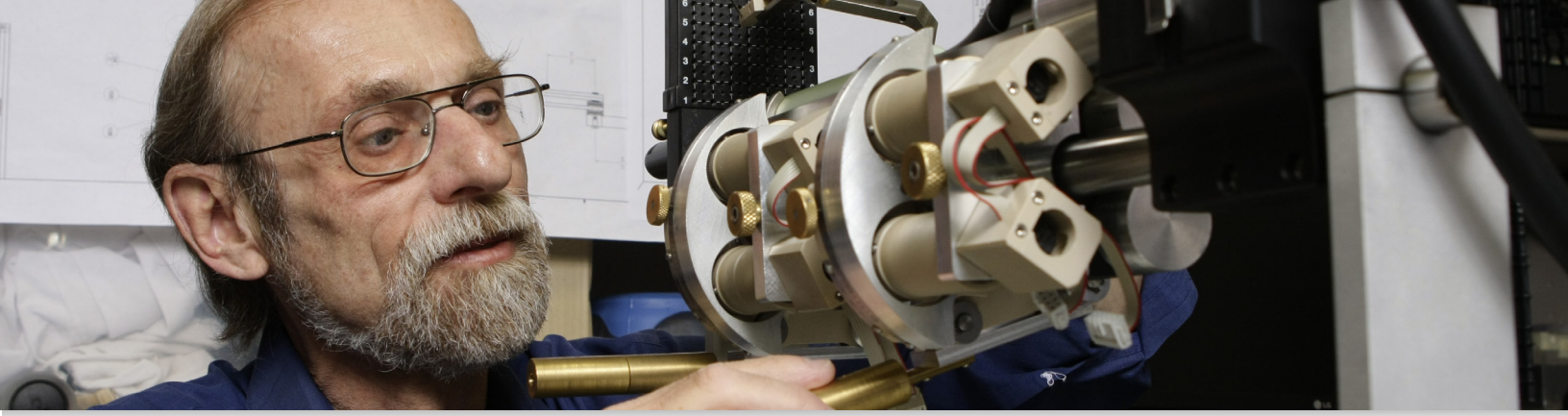

IMAGING TRANSLATION

Dr. Aaron Fenster, Co-Program Director
Dr. Martin Yaffe, Co-Program Director

PROGRAM HIGHLIGHTS

- Entrepreneurial leadership;
- Successfully commercialized and licensed numerous technologies;
- Developing new techniques and instrumentation for imaging applications;
- Working with clinicians and OICR's High Impact Clinical Trials Program to better incorporate imaging in to clinical trials;
- Numerous successful interactions, collaborations and outcomes with industry partners;
- Developing new imaging probes for imaging applications;
- Translationally- and commercially-oriented;
- Founding members of the Centre for Imaging Technology Commercialization (CIMTEC);
- Founding members of the Centre for Probe Development and Commercialization (CPDC);
- Work closely with the Smarter Imaging Program.

MAJOR PROJECTS

3D ULTRASOUND-GUIDED FOCAL LIVER TUMOUR ABLATION

Ultrasound imaging is a commonly used modality for guiding and monitoring radio-frequency ablation (RFA) and microwave ablation (MWA) of liver tumours. However, the current technique has limitations that the Imaging Translation Program team is addressing. We have invented a new system (two patents filed) based on 3D ultrasound imaging that would reduce the limitations of conventional ultrasound imaging and reduce (perhaps eliminate in some instances) the need for intra-operative CT imaging.

CENTRE FOR IMAGING TECHNOLOGY COMMERCIALIZATION (CIMTEC)

The **mission** of the Centre is to enable and accelerate the translation of medical imaging and digital pathology innovations and developments for commercial exploitation and clinical use, leading to the improved understanding, diagnosis and treatment of human disease. The Centre houses experts in all key aspects of imaging technology research and development, translation and commercialization. This includes experts in medical imaging, digital pathology, software development, engineering, physics, radiology, regulatory affairs and business development.

The **goals** of the Centre are:

- To validate, translate and commercialize innovative imaging and digital pathology technologies from academic labs and research centres in Canada;
- To provide medical imaging companies based in Canada with the critically needed expertise, technical capabilities and infrastructure to allow them to become internationally competitive;
- To attract investment in imaging and digital pathology commercialization and to facilitate the creation of new commercial entities;
- To create training opportunities for highly qualified personnel in the fields associated with imaging and digital pathology technology development and commercialization;
- To foster enhanced communications and partnerships amongst imaging and digital pathology researchers, clinical groups and the private sector.

Contact
For more information about the Imaging Translation Platform or CIMTEC please contact Carol Richardson:
carol.richardson@cimtec-canada.ca

Visit us on the web at
oicr.on.ca or **cimtec-canada.ca**

Ontario
Funding for OICR is provided by the Government of Ontario