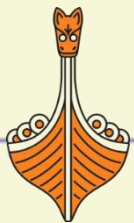




DYALOC

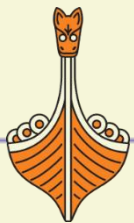
Deerfield Beach
2013



Welcome to

To 78 delegates from:

United States	23
United Kingdom	21
Italy	15
Sweden	5
Denmark	5
Canada	4
Finland	3
South Africa	1
Russia	1
Grand Total	78



US Conference Delegates

	2013	2011	2009	2007
United States	23	37	47	41
United Kingdom	21	16	15	13
Italy	15	21	7	7
Denmark	5	4	5	5
Sweden	5			6
Canada	4	6	7	3
Finland	3	2	1	3
Russia	1	3	1	2
South Africa	1			
Germany		1	1	2
Austria/Switzerland			1	1
France			1	
Australia/New Zealand			2	1
Grand Total	78	90	88	84



US Conference Delegates

	2013	2011	2009	2007
United States	28	37	47	41
United Kingdom	25	16	15	13
Italy	15	21	7	7
Finland	8	2	1	3
Denmark	6	4	5	5
Sweden	5			6
Canada	4	6	7	3
Russia	2	3	1	2
South Africa	1			
Germany		1	1	2
Austria/Switzerland			1	1
France			1	
Australia/New Zealand			2	1
Grand Total	94	90	88	84



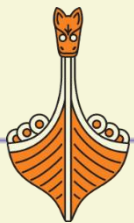
Agenda

- I found the one-on-one interaction with the Dyalog developers extremely helpful
- and the ability to interact with members of the community and from Dyalog is absolutely invaluable.
- From last years questionnaire:
It would be good to know who the Dyalog people are



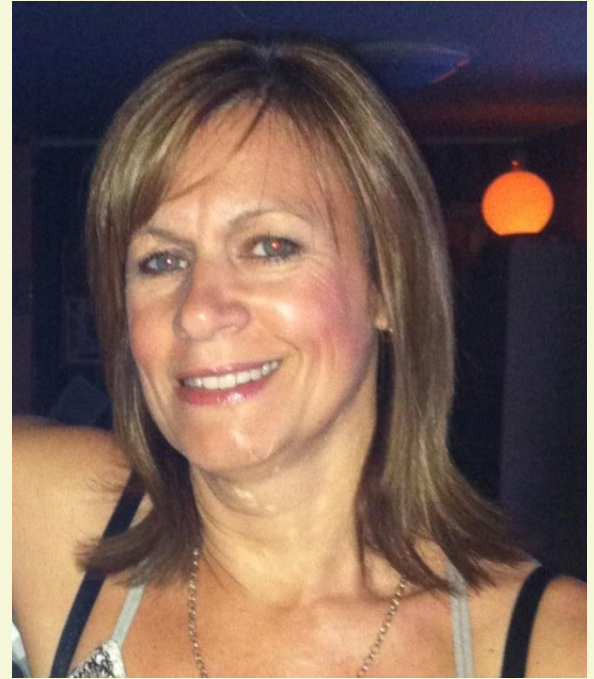
Agenda

- Dyalog
 - Who we are
 - What we do



First things first

- Karen is running this show
 - and she is the one you want to ask about stuff 😊
- She will make household announcements each morning starting now:



MONDAY OCTOBER 21ST

DIALOG DINNER

6:30pm – meet on Oceanfront Patio to
walk down together

7:00pm – dinner at JB's on the Beach
(next to Deerfield Beach Pier)



First things first

- Jason and Jonathan are managing the technical setup
 - Those of you who are giving presentations please see them for any questions about wiring you up



Secondly

- Andy is our operations guy in addition to being our Unix guru.
 - And of most importance to you: He is managing the DSS support and he is in control of our “incident lists” 😊



The Mission

- To allow people with "other skills than programming" to be key contributors to the Programming Process
- To allow Software Engineers to feel comfortable with ***all*** aspects of the use of APL as a major or minor component of a Software Solution



The Customer

- Today, 8 of our 10 biggest customers are software vendors themselves
- They expect to be able to produce high-performance, scalable, secure multi-user applications which will fit into a corporate IT-infrastructure
- They expect to be able to recruit new APL'ers



The Mission

- To allow people with "other skills than programming" to be key contributors to the Programming Process
- *To allow Software Engineers to feel comfortable with all aspects of the use of APL as a major or minor component of a Software Solution*



Talk to the others

- Object Orientation
 - Better paradigm for talking to the environment
- .NET support
 - Consume vast library of resources
- .NET assemblies
 - Package APL code to be consumed by others
- WPF
 - The successor to Win32 and WinForms on Microsoft Windows



Talk to the others

John Daintree

Chief Architect and
implementor of these
interfaces



Talk to the others (yourself)

- RIDE
 - a long time underway
 - Microsoft didn't help
 - We now have a "big" team working on it:



Be like the others

- Unicode
 - APL-char problem solved
- 64-Bit
 - Since 2005 – now becoming standard
- Source Code Management



Be like the others



- Journaling Component Files
 - Coping with network deficiencies
- Dyalog File Server (“ShareFiles” for Dyalog)
 - High performance, secure Component Files



Be like the others



- SQL interface - SQAPL
- TCP/IP comm with SSL Support and Windows Single Signon (Conga v2.3)
 - Security across open networks



Be fast and furious

- APL applications compete quite well with applications developed in other languages when it comes to speed.
- Growing amounts of data and requirements for new functionality require even more speed - and we cannot rely on the processors to provide that any more.



