

R O B E R T   Z H O N G  
D EPARTMENT OF SURGERY  
R ESEARCH DAY

JUNE 24, 2019  
STUDENT LIFE CENTRE  
KING'S UNIVERSITY COLLEGE  
266 EPWORTH AVE, LONDON, ON

The Robert Zhong Department of Surgery Research Day was named in honour of Dr. Robert Zhong, a brilliant scientist and colleague who passed away in 2006.



Dr. Robert Z. Zhong was born in Shanghai, China on January 16, 1946. He graduated from Shanghai No 1 Medical University and was then assigned by the government to work as a general surgeon in a community hospital. Dr. Zhong attended a seminar led by Dr. Sun Lee – considered to be the founding father of experimental microsurgery – and whom he would later credit to be one of the most important mentors of his life.<sup>1</sup> Dr. Zhong arrived in Canada first as a research fellow under the supervision of Drs. John Duff and Calvin Stiller in 1984. His persistence and vision led to a full-time appointment and microsurgical animal models that would be applied in human transplantation clinical practice.

Recognizing that molecular biology and transplant immunology were critical to the future of transplantation, Dr. Zhong began his study of these fields in Canada to become one of the world's leading experts in transplantation and microsurgery. He went on to become a Tier One Canada Research Chair in Transplantation and Experimental Surgery in 2004 and was appointed a full Professor in the Departments of Surgery, Pathology, and Microbiology & Immunology at The University of Western Ontario. Dr. Zhong was a scientist at the Robarts Research Institute; Director of the Microsurgery Laboratory at LHSC; and a scientist at the Lawson Health Research Institute.

Dr. Zhong's influence into the fields of transplantation and microsurgery were profound and far-reaching. He was Past President of the International Society of Experimental Microsurgery; a member of the Canadian Society of Transplantation, American Society of Transplantation; and the American Society of Transplant Surgeons. Dr. Zhong was awarded the Lifetime Achievement Award by the Canadian Society of Transplantation posthumously in 2007. Dr. Zhong published over 180 peer-reviewed publications and achieved millions of dollars in research grant funding. He supervised more than 70 graduate students and fellows and trained over 70 microsurgeons worldwide during his 21- year career at Western. His superb leadership and vision were recognized as having created an internationally renowned program in experimental transplantation. A brilliant scholar, teacher, and mentor, Dr. Zhong is also remembered as a man of great humility, kindness, and respect.

Dr. Robert Zhen Zhong passed away in London, Ontario on September 8, 2006.

<sup>1</sup>Zhong T. (2007), Dr. Robert Zhen Zhong: A tribute by his daughter. *Microsurgery*, 27:214-215.

## Learning Objectives

1. To learn about quality improvement in breast reconstruction to optimize the patient-centred experience.
2. To explore the surgical personality.
3. To evaluate point of care ultrasound for the diagnosis of testicular torsion.
4. To learn about narcotic use after surgery.
5. To explore the research process from bench to bedside and examine if this is a realistic goal.
6. To understand the practice patterns for the treatment of acute proximal hamstring ruptures.
7. To learn about chemotherapy and survival outcomes in resectable soft tissue sarcomas.
8. To understand the mechanisms behind scaphoid malunion on radioscaphoid joint contact.

(25% of this program is dedicated to participant interaction)

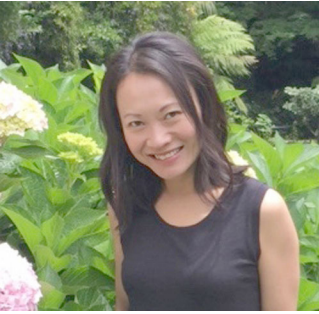
## CME Credits

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Schulich School of Medicine & Dentistry, Western University. You may claim a maximum of 4.25 hours (credits are automatically calculated).

Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.

## Keynote Speaker

### Toni Zhong, M.D., FRCS, MHS



Dr. Toni Zhong, M.D., FRCS, MHS is an Associate Professor in the Department of Surgery, and the inaugural Belinda Stronach Chair in Breast Cancer Reconstruction at University Health Network (UHN). She is also the Clinical and Research Director for the Breast Reconstruction Program at UHN and Mount Sinai Hospitals, leading centres' for advanced techniques in breast reconstruction in North America. She was recruited by University of Toronto in November

2008 from Memorial Sloan Kettering Cancer Center in New York City. In 2011, she also obtained her Masters of Health Sciences in Clinical Epidemiology from the Harvard School of Public Health.

