



Focus on Microscopy 2004
Drexel University, Philadelphia
Sheraton University City



Workshop B:
Multidimensional data presentation techniques

Dear Colleagues,

We would like to invite you to a workshop entitled "Multidimensional data presentation techniques" which will take place on April 4 from 12:30 to 4:30 just before the opening of the "Focus on Microscopy 2004" Conference in Philadelphia.

<http://www.cyto.purdue.edu/FOM2004/> - workshop web page

<http://www.focusonmicroscopy.org/> - FOM2004 web page

This workshop will include an interactive tutorial on the use of a variety of techniques for multidimensional microscopy data presentation. Many advanced visualization packages for microscopists are commercially available. Similarly, plenty of applications for video processing and presentations can be found on the market. However, transforming complex data sets into the actual presentation for use in lectures or in web sites is not as easy as it seems. There are a variety of tricks-of-the-trade, useful suggestions, and some very nice inexpensive or free software obtainable. We would like to share our experiences and tell you about them!

You will learn how to present static 2D images as well as 3D datasets in the most efficient way. We will show you how to produce short animations using data from confocal/MP systems in highly compressed MPEG4-based formats. You will receive a handout and CD-ROM containing key materials presented in the workshop as well as a significant number of really valuable free utility software packages.

We will demonstrate:

- How to compress microscopy data. What are the pros and cons of compression? Does it affect final results? What about lossy and lossless compression?
- How you should present your 3D data. How to prepare 3D image reconstruction? How to create anaglyphs? How to protect the data in an anaglyph when you compress it? How to make a movie anaglyph/animation?
- How to create an animation from a 3D construction.
- How to create movies that are playable in PowerPoint, on web pages, or with other media.
- How to understand codecs and their associated problems.
- How to edit animations/movies using high-speed command line processing.
- How to you add your name, logo of your institution, or other info into the movie.
- How to deal with sound overlays.
- How to reproduce a movie-making process. You will learn simple command line macros that are really fast!

If you are registered for the workshop, please take some time to take our pre-workshop survey. Your participation will help us greatly with the workshop preparation. We would like to know about your expectations, your level of experience in multimedia multidimensional data presentation techniques, and the issues you consider to be important. The link to the survey is present on the workshop web page.

Bartek Rajwa, Jennie Sturgis & J. Paul Robinson

Purdue University Cytometry Laboratories
Hansen Research Building
201 S. University Street
West Lafayette, IN 47907
Telephone: (765) 494-0757
Fax: (765) 494-0517
Web: <http://www.cyto.purdue.edu/>

The organizers of the workshop gratefully acknowledge the assistance of Media Cybernetics Corporation, the producer of Image-Pro Plus - an image analysis software package for fluorescence imaging, quality assurance, materials imaging, and various other scientific, medical, and industrial applications.

