

THE SQUARE

KNOT

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gill Division of Orthopaedic Surgery 2011 marks the 100th Anniversary of the McGill Division of Orthopaedic Surgery and the year that McGill and the Montreal General Hospital (MGH) celebrate their 190th birthday. The first orthopaedic surgery on record in Montreal was performed by **Dr. William Robertson**, who

The Changing Face of Orthopaedics



Dr. Edward J. Harvey,
MSc, MD, FRCSC



Dr. Janet E. Henderson,
PhD



Dr. Eric Lenczner,
MD, FRCSC

was a former ship's surgeon and one of the founding fathers of the McGill Faculty of Medicine in 1832. The Division pioneered the regrouping of adult services at the MGH in 1997 under the umbrella of the McGill University Health Centre (MUHC). The MGH provides complex orthopaedic care in fulfillment of its mandate as Quebec's busiest Level I Trauma Centre and Supra-Regional Centre for Musculoskeletal (MSK) Oncology. Adult services continue to expand at St Mary's, the Jewish General, LaSalle and Lachine Hospitals and paediatric services at the Montreal Children's and Shriners Hospitals. In 2010 the Division trained 45 clinicians, with more than 200 beds dedicated to orthopaedic care, and 43 research trainees participated in projects that resulted in the development of new patentable technology and the publication of 70 clinical and 50 basic science articles.

SETTING CLINICAL PRIORITIES AT THE MUHC

The voluntary merger of six McGill teaching hospitals to form the MUHC in 1997 was the first and largest in Canada. The MUHC is in the midst of a \$2.3 billion redevelopment project that is anticipated to continue until 2014 and designed to support trans-disciplinary, patient-centric medicine. The project will see a new hospital built on the Glen campus and upgrades to its existing infrastructure scattered throughout Montreal. Identified areas for growth at the MUHC include complex care, transitional care across the lifespan, patient-focused innovation and transfer of knowledge to the receptor community. In this context orthopaedic surgery has been identified as one of the few surgical specialties where patient numbers are increasing as a direct consequence of the absence of effective therapies to prevent fractures or to accelerate healing. The MUHC holds a leadership position amongst

(See *Orthopaedic Surgery* on page 18)

DEPARTMENT OF SURGERY

NEWSLETTER

MCGILL UNIVERSITY

SUMMER 2011



Inside

Letters to the Editor	2	22 nd Fraser Gurd Day	12
Editor's Note	3	Kudos	21
Words from the Chair	3	Achievement Residents and Fellows	22
New Appointment, Division of Surgery	5	MIS at McGill and MUHC	23
A "Bible" for Liver Metastases	5	Divisional Activities	25
New Centres for Surgery at McGill	6	Visiting Professors	27
New Chief Residents, 2011-12	8	Obituary	28

Dear Editor,

I was delighted to read of the continued success of the Division of Cardiac Surgery at McGill. While the scientific and technical achievements of the Division and the Department of Surgery as a whole are legion, the more subtle lessons we learned were as important.



**Letters
to The Editor**

How to respect and support every patient, as outlined in **Dr. Dobell's** Presidential address to the Society of Thoracic Surgeons entitled "The Human Touch" said to the surgical world these are our core values at McGill.

How to deal with colleagues as friends and equals, lessons from my surgical mentors at McGill, particularly **David Mulder**, has served me well throughout my surgical and administrative career.

How to accept every crazy idea a resident might have as worthy, and possibly the next great advance in medicine, I learned from **Ray CJ Chiu** and **Lloyd MacLean**. There were no better leaders for the next generation of Surgeon-scientists.



Dr. Jim Dutton

Finally the Division introduced the Stikeman annual visiting professorship, as a method of rekindling McGill friendships and providing CME in its best possible format---colleagues learning from one another, has kept me in touch with McGill for many years. Continued success,

Jim Dutton, MD, MSc
(Exp. Surg. McGill) FRCSC, FACS, FICS

Addendum: Jim interned at MGH in 1969 and returned to McGill to complete residency in General and CVT surgery from 1971 to 1978. He practiced for 30 years in Victoria, BC. He was Chief of Cardiac Surgery and the Medical Director of Heart Health, Vancouver Island. He was a past president of the Canadian Society of Cardiac Surgeons.

Dear Editor,

I read the last issue of The Square Knot from cover to cover. It is excellent! I really appreciate the effort you make to put this together. It really shows. On behalf of the whole department, a big very thanks.

Gerry Fried, MD
Chairman, Department of Surgery
McGill University

Editor's Response:

Appreciate your "inotropic" comments..... will help our "prognosis" ☺

Dear Editor,

I wanted to congratulate **Dr. Gerald Fried**, as new Chair of Surgery at McGill and for his SAGES Service award this year. I was amongst the first interns to work with Gerry when he returned from his fellowship in Texas, fall of 1982 (almost 30 years ago!) at the Montreal General Hospital, and helped me to go through some open cholecystectomies (with or without drainage was the big question at that time). The surgeons from McGill would be happy to know that I have been able to secure the *World Congress of Bariatric and Metabolic Surgery (IFSO)* (and Presidency of the congress) to be held in Montreal, at the Palais des Congrès, August 26-30, 2014. Perhaps in part this was due to my work taking me increasingly internationally, especially in India, Kuwait and Qatar, Europe (France, Belgium and Greece) and South America (Brazil, Chile). I have recently been awarded "Membre étranger" by the Académie de Chirurgie (Paris) in a ceremony at last January in the presence of the Délégué général du Québec, and the representative of the Canadian embassy, and will receive the SLS (Society of Laparoendoscopic Surgeons) Excel award 2011 in Los Angeles this summer. Apart from surgery, I enjoy very much mountain climbing for philanthropy, and reached the summit of the Cotopaxi in Ecuador (5,897m) in early January, the highest

active volcano in the World (and technically the 2nd highest point on the planet). I invite any members of the department to join me in our next expedition!

Please find enclosed my contribution to the journal and send my regards to all my friends at McGill. Sincerely,

Michel Gagner, MD FRCSC, FACS, FASMBS, FICS, AFC (Hon.)
Clinical Professor of Surgery
Clinique Michel Gagner MD, Inc.
315 Place d'Youville, Suite 191
Montreal QC Canada H2Y 0A4

Dear Editor,

Many thanks for your kind email, Dr. Chiu! Kindly note that I left my {gruesome} picture on your desk this afternoon -FRI FEB 4th- and hope it will prove satisfactory!

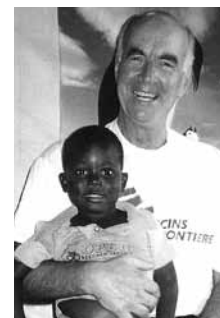
With every kind wish,

Fred Wiegand, MD
maroisfred@gmail.com

Hi Minh (assistant editor)! I received my copy of the last issue of The Square Knot - for which many, many thanks-I always enjoy reading it! I had not got to P.17 prior to my sending that email to Dr. Chiu so I am deeply honoured that you were able to fit my little article into the edition- I am grateful indeed! You certainly may do whatever you wish with the photo.

With all good wishes to you and to Dr. Chiu,

Fred Wiegand, MD



Editor's Note: We were unable to receive on time this marvelous picture of Dr. Wiegand, with the lovely child he looked after, when his dedicated article entitled *Surgical Sojourn in Sierra Leone* was published in the last issue of The Square Knot.

(See **Letters** on page 29)



In the words of **Ms. Jane Hutchison**, administrative assistant to **Dr. Joe L. Meakins**, the first editor of *The Square Knot*: “We can’t do it without you...!”

Editor's Note

The Square Knot was first published in July 1989 under Dr. Meakins’ editorship, succeeded

by **Dr. Ed Monaghan**, who transformed it into its current format and appearance. Following in his footsteps, I put it online at <http://www.squareknot.mcgill.ca> so that colleagues here and abroad could share more easily in each others’ celebrations, and to recognize exciting advances in the surgical sciences at McGill.

But with only a volunteer surgeon editor and a part-time administrative assistant, we simply cannot gather independently news from all members of the McGill Department of Surgery. We need YOU to send us your news – professional accolades and

By Ray C.J. Chiu, MD, PhD, FRCS



Dr. Ray C.J. Chiu

achievements, personal celebrations, reflections on your division’s activities, photos and letters reminiscing on surgical days past. And we welcome news from residents, fellows and staff, past and present; but unlike a Divisional annual report or curriculum vitae, the purpose of this newsletter is to build spirit and collegiality, such that we can continue to train skilled and empathetic new surgeons.

So to quote Ms. Hutchison again: “We can’t do it without you – if you have any information you want to have published in *The Square Knot*, suggestions or comments about our articles, forward them to us!”

And last but not least, we hope you are enjoying reading this newsletter ☺ ♦



Words from the Chair Department of Surgery, McGill University

The summer is upon us and it is a time for academic renewal. At our recent Fraser Gurd Day, we celebrated the graduation of our residents and fellows from all surgical divisions, and recognized the excellence in research and education that is fundamental to an

academic department of surgery. Our trainees are the lifeblood of the department, challenging the faculty to keep up to date, and to justify our practice based on evidence, not dogma. We recognize and appreciate the hard work our residents do on behalf of our patients. Each of the graduates of the McGill Surgery Program becomes an ambassador for McGill as he/she moves forward into fellowship or practice.

In February I had the opportunity to travel to Muscat, Oman to visit some of our graduates. It was immensely rewarding to see how they have assumed positions of leadership. They continue to make important contributions to healthcare and medical education in their countries. For any role we have played in their development we should feel very proud.

One of the great aspects of our training program at McGill has been the outstanding visiting professors that come through McGill

By Gerald Fried, MD, MSc, FRCS, FACS



Dr. Gerald Fried

each year. A list of the visitors to the Department of Surgery is appended. Each has an important impact on our trainees and faculty. It is another way that we challenge ourselves to constantly rethink our practices, and to show the leaders of the surgical world the excellence of our work at McGill.

