



# The 30<sup>th</sup> Annual PERCY IRELAND ACADEMIC DAY AND DINNER May 5-6, 2022

## Course Objectives

1. To compare and contrast clinical and surgical approaches used in the management of otolaryngologic disorders
2. To describe the pathobiology, biologic behaviour, and treatment outcomes of adult and pediatric otolaryngology-head & neck surgery disorders
3. To be able to identify a number of research methods used in the field

## Accreditation

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, approved by Continuing Professional Development, Temerty Faculty of Medicine, University of Toronto. You may claim a maximum of 5.5 hours (credits are automatically calculated). Each participant should claim only those hours of credit that he/she actually spent participating in the educational program.

## Dinner

**Thursday, May 5, 2022**

**The Yorkville Royal Sonesta Hotel Toronto  
(formerly the InterContinental Hotel)**

220 Bloor Street West, Toronto

6:00 pm – Reception, Willard Room Foyer

7:00 pm – Dinner, Willard Room

**Guest of Honour: Dr. Robert V. Harrison**

Presentation of:

- Faculty Teacher of the Year Award
- Alma Smitheringale Excellence in Undergraduate Teaching Award
- Distinguished Alumnus Award
- Resident Teacher of the Year Award
- Resident Advocate Award
- Fellow Teacher of the Year Award
- Raymond H. W. Ng Awards
- Wilfred Goodman Award in Facial Plastic & Reconstructive Surgery
- Dr. Ian Witterick Excellence in Mentorship and Innovation Award

## Academic Program

**Friday May 6, 2022**

Myhal Centre Auditorium, University of Toronto  
55 St. George Street, Toronto

**Percy Ireland Oration**

**Dr. Patrick J. Gullane**

*My Journey: Lessons Learned-Imagine the Future*

# Program

8:30 Breakfast & Registration

9:00 Introduction & Opening Remarks by Dr. Ian J. Witterick, Chair

*Each speaker has 7 minutes to make their presentation followed by 3 minutes for questions and answers*

## **Category 1 - Work undertaken by graduate degree students/ postdoctoral fellows**

**Session Chaired by Dr. Robert V. Harrison**

9:10 **Mr. Robel Alemu**  
Spatial Hearing in Children with Asymmetric Hearing Loss: Defining Impairments and Effects of Cochlear Implantation

*Mentor: Dr. Karen Gordon*

9:20 **Ms. Melissa Hazen**  
Developmental Effects of Concurrent Vestibular & Auditory Impairments in Childhood

*Mentors: Drs. Sharon Cushing, Karen Gordon*

9:30 **Ms. Priyanka Prince**  
Neural Correlates of Auditory Working Memory in Cochlear Implant Users are Related to Speech Perception in Noise Ability

*Mentors: Drs. Joseph Chen, Andrew Dimitrijevic, Trung Le, Vincent Lin*

9:40 **Ms. Matsya Thulasiram**  
Using In Vitro Whole-tissue Modelling of the Stria Vascularis to Compare the Proliferative Capacity of Neonatal and Adult Tissue

*Mentor: Dr. Alain Dabdoub*

9:50 **Ms. Angela Fung**  
Exploring the Use of Auditory Nerve and Brainstem Electrophysiology to Improve Spatial Hearing in Children using Bilateral Cochlear Implants

*Mentor: Dr. Karen Gordon*

10:00 **Dr. Christopher Noel**  
Predicting Emergency Department Use and Unplanned Hospitalization in Patients with Head and Neck Cancer: Development and Validation of a Machine Learning Algorithm

*Mentors: Drs. Natalie Coburn, Tony Eskander, Rinku Sutradhar*

## **10:10-10:30 COFFEE BREAK**

10:30 **Dr. Zhifen Zhang**  
Selective Targeting TrkC Receptors as a Disease-Modifying Tool for Noise Induced Hearing Loss

*Mentor: Dr. Trung Le*

10:40 **Dr. Jackie Ogier**  
ASK1 is a Novel Molecular Target for Preventing Aminoglycoside Induced Hair Cell Death

*Mentor: Dr. Alain Dabdoub*

## **Category 2 - Work undertaken by PGY2 residents during clinical rotation**

**Session Chaired by Dr. Neil Bailie**

10:50 **Dr. Justine Philteos**  
Impact of Advanced Hemodynamic Monitoring on Intra-operative Hypotension Following Head and Neck Free Flap Reconstructive Surgery: A Matched Before-After Study

*Mentor: Dr. David Goldstein*

11:00 **Dr. Lily Wang**  
Automation and Optimization of Radiological Interpretation of Chronic Rhinosinusitis on Paranasal Sinus Computed Tomography ("Deep Sinus CT")

*Mentor: Dr. John Lee*

11:10 **Dr. Ahmed Saleem**  
Quantifying Neck Fibrosis: Domain Structure and Validity Assessment of the NFS-13

