



UConn

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ISSUE : 01

FACILITIES

- Advanced Light Microscopy
- BioSupply
- Biophysics
- Electrical/Electronic: Technology & Repair
- Flow Cytometry
- Mechanical/Glass: Design & Fabrication
- Microbial Analysis, Resources, & Services
- Nuclear Magnetic Resonance
- Proteomics & Metabolomics

NEW

- 1.1: This newsletter! We're currently aiming to circulate it quarterly, but it will depend on how much useful material we have. Nobody likes useless newsletters—us included. If you're curious, this newsletter was designed by Sam Heanue (UConn '18 BFA), one of our incredibly talented Squared Labs undergrads [who, sadly for us, graduated last spring].
- 1.2: Assuming we can find a Director in time, starting in the spring, COR²E will be taking on the management of the Statistical Consulting Service (SCS) in close collaboration with the Department of Statistics [which has done an incredible job in growing the service over the past decade].

JOBS

STATISTICAL CONSULTING SERVICE (SCS)//DIRECTOR
 We are launching a search for a Ph.D. level statistician to manage and operate the SCS, which serves dozens of faculty across multiple UConn campuses.
 If you know someone who might be a good fit for this position, please let us know.



PROTEOMICS & METABOLOMICS

We've been told that there are still people that don't realize that the PMF has been open and accepting samples since August 2017. The facility is off to a great start with over 40 unique users that span the entire institution. For those at UCH, PMF Director Dr. Jeremy Balsbaugh spends the first Thursday every month consulting with faculty in Farmington. Contact Dr. Balsbaugh about turning your proteomics dreams into a reality.

BIOPHYSICS

As the recipient of an Academic Plan award, the Biophysics facility acquired a state-of-the-art Beckman Optima Analytical Ultracentrifuge (literally one of the first installed at an academic institution anywhere in the world). If you study biological macromolecules and have not yet met Biophysics Director Dr. Heidi Erlandsen, then stop what you are doing and send her an email.

ADVANCED LIGHT MICROSCOPY

The ALM facility recently acquired a Photometrics Prime 95B sCMOS camera that is extremely sensitive and fast. The camera is mounted on the Andor system and can be used for imaging with transmitted light (brightfield, DIC, phase contrast), TIRF, and widefield fluorescence. It also has incubation for imaging live specimens. We tried to think of a joke to put here, but couldn't. For information contact ALM Director Dr. Chris O'Connell.

ELECTRICAL/ELECTRONICS: TECHNOLOGY REPAIR

If you have a piece of lab equipment that is no longer working and out of warranty/service contract please refrain from throwing it away, or contacting an external vendor about repair, and instead contact Electrical Director John Pudelkiewicz. We're yet to find a piece of equipment that John cannot fix (and at a fraction of the cost of other options). His most recent save was a \$20K centrifuge.

FLOW CYTOMETRY

The Flow Cytometry facility has installed and validated a BSL2 enclosure for its FACSAria II cell sorter, which will open up whole new worlds of sorting capabilities—or at least the ability to sort human cells and cells with viral vectors. If you are as excited about this as we are, contact FC director Dr. Wu He.

MECHANICAL/GLASS: DESIGN & FABRICATION

The Mechanical facility purchased a new ShopSABRE CNC router that can cut through a variety of materials including wood, acrylic, plastic, and foam. So saying they can "build anything" is no longer an exaggeration. Contact Mechanical Director Mark Drobney for more info.

Also important, but less exciting, the scientific glass drop-off/pick-up location has changed (navigate over to core.uconn.edu/news for more info).

We haven't included contact details for the facility directors, because if you can't find an email on your own, you probably shouldn't be using expensive research equipment ☹

COR²E UPDATES

labs

For those who are not aware [squared labs] is a multimedia studio comprised of UConn's top undergraduate student developers, designers, marketers, illustrators, etc. Together they build stuff that support UConn Research. Their current major project is a new online core research facility booking/management system.

Find them online @ squaredlabs.uconn.edu

illustration

[squared labs] recently launched a new scientific illustration service. If you have a request for journal cover art we'll do that for free! If you need to spruce up some tired old figures for a paper/grant or need new ones created, we can do that too (at a very reasonable rate). If you have questions let us know at squaredlabs@uconn.edu.

Submit a request online @ illustration-request.core.uconn.edu