, Explorers Award from the 8<sup>th</sup> Annual Festival of Exploration, Lodz Poland, 2006.
- 2007 Steinbach Visiting Scholar, Woods Hole Oceanographic Institution, 2007.
- Ralph White Memorial Award, Southern California Chapter of the Explorers Club, 2008
- Elected Honorary President of the Explorers Club, 2008 & 2009
- The Hubbard Medal, National Geographic Society, 2010
- Administrator's Award, U.S. National Oceanographic and Atmospheric Administration, 2010
- U.S. Navy Distinguished Public Service Award, 2010
- Medal of the City of Trieste, 2010
- Blue Frontier Campaign Peter Benchley Award for Ocean Exploration, 2010
- Commendatory Resolution from the U.S. House of Representatives, 2010

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## **BIOGRAPHICAL LISTINGS**

- American Men and Women of Science
- Who's Who in the World
- Who's Who in America
- International Who's Who
- Who's Who in SCUBA Diving

## **RECENT CONSULTING WORK AREAS**

- Marine transportation, especially forecasting the future fleet.
- Cruise ship industry analysis.
- Ports and harbors design and operation.
- Ferry boat design and operations.
- Shipbuilding and ship repair.
- Undersea technologies.
- International ocean market analysis and development.
- Industrial intelligence on international ocean technology.
- Training programs in deep submersible marine operations.
- Marine insurance risk assessment and claims investigation for undersea operations.
- Research ship design, conversions and operations.
- New diver equipment and tools for ship inspection, maintenance and repair.
- Remote sensing information on the coastal oceans.
- Small, military electric and diesel-electric submarines.
- Development of national ocean policy concepts and guidance.
- Marine recreation and leisure.
- Tourist/leisure submarine technical and business development.
- Marine resources management.
- Coastal ocean resources assessment, evaluation, planning and management.

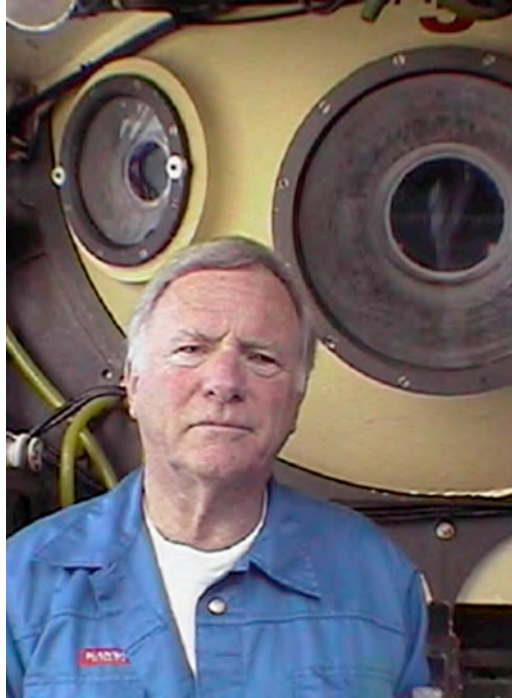
## **PROFESSIONAL AFFILIATIONS**

- Aircraft Owners and Pilots Association
- Adventurers Club (Honorary Life Member)
- Honorary Member, American Geographical Society
- Experimental Aircraft Association
- International Aerobatic Club
- Marine Technology Society (Fellow).
- Explorers Club (Fellow, Honorary Life Member, Honorary Director and Honorary President)
- U.S. Naval Institute (Honorary Life Member)
- Deep Submersible Pilots Association (Founding Member)
- Naval Submarine League
- Member, National Academy of Engineering
- American Polar Society

## **TRAVEL EXPERIENCE**

- Have visited and/or worked in 112 nations in the world.
- Extensive travel in Japan (100+ trips since 1954).
- Twenty trips, with extensive in-country travel, in Soviet Union and Russia since 1977.
- Have worked at both the North (5 trips) and South Poles
- Participated in expeditions to the Arctic (26) and Antarctic (26) since 1955 and 1971 respectively.
- In 2002-2003 was a staff member/lecturer on board the Russian icebreaker Kapitan Klebnikov for the 11<sup>th</sup> circumnavigation ever made of the Antarctic continent since Captain James Cook did it first 1773-74.

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- Cruise ship lecturer since 1973, approximately 150 cruises worldwide working on 32 ships for 20 companies.
  - Expedition cruise ship staff member, lecturer and on-shore naturalist since 1994. Over 55 expeditions, mostly to polar regions.



With Russian Mir submersible after 15,200 foot dive to WWII German battleship Bismarck (2003)