

Richard J. Procter - AUSCAN Software Ltd. / APL Borealis Inc.

APL Software Specialist, since 1979

- Operating independently as **AUSCAN Software Ltd.** since 1990
- Operating in partnership as **APL Borealis Inc.** since 2001 - www.aplborealis.com

Education: B.Sc. (Ecology), University of Guelph, Ontario, Canada, 1980.

Languages: English, some French and Spanish.

AUSCAN Software Ltd. and APL Borealis Inc. specialize in:

1. **APL Software Development.** Software specialist since 1979, with experience in databases, financial market analysis, portfolio management systems, graphics and statistics. Environments include PC/Windows, mainframe, DOS, UNIX. Development software includes Dyalog APL (Windows), SHARP APL (mainframe/UNIX), STSC/Manugistics/APL+Win (DOS/Windows), and some IBM APL2 and VSAPL. Typical systems also include APL working in concert with standard applications such as SQL data sources; Excel and other Microsoft products, etc.

2. **APL Training.** Flexible and customized APL training courses delivered on-site, including advanced topics in APL systems design. Introductory to advanced APL courses with emphasis at all levels on the development of efficient and maintainable APL systems. Courses are customized for user environments: mainframe/PC/DOS/Windows. Courses include GUI programming techniques, APL/OLE Application (eg. APL<->Excel) techniques, etc.

3. **ContentKeeper** - Web Filtering Systems (Enterprise level). APL Borealis Inc. is the Canada-wide distributor for products by ContentKeeper Technologies - a world leader with award-winning technology, including web filtering appliances, software, training and support. (see: www.contentkeeper.ca for more info)

4. **APL Development Software** - APL Borealis Inc. is the primary Canadian distributor for APL Windows-platform products, including: Dyalog APL (UK) and APL+Win (APL2000 - USA).

Other Activities

- **Chair, APL97** - International conference on Array Programming Languages, Toronto, August 1997, 250 attendees.
- **Chair, Toronto APL Special Interest Group, 1996-1998** - during this period, the Toronto APL SIG was a 60+ member language user group and Chapter of the ACM - Association for Computing Machinery. Continuing as past-chair and advisor, website administrator, etc.
- **Board President** (volunteer), PURE - Power Up Renewable Energy Co-operative Ltd.- non-profit co-op with a mission to develop a renewable energy systems and energy conservation strategies for Dufferin County and area. (since 2004)

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Contract history - ongoing and previous projects

Client and/or Project	Duties and Details
BCA Publications Ltd. , Montreal, ongoing, since 1992	
Support and development of timeseries charting system interface; timeseries database and graphical system for economic and financial market information. (Dyalog-APL and J, Windows/PC-based) (see: www.bcaresearch.com)	Highly customized GUI and graphical software for 50+ user base, including publication-quality charting; timeseries database development and support; data-collection and statistical analysis software; system conversion from older APL products/platforms (see: www.aplborealis.com - "APL in Action")
Data Control Technology Inc. , Hornell, NY, ongoing, since 2003	
Development and support for "Mealtracker" - application software system for meal planning in retirement/nursing homes, with installed base of over 700 sites (see: www.mealtracker.com)	Software development for new modules for Mealtracker, including nutrition and consumption monitoring modules; hand-held (PocketPC) systems for room-to-room data collection from individual facility residents (Dyalog APL)
Wisconsin Public Service , Green Bay, WI, ad hoc 2004 - 2007	
1. APL system analysis and migration from mainframe to Windows platform; 2. On-site APL training for WPS employees maintaining and developing APL systems	Consulting, analysis, and execution of migration of WPS's energy system application, from IBM-APL on mainframe to Dyalog APL/Windows, including calculation and reporting applications, database retrieval applications (via SQL/ODBC utilities), etc.
Soliton Associates Ltd. , Toronto, 1999 - 2002	
Software and product support and development. Documentation and training materials development. On-site customer consulting, system customization and training. (Sharp APL - Unix) (see: www.soliton.com)	re: "TimeSquare" - Soliton timeseries relational SQL database product (APL-based): develop user handbook (60+pages); develop and deliver user training courses; TimeSquare vs. Oracle parallel database performance tests - design and implement; ErWin analysis and database initialization coding; APL code performance enhancements, etc.
Various financial/insurance industry clients, Toronto, ongoing, since 1992	
APL training and course development; introductory, intermediate, advanced APL and Windows-GUI with APL; emphasis on code efficiency and maintainability; clients include Manulife, Sun Life, Reuters , etc.	Typically 3-day courses, delivered on site or in other classroom facilities. Courses are usually customized according to client requirements, software environments, APL versions, related products, etc. (see: www.aplborealis.com)
ScotiaMcLeod Inc. , Toronto, 1992	
Equities database support and development (DEC VAX APL); system enhancements, user-interface development	Enhancements and support of an existing database system for financial market information, responding primarily to requests by system users.

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Contract history - ongoing and previous projects (continued)

Client and/or Project	Duties and Details
Reuters Ltd., Toronto, 1992 - 1999	
1. Y2K test plan development, 1999 (Sharp APL/mainframe) 2. Training materials for Data Analysts, 1997-1998 (Sharp APL/mainframe) 3. Software development, 1993-1996 (SHARP APL/mainframe and STSC APL/PC)	1. Develop complete Y2K test plan, including code review and enhancements for timeseries database. 2. Develop extensive training materials, including programming techniques, effective and efficient system usage, and "Magic/ Retrieve" - Reuters DBMS. 3. APL programming and analysis for large-scale database applications, including bond price/yield calculations for fixed-income timeseries data, and various efficiency enhancements.
AMP Society, Sydney, Australia, 1990-1991	
Chief Programmer "Environment Group" portfolio management system for Australia's largest institutional investor	Oversight for large (100+users, Sharp APL) system; troubleshooting; core system and design enhancements; APL training; enhancements; etc.
C.A.Read & Associates, Sydney, Australia, 1988-1991	
Software development for customized financial market analysis systems, customer support, training, documentation (PC and UNIX-based, STSC APL); user training; documentation	Development for: PC and UNIX-based portfolio management systems for financial derivatives (bonds, bills, caps, etc.); customized PC-based system for statistical analysis of financial markets info; customer support for other existing software products
Ivation Software, Ottawa, 1988	
Software conversion (Sharp APL/mainframe to STSC/PC)	Conversion of an existing mainframe database system to the PC.
Braegen Group, Toronto, 1987	
Software development (PC and UNIX-based STSC APL)	Development of banking and mortgage/loans administration systems; report generation software.
I.P.Sharp Associates, Canberra, Melbourne and Sydney, Australia, 1985-1986	
Software development, client support, documentation and training, various projects (Sharp APL/mainframe)	Portfolio management system development and design; statistical software; client support; product documentation; user training; etc.
I.P.Sharp Associates, Toronto, 1982-1985	
Database development and support (Sharp APL/mainframe)	Support and development for numerous economic timeseries databases; database search-engine design and development; daily support for in-house staff database usage inquiries; documentation.