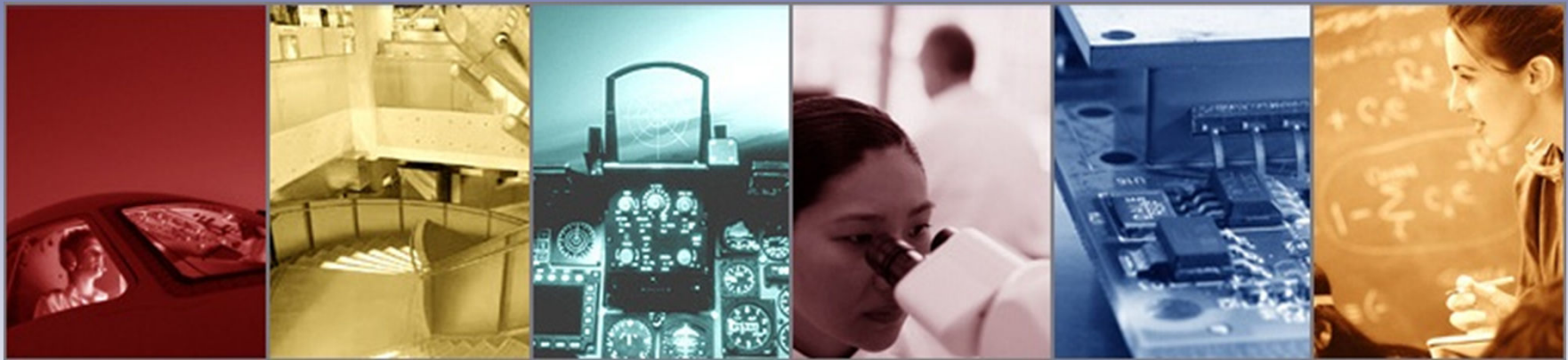# An Introduction to OSLO 6.6

Presented by :
Lambda Research Corporation
25 Porter Rd.
Littleton, MA 01460
www.lambdares.com

