



## **Quick Photoshop for Research workshop:**

We are pleased to announce that Jerry Sedgewick, the author of **Quick Photoshop for Research**, will be here at the University on August 19-22, 2003 to present a 3 ½ day workshop. The workshop will be held in Biology Learning Center in the Koffler Building on the main campus. The cost is \$295.00 for the entire workshop and that includes a copy of the book **Quick Photoshop for Research**. If there is space available, users will be able to attend selected sessions of the workshop (see <http://imbueinc.com/seminars.html> for pricing and details). We are notifying members of the SWEHSC a few days before the rest of campus, but please register ASAP as we expect to fill the workshop. To register go to the secure on-line form at: [http://imbueinc.com/seminar\\_signup-tuscon\\_August.pdf](http://imbueinc.com/seminar_signup-tuscon_August.pdf)

This is an outstanding opportunity to learn more about Adobe Photoshop from an experienced user who has the interests of researchers in mind. As a point of comparison, a similar in-town Photoshop seminar costs \$399 (CompuMaster), lasts only two days and is geared more towards the needs of graphic design professionals.

Topics that will be covered in the Quick Photoshop for Research workshop include:

- Quick Photoshop for Research I (*introduction to Photoshop software*), II (*lettering and making plates*)
- Photoshop for confocal, genomics, x-rays, electron microscopy, light microscopy and molecular biology
- Balancing color for publication (RGB to CMYK), maintaining resolution in acrobat (PDF) files
- Photoshop for quantization

If you have any questions please contact Renee Benally (626-3531 or <[rbenally@email.arizona.edu](mailto:rbenally@email.arizona.edu)>).

## **Software upgrades on the Zeiss LSM multiphoton:**

The Zeiss 510 LSM multiphoton software was recently upgraded from version 3.0 to 3.2. The software upgrade has several new and useful features such as:

- **Interactive tools for quantitative co-localization analysis** - Co-localization is the term used to describe the spatial overlap of two fluorescent dyes. Users can now document the degree to which two fluorescently labeled compounds occupy the same space. Users can export their numerical data, save and reuse the analysis parameters, and label up to 99 regions of interest.
- Other additional features include **improved and easier to use “online fingerprinting”** software. Online fingerprinting uses the spectral detector (META) on the Zeiss and can “unmix” (separate) the overlapping emission wavelength curves of two fluorescent dyes.

## **Free Image analysis software:**

ImageJ is freely available, NIH-developed software for the analysis of digital images. ImageJ runs on any computer (Windows & Macintosh) that has a web browser with Java support. There is even a plug-in that allows users to open the native \*.lsm files from the Zeiss confocal. For more on ImageJ, see: <http://rsb.info.nih.gov/ij/> .

## **Instrumentation scheduling:**

Do you have a shared instrument in your lab/department that sometimes runs into scheduling conflicts? The Arizona Research Labs Biological Computing Facility has developed free software called the “OnCore Facility Scheduler”. This powerful on-line scheduling program is in use by the AHSC Imaging facility, MCB and the AZCC to name a few places. The program has a number of powerful administrative features including restricting the hours a resource can be used and restricting access to pre-approved users. See the program on-line at: <http://schedule.arl.arizona.edu/> .

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