

ICM Scripting Workshop Schedule – La Jolla, CA



Thursday 21st January	
9:00 - 10:30	Basics of the ICM Scripting Language <ul style="list-style-type: none">• ICM command line: structure, shortcuts, tips• Basic data types : logical,integer,real,string,simple arrays,matrices• Constants, variables, index expressions and operations• Overview of commands and built-in functions• Flow control: loops, conditions and jumps
10:30 - 10:45	Break
10:45 - 12:00	Advanced data types and operations <ul style="list-style-type: none">• String regular expressions and text processing• Tables and filter expressions and related functions and commands, column formulas, plots, data trees• Chemical arrays + related functions and commands
12:00 - 1:00	Lunch
1:00 - 3:00	Molecules, sequences and meshes <ul style="list-style-type: none">• Molecular objects and Atom selection syntax• Sequences and alignments• Graphical objects, views and slides• Other complex arrays types (parrays)
3:00 – 3:15	Break
3:15 – 5:00	Working with Macros and scripts <ul style="list-style-type: none">• Definition, formal vs actual arguments,• Passing by reference vs passing by value• Local variables. Understanding 'keep' concept.• Standalone scripts. Command line argument processing with Getarg

Friday 22nd January

9:00 - 10:30 Graphical User Interface Programming in ICM

- Elements of GUI dialog: combo, radio, ..
- Creating new items for the main ICM menu
- Popup dialogs in table cells and headers
- Popup dialogs in html-documents
- Creating complex dialogs with tabs and wizards

10:30 - 10:45 Break

10:45 - 12:00 Input/Output and External Services

- reading from pipe, ftp, and http
- reading from relational database
- Molcart

12:00 - 1:00 Lunch

1:00 - 2:30 ActiveICM and Web Publishing

- Creating active ICM Documents
- Controls in HTML (using Javascript to communicate with control)

2:30 - 2:45 Break

2:45 - 5:00 Questions and Answers, Requests from Participants

Wine and Cheese Reception

Schedule Subject to Change

Workshop presented by:

Ruben Abagyan Ph.D. (Professor, UCSD)

Max Totrov Ph.D (Principal Scientist, MolSoft LLC)

Eugene Raush, M.Sc. (Principal Developer, MolSoft LLC)