Moderator:
Michael Gauvin
Vice President of Sales
Lambda Research Corporation

Presenter:
Steve Eckhardt
President
Eckhardt Optics LLC

Format

- A 25-30 minute presentation followed by a question and answer session

- Please submit your questions anytime using Question box in the GoToWebinar control panel
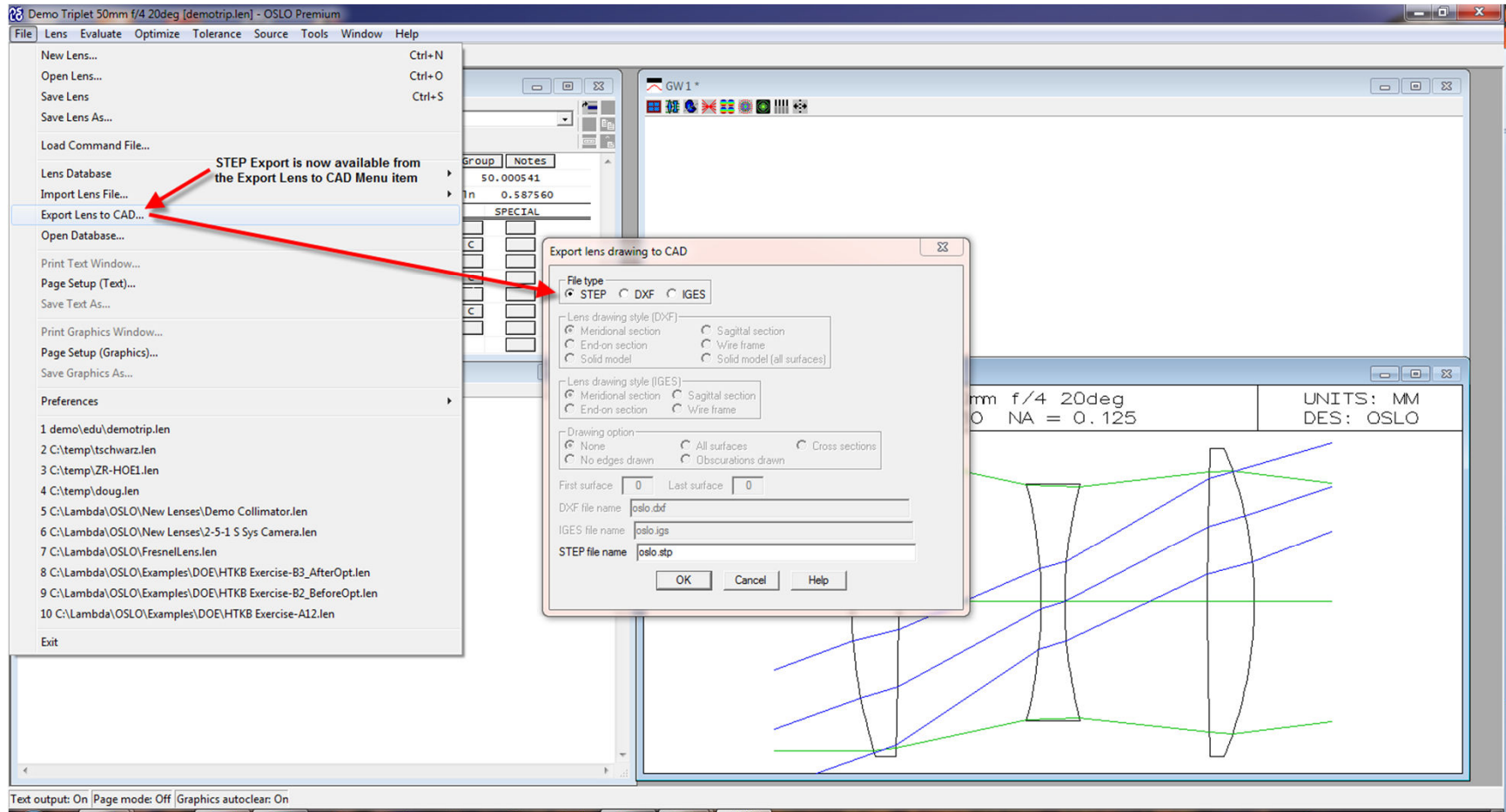
An Introduction to OSLO 6.6

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OSLO 6.6 Webinar Topics:

- ➢ New Features
    - ➢ STEP file export
    - ➢ TOPS merit function
    - ➢ User selectable private folder
    - ➢ Notepad++
- ➢ Updated Features
    - ➢ Updated Glass Catalogs
    - ➢ Updated Help System
    - ➢ Improved CodeV and Zemax translators
    - ➢ Numerous bug fixes

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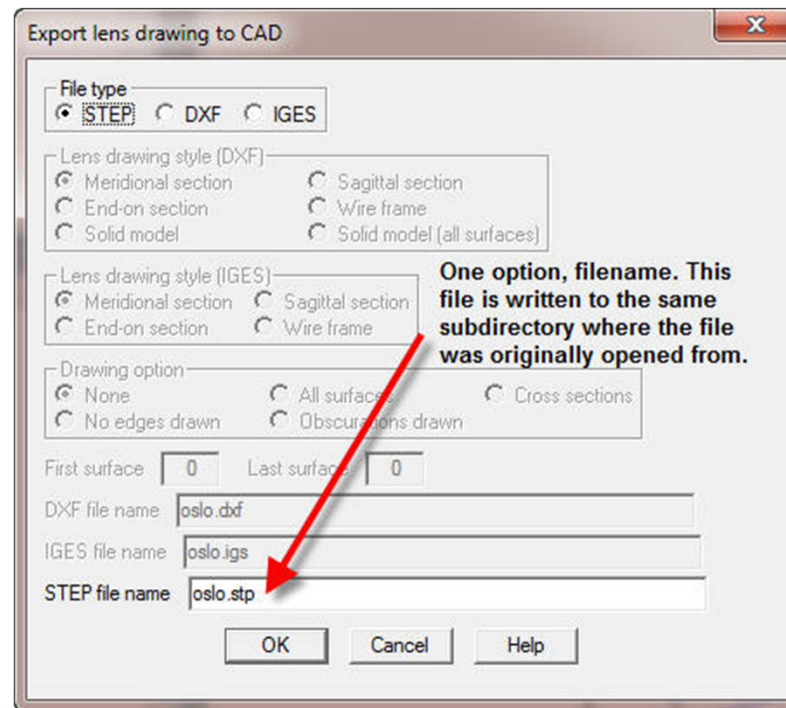**Lambda Research** Corporation