Part of academic renewal is change in leadership within the divisions of the Department of Surgery. **Dr. Jeff Barkun** has stepped down as Director of the McGill Division of General Surgery to take on the new challenge of developing an electronic medical record for the McGill University Health Centre. We all wish to thank Jeff for his contributions during his mandate, and to wish him well as he takes on this new direction. **Dr. Patrick Charlebois** ably filled Jeff’s shoes as interim division director until a search committee came up with a recommendation for a permanent replacement. We wish to congratulate **Dr. Liane Feldman** on her appointment as the new Director of General Surgery. I look forward to working with her and know that she will continue the tradition of excellence leading the McGill Division of General Surgery. In addition to her role as General Surgery Division Director, Liane has taken the lead in establishing an evidence-based perioperative care program at the MUHC, and will work with Prosanto Chaudhury in implementing new quality improvement and enhanced recovery programs. ►

► After many years of outstanding service and leadership of the Division of Thoracic Surgery, **Dr. David Mulder** has decided to step down from this position. Dr. Mulder has been an icon and a role model for so many of us over the years. His friends and patients have honoured him with the establishment of an endowed chair in his name. We are currently searching for the inaugural chair holder. **Dr. Lorenzo Ferri** has been selected to be the new division director of thoracic surgery for the MUHC, Jewish General Hospital, and McGill University. Lorenzo is the true “triple threat”, as an excellent clinician, successful clinician-scientist, and great teacher. We look forward to seeing the Division prosper and grow under his energetic leadership.

We are also in the process of the search for a new Vice-Chair for Surgical Education. This position, supported by an endowed Chair, thanks to the Adair Family, has allowed us to search widely for an outstanding surgical educator to take on the responsibility of leading our teaching activities and educational research programs for the Department of Surgery. I hope to have identified our new Adair Chair by the time of the next edition of *The Square Knot*.

It is an exciting time at McGill and at all its teaching hospitals. We welcome the new group of residents and fellows and our new faculty members. They will be introduced in upcoming issues of *The Square Knot*. ♦

MULTIDISCIPLINARY SURGICAL GRAND ROUNDS MONTREAL GENERAL HOSPITAL SEPTEMBER 2010-JUNE 2011			
DATE	EVENT	SPEAKER / AFFILIATION	TITLE OF TALK
Sep-16-2010	Flanders Family VP in Medical Simulation /combined Anaesthesia	Professor the Lord Darzi of Denham, Imperial College, London UK	“Health Care Reform – Quality and Innovation.”
Sep-23-2010	Minimally Invasive Surgery Visiting Professor	Dr Carlos Pellegrini, Chair, Department of Surgery, University of Washington, and Chair Board of Regents, American College of Surgeons	“Be a PRO-fessional.”
Sep-30-2010	2010 EJ Tabah VP in Surgical Oncology	Dr Kris Jardon, Hopital Hotel Dieu, Clermont-Ferrand, France	“Laparoscopic surgery for gynecological cancer: Benefits-vs-risks.”
Oct-14-2010	Special guest speaker-oncology	Dr Carol Swallow, Mount Sinai & Princess Margaret Hospitals, Toronto, Ontario	“Update on the management of GIST tumours.”
Oct-21-2010	Urologic Oncology VP	Dr Peter R. Carroll, University of California at San Francisco	“Active surveillance – Follow up to early prostate cancer, rational or risky?”
Nov-18-2010	Harvey Sigman Lecture in Surgical Education	Dr Richard H. Bell, American Board of Surgery, Philadelphia, Pennsylvania	“Initiation of competency-based training in General Surgery in the United States.”
Jan-20-2011	Special guest speaker (Surgical Endoscopy)	Dr Daniel Von Renteln, University Hamburg-Eppendorf, Hamburg, Germany	“Diagnostic and therapeutic endoscopy for esophageal diseases.”
Feb-3-2011	H. Rocke Robertson Trauma VP	Dr Juan Carlos Puyana, University of Pittsburgh, Pittsburgh, PA	“Non-invasive monitoring in shock: What have we learned?”
Mar-31-2011	Orthopedic Surgery VP	Dr Annunziato Amendola, University of Iowa, Iowa City, Iowa	“Advances in arthroscopic surgery around the foot and ankle.”
Apr-7-2011	LD MacLean General Surgery VP	Dr Guy Maddern, University of Adelaide, South Australia	“New surgical technologies: How should they be assessed?”
Apr-21-2011	2011 EJ Tabah VP in Surgical Oncology	Dr Harushi Osugi, Osaka City University Graduate School of Medicine, Osaka, Japan	“Thoracoscopic radical esophagectomy – microanatomy and technique for dissection.”
May-5-2011	Harold Griffith Lecture / combined Anaesthesia	Dr Christian Werner, University Hospital Medical Centre, Johannes Gutenberg – University Mainz, Langenbeckstrasse, Germany	“Anaesthetic neurotoxicity in the very young and very old.”
May-12-2011	Stikeman VP in Cardiac and Thoracic Surgery	Dr Steven M. Bolling, University of Michigan Medical Centre, Ann Arbor, Michigan	“Heart failure – The left ventricle and the mitral valve.”
June-2-2011	Special guest speaker in International Surgery	Dr Patrick Kyamanywa, Dean, Faculty of Medicine, National University of Rwanda	“Factors motivating learning and surgical training among medical students at the National University of Rwanda.”
June-9-2011	Frank M. Guttman VP in Pediatric Surgery	Dr Henri R. Ford, Children’s Hospital of Los Angeles, Dept of Surgery, Keck School of Medicine, University of Southern California	“Answering the call to action: Response to the Haiti earthquake of January 12, 2010.”
June-16-2011	Plastic & Reconstructive Surgery VP	Dr Paul N. Manson, Johns Hopkins University School of Medicine, Baltimore, Maryland	“Facial trauma: Early and late management.”



New Appointment Dr. Liane Feldman Director, Division of Surgery

We are pleased to announce the appointment of **Dr. Liane Feldman** as Director, Division of General Surgery at the McGill University Health Centre and McGill University. Dr. Feldman replaces **Dr. Jeffrey Barkun** after his years of excellent service to the department and hospital in these roles, and **Dr. Patrick Charlebois**, who did an outstanding job as Interim Director over the past several months.

Dr. Feldman was selected after a wide search, both external and internal, with input from department members, senior leadership of the hospital and Faculty of Medicine, and members of related departments. Dr. Feldman has demonstrated clinical excellence and innovation, and effective leadership skills. Her original work in quality metrics and surgical education has been recognized nationally and internationally.

Dr. Feldman is currently Associate Professor of Surgery and The Steinberg-Bernstein Chair of Minimally Invasive Surgery



Dr. Liane Feldman

at the MUHC. She is the Director of the General Surgery Clinical Teaching Unit at the Montreal General Hospital site, Director of the Minimally Invasive Surgery (MIS) Fellowship Program and Co-Principal Investigator of the McGill Centre of Excellence in MIS. She has developed the Preoperative Clinic and Clinical Pathway Program at the MGH site and, working with Dr. Prosanto Chaudhury, will lead the MUHC Department of Surgery in the National Surgical Quality Improvement Program of the American College of Surgeons.

Among her many accomplishments, Dr. Feldman represented Canada as the James IV Travelling Surgeon in 2010, received the Canadian Association for Medical Education National Award for "distinguished contribution to medical education," chairs the Canadian Association of General Surgeons Committee on Laparoscopy and Endoscopy, and serves on the ACS Committee on Emerging Surgical Technologies and Education. ♦

A "Bible" for Liver Metastases...

Liver metastases are a frequent and often fatal occurrence in cancer patients, particularly those with malignancies of the gastrointestinal (GI) tract. To improve management of the metastatic diseases, a better understanding of the biology of this process, particularly the early stages that can be targeted for prevention, is essential.

This volume consists of 2 parts devoted to basic and clinical aspects of liver metastasis, respectively. The chapters in Part I provide insight into the cellular/molecular mechanisms that determine the fate of cancer cells disseminating to the liver. Written by expert researchers in the field of metastasis, including several groups at McGill and at the MUHC, these chapters provide state-of-the-art reviews on the cellular and molecular processes that impact the early stages of the metastatic process. The unique microenvironment of the liver, its various anatomical, cellular and molecular features and the impact they have on metastasis are highlighted. In addition, the role of inflammation (pre-existing and tumor-induced), host innate and adaptive immune responses,



Dr. Pnina Brodt

cytokines, chemokines, growth factors and the unique molecular signatures of metastatic tumor cells are reviewed with an underscoring of the translational implications of the current state of knowledge.

The chapters in Part II provide critical reviews on major aspects of the clinical management of hepatic metastases. These include imaging strategies, surgical and chemotherapeutic treatment approaches and the use of targeted biological therapeutics such as anti-angiogenic drugs as treatment modalities.

By combining information on biological and clinical aspects of liver metastasis, this volume serves as an excellent resource for scientists, clinicians, clinician/scientists and trainees in the domains of oncology, surgical oncology, hepatobiliary physiology and radiology. ♦

Pnina Brodt, Ph.D.
*is the Author, and Professor, Depts. of Surgery,
Oncology and Medicine, McGill University Faculty of Medicine*

I. CENTRE FOR GLOBAL SURGERY

DRS. DAN DECKELBAUM AND TAREK RAZEK, CO-DIRECTORS

The newly inaugurated MUHC Centre for Global Surgery (CGS) continues to build upon existing programs and new initiatives in global surgery. The CGS will consolidate present and future initiatives

with the following objectives for global surgery: oversee global surgical initiatives, promote new initiatives, expand on faculty, resident and

student opportunities to participate in global surgical projects, create mentorship programs for residents and students interested in global surgery, formalize training courses in global surgery open to McGill University based and non - university based health care professionals and trainees, provide opportunities for exchange programs in the field of global surgery (both research and clinical), seek and obtain potential sources of funding, and encourage dissemination of the experience gained and research performed through presentation at regional, national and international meetings and publication in peer review journals.

