



Confocal news:

- The Leica TCS-4D confocal microscope has moved to room G-109 of the Basic Research Labs (NW of the UMC emergency room). For the time being the on-line scheduling, user passwords and billing remain unchanged, however some of these may change at the end of the year. The door to this room has a keypad lock, contact Doug Cromey for the code.
- The Zeiss 510NLO-Meta confocal/multiphoton microscope was installed in June 2002 in LSN 410. Doug Cromey and Barb Carolus (UA Biotechnology – imaging facility) are currently familiarizing themselves with all the functions and features of the instrument.
- The Biotechnology imaging facility is planning to bring in Troy Tholen, the Zeiss advanced imaging representative for our area, to do a one day training session for the Zeiss 510 for existing confocal users. This class will probably occur sometime in September. Once details are finalized, we will send an email to current confocal microscope users.
- If you would like to learn more about the capabilities of the Zeiss multiphoton, or if you have an application that doesn't work on the existing confocal, contact Doug Cromey.

Important Laser Safety training:

The University's Radiation Control Office provides a 2hr laser safety class entitled "Non-Ionizing Radiation Protection Course". Radiation Control has informed us that due to the design of the multiphoton laser on the Zeiss 510, all users who will be operating the system when that laser is used are **required** to attend the training class. To register for the class, fill out the RC-088 and RC-115 forms with Barb Carolus listed as the permit holder for the laser. Send the forms (via campus mail) to Radiation Control Office, PO Box 245101 at least 10 days before the scheduled class. If you have any questions, please feel free to contact us.

- Forms (PDF files) - <http://www.radcon.arizona.edu/forms/>
- Fall class schedule - <http://www.radcon.arizona.edu/classes/#nonion>

Image Analysis system:

- The Core purchased a new arc lamp for the inverted Olympus microscope and an FITC filter cube. We now have the capability of capturing wide-field fluorescence images from DAPI, FITC and TRITC labeled specimens with this system.
- The system in AHSC 4233 can capture digital grayscale images of brightfield, phase contrast, DIC and fluorescence images. This system can build large montage images by "stitching" together a series of images acquired using the motorized stage. This system can also do overnight time-lapse image capture and the images can be output as AVI movies. This system can be used to perform measurements on digital images acquired on this system or on other systems (confocal, deconvolution or other microscopes).
- The Cancer Center Compix can acquire color brightfield microscopy images (e.g., images of histologic stains). We are working with the AZCC to see if we can bring both Compix systems to the same software version number, so that data files can be analyzed on either system.
- We will be upgrading the AHSC Compix to software version 5.0 in September.

Our new employee:

The Experimental Pathology Core is please to welcome research specialist Renee Benally, MS to the team. Renee is a recent graduate of Northern Arizona University. We will be bringing Renee up to speed on the workings of the Core and begin introducing her to some of the labs in the coming weeks.

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