STEP Translator

➢ The Step exporter currently supports any optical system with spherical surfaces.
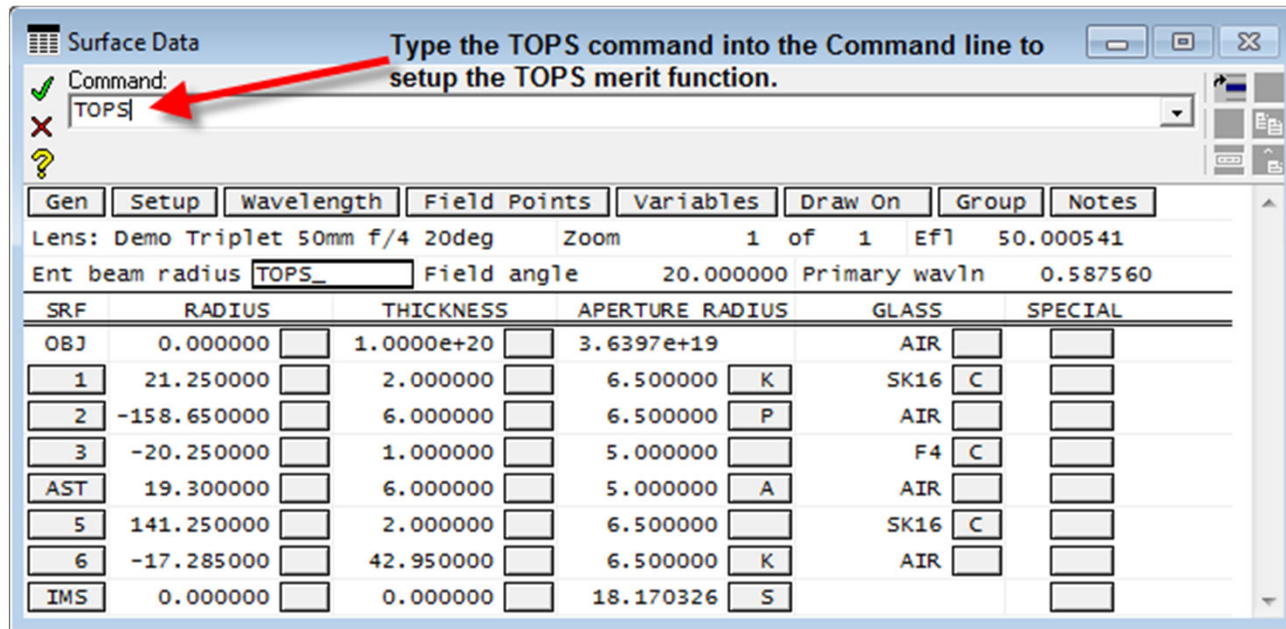
STEP Translator