The Centre for Global Surgery was inaugurated at the 11th annual Bethune Round Table. With over one hundred registrants, this three day conference focused on surgical education, capacity building and disaster preparedness in resource limited settings. We were able to grant 12 scholarships to surgeons from such settings to travel to Montreal and present their work. Over 50% of the presenters were from resource limited settings. This unique, diverse global representation of speakers and attendees set the stage not only for the sharing of research, education, and clinical experiences in low- and middle-income nations, but also for the creation of new long-lasting partnerships. One of the highlights of the meeting was the strong representation of the medical school student body. The over 40 medical student volunteers led by Guillaume Butler-Laporte, Nadia Daly, Alexandre Gosselin-Tardif, Sajjid Hossain, and Hélène Retrouvey contributed to the organization and implementation of the meeting. More importantly, the student participation allowed for close interaction with both North American and African leaders in global surgery, a rare and much appreciated opportunity for those interested in pursuing careers in global health. In the days prior to the meeting, we were honoured to host Dr. Patrick Kyamanywa, the Dean of the Medical School at the National University of Rwanda. In addition to presenting grand rounds on surgical education and factors influencing medical student motivation, Dr. Kyamanywa attended our academic half day, and met with Dr. Fried and other leaders in the Department of Surgery.

While promoting such exchanges, the CGS is continuing research and educational endeavours in several resource-limited settings. We continue analyzing data from the Tanzanian trauma registry which was implemented in 2007 in Collaboration with the Canadian Network for International Surgery. Such data will build upon the rare existing literature on trauma in such settings. A similar registry is currently being piloted in Haiti in partnership with the University of Miami and the University of San Francisco.

Surgical education remains of paramount importance to the CGS. After an initial visit to Rwanda in the spring of 2010 by Dr. Sender Liberman, the partnership between the MUHC and the National University of Rwanda for the support and augmentation of the existing surgical residency program in Kigali, continues to grow. In this year alone, ten MUHC surgeons will have travelled to Rwanda to moderate and supervise, along with our Rwandan colleagues, two week academic modules focusing on locally relevant topics in general surgery. The response from local faculty and residents has been extremely positive and we look forward to expanding the program to the rest of Canada. In addition to the program in Rwanda, Dr. Tarek Razek has recently returned from teaching an Essential Surgical Skills course in Haiti and we are looking into expanding these surgical education programs in Haiti and creating new ones in Somalia where Somali physicians will participate in existing surgical courses in Tanzania and Rwanda. This principle will further strengthen regional partnerships and collaboration for the promotion of surgical capacity building.

Finally, in line with the vision set out by the CGS, we are building mentorship programs as well as research and clinical opportunities in global surgery for residents and medical students as they slowly shape their future careers. Drs. Marc Dakermanjdi, Mathieu Rousseau and Heather Gill are participating in evaluation of low cost surgical simulations in resource limited settings as well as the analysis of the Tanzanian trauma registry. We expect that residents will participate in the Rwanda program as of this coming fall. Finally, several medical students are involved in the analysis and evaluation of the above projects.

Funding for the above programs has been a significant challenge. It is both Ron Collett, president of the MUHC Foundation, who has generously supported these programs, and the generosity of the involved surgeons to cover travel expenses, that keeps these programs running. In order to further grow, we are actively seeking both public but also private funding opportunities. Not only are these programs extremely gratifying to those involved, essential for the beneficiaries, but they are also instrumental for the



The New Centres for Surgery at McGill

► maintenance of the current reputable status of our institution.

The momentum generated over the last year for global surgery at the MUHC has been exciting and is based on previous work spear-headed by Drs. Mulder, Loutfi, Wexler, MacLean and propagated more recently by Dr. Razek. We look forward to further growth and the involvement of more faculty, residents and students into our rapidly growing programs.

Dan Deckelbaum, MD, CM, FRCSC, MPH
Co-director, Centre for Global Surgery
Assistant Professor Division of Trauma Surgery

**II. MINIMALLY INVASIVE SURGERY:
WELCOME TO THE NEW DE KUYPER EDUCATION CENTRE**

**MELINA VASSILIOU, MD, M.ED
AND EKATERINA LEBEDEVA, MLIS**

Thanks to generous contributions from the Montreal General Hospital Foundation and the de Kuyper family, we are proud to announce the recent opening of the **de Kuyper Education Centre (The deK)**. The deK is a new and innovative place where surgeons, residents and students can learn how to use technology to optimize education and professional productivity. Our main goal is to enhance learning and teaching using the web, modern software and media.

We are conveniently located on the 6th floor at the Montreal General Hospital, and encourage people to stop by for a visit. We are equipped with a fleet of powerful Macintosh computers with video-editing capacity, a video-conferencing unit and a wonderfully energetic coordinator, Ekaterina Lebedeva (you can call her Katia). We are very fortunate to be supported by John Labelle from the multi-media department and by a volunteer (Ryan Hartley). The deK also has a very close partnership with the Steinberg-Bernstein Centre for Minimally Invasive Surgery and Innovation.

A few of the projects that we have been working on since April 2011 include monthly Minimally Invasive Surgery rounds, whereby we teleconference with about 15 centres around the world to discuss a variety of topics related to MIS.

In addition, we have started the creation of a surgical video library. Currently, we have over 1000 surgical videos and are in the process of cataloguing them to improve their educational value. We eventually hope to have the videos available for download from our website (another project that is just getting started). We would welcome any surgical videos from any subspecialty, whether they are open, endoscopic, edited or not – please feel free to donate your videos to our library or to come and browse through our selection!

Our official opening ceremony will take place in the fall, but we are open for business and welcome all visitors. In the next few weeks, we will send out a short survey to faculty and residents to better understand what your needs are with regards to technology for surgical education, and would be delighted if you could take the time to complete it. We plan to hold small workshops and seminars about how to edit video, make a blog, have a website, PowerPoint presentations, and other online tools. We hope to be dynamic, flexible and to adapt to the educational needs of our profession. When you have a moment, please check on YouTube "The de Kuyper Education Centre presentation" to get a glimpse of what we do and how we might help you. ♦



DeKuyper Centre, MGH 6th floor.

.....
**The first attribute of
a surgeon is an insatiable
curiosity.**

– Russell John Howard
(1875-1942)



Welcome to the New Surgery Chief Residents, 2011-2012



DIVISION OF CARDIAC SURGERY

PROGRAM DIRECTOR: **DR. KEVIN LACHAPELLE**



Dr. Hamad Alhabib comes from Riyadh, Saudi Arabia where he completed his medical degree at King Saud University and an internship at King Khalid University hospitals. He has been with the Cardiac Surgery Training Program since 2006 and during his academic enrichment year was the research fellow for the Society of Thoracic Surgeons where he evaluated current management of tetralogy of Fallot. Hamad has always been a very strong clinical surgeon and his operative skills are excellent. In his spare time, he enjoys taking care of his family and has become quite an accomplished painter. We wish him the best of luck in his final year and hope he continues his growth as an outstanding technical surgeon.



Dr. Gordan Samoukovic comes to us from Vancouver, British Columbia where he did his undergraduate and graduate degree, and medical education at the University of British Columbia. He has a Master's of Science in theoretical chemistry. He has been in the Cardiac Surgery Training Program since 2006 and has become a very strong clinical surgeon. Throughout his residency, he has been active in clinical research projects and has ongoing studies related to ventricular support devices. In his spare time, Gordan enjoys travelling and keeping company with Dr. Amy Neville. Gordan is proud of his rich cultural heritage and we welcome him to his final year with enthusiasm and high expectations.

DIVISION OF GENERAL SURGERY

PROGRAM DIRECTOR: **DR. PAOLA FATA**



Dr. Maha Al-Shaibi is a graduate from Sultan Qaboos University, Oman. She joined the General Surgery Program at McGill in 2007. She has always been very passionate about clinical work and teaching and was pleased to be awarded the Outstanding Resident Teacher award in 2010-11. She is currently perusing a Fellowship in Surgical Oncology after which she will return to become the first surgical trained Oncologist in Oman and one of the first female surgeons in the country. Maha is passionate about friends and family and is known for her impeccable fashion.



Dr. Ali Farsi is a graduate from King Abdul Aziz University in Jeddah in 2006 and joined the McGill General Surgery program the following year in 2007. During his residency he met and went on to marry the joy of his life, Alia Aljifri. He attributes his achievements in life to the support and advice of his parents who always pushed him to reach for the stars. After finishing his residency he will join the Vascular Surgery department at McGill for a two year fellowship, during which time he hopes to also obtain his pilot licence and learn how to skydive and basejump. When he returns to Saudi Arabia he plans to work on overhauling the healthcare system and improve the Saudi residency training programs.



Dr. Heather Gill is a native Montrealer who graduated from McGill University in 2006. During her research year she completed a Master's in Public Health at Harvard University. She then put this Master's into good use by completing several research projects in the developing world. Heather was also nominated to be a member of the CAGS International Surgery Committee from 2009-12. She is passionate about traveling and in the course of her busy residency she managed to see and experience different cultures of the world. Heather will be leaving us to complete a Vascular Surgery Fellowship at Columbia/Cornell University.



Dr. Jeremy Grushka is a graduate of McGill University. He started his residency at McGill in 2005. During his residency he completed a Master's of Science in Experimental Surgery at the Montreal Children's Hospital Research Institute under the supervision of Dr. Jean-Martin Laberge. His thesis, entitled "Morphologic and molecular investigations of pulmonary branching in fetal lung explants from the Nitrofen-rat model of congenital diaphragmatic hernia with or without tracheal occlusion" was awarded the 2009 Canadian Surgical Research Fund operating grant from the Canadian Association of General Surgeons. Jeremy has presented his research at multiple national and international meetings and has published four manuscripts during his residency. Jeremy recently married Dr. Christine Sabapathy, a pediatric hematologist/oncologist who will begin practicing at the Montreal Children's Hospital in 2012 upon completing her Master's of clinical epidemiology. Jeremy will embark on his Fellowship in Pediatric General Surgery at McGill and then pursue additional training in Fetal Surgery. ►



▶ **Dr. Jonathan Spicer** is a graduate of McGill University. After a year as an R1 in general surgery at UBC, he returned to McGill to complete his training. He is currently in the process of completing his PhD in experimental surgery, which has led to many local and national awards. Jonathan had the pleasure to serve as the president of the McGill Residents' Association for 3 years and has been a proud member of the Montreal Canadiens medical team since 2007. He will go on to a thoracic surgery fellowship in the coming years.