To complement her clinical expertise in the field of breast reconstructive surgery, her research aims to improve the access of women to optimized techniques of post-mastectomy reconstruction through clinical trials and health services research. In 2012, she was awarded the prestigious 2012 Career Development Award from the American Society of Clinical Oncologists. She holds a five-year Canadian Institute for Health Research (CIHR) grant and leads a national team to examine barriers to breast reconstruction surgery across Canada. She was also awarded the highly competitive CIHR New Investigator Award in 2015. Recently, she was appointed as the Provincial Lead in the development of clinical guidelines to set new provincial standards for breast cancer reconstruction in Ontario. She currently has over 65 peer-reviewed publications in high impact oncology and surgical journals, holds 5 active national level research

grants, and numerous Canadian and American Plastic Surgery Foundation Funds.

Dr. Zhong is also active in humanitarian activities. She is one of the founding members of WomenforWomen, a non-profit international humanitarian organization and annually leads international surgical teams overseas. She is a co-founder the UHN Helps Fund, a humanitarian fund to support patients from developing countries to receive their life-saving or life-enhancing surgeries at UHN. To recognize her volunteerism, she was awarded the Dean's Alumni Award in Community Service from University Of Western Ontario in 2018.

# Agenda

- 7:00 – 8:45 a.m. Registration/ Coffee
- 7:45 – 8:50 a.m. Poster Session
- 9:00 – 9:10 a.m. Opening Remarks: **Dr. Emil Schemitsch**
- 9:10 – 9:15 a.m. Remarks: **Dr. Anthony Jevnikar**

## **AWARD WINNING RESIDENT / FELLOW RESEARCH PAPERS**

- 9:15 – 9:25 a.m. **Dr. Luc Dubois**, Division of Vascular Surgery  
Discrepancies in Research Productivity among Canadian Surgical Specialties
- 9:25 – 9:35 a.m. **Dr. Ali Hage**, Division of Cardiac Surgery  
Impact of Brain Protection Strategies on Mortality and Stroke in Patients Undergoing Aortic Arch Repair with Hypothermic Circulatory Arrest: Evidence from the Canadian Thoracic Aortic Collaborative
- 9:35 – 9:45 a.m. **Dr. Alexandra Istl**, Division of General Surgery  
Call for Improved Study Design and Reporting in Soft Tissue Sarcoma Systematic Review and Meta-Analysis of chemotherapy and survival outcomes in resectable STS
- 9:45 – 9:55 a.m. **Dr. Ernest Chan**, Division of Urology  
Identifying Systems Delays in the Assessment, Diagnosis, and Operative Management of Testicular Torsion in a Single Payer Healthcare System: Potential Applications for Scrotal POCUS

- 9:55 – 10:05 a.m. **Dr. Kitty Wu**, Division of Plastic & Reconstructive Surgery  
Developing a 3D Bio-Artificial Tissue Model for Breast Capsular Contracture
- 10:05 – 10:15 a.m. **Dr. Nicholas Pasic**, Division of Orthopaedic Surgery  
Practice Patterns for the Treatment of Acute Proximal Hamstring Ruptures
- 10:15 – 10:25 a.m. **Dr. Mehdi Qiabi**, Division of Thoracic Surgery  
Post-Esophagectomy Cervical Anastomotic Leaks Treated by Silicone Stents: A Decade of Experience
- 10:25 – 10:35 a.m. **Dr. Leandra Stringer**, Division of Paediatric Surgery  
Point of Care Ultrasound (POCUS) for the Diagnosis of Testicular Torsion: A Resident Education and Quality Improvement Initiative

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**10:35– 11:00 a.m. BREAK AMONGST POSTERS & SPONSOR BOOTHS**

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**NODE PRESENTERS**

*Fundamental Sciences & Surgical Innovation Node Speaker*

- 11:00 – 11:10 a.m. **Dr. Hassan Razvi**  
“Bench to Bedside” – Surgical Research: Is this a Realistic Goal?

*Fundamental Sciences Research Pitches*

- 11:10 a.m. Pitch #1 – **Dr. Tanya DeLyzer**  
BioArtificial Tissue (BAT) Model to Test Novel Peptides for Attenuating Radiotherapy Induced Implant Capsular Contracture in Breast Cancer Reconstruction Patients

- 11:15 a.m. Pitch #2 – **Dr. Parham Rasoulinejad**  
MRI Based Patient-Specific Drill Templates for  
Pedicule Screw Fixation
- 11:20 a.m. Pitch #3 – **Dr. Hassan Razvi**  
The Effect of Antibiotics on Calcium-Based Urinary  
Stone Disease Through Immune Modulation
- 11:25 a.m. Pitch #4 – **Dr. Nicholas Power**  
Novel Fail-Safe Adaptor to Prevent Traumatic  
Accidental Urinary Catheter Removal