➢ The STEP export has one option, the name of the output file.
➢ This file will be written to the original subdirectory of the current lens.
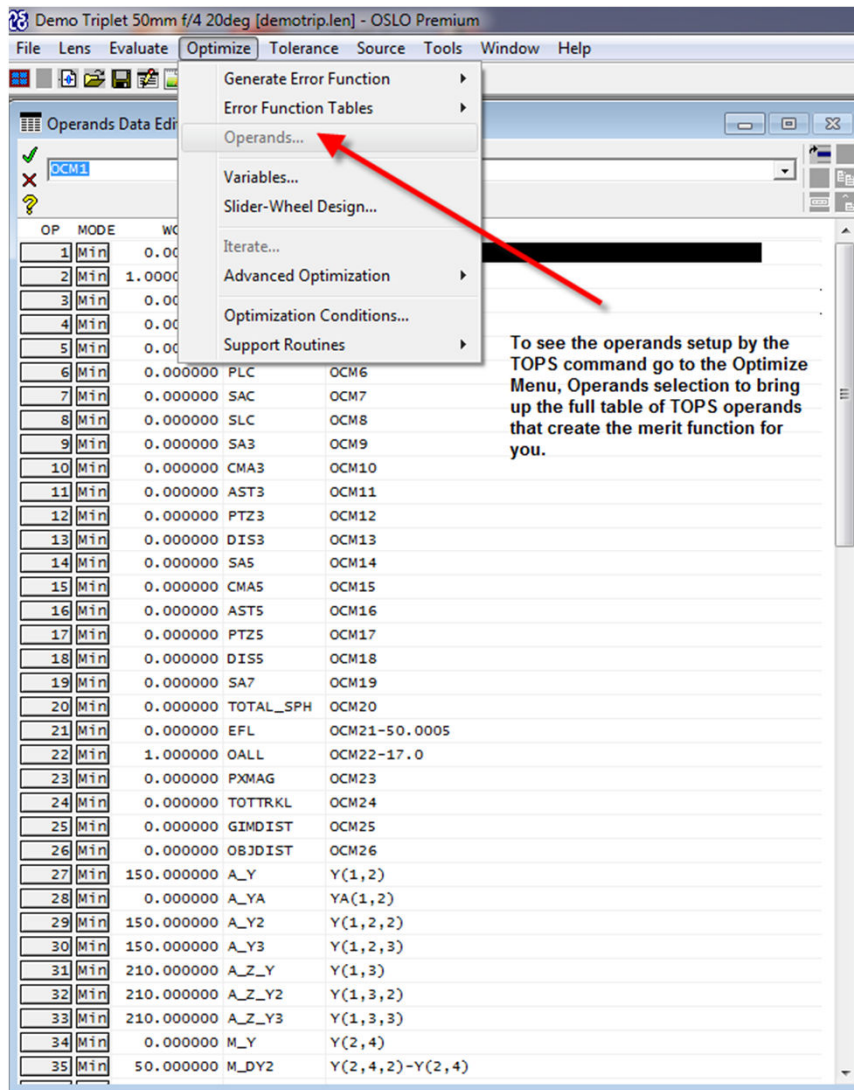
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TOPS Merit Function

This new merit function is based on those developed in the 1960s and 70s by Prof. Charles Wynne, Mrs. Prudence Wormell, Dr. Michael Kidger, David Freeman and others. One version (tops) will only work with the Standard and Premium editions of OSLO, but a simpler one (tops_edu) will work with OSLO EDU and OSLO Light. Both will generate an error function which can be used "off the peg" for rapid improvement of many types of rotationally symmetric lens, or tailored to finalize the design by adjustment of weights and targets.

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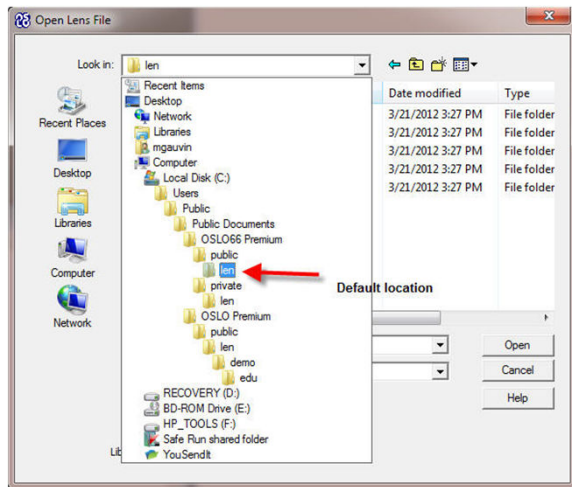
TOPS Merit Function

To use this merit function, simply open a lens, define some variables, and type `tops` or `tops_edu` on the command line.