Dr. Tom Tran is a graduate of McGill. He started his General Surgery residency in 2006. In 2008, he was the recipient of the Ed Monaghan Award for Principles of Surgery. During his residency, he completed a Masters of Science in Epidemiology and presented at multiple local, national and international meetings including CAGS, SAGES and DDW. He was nominated the Candidate Representative to the Board at SAGES and will serve on SAGES² Resident Education and Legislative Committee for the upcoming term. Tom will be pursuing a fellowship in Minimally Invasive Surgery



Dr. Sebastian Winocour graduated from medical school at McGill in 2006. Following his second year as a General Surgery resident, he completed a Master of Science degree under the supervision of Dr. Lessard and Dr. Philip as part of the Surgeon-Scientist Program in the Department of Surgery. The title of his thesis was the "Effect of CD109, a novel TGF-beta antagonist, in a skin-flap induced hypoxic wound model." His research has been presented at several national and international meetings including the Plastic Surgery Research Council, the Wound Healing Society and the Canadian Society of Plastic Surgery. In addition, during his residency, Sebastian has been actively involved in a variety of associations including the McGill medical school admissions committee, the General Surgery resident committee and the McGill resident association. Upon graduation, he will be pursuing a fellowship in Plastic Surgery at the Mayo Clinic in Minnesota.

DIVISION OF UROLOGY

PROGRAM DIRECTOR: **DR. WASSIM KASSOUF**



Dr. Konrad Szymanski graduated from the University of Toronto Medical School. During his Residency, he completed a Master of Public Health degree at the Harvard School of Public Health. He also got married. He enjoys hiking and is an accomplished oil painter. In addition, he has been active in clinical research, published 8 peer-reviewed articles and presented at national and international meetings, including the American Academy of Pediatrics Annual Meeting. He is excited about a

career in Pediatric Urology and will be starting his Fellowship at the Riley Hospital for Children, University of Indiana in 2012.



Dr. Philippe Violette is originally from Sudbury, Ontario. He came to McGill for undergraduate studies in Biochemistry. He then remained at McGill for medical school and residency in Urology. Throughout residency Phil has been actively involved in both basic science and clinical research in the fields of Endourology and Urologic Oncology and has presented his work at several national and international meetings. He also has a vibrant home life thanks to his lovely wife Ramona, who is a family physician at McGill, and three fantastic children, Isabelle, Madeleine and Kevin. After graduation Phil will be moving to University of Western Ontario to pursue a Fellowship in Endourology and a Masters in Clinical Epidemiology.



Dr. Raed Azhar graduated from King Abdulaziz University, Jeddah, Saudi Arabia. He joined the urology residency program at McGill university in 2007. He has been actively involved in urological basic science as well as clinical research throughout his residency. He presented at a number of national and international meetings. He won the prize essay award from the Northeastern section - American Urological Association meeting, 2009. He has several publications in peer-reviewed journals. He is the urology academic chief resident for 2011/2012. Upon completion of his residency, he plans to pursue a 2 year Fellowship in Endourology/Advanced Laparoscopic and Robotic urology under the supervision of Dr. Inderbir Gill at The Keck Institute of Urology, University of Southern California, Los Angeles. Following completion of his training he will start his academic career at King Abdulaziz University, Jeddah, Saudi Arabia. He is immensely proud of his wife Sara and his son Hashim.



Dr. Adrienne Quirouet is from Gatineau, Quebec. She completed both her B.Sc and medical school at the University of Ottawa. She started her residency at McGill in July 2007, and is now a chief resident in urology. Adrienne enjoys running and exploring Montreal. She has been fortunate to have tremendous support from her friends and family throughout her training. ▶



▶ **Dr. Mathieu Bettez** is native of Sept-Îles, Québec and a graduate of Sherbrooke University Medical School in 2007. The first 3 years of his residency were done at Sherbrooke University before entering McGill University last year. Throughout his residency, he has been involved in clinical research and presented his work in national and international congress. Mathieu has been known as a hard-working and competent resident. After completion of his residency, Mathieu plans to work in a community hospital in Chicoutimi with a principal interest in endourology. He likes to spend his free time with his wife Mélanie Arbour-Levert and his family.

DIVISION OF PLASTIC SURGERY

PROGRAM DIRECTOR: **DR. MIRKO GILARDINO**



Dr. Etienne Cardin-Langlois graduated from medical school at the University of Sherbrooke in 2007. He did his first two years of plastic surgery in Sherbrooke before coming to McGill. Prior to his medical studies, he completed a degree in kinesiology, also at the University of Sherbrooke. He is known for his hard work and dedication to his patients. He enjoys playing piano and guitar, and performing many sports in his free time. He developed, throughout his residency, an interest in hand surgery and microsurgery, in which he got papers published. He will also pursue a fellowship in these fields. After completion of his fellowship, he will come back and work in Quebec.



Dr. Hani Sinno received his Bachelors of Science with a major in Physiology in 2002 and Doctorate of Medicine in 2006 at McGill University. During this period he received numerous prizes and awards including: Dean's Honor list (top 10% of the Faculty), J.W. McConnell Award Scholarship (Top 5 % of the faculty), Kathleen Terroux Prize (Highest ranking overall grade in his class), and two CIHR scholarships. During his Plastic Surgery training, he received the Neville Poy Plastic Surgery Scholarship and Benjamin Shore Prize for outstanding performance in the specialty. During residency, he also completed a Masters of Engineering, during which he discovered a product that accelerates healing and wound strength. This discovery is currently underway to receiving a US patent. Furthermore, for his outstanding thesis work, he was awarded with Dean's Honor by the Department of Biomedical Engineering and the Faculty of Medicine. He has also received many research prizes including a NSERQ scholarship and presentation awards for best research paper at international meetings such as the American Association of Plastic Surgery. He has a total of 22 original published/accepted manuscripts, 5 manuscripts in submission, 63 abstract publications, 40 research presentations, and a book chapter on breast surgery which he was invited to write and is currently in progress. Following his residency, he looks forward

to pursuing a fellowship in Aesthetic and Reconstructive Surgery with a focus on Breast Reconstruction. He is happily married to Sarah Assadian who is on her way to completing a PhD in Biochemistry at McGill University.

Dr. Haitham Badran Contribution to *The Square Knot* declined.

DIVISION OF ORTHOPAEDIC SURGERY

PROGRAM DIRECTOR: **DR. REGGIE HAMDY**



Dr. Maamon Aljonaid is a medical school graduate from King Abdul-Aziz University in Jeddah, KSA. He got the opportunity to learn French while completing his first year of orthopedic surgery at the University of Montreal before joining McGill University in 2008. He is married and loves living on the

South Shore. He is the proud father of a baby girl named Tuleen. He plans to pursue a fellowship in the field of sports medicine.



Dr. Mitchell Bernstein began his undergraduate degree at McGill University, earning an Honors degree in Microbiology and Immunology. He continued his medical studies at The Chicago Medical School, after which, he returned to Montreal for his orthopaedic surgery training. He is

most proud of helping establish a McGill University Orthopaedic Interest Group, creating a new website for the department and earning the department a research grant for journal clubs. He will be getting married to his soulmate Neilly Erin Kornitzer in November. More than his love for elective lumbar discectomies at 2 a.m. is his passion for planning his wedding. After graduating, Dr. Bernstein will be pursuing a trauma fellowship in Seattle at Harborview Medical Center.



Dr. Ali Esmaeel was born and raised in Kuwait City and his decision to become a doctor came after witnessing Operation Desert Storm in 1990. He graduated from medical school in 2005 with honors from Kuwait University and then was sponsored to come to McGill and join our residency

program. Since arriving at McGill, Dr. Esmaeel has been a great resident and doctor. He recently won the Julie prize from the department of orthopaedic surgery for outstanding behavior with patients. He is married with one child named Abdulla. He is excited to do an orthopaedic trauma fellowship in Houston, Texas and will become the first orthopaedic traumatologist in Kuwait. Dr. Esmaeel also enjoys playing basketball, tennis and running.





▶ **Dr. Hasan Sawan** studied Medicine at King Abdulaziz University in Jeddah, Saudi Arabia. He went on to study orthopaedic surgery for two years in Riyadh. He then joined McGill's orthopedic surgery program and was the first resident elected as the department's Middle Eastern Resident Representative. He will join the Orthopaedic Upper Extremity fellowship program at Queen's University in Kingston. Dr. Sawan is a proud father of two boys who he loves taking care of. He is a great family man, a devoted husband and father. He is most known for his very affectionate behavior towards other residents.



Dr. Pascale Thibaudeau is from Montreal, Quebec. She graduated from McGill University medical school in 2007. Prior to residency, she competed on the international scene as a member of the Canadian National Handball Team. She joined the orthopaedics program in 2007 and since then has helped improve our residency program by co-founding the McGill Orthopaedic Surgery Interest Group (MOSIG) and sitting on the resident selection committee for the past 3 years. She also co-created our new Division of Orthopaedics website and instituted a flourishing journal club after obtaining a grant from the Orthopaedic Research and Educational Fund. She is looking forward to joining the Dalhousie team to complete a fellowship in joint reconstruction. Dr. Thibaudeau wishes to be remembered most at McGill not for her robust academic achievements, but for her ability to play dodgeball.



Dr. Mihail Radulescu graduated from the University of Medicine "Carol Davila", in Bucharest, Romania. He then completed an orthopaedic surgery residency program in Bucharest and will now be graduating from McGill University. He is married and has one daughter who is 13 years old. His wife is training in Internal Medicine in Friburg Cantonal Hospital, Switzerland and Dr. Radulescu will go to pursue an arthroplasty fellowship at the University of Toronto. Dr. Radulescu is most notably known for his charismatic behavior in the OR and for his unending curiosity at rounds and conferences.

