26th Annual Fraser N. Gurd Visiting Professor

Dr. Michael T. Longaker
May 28, 2015

www.medicine.mcgill.ca/surgery
MICHAEL T. LONGAKER earned his undergraduate degree at Michigan State University, where he played varsity basketball and was a member of the 1979 NCAA Men's Basketball Championship Team) and his medical degree at Harvard. He completed his surgical residency at UCSF, a residency in Plastic Surgery at NYU and a craniofacial fellowship at UCLA. The majority of his research training took place while he was a Post Doctoral Fellow in the Fetal Treatment Program under Dr. Michael Harrison and in the laboratory of Dr. Michael Banda in Radiobiology, both at UCSF. In December 2003, Dr. Longaker earned his M.B.A. from UC – Berkeley and Columbia University, in the inaugural class of their combined program, and was elected into Beta Gamma Sigma at Columbia Business School, analogous to Phi Beta Kappa for business programs.

Dr. Longaker joined the Stanford University School of Medicine on September 1, 2000, as Director of Children’s Surgical Research in the Department of Surgery, Division of Plastic and Reconstructive Surgery and the Lucile Salter Packard Children’s Hospital. In 2003, he was named the Deane P. and Louise Mitchell Professor. Dr. Longaker has the responsibility to develop a research program in the broad areas of developmental biology, epithelial biology and tissue repair, and tissue engineering. He is Co-Director of the Stanford Institute of Stem Cell Biology & Regenerative Medicine, as well as Director of the Program in Regenerative Medicine, Director of Research in the Division of Plastic and Reconstructive Surgery, and has been name Professor, by Courtesy, in the Departments of Bioengineering and Materials Science and Engineering. Dr. Longaker is Vice Chair of the Department of Surgery.

Dr. Longaker’s research includes the cellular and molecular biology of extracellular matrix with specific applications to differences between fetal and post-natal wound healing, the biology of keloids and hypertrophic scars, and the cellular and molecular events that surround distraction osteogenesis with respect to craniofacial development. Most recently, his research has focused on multipotent mesenchymal cells derived from adipose tissue and their applications for tissue repair, replacement and regeneration.

He is a member of the major academic surgery societies and was president of both the Society of University Surgeons (2007-08) and the Plastic Surgery Research Council (2006-07). He is one of a handful of surgeons elected into the American Society for Clinical Investigation, Association of Physicians, and the prestigious Institute of Medicine of the National Academies. To date, he has over 1150 publications and numerous federal grants to support his research.

We are honoured to welcome Dr. Longaker as our 26th annual Fraser Gurd Visiting Professor.
7:30 - 8:00  Breakfast, MGH Livingston Hall Lounge, L6-500

8:00 - 8:45  "Wound Healing: From Bench to Bedside and Back"
—Michael T. Longaker, MD

Objectives:
• Review fundamentals of fetal wound healing.
• Describe the role of mechanics in scar formation and development of a device to minimize scarring.
• Identification of a fibroblast lineage responsible for fibrosis during wound healing.

9:00 - 10:15  Research Presentations

10:30 - 12:00  TED Talks

12:00 - 13:00  Lunch, MGH Livingston Hall Lounge, L6-500

13:00 - 14:00  "Symposium on Surgical Innovation"

Objectives:
• Learn about a university innovation program.
• Understand and learn the challenges and barriers in implementing a surgical innovation program.
• Understand better the impact of a surgical innovation program at a department and university level.

14:00 - 15:00  Research Presentations

15:15 - 16:00  TED Talks

18:00  \textbf{FRASER GURD BANQUET}

All Surgeons, Scientists, and Residents of the Department of Surgery are cordially invited to the \textbf{Fraser Gurd Banquet}

COCKTAILS AT 18:00  DINNER AT 19:00

\textbf{Ritz-Carlton Montréal}  
1228 Sherbrooke Street West – Oval Room – "Business Attire"

RSVP by May 8th to 514-934-8044  
$125.00 \textbf{per person} for Staff and Guest  
No charge for Residents and Guest  
Tickets \textbf{MUST} be reserved and paid in advance