The function will define all of the appropriate operands, and you will be ready to optimize.

User Selectable Private Directory

- Earlier versions of OSLO always used the same location for all of OSLO's data files, for instance C:\Users\Public\OSLO EDU.
- Each version of OSLO has a corresponding set of compiled resource (.amo) files, so it is necessary to keep them separate, meaning that an optical designer could only operate one version at a time.
- Starting with version 6.6, OSLO will use a different directory for the data files that includes the version number, for example OSLO66 EDU. This will make it possible to compare the results from a new version with those of the old without uninstalling and reinstalling.

User Selectable Private Directory

➢ OSLO 6.6 allows each user to choose the location of their private folder.
  ➢ Several optical designers can use OSLO on one
  ➢ Each designer can have an OSLO folder in their "My Documents"
  ➢ Each designer can have a customized a_menu.ccl file.
  ➢ Lenses with the same name will not overwrite each other.
  ➢ Best of all, this increases security for each user.

➢ When you launch OSLO 6.6 for the first time, you will be prompted to enter a location for the new private folder.
➢ A default path is provided, but you are free to put it anywhere.
  ➢ You can change the location at any time when OSLO is not open
  ➢ edit the oslo.ini file in %APPDATA%\Roaming\Lambda Research Corporation\Oslo
  ➢ either move the folder to the new location
  ➢ or allow OSLO to create a new one with the factory default files.

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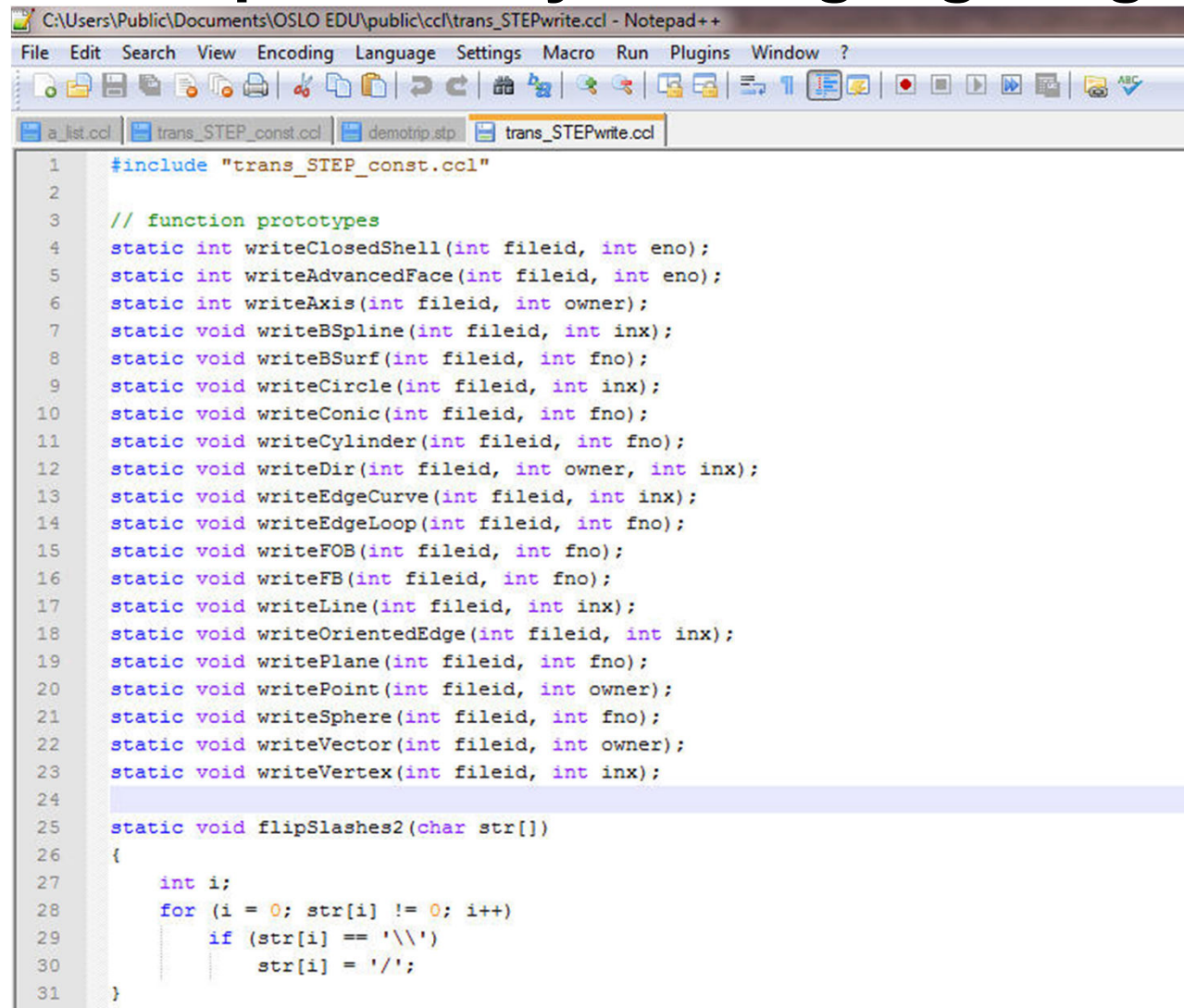
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Notepad++