DIVISION OF PEDIATRIC GENERAL SURGERY
PROGRAM DIRECTOR: **DR. PRAMOD PULIGANDLA**



Dr. Damian Maxwell obtained his medical degree from the University of West Indies, Kingston, Jamaica and completed his residency in general surgery at Charleston Area Medical Center (CAMC), University of West Virginia. Damian was staff surgeon and faculty member at West Virginia University Charleston Division/CAMC. Upon completion of his pediatric surgery training he plans to return to West Virginia and answer to the pediatric surgical needs

of his community. In 2009 he was awarded the Vincent Von Kern Award for the surgeon making the greatest contribution to resident education. Damian is married to Melissa, a pediatrician, who is currently staying at home with their two children Dominic and Gabriella who love the city life. They have lived in Charleston, West Virginia for the past ten years and are very excited about a two year adventure exploring all the wonders of Montreal. Originally from the Caribbean, they are new to the Northeast and welcome all the challenges (cold weather) that this experience will bring. Damian and Melissa are open to any suggestions on "must see" sites in Montreal and the surrounding areas and look forward to being a part of the McGill/MCH family. We welcome Damian and his family to Montreal and are delighted to have him join our team.

DIVISION OF VASCULAR SURGERY
PROGRAM DIRECTOR: **DR. KENT MACKENZIE**



Dr. Kayvan Abaiian holds a Bachelor of Science and Master of Science degree from the University of Ottawa, and graduated from the University of Toronto Medical School in 2005. He completed his General Surgery residency at the University of Saskatchewan in June of 2010 and has been a Vascular Surgery Fellow at McGill since July 2010. In addition to being a technically proficient surgeon, this international man of mystery is fluent in English, Persian and Portuguese and reportedly was a world class sprinter in his youth. We wish Kayvan all the best in his final year at McGill. ♦

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Now the welfare of the patient is our first consideration, not the welfare of our pockets, or our fame as an operator. In order best to conserve that welfare in our surgical work, we must always keep in mind that every wound of the human body is like a sensitive plant. It responds to gentle treatment and resents brutality. It is, moreover, in our own interest to be gentle, for we shall find that we get full compensation for value received: our wounds will heal better, our results will be better, our reputations will be better and we shall have better satisfaction with ourselves and our work. In a few words, therefore, we should be gentle-men!

— John Hammond Bradshaw
(1861-1943)



Fraser Gurd Day May 25, 2011



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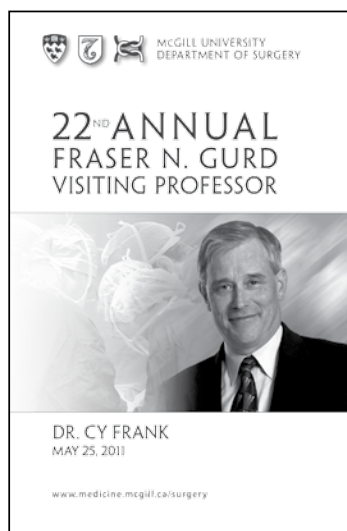
nce again the highlight of the McGill Department of Surgery's academic calendar is the Annual Fraser Gurd Day. We have this opportunity to recognize our residents graduating from their training programs and to celebrate the outstanding

research done in all divisions of the department. This event also gives us an opportunity to invite a world class academic surgeon to visit us, to speak, and to interact with our residents and faculty. This year we are once again privileged to have an outstanding individual as our visitor. **Dr. Cy Frank**, Professor Division of Orthopedics, Department of Surgery, University of Calgary, is senior investigator in Alberta innovations (Health Solutions), and the McCaig Professor, Joint Injury and Arthritis Research of the Alberta Bone and Joint Institute. Dr. Frank is an outstanding clinician, educator, and scientist. At Surgical Grand Rounds

he spoke on *Overcoming the challenges of evidence-based surgery*. He also participated in a debate entitled "Resolved: The public health care system is no longer sustainable" in which he debated **Dr. Nicolas Duval**. Continuing on the theme of evidenced based surgery, **Dr. Jeffrey Barkun** gave an outstanding 30 minute talk entitled *How do we evaluate what we do in surgery: observation versus randomization*. Throughout the day we had a series of excellent research presentations by our residents, fellows, and scientists within the Department. These presentations covered the gamut of basic science, clinical outcomes research, surgical education and health care management. Overall the quality of the presentations would equal that of any top scientific society and the poise and presentation skills of the residents and trainees continue to amaze me.

We recognize through this day the leadership and vision of our former Chairman, **Dr. Fraser Gurd**, and feel that this day inspires all of us. ♦

By Gerald Fried, MD, MSc, FRCSC, FACS



2011 MCGILL DEPARTMENT OF SURGERY AWARD WINNERS PRESENTED AT THE 22ND ANNUAL FRASER GURD BANQUET

HARVEY H. SIGMAN UNDERGRADUATE
TEACHING EXCELLENCE AWARD (*Post Graduate Education*)
Dr. Lorenzo Ferri

POST GRADUATE EDUCATION TEACHING EXCELLENCE AWARD
Dr. Barry Stein

THE "EDDY"
EDMOND D. MONAGHAN PRINCIPLES OF SURGERY AWARD
Dr. Jennifer Chung

KATHRYN ROLPH AWARD
Dr. Liane S. Feldman

OUTSTANDING RESIDENT / FELLOW TEACHER AWARDS
Cardiac Surgery: **Dr. Pierre-Luc Bernier**

General Surgery (*a tie*): **Dr. Bader Al-Bader & Dr. Maha Al-Shaibi**

Orthopaedic Surgery: **Dr. Mitchell Bernstein**

Plastic and Reconstructive Surgery: **Dr. Omar Fouda Neel**

Urology: **Dr. Saad Aldousari**

RESEARCH AWARDS

Oral Presentations for Excellence in Basic Science Research

1st Prize: **Dr. Ziyad Binsalamah**
*Intramyocardial Sustained Delivery of Placental Growth Factor Using
Nanoparticles as a Vehicle for Delivery in the Rat Infact Model*

2nd Prize: **Dr. Letitia Z. Lim**
*Demineralized Bone Matrix Around Porous Implants Promotes
Rapid Gap Healing and Bone Growth*

3rd Prize: **Dr. Yo Kurashima**
Using Videos for Surgical Education – Sample Video Presentation

Poster Presentations for Excellence in Basic Science Research

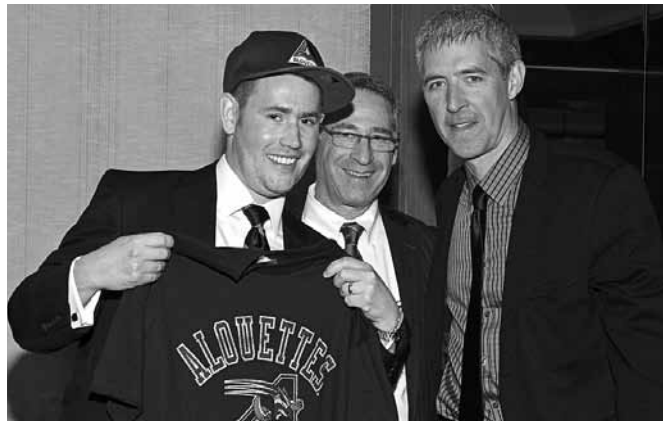
Winner: **Mr. Sam W. Chan**
Poster entitled: *Molecular Diagnosis of Prostate Cancer Using
tmprss2: erg Fusion Markers in Urine: A Prospective Study
on Patients Undergoing Diagnostic Biopsy*

Poster Presentations for Excellence in Clinical Research

Winner: **Mr. Fan Jiang**
Poster entitled: *Preclinical Assessment of a Tissue Engineering
Strategy to Expedite Bone Regeneration in a Cortical Defect Using
a Mesenchymal Stem Cell-Seeded Scaffold*

Highlights











Orthopaedic Surgery

continued from page 1

► Quebec hospitals for clinical, teaching and research activities in orthopaedics and for collaboration and networking amongst peers. This concept of patient-centric innovation and healthcare delivery has been adopted by the Division of Orthopaedic Surgery through collaboration with colleagues from radiology, oncology, family and sports medicine, psychiatry, emergency department, neurosurgery, nursing and physiotherapy. The approach has improved access to musculoskeletal care, enabled prioritization of surgical interventions and enhanced the overall quality of orthopaedic patient care. The 31 orthopaedic surgeons, 9 fellows and 36 residents work with a support staff of 23 clinical and 12 research coordinators. They deliver specialized orthopaedic care in Arthroplasty, MSK Oncology, Paediatrics, Spine, Sports and Trauma to a population of 1.7 million distributed over almost 1 million square km of Quebec. Despite the relatively small number of orthopaedic surgeons and restricted resources allocated to their specialty they have achieved National and International recognition in clinical care, residency training and research. Implementation of state of the art technology and development of expertise in minimally invasive orthopaedic procedures for arthroplasty, sports and spine surgery has resulted in significant funding from the private sector and from peer reviewed agencies.

STRATEGIC RESEARCH AT THE RI-MUHC

Central to the success of the Clinical Activity Priority Setting (CAPS) redevelopment project is realignment of research activities at the Research Institute affiliated with the MUHC (RI-MUHC). This requires reorganization of the existing discipline-based research Axes into trans-disciplinary Health Research Initiatives (HRI) embedded in the emerging clinical priority programs focused on tertiary care. As defined in the 2010 Research Strategic Plan (RSP) of the RI-MUHC the mandate of an HRI "will include fundamental evaluative and clinical researchers having an integrated research vision and a defined leadership and management structure". A new HRI based on tissue **REPAir** and regene**RATion** for Improved **Outcomes** (REPARATIOn Program) is being developed under the leadership of **Edward J. Harvey**, Chief of Orthopaedic Trauma. In addition to surgeons **P.A. Martineau** (Sports), **J.A. Ouellet** (Spine), **N. Saran** (Paediatrics), **M. Tanzer** (Arthroplasty) and **R. Turcotte** (MSK Oncology) from the Division of Orthopaedic Surgery, the initiative includes **L. Ferri** (Thoracic & Oesophageal), **R. Cecere** and **D. Shum-Tim** (Adult Cardiothoracic) as well as **L. Lessard** and **M. Gilardino** (Plastic Surgery).

