

Queen's University School of Medicine presents  
The 6th Annual Dr. Andrew and Margaret Bruce  
Visiting Scholar in Surgical Innovation

The Queen's University  
Departments of Surgery and  
Urology invite you to a special  
presentation by



## Professor Zoltan Takats, PhD

Faculty of Medicine, Department of Surgery at Imperial College London

### *What do the Molecules Tell Us? The quiet revolution of chemical information*

Precision medicine requires precise information to be presented to the surgeon in real time while in the operating room. 'Am I free of cancer? Did you get it all?' are the questions every surgeon is asked by their patient.

With new technology and an understanding of the molecular biology of cancer cells, we are entering an age when the surgeon can leave the operating room with confidence and say 'yes.... we got it all'.

Dr. Takats is this year's Bruce Visiting Scholar in Surgical Innovation. He is a Professor of Analytical Chemistry in the Department of Surgery and Cancer, Faculty of Medicine at the Imperial College London.



Dr. Zoltan Takats has carried out his Ph.D. research at the Chemical Research Centre of the Hungarian Academy of Sciences and at Purdue University. He is the inventor of the iKnife, an operative tool that can detect cancer at the time of surgery, and he is the primary inventor of electrosonic spray ionization, desorption electrospray ionization, jet desorption ionization (DESI) which will revolutionize pathology.

Besides pursuing a scientific career, he has been deeply involved in the introduction of mass spectrometry-based neonatal screening programme in Hungary and served as the head of one of the national screening laboratories.

## Thursday, November 9, 2017 - 5:00PM

#### **The Dr. Andrew and Margaret Bruce Endowment for Visiting Scholars in Surgical Innovation**

Established by Dr. Andrew and Margaret Bruce, the endowment will be used to support hosting of prominent scholars at Queen's University. It is the goal and objective of this endowment that the visiting scholar will bring special expertise in the area of surgical scholarship, will introduce new research and ideas, will teach new methodologies to Queen's medical scientists and clinicians and provide new concepts to the students.

**School of Medicine Building  
15 Arch St.**

**Queen's University  
Room: 132A Lecture Theatre**

All Welcome - Free admission  
Refreshments at 4:30 PM  
Lecture 5:00-6:00 PM