



Canadian Centre for Electron Microscopy joins Canadian FACT Network

May 1, 2018

CMC Microsystems is pleased to welcome the Canadian Centre for Electron Microscopy (CCEM) to the Fabrication, Assembly, Characterization and Test (FACT) Network, a cooperative ecosystem of service-oriented labs offering expertise and services for fabrication, assembly, characterization, and test of micro-nanotechnologies.

Based at McMaster University, the CCEM is the sixth, and newest, addition to this network of R&D labs from academic institutions across Canada.

The CCEM's advanced electron microscopy capabilities and expertise enable researchers in academia and industry across Canada's National Design Network® to study materials with unprecedented spatial and energy resolution and help researchers to solve problems of materials performance, optimize materials production methods or design new materials.

"The CCEM's participation in this network makes it easier for academic and industrial researchers to access its world-class facilities and expertise," says Gord Harling, President & CEO of CMC Microsystems, which championed the formation of the FACT Network in 2013. "They strengthen our overall nanofabrication environment and create new opportunities for researchers to innovate quickly and efficiently. We welcome them to the FACT lab network."

"Innovation in material properties and applications is essential to the development of next-generation technologies, so we are proud to be playing a role in this network," says Gianluigi Botton, Scientific Director of the CCEM and Canada Research Chair in Electron Microscopy of Nanoscale Materials, McMaster University. "It enables us to extend our offerings, particularly in characterization services, including ultrahigh-resolution scanning electron microscopy, plasma focused ion beam imaging and micromachining, atom probe tomography, and transmission electron microscopy with energy loss spectroscopy (EELS) for elemental mapping of semiconductor devices, to researchers and companies across Canada."

In addition to the CCEM, current network members are the nanoFAB (University of Alberta), the Toronto Nanofabrication Centre (TNFC, University of Toronto), GCM Lab (Polytechnique Montréal), the Interdisciplinary Institute for Technological Innovation (3IT, Université de Sherbrooke) and 4D LABS (Simon Fraser University).

"The service capabilities at the CCEM strategically complement those of the other labs in the network," says Andrew Fung, who manages business development in the FACT Network. "The expertise of its team is key to making these techniques accessible to technology developers across Canada working in electronics, photonics, and nanomaterials."

CCEM announced its entry into the FACT network at the international FIB SEM group's 11th Annual Workshop, held in Canada for the first time at McMaster University, and co-sponsored by the CCEM.

FACT Network labs offer academic and industrial clients specialized services and in-house expertise that add critical value and help clients accelerate their research cycle. Clients access this network via CMC's FACT Services, where CMC engineers work with them to assess their needs,



identify optimal development paths, and connect them with the right R&D capabilities at the right time.

Network labs are distinguished by demonstrated technical expertise, a dedication to high-quality service, and a track record of R&D projects for external clients, including industry. They work with CMC Microsystems and each other, using shared business practices and project protocols, and a harmonized intellectual property framework. They also have the capacity to position fabrication projects for technology scale-up.

www.cmc.ca/factservices

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About CMC Microsystems and Canada's National Design Network (CNDN):

CMC Microsystems works with researchers and industry across Canada's National Design Network, providing access to world-class tools, technologies, expertise and industrial capabilities for designing, prototyping and manufacturing innovations in microsystems and nanotechnologies. CMC reduces the barriers to technology adoption by creating and sharing platform technologies.

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About the CCEM:

The Canadian Centre for Electron Microscopy, located at McMaster University, provides world-class electron microscopy capabilities and expertise to Canadian researchers and industry working in a broad range of fields. Their vision is to be one of the leading electron microscopy facilities in the world for the quality of the scientific research, to be the go-to provider of electron microscopy services to Canadian industry, and to play a leading role in promoting interactions amongst researchers in various fields nationally and internationally.

<https://ccem.mcmaster.ca/>