The redevelopment of the MUHC presents a window of opportunity for strategic relocation of the research programs of these surgeon scientists to the Surgical Research Labs on C9 of the MGH. Their

specific objectives for the next 2-5 years are: 1) Establish core facilities and shared infrastructure to support research activities; 2) Increase application pressure for funding, from individual to multi-national level; 3) Build a program of excellence in reconstructive and regenerative medicine; 4) Restructure graduate studies to facilitate intra- and post MD research training in one of three areas:

Theme A: Repair is focused on implementing new devices and technology for surgical procedures and defines the outcome measures that will be needed to assess their efficacy.

Theme B: Regenerate is focused on the generation and pre-clinical validation of new knowledge on stem cells, scaffolds, biologics and devices.

Theme C: Recover is focused on transferring the knowledge gained to improve patient outcomes and to expedite their return to the community.

The research program in which **Dr. E.J. Harvey** (MD, MSc) participates addresses all three themes and is typical of that of the surgeon scientists from five different disciplines that he represents. He Co-Directs the JTN Wong Lab for Bone Engineering with **Dr. J.E. Henderson** (PhD) who is a basic scientist trained in Endocrinology as it pertains to the regulation of bone development and metabolism. Their primary interest is the development of small animal models of implant fixation and fracture repair to study tissue engineering strategies with osteogenic stem cells, growth factors and scaffolds. Other studies involve collaboration with **Dr. Chodavarapu** (PhD Eng) in Electrical & Computer engineering to develop implantable micro-sensors for early detection of orthopaedic infection. In collaboration with **Dr. C. Séguin** (MD, BScN) from Hematology/Oncology he is involved with young patients who develop osteonecrosis, which is a severely debilitating condition in young people who have received high dose glucocorticoid therapy for haematological malignancies or chronic inflammatory disease. The treatment interrupts the flow of blood in the microcirculation of trabecular bone in the femoral head that results in end-stage osteoarthritis and the need for total joint arthroplasty at a very young age. Ongoing efforts involve the use of a rodent model to study the feasibility of using a circulating biomarker instead of MRI and bone scan to monitor high risk patients in a clinic for planning surgical intervention with vascularised bone graft to avoid arthroplasty. At the other end of the age spectrum are studies performed in collaboration with **Dr. S. Morin** (MD, MSc) from Medicine on the long-term safety and efficacy of bisphosphonate therapy for osteoporosis. Post-marketing reports of atypical hip fractures have prompted studies on the association between the time from initiation of therapy to the fracture event to provide guidance to clinicians and patients on the potential risks of the therapy. Another study uses the Québec hospital discharge, physician and drug claims databases to estimate the costs of post-hip fracture ►

► care such as health services utilization and quality of life after re-integration into the community.

The JTN Wong lab typically hosts up to eight graduate and post graduate trainees from MDCM, BSc and biotechnology programs working on these and other projects supervised by Dr. N. Saran (MD, MSc), Dr. J.A. Ouellet (MD) and Dr. P.A. Martineau (MD). The wet-bench research is aligned with multi-centre clinical trials that evaluate new implants, grafting options and surgical approaches to improve bone healing and patient outcomes. Financial support for these and other projects has been awarded from AO Foundation, Canadian Orthopaedic Trauma Society, Canadian Institutes of Health Research, Fonds de la Recherche en Santé Québec, Leukemia & Lymphoma Association, Orthopaedic Trauma Association and private sector partners. The REPARATION Program will be strengthened by expertise in arthroplasty from the Joe Miller Lab (MGH) and in spine regeneration from the Orthopaedic Research Lab (RVH). Other researchers in the Division external to the MUHC will contribute and benefit from the program including those at the SMBD-Jewish General Hospital and the Shriners Hospital for Children.

PAN-CANADIAN ORTHOPAEDIC TRAUMA NETWORK

Trauma is the number one cause of death in otherwise healthy young

Canadians and results in the loss of more potential years of life than any other health related problem. Orthopaedic trauma accounts for more than 75% of the morbidity and long term disability resulting from injury. The leadership of the Canadian Orthopaedic Trauma Society (COTS) and other prominent members of the bone health research community met in September 2010 to develop a roadmap for a Canadian Orthopaedic Trauma Network called BONeT (Bone Net). The BONeT team, led from the RI-MUHC, was selected as one of only nine to submit an application for funding through the Canadian Networks of Centres of Excellence

program in August 2011. The vision of the Canadian Orthopaedic Trauma Network is to provide international leadership in R&D that will lead to breakthroughs in the management of orthopaedic injury and significant reductions in its socioeconomic burden. BONeT will build synergy amongst 16 academic healthcare institutions in eight provinces that provide Level 1 trauma care across Canada. This will be achieved by building transdisciplinary teams of clinician, biomedical and engineering scientists within the COTS framework, which was established by orthopaedic trauma

surgeons to conduct multi-centre randomized trials. BONeT will link existing internationally renowned expertise in molecular cell biology, bone tissue engineering and pre-clinical validation with research in clinical interventions and outcomes, advocacy and policy development in three interrelated research themes.

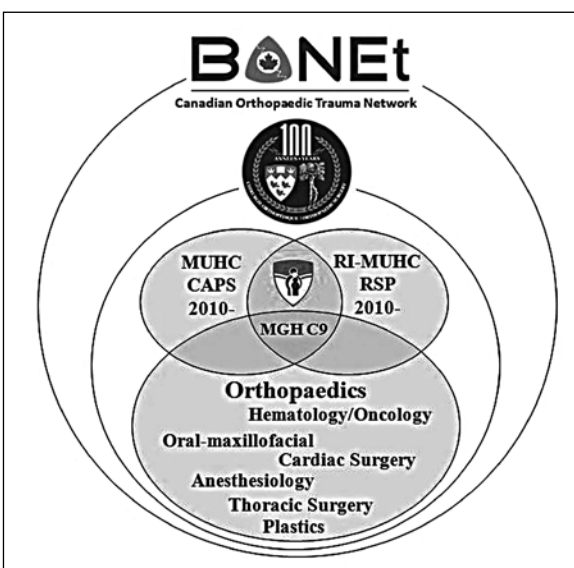
Theme I: Bone Tissue Engineering Improved implants, grafts, anabolic agents, cell-based therapies and micro-devices will be developed to expedite repair and monitor bone healing.

Theme II: Clinical Interventions Results from a national registry of trauma patients will be used to improve study design and the critical mass of trauma patients across the Network will act as a clinical test bed for trials using validated measurement tools.

Theme III: Knowledge Translation, Exchange & Outreach

A National trauma database will enable tracking of interventions and devices to ensure the safety of Canadians, while an advocacy team will disseminate and exchange information with consumers, healthcare providers, policy makers, industry leaders and the public at large. BONeT will act as a platform for the acquisition of unique research skills through a series of inter-disciplinary workshops and summer courses for trainees at all levels across the spectrum of stakeholders in health, biotechnology and the private sector. The inter-disciplinary model that will be promoted across the Network will increase the capacity to manage orthopaedic trauma in a

more cost effective manner and with improved patient outcomes. The Network will build on existing relationships with agencies such as Health Canada, not-for-profit organizations including SmartRisk and a community of private sector partners with a focused interest in bone health and skeletal reconstruction. These partnerships will increase awareness of healthcare related to orthopaedic trauma, expedite the development of an effective national prevention strategy and the translation of knowledge into health innovations.



SUMMARY

In its centennial year the McGill Division of Orthopaedics continues to demonstrate exemplary leadership in the delivery of healthcare, in innovative patient-centered research and in mentoring the next generation of orthopaedic surgeons. The re-alignment of their clinical and research activities aimed at improving orthopaedic healthcare at the MUHC is under-way and extended across Canada through BONeT. Their accomplishments, together with those of their international colleagues, ►

- ▶ will improve access to musculoskeletal care and enhance the overall quality of orthopaedic patient care on a global basis. ◆

McGill Division of Orthopaedics

<http://www.mcgill.ca/orthopaedics/>

Montreal General Hospital

<http://www.archives.mcgill.ca/resources/guide/vol1/rg96>

McGill Alumni Online Community

<http://aoc.mcgill.ca/network/homecoming/events>

Networks of Centres of Excellence

<http://www.nce-rce.gc.ca>

Canadian Orthopaedic Trauma Society

<http://cots.medicine.dal.ca/Research.php>

Canadian Orthopaedic Association

<http://www.coa-aco.org/>

URGENT NOTICE...

Centennial Reunion McGill University
Orthopaedic Surgery

**Please note, due to conflict dates
with Orthopaedic Trauma Association
Meeting, the dates for this event have
been moved to the following weekend:**

OCTOBER 20-21-22nd, 2011

Please reserve new dates and contact:

eric.lenczner@muhc.mcgill.ca

(We need to have an idea of number
of attendants.)

AVIS URGENT...

Réunion centenaire, Université McGill
Chirurgie Orthopédique

**Veillez noter qu'en raison du conflit
des dates de la rencontre de l'Association
de trauma orthopédique nous déplaçons
les dates de la réunion
à la fin de semaine suivante:**

OCTOBRE 20-21-22, 2011

SVP réservez les nouvelles dates et contactez:

eric.lenczner@muhc.mcgill.ca

(Nous devons connaître le nombre
de présences.)



UNIVERSITÉ MCGILL
CHIRURGIE
ORTHOPÉDIQUE

MCGILL UNIVERSITY
ORTHOPAEDIC
SURGERY

RÉUNION DU CENTENAIRE
CENTENNIAL REUNION

OCTOBRE / OCTOBER 20-22, 2011

SVP NOTER LES NOUVELLES DATES ET POUR CONTACT :
PLEASE NOTE NEW DATES AND CONTACT :
eric.lenczner@muhc.mcgill.ca

Centre universitaire de santé McGill
McGill University Health Centre

McGill

Now of operators there are many types, and, like every other work of art, an operation is the expression of a man's temperament and character. There are still among us "brilliant" operators, from whom I pray to be spared when my hour has come. For them it is the mere quality of effort that counts. Their ideal of operative surgery is something swift and infinitely dexterous, something to dazzle the beholder, and excite his wonder that such things can so be done by human hands. The body of a man is the plastic material in which an artist works, and no art is worthy of such a medium unless it has in it something of a sacrament. Surgery of the "brilliant" kind is a desecration. Such art finds its proper scope in tricks with cards, in juggling with billiard balls, and nimble encounters with bowls of vanishing goldfish!



