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# BARRODALE COMPUTING SERVICES LTD. (BCS)

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IAN BARRODALE

([ian@barrodale.com](mailto:ian@barrodale.com) or 250-412-7428)

**POSITION:** President and Founder, Barrodale Computing Services Ltd. (BCS)  
Adjunct Professor of Computer Science, University of Victoria, BC, Canada

**EDUCATION:**

B.Sc. (Mathematics), University of Wales, U.K., 1960  
Dip. Ed. (Education), University of Wales, U.K., 1961  
M.A. (Mathematics), University of British Columbia, Canada, 1965  
Ph.D. (Computer Science), University of Liverpool, U.K., 1967

**MAJOR FIELDS OF PROFESSIONAL INTEREST:**

Scientific and engineering applications software; applied numerical analysis; operations research; database applications; linear programming; pattern recognition; algorithms for approximation; signal processing; image processing. Applications in forestry, oceanography, meteorology, electoral geography, hydrology, seismic processing, and defense sciences

**BUSINESS EXPERIENCE:**

Barrodale Computing Services Ltd. (<http://www.barrodale.com>), 1978 - present

BCS is a Canadian company providing R&D consulting services and customized software for scientists, engineers, and other technical computer users. More than 450 projects have been successfully completed since 1978, with clients ranging in size from Federal, Provincial and State Government departments and multinational corporations to small companies worldwide.

**RESEARCH EXPERIENCE:**

Published sixty articles in refereed journals and proceedings, mainly in the areas of scientific and engineering algorithms, software, and applications. Given invited seminars at many conferences, universities and research laboratories in Canada, the U.S.A., the U.K. and other European countries. Referee for numerous scientific journals. Performed R&D contract work for several organizations. Written many (unpublished) technical reports for various clients.

**ACADEMIC EXPERIENCE:**

- University of Victoria, Mathematics Department, 1961-1980  
Instructor, Assistant Professor, Associate Professor, Professor
- University of Victoria, Computer Science Department  
1980-81, Professor and Founding Chair  
1981-84 Professor (part-time)  
1984-present, Adjunct Professor (unpaid)
- Recipient of NRC/NSERC Operating Grants (1968-90)

Employed in visiting capacities at the following institutions:

- Mathematics Research Center, U.S. Army, Madison, Wisconsin, U.S.A. (Summer, 1971) - Research Member
- Atomic Energy Research Establishment, Harwell, England (Spring, 1972) - Research Member
- Department of Computational and Statistical Science, University of Liverpool, England (1972-73) - S.R.C. Senior Visiting Research Fellow
- Defence Research Establishment Pacific, Victoria, British Columbia (Summer, 1977) - Defence Scientist

Served on the Computer Science Committee of the National Research Council of Canada (1972-75), Information Processing Research Committee of the Defence Research Board (1972-75), and as an Editor for the Journal on Numerical Analysis of the Society for Industrial and Applied Mathematics - SIAM - (1971-78). Supervised/co-supervised research of graduate students.

**RELATED EXPERIENCE AND OTHER PROFESSIONAL ACTIVITIES:**

- External examiner (appraiser) for Ph.D. degrees at various universities
- External referee for tenure and promotion decisions at various universities
- Evaluation of research proposals for granting agencies in Canada and the U.S.A.
- Preparation of software for the Numerical Algorithms Group (NAG), Oxford, 1976-80
- President, Canadian Information Processing Society (Victoria Section) 1980-81
- Director, Canadian Mathematical Society, 1983-85
- Chairman, Software Industry Development Association of British Columbia, 1983-85
- Trustee, Discovery Foundation, 1985-88
- Director, Business and Industrial Development Commission of Victoria, 1985-89
- Member, Camosun College Computing Technology Advisory Committee, 1988-93
- Trustee, The Terry Fox Medical Research Foundation, 1991-93
- Director, University of Victoria (UVic) Innovation & Development Corporation, 1995 - 1998
- Director, Research Networking Association of B.C., 1997 – 2002
- Director, LearningWise Inc. (owner of University Canada West), 2001 - 2008
- Director, Ocean Innovative Systems Inc., 2003 – 2008
- Advisory Board Member, UVic Centre for Earth and Ocean Research, 2003 - 2007
- Advisory Board Member, UVic Institute for Coastal and Ocean Research, 2007- 2010

**PROFESSIONAL SOCIETIES:** Society for Industrial and Applied Mathematics, Member

**ARTICLES PUBLISHED IN REFEREED JOURNALS:** A list will be provided upon request

**CITIZENSHIP:** Canada, United Kingdom

**SECURITY CLEARANCE:** Secret