

University of Essex, England  
BA Honors in Mathematics, 1967

DAVID V. CATCHPOLE

United Nations Environment Programme Halons Technical Options Committee  
U.S. Stratospheric Ozone Protection Advisory Committee on non-essential products.  
U.K. Halons Alternatives Group.  
Halon Alternatives Research Corporation  
Halon Recycling Corporation

## PROFESSIONAL EXPERIENCE

**1999 – Present** - PETROTECHNICAL RESOURCES ALASKA, TECHNICAL CONSULTANT: Providing advice and recommendations to clients (e.g. BP and its subsidiary companies, and Phillips Alaska) on fire protection issues related to halon phase out, and refrigerant issues related to CFC and HCFC phase out. Responsibilities include negotiating with national and international government agencies and committees, actively working with the Halon Alternatives Research Corporation, and leading an industry/government sponsored halon alternatives research and development program.

### **1981 – 1999** BP EXPLORATION (ALASKA),

1990-1999 TECHNICAL CONSULTANT: Reporting to the Manager of Environmental and Legislative Affairs. Specific tasks involve investigating and providing recommendations to management on the impact of the phase out of halons to field operations and safety. The use of halon for fire suppression and explosion prevention is critical to the safe operation of the Prudhoe Bay and other North Slope oil and gas facilities. Responsibilities include negotiating with national (e.g. U.S. Environmental Protection Agency) and international (e.g. United Nations Environment Programme) government agencies and committees, and actively working with the Halon Alternatives Research Corporation to find alternative fire protection agents and to promote the recycling and banking of the existing halons. In 1991 I was nominated by the U.S. and U.K. government environmental agencies to serve on the UNEP Halons Technical Options Committee. Currently leading a multi-industry / government agency research project to evaluate alternatives to halon

1984 to 1990- MANAGER, PROCESS CONTROLS ENGINEERING: Provided technical and administrative management for the development of all computer based, production related control systems, instrumentation and electrical systems at Prudhoe Bay. Supervised staff consisted of Systems Programmers, Computer Engineers and Technicians, Instrumentation and Electrical Engineers and varied in number from 15 to 22 during this period. Duties included counseling management in regard to the development and application of existing systems and the philosophy and design of future systems contemplated for the Prudhoe Bay and Endicott oil and gas fields.

1981 to 1984 - DISTRICT AUTOMATION ENGINEER: Based in Anchorage, Alaska. Provided technical and managerial guidance for the development of applications software for the computer based SCADA and Distributed Control systems at Prudhoe Bay. This responsibility required the establishment and continued operation of an Anchorage based development facility, consisting of SCADA and Distributed Control equipment. Supervised staff averaged 15 in number, and comprised permanent and contract programmers and computer hardware engineers. Responsibilities required close contact with Production Engineering, Petroleum Engineering and Operations Planning groups to ensure that current and future systems fulfilled the requirements of process operations, reservoir management, and production accounting.

### **1970 – 1981** - SCICON INTERNATIONAL LIMITED, LONDON, ENGLAND

1975 to 1981- PROJECT LEADER: Responsible for day-to-day activities of six systems programmers. Led the design team that developed and installed the Supervisory Control and Data Acquisition (SCADA) system for the main control room of the Prudhoe Bay oil and gas production facilities. Responsibilities included training of client's process operators and engineers, and the design and implementation of software enhancements to expand the SCADA system. Work locations included Prudhoe Bay, Alaska, Houston, Texas, San Francisco, California, and Phoenix, Arizona.

1970 to 1975- SENIOR ANALYST/PROGRAMMER: Assigned to the Swiss Company Hasler AG to develop software for an advanced computer controlled telex exchange for Cable and Wireless in Hong Kong. Continued software development and installed and commissioned a similar system computer for the Irish PTT. Work locations included Bern, Switzerland and Dublin, Ireland.

### **1968 – 1970** - MARCONI COMPANY LIMITED, CHELMSFORD, ENGLAND

Development Engineer: For computer based message-switching systems. Design, writing, and debugging of operator console control and message analysis programs.

**1967 – 1968 - FERRANTI LIMITED, MANCHESTER, ENGLAND**

Analyst/Programmer: Worked on nuclear power station and national power grid distribution SCADA systems. Design, writing, and debugging of logging and grid overload detection programs.

**PUBLICATIONS AND AWARDS**

**Awards**

- 1993 US EPA Stratospheric Ozone Protection Award for Individual Leadership in Halon Recycling and Replacement
- 1997 US EPA Stratospheric Ozone Protection Award “Best of the Best” for Global Leadership in Halon Banking and Replacement

**Publications**

- “Halon Phaseout: An Alaskan Oil and Gas Industry Perspective” Presented at the 1991 International CFC and Halon Alternatives Conference, Baltimore, Maryland.
- “Planning For Halon Phaseout: An Alaskan Oil and Gas Industry Perspective” Presented at the International Conference on Halon Alternatives, Beijing, China, April 1993
- “Halon Phaseout: An Oil and Gas Industry Program” Presented at the UNEP Regional Halon Workshop, Kuala Lumpur, Malaysia, January 1994
- “The Importance of Coordination Between Private and Military Banks” Presented at the NATO / CMS Conference, Brussels, Belgium, January, 1994
- “Halon Bank Management” Presented at the Fire India '94 Conference, New Delhi, India, February 1994
- “Halon Recycling and Recovery” Presented at the UNEP Regional Halon Workshop, Warsaw, Poland, June 1994
- “Recycled Halon Bank Management, Findings of the UNEP Halon Technical Options Committee” Presented at the BVD Fire Safety Conference, Zurich, Switzerland, August 1994
- “Fire / Explosion Protection Strategies for Enclosed Oil & Gas Processing Facilities” Presented at the International CFC & Halon Conference, October 1994
- “Alternatives to Halon, Guidance for the Oil & Gas Industry”
- “Experiences in Halon Bank Organization” Both papers presented at the UNEP Regional Halon Workshop, Moscow, Russia, June 1995
- “Global Status On Halon Alternatives” Presented at Fire India '97 Conference, New Delhi, India, January 1997 and at the Life After Halons Conference, Melbourne, Australia, March 1997.
- “Fire Suppression in Cold Climates: A Technical Review” Presented at the Halon Options Technical Working Conference, Albuquerque, NM, May 2000