*Mentor: Dr. David Goldstein*

11:20 **Dr. Garret Horton**  
Racial Diversity Amongst Academic Otolaryngology-Head & Neck Surgery Programs in Canada

*Mentor: Dr. Yvonne Chan*

11:30 **Dr. Marc Levin**  
Quantifying Surgical Completeness  
in Patients with Aspirin Exacerbated  
Respiratory Disease  
*Mentor: Dr. John Lee*

**Category 3 - Work undertaken by PGY3 residents  
during clinical rotation**

**Session Chaired by Dr. Christopher Yao**

11:40 **Dr. Edward Sykes**  
Head and Neck Cancer Screening - A  
Review of Evidence  
*Mentor: Dr. Tony Eskander*

11:50 **Dr. Fahad Aldhahri**  
The Role of Postoperative Radiotherapy in  
Low- and Intermediate Grade Primary  
Salivary Gland Malignancies of the Parotid  
*Mentor: Dr. Joel Davies*

**12:00-12:50 LUNCH**

12:50 Introduction of Percy Ireland Orator

12:55 **PERCY IRELAND ORATION**  
**Dr. Patrick J. Gullane**  
*My Journey:  
Lessons Learned-Imagine the Future*

1:40-1:50 Q&A

**Category 3 - Continued**

1:50 **Dr. Chantal Li**  
Sleep Outcomes and Morbidity and  
Mortality Predictors for Postoperative  
Complications Following Tonsillectomy for  
Obstructive Sleep Apnea in Children with  
Cerebral Palsy  
*Mentor: Dr. Nikolaus Wolter*

2:00 **Dr. Dongho (Brian) Shin**  
OtoVIS - Examining the Utility of a  
Photorealistic Virtual Ear in Otologic  
Education  
*Mentor: Dr. Justin Lui*

2:10 **Dr. Adam Kwinter**  
Use of a Caprine Model for Simulation and  
Training of Endoscopic Ear surgery  
*Mentor: Dr. Adrian James*

2:20 **Dr. Grace Yi**  
Formation and Assessment of a Laryngology  
Pathology Atlas for Resident Education  
*Mentor: Dr. R. Jun Lin*

**Category 4 - Work undertaken by PGY4 residents  
during clinical rotation**

**Session Chaired by Dr. Nikolaus Wolter**

2:30 **Dr. Amr Hamour**  
Post-Operative Opioid Usage Following  
Thyroidectomy and Parathyroidectomy  
Surgery: A Prospective Study  
*Mentor: Dr. Eric Monteiro*

2:40 **Dr. Vincent Wu**  
Levels of Nasal Nitric Oxide and Inducible  
Nitric Oxide Synthase Expression in Chronic  
Rhinosinusitis with Nasal Polyposis  
*Mentor: Dr. John Lee*

**2:50- 3:10 COFFEE BREAK**

3:10 **Dr. Hedyeh Ziai**  
Oral Cavity Squamous Cell Carcinoma  
Tumour Center and Leading Edge have a  
Temporally Stable, Unique Microbiome  
Compared to Contralateral Normal Sites  
*Mentor: Dr. Douglas Chepeha*

3:20 **Dr. Jong Wook (John) Lee**  
Cigarette Smoking Cessation, Duration of  
Smoking Abstinence, and Head and Neck  
Squamous Cell Carcinoma Prognosis  
*Mentor: Dr. David Goldstein*

3:30 **Dr. Weining Yang**  
Epidemiology of Recurrent and Metastatic  
Head and Neck Squamous Cell Carcinoma  
*Mentor: Dr. Tony Eskander*

**Category 5 - Work undertaken by post-residency research & clinical fellows**

**Session Chaired by Dr. Joel Davies**

3:40 **Dr. Sasan Dabiri**  
Preservation of Vertical Balance Canals VOR  
Response in Gentamicin Vestibulotoxicity:  
A Novel Clinical Finding

*Mentors: Drs. Neil Bailie, John Rutka*

3:50 **Dr. Islam Alzayadneh**  
Rhinoplasty Surgeons' Spinal Health:  
Specific and Unique Risks

*Mentors: Drs. Richard Rival, Philip Solomon*

4:00 **Dr. Fatemeh Hassan Nia**  
Post-traumatic Central Vestibular  
Dysfunction

*Mentor: Dr. John Rutka*

4:10 **Dr. M. Demir Bajin**  
The Ototoxicity of Ceftazidime, Vancomycin,  
and Clotrimazole in the Rat Middle and  
Inner Ear

*Mentor: Dr. Trung Le*

**4:20- 4:35 COFFEE BREAK**

4:35 **PRESENTATION OF AWARDS AND  
PARTICIPATION CERTIFICATES**

Best Paper Category 1  
Best Paper Category 2  
Best Paper Category 3  
Best Paper Category 4  
Best Paper Category 5

