

## **JAMES S. FERGUSON - Vice President – International Submarine Engineering Ltd.**

### **EXPERIENCE**

**1981 - Present:** Mr Ferguson resigned from the Navy and joined ISE to take command of the commercial submarine Auguste Piccard which was searching for the wreck of the treasure ship San Jose, off Cartagena, Columbia.

In 1982, Mr. Ferguson was appointed as Vice President, I.S.E. Ltd., responsible for development and sale of ISE's Autonomous Underwater Vehicles. In the past 16 years, Mr. Ferguson has been responsible for the development of the Dolphin ASV with the high speed tow vehicle Aurora, and the ARCS, Theseus, and Explorer AUVs. A total of 32 vehicles ranging in weight from 50 to 9600 kg, depth capability to 5000 meters and range up to 1400 km have been developed and sold. Over the same period, a variety of studies and designs have been undertaken to support new application development with government and industry. Between 1982 and 1998, Mr. Ferguson was also responsible for the life-cycle maintenance of the Canadian Navy Pisces IV and SDL-1 manned submersibles.

In 1983 Mr. Ferguson led the AUV division to qualify for the NATO AQAP-4 Quality Assurance program. In 1996, the division qualified under ISO-9002 (1994) and under ISO 9001 the following year. The division is now qualified to ISO 9001-2000.

In 1984 Mr. Ferguson was invited to serve on the Executive of the British Columbia Industry Development Association. In this capacity, he has gained an understanding of the needs of the 200 member companies and made presentations on behalf of the association to senior levels of government. From 1986 to 1989, Mr. Ferguson was the Chairman of this association.

Mr. Ferguson was appointed as an advisor to the Minister of National Defence between 1987 and 1993. In 1990, he was the Co-chairman of the Marine Technology Society ROV Conference (fore-runner of the UI conference).

**Concurrent 2004 - 2010** In 2004, Mr. Ferguson was invited by RINA to be the Secretary and Vice Chair of the Engineering Committee on Oceanic Resources (ECOR) Specialist Panel on Underwater Vehicles. This panel is comprised of AUV experts from 8 nations and has a 6 year mandate to consider and report on issues relevant to the operational use of AUVs and gliders.

**1967-1981:** During this period, Mr. Ferguson served with the Royal Canadian Navy as well as on exchange with the Royal Navy in Singapore and the UK. His initial service was in destroyers (1967-1970) before volunteering for Submarines. He commanded a 2400 ton diesel electric submarine, HMCS Okanagan, from 1978-1981. Mr. Ferguson won the Maritime Commander's Award for operational efficiency in 1980.

### **QUALIFICATIONS AND AWARDS**

- Royal Military College - Military Studies - (1963 - 1967)
- Canadian Navy Staff School - (1972)
- Canadian Navy - Combat Control Officers Course - (1975)
- Royal Navy - Submarine Attack Co-ordinators Course - (1977)
- Royal Navy - Submarine Commanding Officers Qualifying Course (Perisher) - (1978)
- Master Mariner Certificate (Foreign Going Steamship) - (1980)
- Canadian Navy Destroyer Command Qualification - (1980)
- BC Government Science Council Award – (1998)

### **PROFESSIONAL SOCIETIES:**

- Association for Unmanned Vehicle Systems – Member
- Marine Technology Society - Member
- Engineering Committee on Oceanic Resources – Panel Vice Chair.
- Royal Institute of Naval Architects - Member

### **PAPERS:**

- Mr. Ferguson has authored numerous conference and journal papers on AUVs.