

The Expanding World of Nanofabrication – *an update from NanoFabrication Kingston*

July, 2018

Good day,

You are receiving this important update as a user of the NFK lab, as a supervisor of a user, or as someone who requested to receive these updates.

Processing at NFK: Talk to staff, we can be helpful!

We would like to remind everyone that communication with staff about your processing can make your project go much more smoothly. It never hurts to let us know what you're up to, but specifically please send us an email when:

- You want to use equipment or a process you haven't used before
- You want to use a chemical or material you haven't used before
- You want to sputter something (so that we can have the target ready for you)
- You want to use the RIE (so we can have the gases ready for you)
- You want to use the 20x (high-resolution) objective on the maskless photolithography system (so we can install it for you)
- You want to use the rotating/tilt module on the Raith SEM (so we can install it for you)

Equipment status:

Evaporator

The cryopump has been replaced on the e-beam evaporator, so now it can achieve good deposition vacuum in just a couple of hours. And it's much quieter!

PVD-75 Sputter system

The RF source now has automatic tuning, so you don't have to manually adjust the reflected power.

3D Printer

The 3D Printer has a new tray film and resin. Ask us about optimal curing time and other parameters.

Photo Contest!

To celebrate the 500th prototype fabricated through CMC Microsystems' [MNT Financial Assistance program](#), CMC is holding a photo contest! Professors and students are invited to submit images from research enabled at MNT fabrication labs like NFK (CMC subscription is not required to enter the contest). Winning photos will be featured in a deck of playing cards showcasing Canada's MNT network and its innovations. The submission deadline is midnight on Tuesday, **July 31st, 2018**. For more information and to submit online, follow the link [here](#).

We want to hear from you

NFK is always interested in hearing about your research. Has your work at NFK led to a publication or conference presentation? If so, please let us know. We also welcome feedback about our tools and services. Feel free to forward your questions, concerns, complaints, or praise to [me](#), and we will do our best to respond.

TEXPO Grad Student Competition and Exposition

Established by CMC Microsystems, TEXPO offers graduate students in Canada's National Design Network a unique opportunity to demonstrate their novel applications of micro-nano technologies to industry representatives and academic peers. Application deadline is **Aug. 20, 2018**.

[Details, past winners, and application form are now online.](#)

TEXPO is part of [Innovation 360](#), a national conference organized by CMC Microsystems and NanoCanada being held in Toronto on October 23-24. The conference features speakers from universities, government, and industry, as well as a vendor exhibition and research poster session.

See you at the lab!

Graham Gibson

Lab Operations Manager, NanoFabrication Kingston
Innovation Park at Queen's University
CMC Microsystems
945 Princess St.
Kingston, ON
K7L 0E9
gibson@cmc.ca

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