***Plus***

The Wharton Head & Neck Research Award

Freda Noyek Otolaryngology Merit Award

Shiley E. O. Pelausa Award

Judy Chauvin Otolaryngology Resident Award

Chapnik, Freeman & Friedberg Clinical Scientist  
Program Award

Kris Conrad Merit Award in Facial Plastic Surgery

Nimek Otolaryngology Award

Dr. Ian Witterick Research Awards in Otolaryngology -  
Head & Neck Surgery

## **Percy Edgerton Ireland**

Dr. Ireland was the first full time Professor of Otolaryngology at the University of Toronto. A medical graduate of the University of Toronto, he trained in Otolaryngology with Harris P. Mosher at Harvard. After a distinguished war career, much of it in the Western Desert, he returned to Toronto and was appointed Professor and Chairman in 1946, a position he held, along with that of Otolaryngologist-in-Chief at Toronto General Hospital until 1966. He finished his University career at Sunnybrook Hospital by helping the change over from a Veterans' to a University Hospital. He retired in 1969, leaving as his legacy a strong academic staff, many of whom held high positions in the University. He was a tough but a self-effacing man, who started the residency-training program in Otolaryngology. He was extremely active in the educational field and it is fitting that his name be remembered in an academic event for trainees.

## **Professor Patrick J. Gullane** **CM, OOnt, MB, FRCSC, FACS, *Hon FRACS, Hon FRCS, Hon FRCSI***

Dr. Patrick Gullane was born in Ireland and received his medical degree from NUI-Galway, Ireland. He is a Fellow of the Royal College of Surgeons of Canada and certified by the American Board of Otolaryngology-Head and Neck Surgery. In 1975 he was selected as the McLaughlin Fellow and then pursued advanced Fellowship training in Head and Neck Oncology in Pittsburgh, and New York.

In 1978, Dr. Gullane was appointed to the Department of Otolaryngology-Head and Neck Surgery at the University of Western Ontario, Canada. He was subsequently recruited in 1983 to the Department of Otolaryngology-Head & Neck Surgery at the University of Toronto. He currently holds the Wharton Chair in Head and Neck Surgery at the University Health Network and University of Toronto. In 1989 he was appointed as Otolaryngologist-in-Chief within the University Health Network and in 2002 appointed as Professor and Chair of the Department of Otolaryngology-Head & Neck Surgery, University of Toronto.

Dr. Gullane is a member of numerous Surgical Societies, nationally/internationally and has been invited as a Visiting Professor to over 65 countries lecturing on all aspects of Head and Neck Oncology. He has delivered over 635 invited and Keynote presentations nationally/internationally including the Eugene Myers International lecture in September 2006, received the 2007 Medtronic Alumni Award from the National University of Ireland (Galway) for contributions to Health Care and Medical Science, delivered the Sir Peter Freyer Memorial lecture to the Irish Surgical Forum NUI-Galway in 2009, the John J. Conley lecture to the American Head and Neck Society in 2012, the 87<sup>th</sup> Abraham Colles lecture at the Royal College of Surgeons in Ireland in February 2012, the Hayes

Martin lecture at the 5<sup>th</sup> World Congress of IFHNOS and annual meeting of the Head and Neck Society in New York in July 2014 and the Gunnar Holmgren Lecture to the Swedish Society of Otolaryngology-Head and Neck Surgery April 2018. He was one of the six International Faculty leaders who conducted the IFHNOS Head and Neck World Tour Program in 2008. Dr. Gullane has published 368 papers in peer-reviewed journals and 98 chapters in textbooks. In addition he has published 10 books on various aspects of Head and Neck Surgery. He has served as President of the American Head & Neck Society, The North American Skull Base Society, President of the Canadian Society of Otolaryngology-Head & Neck Surgery and Vice President of the Triological Society. In recognition of his distinguished achievements, Professor Gullane was awarded an Honorary Fellowship of the Royal Australasian College of Surgeons in 2006, Honorary Fellowship of the Royal College of Surgeons of England in 2010 and an Honorary Fellowship in the Royal College of Surgeons of Ireland in 2012. He was elected to Fellowship in the Canadian Academy of Health Sciences in 2011 and in 2010 was appointed as a Member to the **Order of Canada** by the Governor General of Canada, Cited for his inspiration of young surgeons and his contributions to the field of Head and Neck Surgery. In 2014, in recognition of his outstanding contributions an endowed Chair was named in his honour at the University Health Network/University of Toronto. In February 2015, Dr. Gullane was appointed as a Member to the **Order of Ontario** by the Lieutenant Governor of Ontario for his achievements in the field of Head and Neck Surgery. Finally, he has facilitated the establishment of Six University-Hospital Chairs: Head & Neck Surgery, Reconstruction, Radiation Oncology, and Basic Science, from private funding donations in excess of \$19.5 M., with continual funding up to the present time.

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