➢ Notepad++ is directly available as an icon under the OSLO main menu

➢ Notepad++ is an open source text editor that is useful for many general tasks.

➢ Lambda Research has added language definitions to Notepad++ that enhance its usefulness for CCL programming.

➢ Support for Notepad++ capabilities that relate specifically to OSLO, such as CCL syntax coloring and function parameter hints, is provided by Lambda Research

➢ Support issues that relate only to Notepad++ should be addressed via the Notepad++ support forum. You can get to this forum through the Notepad++ Help menu.

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Notepad++ - Syntax Highlighting

Notepad++ - CCL Hints

```
40        str[strlen(tmpstr)]=0;
41        prin|
42   }    powell
43        pre
44   cmd  print                          start, i:
45   {    printf
46        print_point_spread_scans
47        ¹
48            str1[0] = 0;
```
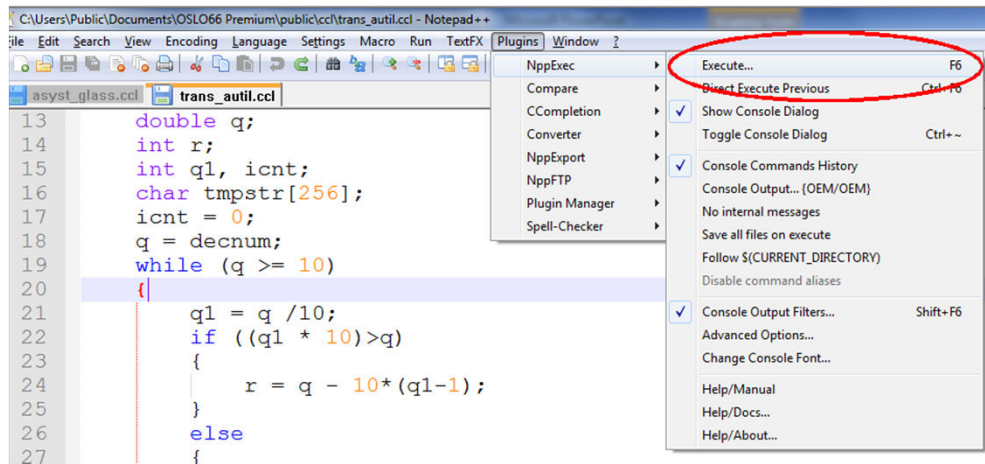
Command hints: start typing, and Notepad++ will list commands.

```
41        powell(|
42   }         cmd powell (int Powell_initialization, int Nbr_iters)
43
```

