



Université de Sherbrooke researcher wins 2017 Colton Medal for pioneering work in imaging

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MONTREAL, QC – Innovative research into imaging using Positron Emission Tomography (PET) has earned Dr. Marc-André Tétrault the 2017 Douglas R. Colton Medal for Research Excellence.

Dr. Tétrault was recognized for outstanding contributions to medical imaging through his development, as a graduate student and doctoral candidate at Université de Sherbrooke, of a novel, integrated 3D digital detector leading to a new generation of PET scanners ("LabPET"). His innovative research offers the potential for PET scanners with better imaging, requiring shorter imaging time and lower tracer dosing, leading to earlier diagnosis and treatment of disease.

He has been involved in the PET project since his undergraduate work with Dr. Roger Lecomte, and then completed his Master's and PhD while continuing to contribute to the development of this imaging technology. In 2012 his role in coordinating 3D integration and real-time data acquisition for the next generation of LabPET won the Teledyne DALSA Componentware/CAD Award at CMC's 2012 TEXPO Graduate Student Competition and Exposition.

As a PhD candidate under the supervision of Drs. Réjean Fontaine and Jean-François Pratte, Dr. Tétrault received the prestigious Radiation Instrumentation Early Career Achievement Award – an honour normally given to PhDs up to 10 years after completing their degree – at the 2016 IEEE Nuclear Science Symposium and Medical Imaging Conference in Strasbourg, France. To date he has published more than 50 papers and been cited more than 680 times.

During his PhD he was an international intern at CERN, the European Organization for Nuclear Research, one of the world's largest and most respected centres for scientific research.

"Dr. Tétrault's research has been instrumental in transforming the capabilities of this important medical tool," says Ian McWalter, President & CEO of CMC Microsystems. "His contributions have led to the commercial success of an earlier generation of LabPET imaging products, and his groundbreaking work in 3D electronics is helping to advance enhancements in PET imaging that go beyond state of the art. We are proud to honour him with this award."

Currently an NSERC Postdoctoral Fellow at the Gordon Center for Medical Imaging, Massachusetts General Hospital, Boston, Dr. Tétrault is conducting PET imaging research under the direction of Dr. Georges El Fakhri, Professor of Radiology, Harvard Medical School.

Dr. Tétrault received his award in Montreal at Innovation 360, Canada's largest annual symposium for micro-nano innovators, co-hosted this year by CMC Microsystems and NanoCanada.

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About the Colton Medal:

Established in 1994 in recognition of the founding President and CEO of CMC Microsystems, the Douglas R. Colton Medal recognizes excellence in research leading to new understanding and novel developments in microsystems and related technologies. The annual award also includes a monetary prize of \$4,500. Candidates for the award may be faculty, students or alumni who have successfully completed a Master's or a Doctorate degree in a Canadian university within the previous three calendar years.

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