APL Borealis and Dyalog Ltd. are pleased to present...

APL & Excel Integration
A Toolkit for Integrating APL and Excel
(special emphasis on Dyalog APL & Excel, but applicable to all APL users and other Office apps)

July 29th, downtown Toronto, 9:00am to Noon

**An intensive morning session on the key components
of using APL & Excel together for application development**

Location: **Learning Tree Intl., 1 Dundas Street W., 10th Floor**, Toronto (Yonge & Dundas)
Date/Time: Thursday**, July 29th, 9:00am to 12:00noon**
Cost: **$249.00** (includes HST); refreshments provided; **INCLUDES: the new "<u>APL/Excel Toolkit for Dyalog</u>"**

In conjunction with our feature-packed afternoon presentations from Dyalog Ltd. about its APL products, APL Borealis is pleased to offer this half-day session for <u>all</u> APL users.

- **Microsoft Excel** is the de-facto desktop application for data manipulation, especially arrays of numeric data - a.k.a. the Excel "worksheet".

- **APL** is still the most powerful array manipulation tool available.

- Put these two together - *and you get data/array handling on steroids!*

Our emphasis and handouts are on Dyalog APL, but...
Other APL Product Users - can still benefit from this workshop. Understanding the Excel Object Model is the key to this topic. The techniques we will present can be easily adapted to any Windows-based APL platform. Demonstrations and course notes will include examples in other APLs and use of other MS-Office applications (Word, Access, etc.).

Our mini-Workshop will include:

- The Excel Object Model - understanding this complex object, working with Properties & Methods

- APL functionality for working with the Excel object; the Client/Server approach

- APL's view of Excel - the basics of reading & writing Excel when APL is your user interface

- Special considerations - datatypes, dates, best practices, etc.

- Demonstrations and code examples

- The APL Calculation Engine - using APL as a server to the Excel client (brief overview & demo)

- ***** "The APL/Excel Toolkit for Dyalog" ***** - APL Borealis is pleased to welcome senior systems developer **David Crossley** to participate in our workshop and provide all attendees with a free take-home version of his new toolkit for using Dyalog APL with Excel. David originally created a proprietary APL/Excel toolkit while working with Morgan Stanley in New York. He now offers a newly-created version of this excellent suite of APL functions for the APL community. Today's presentation will be the inaugural unveiling for this package.

*** Pre-Registration: is essential ***
Space is limited - please contact us to register for this event as soon as possible.

Please Bring: your laptop loaded with APL & Excel, to make your session "hands-on"
Payment: please bring cash or cheque, or we can send you an invoice
RSVP or Further Info: Richard Procter, APL Borealis, tel: 1-866-888-6377
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