Parameter hints: type the opening "(" and Notepad++ will
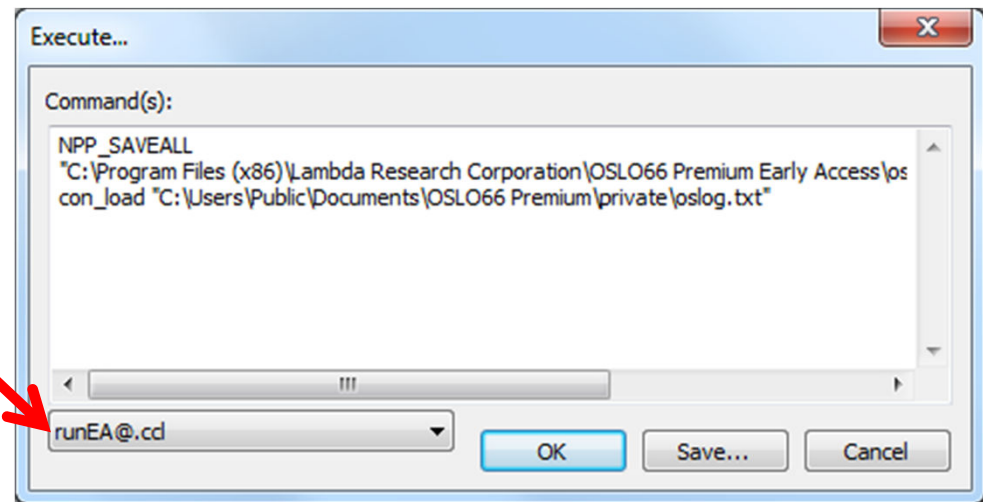display the function parameters

Notepad++ - Compile CCL

Hit F6 or select
Plugins > NppExec > Execute

Choose `runEA@.ccl`
for early access
or `run@.ccl` for release.

Results will be shown at
the bottom of the main
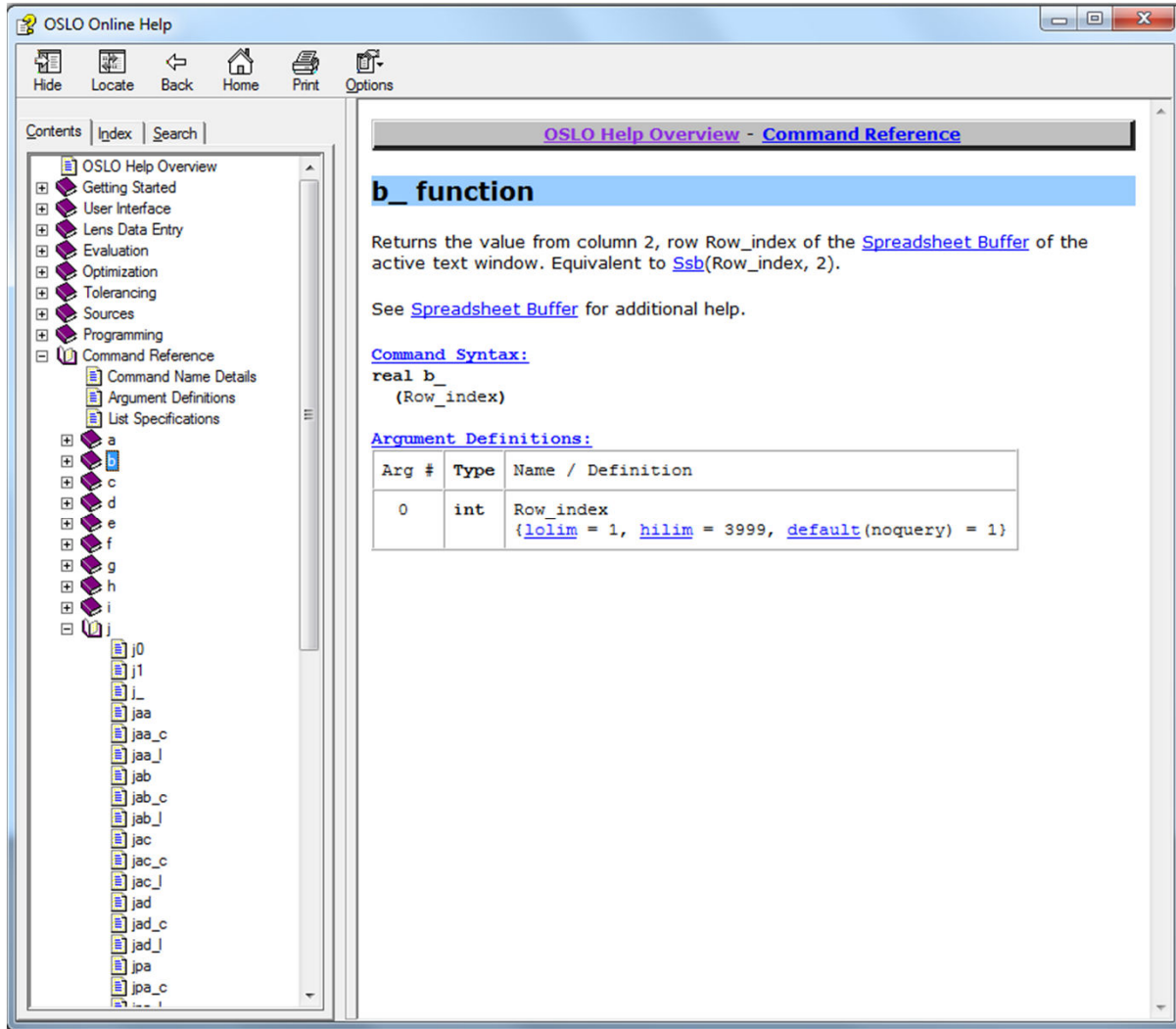window.