Be fast and furious

- Measuring speed is important
 - “APLMON” and `⌈Profile`
- Interpretative speed
 - Reduce overhead on small functions
 - Look at memory management
- Compilation of APL
 - Working with Aaron Hsu



Be fast and furious

- Primitive function performance



The Mission

- *To allow people with "other skills than programming" to be key contributors to the Programming Process*
- To allow Software Engineers to feel comfortable with ***all*** aspects of the use of APL as a major or minor component of a Software Solution



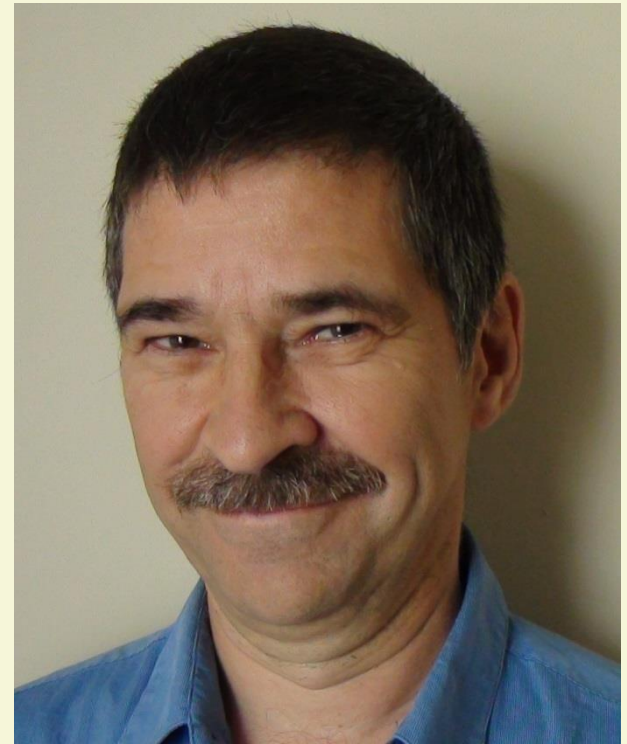
Tools

- MiServer v. 3
 - New OO Framework
- SAWS
 - StandAlone Web Service
- DFS
 - Dyalog File Server



Tools

- SALT
 - Code Management
- User Commands
 - Utility Functions
- Web Lectures



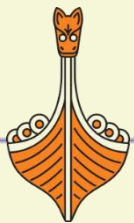
Tools

- SharpPlot



APL the Language

- Moving towards parallel computing with Dyalog v.14
- Language constructs for expressing parallelism
- Functional programming to facilitate compilation



APL the Language

- Function Trains
- Rank and Key



APL the Language

- Futures and Isolates



The Customer

- Today, 8 of our 10 biggest customers are software vendors themselves
- They expect to be able to produce high-performance, scalable, secure multi-user applications which will fit into a corporate IT-infrastructure
- *They expect to be able to recruit new APL'ers*



New APL'ers

- Annual APL contest
 - New format
 - 2 stages – introductory and problem set
 - ~100 participated in stage 1
 - 13 completed stage 2
- We believe that our customers could benefit from looking at the contestants when they recruit



New APL'ers

- Pat Buteux joined last year as US Marketing and Sales
- Pat has been following our educational license holders closely since she joined
- She is also responsible for the Scavenger Hunt



New APL'ers



- Fiona Smith joined this year as Documentation Manager
- She now know what a new APL programmer needs
- The reference card is her initiative
 - It is version 1 so please evaluate and give us feedback.
- She cultivates our vocabularies



New APL'ers



- Fiona Smith joined this year as Documentation Manager
 - She now know what a new APL programmer needs
 - The reference card is her initiative
 - It is version 1 so please evaluate and give us feedback.
 - She cultivates our vocabularies
- Pre-prandial



New APL'ers and Old

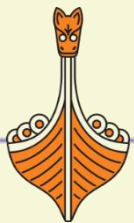


- New website in the works
- Targeted at
 - better captivating newcomers
 - providing platform for know-how sharing
 - organising material better
- Vibeke is in charge of the site and is always chasing good APL stories



Welcome to Dyalog'13

- Enjoy the conference
- Enjoy the Customer presentations
- Enjoy the previews of Dyalog v.14



Welcome to Dyalog'13

- Enjoy the conference
- Enjoy the Customer presentations
- Enjoy the previews of Dyalog v.14
- Enjoy your network