– Sir Berkely Moynihan
(1865-1936)

Dr. Jean Ouellet and Dr. Robert Turcotte were invited as presidential speakers at the 4th Saudi Orthopaedic Association held from January 16th to 20th 2011 in Abha Saudi Arabia.

KUDOS !!

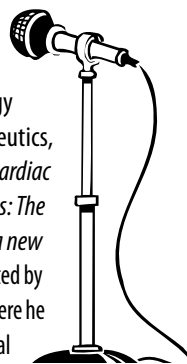


Dr. Robert Turcotte, Chairman of the Division of Orthopaedic Surgery, was appointed international professor of the Orthopaedic Surgery Research Chair at King Saud University in Riyadh. The ceremony was attended by Professor Al-Othman, rector of King Saud University and Professor Salman, dean of the faculty of Medicine. The mandate is to help developing research activities under the supervision of **Professor Fawzi Al-Jassir**, chair in Orthopaedic Surgery at King Khalid hospital. Dr. Al-Jassir completed his residency, two fellowships and a master in experimental surgery at McGill University.

Dr. Renzo Cecere, Associate Professor in cardiac surgery, has been named Visiting Professor at the Faculty of Medicine, UiTM Selayang Campus, Selangor, Malaysia. His 2-year mandate will include leading teaching and education activities in the Faculty of Medicine, implementing research initiatives in collaboration with McGill experts in Genomics, Proteomics, and Population Genetics relative to cardiovascular diseases, and advancing clinical capabilities and institutional organization and infrastructure for the management of Advanced Heart Disease.

Dr. Ray C.J. Chiu was invited by **Dr. Rituparna Sinha Roy**, Brigham and Women's Hospital, Harvard Medical School, to speak at a Congress for Experimental Biology 2011, held on April 9-13, 2011 at the Walter Washington Convention Center, D.C., USA, which had total attendees of over

8,000. His lecture was at a session for American Society for Pharmacology and Experimental Therapeutics, and entitled *Therapeutic cardiac angiogenesis and myogenesis: The promises and challenges on a new frontier*. Dr. Chiu was also invited by the government in Taiwan, where he originated, to join a Presidential nomination committee and select worldwide a leading biomedical scientist who originated from that island. Every two years a recipient is nominated for the Presidential prize. The candidates came from many leading institutions, such as Harvard, Johns Hopkins et al. Dr. Chiu has also been invited to join the editorial board for the World Journal of Surgery.



Dr. Gerald Fried, Chairman of the Department of Surgery, summarized his recent accomplishments as the following:

- ▶ Elected to the Canadian Academy of Health Sciences;
- ▶ Named to editorial board of *Annals of Surgery*, *Archives of Surgery*, *World Journal of Surgery* this year in addition to previous positions on editorial boards of *Surgery*, *Journal of American College of Surgeons*, *Surgical Endoscopy*, and *Surgical Innovation*;
- Recipient of SAGES Distinguished Service Award (for a significant, long-term educational, research, clinical and/or technological contribution to the field of surgical endoscopy as well as to SAGES) 2011
- ▶ Invited lectureships (July 2010-June 2011);
 - Simulation in surgical education: the McGill experience. Universite de Montreal Pedagogical Day. Montreal, QC October 2010.
 - Teaching Billy how to operate: can we do better? 5th Biennial Congress of the Israel Society of Endoscopic Surgeons, Herzliya, Israel, November, 2010.

- Surgical Treatment of Paraesophageal Hernia: Evidence for the Minimally Invasive Approach. Biennial Congress of the Israel Society of Endoscopic Surgeons, Herzliya, Israel, November, 2010.
- Learning to operate: from lab coats to simulators to the operating room. Surgical Grand Rounds and Visiting Professor, Banner Health System, Phoenix, AZ, Jan 2011.
- Surgical Treatment of Paraesophageal Hernia: Evidence for the Minimally Invasive Approach. Royal Hospital, Muscat, Oman, Feb. 2011*
- * *Learning to operate: from lab coats, to simulators to patients. Sultan Qaboos University Hospital, Muscat Oman Feb 2011.*
- Incorporating FLS and FES into Your Residency (session chair) SAGES annual meeting. San Antonio, TX, March 2011.
- FLS and FES Programs: What are Their Roles in Surgical Education? SAGES annual meeting. San Antonio, TX, March 2011.
- Teaching Billy How to Operate: Can we do better? Dr. Robert Zhong Lecture and Visiting Professorship, Department of Surgery, University of Western Ontario, London, ON, April 2011.
- The Fundamentals of Laparoscopic Surgery: A New Paradigm for Training and Evaluation for Innovative Surgical Techniques. Johnson & Johnson Lectureship, Li Ka Shing International Healthcare Educational Centre, St. Michael's Hospital, Toronto, ON, June 2011.
- Acquiring operative skills: closing the loop between the skills lab and the operating room. Canadian Association of Urological Surgeons. Montreal, QC, June 2011. ▶

BOARD OF DIRECTORS

- ▶ Canadian Association of General Surgeons
- ▶ Society of American Gastrointestinal and Endoscopic Surgeons (1st Vice-President)
- ▶ International Federation of Societies of Endoscopic Surgeons
- ▶ International Society for Digestive Surgeons (Treasurer)
- ▶ Central Surgical Association (President)
- ▶ Society for Surgery of the Alimentary Tract
- ▶ Association for Surgical Education Foundation
 - James IV Association of Surgeons (President, Canadian Section)

Achievements Residents and Fellows

Dr. Ziyad Mohammed Binsalamah, PGY-3 in Cardiac Surgery in his research year of training, received a series of First prizes in oral presentations in basic science/surgical research category. The title of his talks was: *Intramyocardial Sustained Delivery of Placental Growth Factor Using Nanoparticles as a Vehicle for Delivery in the Rat Infarct Model*. The prizes were:



Dr. Ziyad Mohammed Binsalamah

Sarah Strathmore Award for the best oral presentation in the basic science category, at the McGill Cardiovascular Research Day held on February 17th, 2011.

- ▶ Best oral presentation at the Annual Research Day of the Montreal Children's Hospital held on May 25th, 2011.



Dr. Gerald Fried and staff at the Royal Hospital in Muscat, Oman, February, 2011.

- ▶ First prize in oral presentation at the Fraser Gurd Day held by the McGill Department of Surgery on May 25th, 2011.
- ▶ Dr. Wilfred Bigelow Prize for the Best oral presentation in Basic Science Research at the Annual Terrence Donnelly Cardiac Residents' Research Day, held on June 11th, 2011, at the University of Toronto.



Miss Melanie Lighter

McGill University Faculty of Medicine (P.I.: **Dr. Anie Philip**, PhD), was the winner of the 2011 Wound Healing Society Young Investigator Award. She received this prize at The 21st Annual Meeting of the Wound Healing Society, held on April 14-17, 2011 in Dallas, Texas. The title of her presentation was: *Overexpression of CD109 Attenuates Cutaneous*

Inflammation and Fibrotic Responses in vivo. Congratulations!

Kudos is extended to **Dr. Letitia Lim**, a PhD student working in the Jo Miller Orthopaedic Research Laboratory on the 9th floor University Surgical Clinic of the Montreal General Hospital. Under the supervision of **Dr. Dennis Bobyn** and **Dr. Michael Tanzer**, Dr. Lim is studying various classes of materials that can be used to enhance gap healing and bone ingrowth fixation of porous coated joint replacement implants. Dr. Lim's research has been the recipient of several prestigious national, international and local awards in the past year:

- ▶ 2010 Canadian Biomaterials Society, 1st Prize, Best Student Paper.
- ▶ 2011 Otto Aufranc Award of the Hip Society, Best Basic Science Research.

(See *Achievements* on page 29) ▶

This research project was carried out with the collaboration of two laboratories: the cardiac surgery lab under the supervision of **Dr. Shum-Tim** & the biomedical engineering lab under the supervision of **Prof. Prakash**, with the help of his students: **Arghya Paul** (PhD candidate) & **Afshan Khan** (MSc candidate).

In General Surgery, **Dr. Paola Fata** is proud to announce this year's recipients of the Canadian Association of General Surgeons Norvell Awards for the highest marks on the CAGS in-training exam. McGill was very well represented in this cohort. Both **Drs. Ioana Antonescu** (R1) and **Steven Gowing** (R1) received top marks from among the R1 cohort, and **Dr. Chris Zalai** (R5) had the highest recorded mark in Canada.

Miss Melani Lighter, a M.Sc. Student at the Research Laboratory for Plastic Surgery,

P

USHING THE ENVELOPE OF PROGRESSION IN TEACHING, EVALUATION AND TECHNOLOGY

In the early 1990s, when MIS (minimally invasive surgery) was just beginning, surgeons were flocking to weekend courses to learn

Minimally Invasive Surgery (MIS) at McGill and MUHC

By Julia Asselstine

new skills. With this approach to training, there were bound to be some problems. As a result, people started to question if some of that learning could be done outside of the OR in a simulated environment, where there would be no risk to patients and “practice could make perfect.” This is when Dr. Gerald Fried, the current Chair of the Department of Surgery, and an early adopter of laparoscopic surgery, started working on a basic simulator to teach fundamental laparoscopic surgical skills, like suturing. He and his team ended up developing and validating a simulation platform which was incorporated into the “Fundamentals of Laparoscopic Surgery” (FLS) program, now used across North America to teach and assess these skills.

“One of the challenges for people who have not performed MIS before is working with longer instruments,” says Dr. Melina Vassiliou, MUHC surgeon, assistant professor of Surgery at McGill University and associate director of the McGill Medical Simulation Centre, who was part of Dr. Fried’s team that created and validated FLS. “You lose a lot of the feedback you get with touch and degrees of freedom in terms of movement are limited. Tremor is also emphasized and you have to get used to visualizing something in a two dimensional environment as you are looking at a TV screen not the real thing.”