Updated Features

Updated Feature – Q-type Aspheres

- ➢ By industry consensus, Forbes aspheres are now Q-type aspheres.
- ➢ This change has been incorporated into OSLO.
- ➢ Additional details are in the OSLO Help system.

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Updated Feature – Glass Catalogs

➢Updated glass catalogs
  ➢ CDGM
  ➢ Hikari
  ➢ Misc
  ➢ Sumita
➢All glass catalogs are now current.

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Updated Feature – Help System

All of the new features are documented in the radically improved OSLO Help system.

The Command Reference section in the Contents is now populated, so you can look up commands alphabetically.

Updated Feature – Improved Lens Importers

➢ The CodeV and Zemax lens design importers are more robust.
➢ Specifically, importing glasses is much more effective.

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Current Promotions

OSLO Promotion

Customer who have purchased OSLO in the past, and are currently out of support, can update to the current release of OSLO, OSLO 6.6, with one free year of support, for one low price. The price will depending on their edition of OSLO. Details of the promotion are shown below:

OSLO PROMOTION LIMITED TIME : APRIL 1, 2012 THROUGH JUNE 30, 2012	
Note: * Good for anyone who previously owned OSLO * Multiple license discounts do not apply *	
OSLO Node Locked License	OSLO Promotional Pricing
OSLO PREMIUM	$1,500
OSLO STANDARD	$1,125
OSLO LIGHT	$750
Example:	
OSLO Premium Node one year out of support -- Cost to customer $1500.00	
OSLO Premium Node ten years out of support -- Cost to customer $1500.00	
OSLO Network License	OSLO Promotional Pricing
OSLO PREMIUM	$1,875
OSLO STANDARD	$1,500

Thank You

Questions and Answers

Additional Resources

- Past TracePro and OSLO Webinars
  - http://www.lambdares.com/webinars/
- Knowledgebase
  - http://www.lambdares.com/technical_support/knowledge base/
- OSLO Training Classes
  - http://www.lambdares.com/technical_support/training/

For Additional Information
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