

Research. Collaboration. Entrepreneurship.

M UNIVERSITY OF MICHIGAN
NORTH CAMPUS RESEARCH COMPLEX



May 2012

Welcome



Welcome to the May issue of NCRC momentUM. Labs from the Department of Emergency Medicine are soon to move to NCRC. We are excited to announce that in a new collaborative partnership, the U-M Electron Microbeam Analysis Laboratory (EMAL), will be located at NCRC. We have an update on new IT developments at NCRC, providing research and operational support. As always, I welcome your feedback.

[David Canter](#), Executive Director, NCRC

Department of Emergency Medicine Labs to Move to the NCRC

Pioneering research on acute illnesses and injury expected

James O. Woolliscroft, M.D., the Dean of the U-M Medical School, has [announced](#) that Robert W. Neumar, M.D., Ph.D., will become the new Chair of the [Department of Emergency Medicine](#) at the University of Michigan Medical School on July 1st, 2012. John Younger, M.D., M.S., the Associate Chair for Research in Emergency Medicine will move his laboratories to building 26 at the NCRC at the end of May both to co-locate with Neumar and to join the Biointerfaces Institute. Joining the group in July will be Kevin Ward, M.D., the current director of the Virginia Commonwealth University Reanimation Engineering Science Center.

Their work will involve the study of critical injury and illness, including causes, diagnoses and treatment. The labs will serve as a scientific home and platform for basic scientists, clinical investigators, inventors, and entrepreneurs across the university interested in the care of patients with life-threatening acute illness and injury.

Younger says there are very few centers that can effectively quilt together the many research activities needed to take new ideas in the basic sciences-

The University of Michigan Electron Microbeam Analysis Laboratory (EMAL) to move to NCRC

Excellent potential for collaboration and shared equipment

A recent collaborative partnership between the Engineering and Medical schools at U-M, enabled by Deans Munson and Woolliscroft, is allowing NCRC to become home to The University of Michigan [Electron Microbeam Analysis Laboratory](#) (EMAL). EMAL is a university-wide user facility for the structural and chemical characterization of materials at the nanoscale. With a user base of over 600 people and visited by about 120 users per week, its operations are currently located in the Space Research Building on the U-M North Campus.

An advantage of this move is the opportunity for the development of collaborations and shared equipment with the Medical School Microscopy Image-analysis Lab, located around the corner from the proposed EMAL site.



Steven L. Kunkel, Ph.D., Senior Associate Dean for Research and Endowed Professor in Pathology Research, said, "The Medical School has had a long

biological, physical, or theoretical - and carry them to clinical application in the study of critical illness. Their goal is to make this type of research a reality at U-M.



"The philosophy of multidisciplinary collaborations of the NCRC and the proximity to both the Center for Arrhythmia Research and Biointerfaces program was important. The NCRC's approach to biomedical research and development with an eye

towards translation and commercialization - this is something we wanted to be a part of and contribute to," says Younger.

Behind the Scene: NCRC IT Support Keeps Up with Growing Needs

MSIS Solutions Center is a great resource

IT support has kept pace with the growth at NCRC by providing centralized solutions, as well as planning and implementing several IT and communications projects. NCRC partners include: ITS Networking & Telecommunications (ITSCOM), Medical Center Information Technology (MCIT), Medical School Information Services (MSIS), Office of Enabling Technologies (ETO), Michigan MultiMedia (M3), Educational Technology Services (ETS) and Information Services Solutions Center (ISSC).

MSIS Solutions Center: NCRC Site-Wide IT support includes a single accountable organization for servicing issues and requests that include desktop, AV, network and phones.

Some of the recent projects include:

EMS (Event Management Systems): a room and resource scheduling application being deployed by MSIS, replacing the current use of Meeting Maker for scheduling NCRC conference rooms.

Konica Print/Copy/Scan: The Konica Minolta Equitrac Follow-You-Printing with the following features will be rolled out in June:

- *Secure printing* sets up virtual print queues that holds jobs until they are released at a Konica



standing relationship with the College of Engineering and we are excited to partner again with them for the

EMAL's move to NCRC. This is another example of how we are able to come together to solve problems and provide resources to both schools, as well as the research community at large."

Dr. Allen Hunter, a post-doctoral researcher with Professor Emmanuelle Marquis' research group, preparing an atom probe tomography sample with the new FEI Helios NanoLab 650 Dualbeam FIB-SEM.



The proposed move to NCRC building 22 will allow EMAL's newly acquired state-of-the-art instrumentation to operate optimally, since the new location has field and vibration characteristics that are much superior to the current 25 year old facility.

According to Dr. John Mansfield, who manages the



North Campus EMAL, "This is an exciting move for us. For example, it will allow our new JEOL 3100R05 aberration corrected electron microscope to operate at its highest resolution and bring advanced imaging capability to University of Michigan

researchers. Our new FEI Helios 650 focused ion beam workstation and ultra high resolution scanning electron microscope will allow stable sub-nanometer imaging and analysis; this instrument is the highest resolution scanning electron microscope in the State of Michigan."



Distribution of occupied space at NCRC provides an interesting look at how the buildings and labs are currently being used by the various U-M and external groups (May 2012), as well as projected use by December 2012.

holds jobs until they are released at a tonica machine.

- *Follow-You-Printing* extends the secure printing functionality to allow users to pull their jobs from one secure print queue to another, even across print servers.
- *Client billing* enables the use of billing codes.
- *Limits access* to prevent unauthorized users.

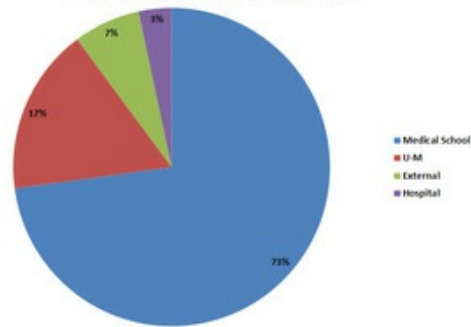
AV Room Upgrades:

NCRC meeting rooms will be upgraded this year; phase 1 will include 36 rooms.



Digital Signs: support wayfinding and university-wide information dissemination.

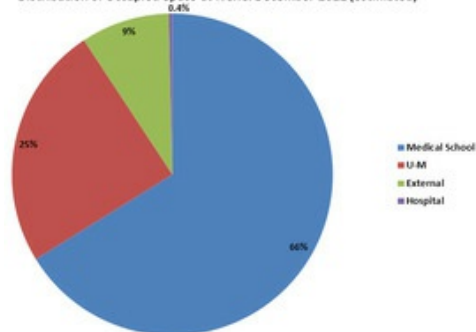
Distribution of Occupied Space at NCRC: May 2012



Distribution of Occupied Space (Net Assignable Square Feet)

	May 2012	December 2012 (estimated)
Medical School	215,400	291,700
U-M	48,213	108,047
External	20,056	39,406
Hospital	9,890	1,556

Distribution of Occupied Space at NCRC: December 2012 (estimated)



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