*Surgical Education Node Speaker*

- 11:30 – 11:40 a.m. **Dr. Peter Wang**  
The Surgical Personality Revisited

*Surgical Education Research Pitches*

- 11:40 a.m. Pitch #1 – **Drs. Sayra Cristancho & Megan Cashin**  
An Exploration of Allowing Failure as an Educational  
Strategy in Surgical Training
- 11:45 a.m. Pitch #2 – **Dr. Peter Wang**  
Video-Based Education: Comparing YouTube to  
Surgeon-Specific Videos on Resident Performance  
and Self-Confidence

**PRESENTATION BY AWARD WINNING MSc STUDENT COLLOQUIUM PRESENTATION**

- 11:50 – 12:00 pm. **Dr. Spencer Chambers**  
The Impact of Scaphoid Malunion on Radioscaphoid  
Joint Contact: A Computational Analysis

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**12:00 – 12:45 p.m. Lunch**

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**NODE PRESENTERS***Patient Centered Research Node Speaker*

12:45 – 12:55 p.m.

**Dr. Alan Getgood**

From Instability to Stability: Results of a Multicentre RCT in ACL Reconstruction

*Patient Centered Research Pitches*

12:55 p.m.

Pitch #1 – **Dr. Parham Rasoulinejad**

Serum Metal Ion Levels Post Multi-Level Spine Surgery

1:00 p.m.

Pitch #2 – **Dr. Ken Leslie**

An Incentivized Opioid-Return System Through the Disposal of Unwanted Medications Program (DUMP trial)

*ICES/Big Data Node Speaker*

1:05 – 1:15 p.m.

**Drs. Blayne Welk, Kelly Vogt, and Luc Dubois**

Narcotic Use After Surgery

*ICES/Big Data Research Pitches*

1:15 p.m.

Pitch #1 – **Dr. Chris Vinden**

Ontario Surgeons vs United States Surgeons: Who Has Better Outcomes?

1:20 p.m.

Pitch #2 – **Dr. Ahmad Elnahas**

Does Surgical Start Time Lead to Complications?

1:25 p.m.

Pitch #3 – **Dr. Chris Bailey**

The Financial Cost of Redundant Radiology Reporting for Orthopedic Surgeons

1:30 p.m.

Pitch #4 – **Dr. Kelly Vogt**

Who is Providing Emergency Surgical Care, and Does it Matter?

**INVITED SPEAKER**

1:35 – 2:35 p.m.

**Dr. Toni Zhong**

Quality Improvement in Breast Reconstruction to Optimize the Patient-Centred Experience

**AWARDS, CLOSING REMARKS & COMPLETION OF EVALUATIONS**

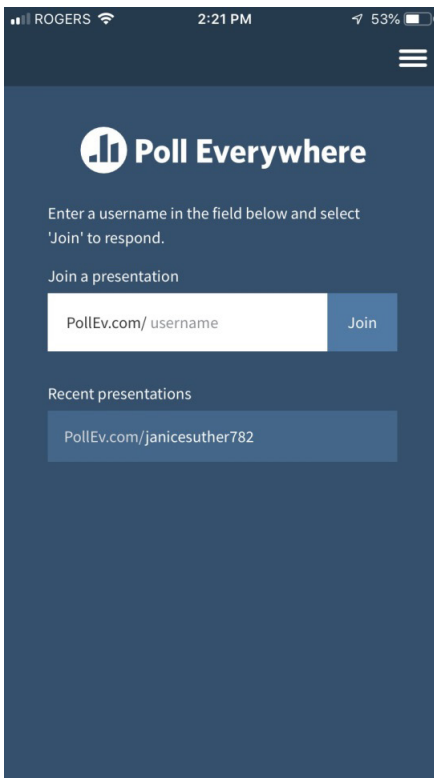
2:40 – 2:50 p.m.

**Dr. Emil Schemitsch**

# Poll Everywhere

For the Surgical Dragon's Den session we are using a live voting app called "Poll Everywhere". This app is free. You can download the app from the Apple store or for android phones you can download it from Google play. Please download the app before the Dragon's Den session begins.

Once the app is downloaded you can participate during the voting by joining the poll. The instructions on how to join the poll are below:



- 1. Click on the Poll Everywhere App on your phone.**
- 2. Go to "Join a Presentation".**
- 3. Enter the username: JANICESUTHER782**
- 4. Click "Join".**
- 5. Vote for your choice.**

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