LINKING PRACTICE TO PERFORMANCE

The objective of Dr. Fried’s project was to link simulation practice to live performance to show that an investment in time and practice in the simulator will translate to improved performance in the operating room. To demonstrate this, Dr. Vassiliou and a team of researchers first developed and validated the Global Operative Assessment of Laparoscopic Skills, also known as GOALS, in order to have an objective measure of intraoperative laparoscopic performance.

The GOALS assessment showed that with FLS training there was a huge improvement in the operating room—first-year residents performed at the level of second- and third-year residents after only seven or eight hours of practice in the simulator. GOALS is



Dr. Melina Vassiliou

photo: Pierre Dubois

now used by many other institutions as a way to track performance and give feedback to trainees.

PERFECTING THE WAYS WE LEARN

“We are now also trying to understand the different ways people learn, how they learn best and how to best use the simulator,” says Dr. Vassiliou. “We looked at such things as the effects of distracters and what contributes to motor learning. We are currently trying to understand how people become experts, similar to musicians and athletes.”

There is also a study analyzing the impact of acute physical exercise on motor learning. “We know that exercise releases neurotransmitters and hormones that are important in creating synapses and learning. We want to see if physical exercise can increase retention or increase efficiency of learning some skills,” says Dr. Vassiliou.

Just recently, through the MGH Foundation and the de Kuyper family, the de Kuyper Centre for Medical Education opened. The centre is closely linked to the Steinberg-Bernstein centre for Minimally Invasive Surgery at the MGH. “The de Kuyper Centre helps us to better use technology and innovation in education,” she says. “Here we keep a video library of all of our MIS procedures that are searchable and used for learning. We have over 1,000 videos since the early 90s. We also hold teleconferences about once a month in this room — we log in to 15 to 20 centres around the world that are leaders in MIS.”

LOOKING FORWARD

In August, Dr. Vassiliou will be the first in Canada to perform an endoscopic procedure for a rare swallowing disorder called achalasia, for which the MUHC is a referral centre. The technique, Per Oral Endoscopic Myotomy, was invented in Japan. Using a flexible endoscope, Dr. Vassiliou will make a small incision in the inner lining of the esophagus and then divide the muscle layer, which relieves the swallowing problem. She will then close it with clips. No outer incisions are required.

“With the proper evaluations and research we have the opportunity to innovate and see how much less invasive we can go,” says Dr. Vassiliou. “We must keep progressing in teaching, evaluation and technology for our patients of today and of the future.”

M

IS TRANSFORMS GIRL'S FUTURE IN JUST OVER AN HOUR

By Julia Asselstine

For Kelsey Vickers, the indentation in her chest was something she could easily hide. At only 13 years old, it did not have a huge impact. It was only when she went in for a laparoscopic procedure to have her appendix removed last year that her surgeon, Dr. Sherif Emil, mentioned to her parents that there is a minimally invasive surgery that could be performed on their daughter to correct the concave portion of her chest.

"Pectus excavatum, the scientific term of what Kelsey has, can cause cardiac compression and other complications. There used to be only one radical surgery available to correct this, but it involved a big incision, and five- to six-hour operation, often with major blood loss," says Dr. Sherif Emil, MUHC director of the Division of Pediatric General Surgery. "Today, using thoracoscopic surgery, we make only two small incisions on the sides of the chest, insert a metal bar that lifts the chest, and then we close the small incisions. It takes 1 1/2 hours with minimal blood loss. The bar stays in for three years. Just as braces realign teeth, the rod realigns the chest."

According to Dr. Emil, this problem can also contribute to social disabilities because it makes a person's appearance abnormal. Frequently, kids and adults who have this are quite withdrawn. "In a way, this procedure is often mostly cosmetic," he says, "but it can dramatically change a patient's life."

"My wife and I discussed this option with Kelsey and explained everything that the doctor told us. We let her decide," says

Jason Vickers, Kelsey's dad. "She chose to go through with it now instead of in the future when it could have already had an impact."

Kelsey looks forward to getting back to her swimming, which she was told could start soon, and to a future with a normal chest wall.



photo: Julia Asselstine

Kelsey Vickers and nurse Karen Brual

F

ROM THE MOUTH OF OUR FELLOW...

He could have gone anywhere in North America, but **Dr. Étienne Auger-Dufour's** first choice for a fellowship in minimally invasive surgery (MIS) was at the McGill University Health Centre (MUHC). Overall improved surgical outcomes peaked Dr. Auger-Dufour's interest in MIS initially during his residency and his thirst for knowledge in this area only continued to grow.



photo: Pierre Dubois

Dr. Étienne Auger-Dufour

By Steven Ledoux

The decision then to apply for a fellowship in MIS at the MUHC was a no brainer: with a long history of excellence in MIS training programs, pioneered by Dr. Gerald Fried, and a high number of such surgeries being performed in many specialties, the expertise was significant, engrained and still growing. "I was really impressed by the fellowship program," says Dr. Auger-Dufour, who was chosen out of 50 applicants from Canada and around the world. "I felt I could really grow as a surgeon and gain much experience."

During his fellowship, Dr. Auger-Dufour enjoyed his role as teacher to residents in Surgery, naturally passing on his enthusiasm and skills in MIS. He also appreciated the support research has had with newly-introduced MIS projects—projects that must be analyzed by scientists at the bedside before they reach the bedside—, and the teamwork with many different disciplines that contribute to achieving all goals with MIS. "The relationships you develop with many different people in different areas of expertise contribute to learning. I felt considered and implicated in open discussions with really open minded people," says Dr. Auger-Dufour, who just finished his one-year fellowship. "Another positive aspect of the MUHC is its position as a referral centre for complex cases. Getting exposure to very advanced cases from Montreal and even as far as Gatineau, we get the chance to perform many complex procedures that many places may only see once a year."

Dr. Auger-Dufour plans to return to Québec City, his hometown, to work as a general MIS surgeon at l'Hôpital l'Enfant Jésus, where he'll join a team of nine surgeons. "The MUHC has prepared me well for this job," he says. "I feel ready to take on the leadership that will be necessary. I might even start my own fellowship program there, which they don't have...yet." ♦

MIS articles used with permission from "enBref", Volume 2, Issue 8, July 21, 2011.

Divisional Activities

DIVISION OF GENERAL SURGERY

M

The division of general surgery is very pleased to welcome two new recruits. **Dr. George Zogopoulos** will join the Transplantation and Hepato-pancreato-biliary Surgery Group at the MUHC as a surgeon-scientist. George obtained his PhD in Experimental Medicine at McGill University, followed by his MD at the University of Toronto. During his General Surgery residency in Toronto, he completed a three-year postdoctoral research fellowship in cancer genetics, followed by a two-year fellowship in HPB surgery and Transplantation. George's research at the Goodman Cancer Centre will focus on pancreatic cancer and genomics.



Dr. Elliot Mitmaker

Dr. Elliot Mitmaker has been successfully recruited back to McGill after a two-year fellowship in Endocrine Surgery at UCSF. Elliot completed his general surgery residency at McGill, during which time he also obtained his MSc in Experimental Medicine studying thyroid neoplasms. His interest and research training in thyroid cancer continued during his fellowship. Elliot plans to further develop a section of endocrine surgery at McGill, focusing on thyroid, parathyroid and adrenal disease and will continue his research in collaboration with Dr. M Trifiro at the Jewish General Hospital.

At the Annual Meeting of the American Society of Colon and Rectal Surgeons held May 14-18, 2011, **Dr. Philip H. Gordon**, Professor of Surgery and Oncology and Director of Colon and Rectal Surgery at the Jewish General Hospital and McGill University, was honoured with the award "Master in Colorectal Surgery". This award was established to honour a surgeon who has made extraordinary contributions to the specialty of colon and rectal surgery and the American Society of Colon and Rectal Surgeons. Dr. Gordon is the second recipient of this award. During the award presentation entitled *Dr. Philip H. Gordon – Commitment to Excellence*, **Dr. David J. Schoetz**, Executive Director of the American Board of Colon and Rectal Surgery, cited the numerous accomplishments of Dr. Gordon. Highlighted amongst these were the fact that Dr. Gordon is a Past President of the American Society of Colon and Rectal Surgery (the socio-economic and educational arm of the specialty) – the only non-American to have held this office; Past President of the American Board of Colon and Rectal Surgeons (the body responsible for the certification of Colon and Rectal

Surgeons) – again the only non-American to have held this office; the Founding President of the Canadian Society of Colon and Rectal Surgeons and co-author of the textbook "Principles and Practice of Surgery for the Colon, Rectum and Anus" – a comprehensive textbook that has been described as the authoritative book in the specialty which is now in its 3rd edition. ♦



Master in Colorectal Surgery Award

Dr. Philip Gordon with Dr. David J. Schoetz, Executive Director of the American Board of Colon and Rectal Surgery.

**It is the harmonious unison
of mind and the senses,
the hand and the head,
science and craft, exhibited in
the supermen who have exalted
in the fine art, from antiquity
to the present time, that we find the ideal,
difficult to attain it is true,
that should be in the mind of those
who aspire to the mastery of our profession.**



*– Rudolph Matas (1860-1957)
Introduction to W.S. Halsted's
Surgical Papers*

Divisional Activities

DIVISION OF PAEDIATRIC SURGERY

Dr. **Sherif Emil** has been selected by the Surgical Section of the American Academy of Pediatrics to serve as Vice-Chair of the Program Committee for 2011 and Chair for 2012. The Section is the oldest pediatric surgical organization in North America, and has links to McGill dating back to **Dr. Harvey Beardmore**.

Dr. Sherif Emil published an article in the March issue of the Bulletin of the American College of Surgeons by the title of "The Quest for Significance". The article, based on a commencement address to medical students in 2010, drew the attention of surgeons and surgical leaders from throughout North America.

NEWS FROM AROUND THE DIVISION

The pediatric surgical Division presented a full day course targeted at pediatricians and family practitioners on February 9, entitled "Pediatric Surgical Problems". The course, which was offered in conjunction with the annual "Practical Solutions in Pediatrics" course organized by the MCH, was extremely successful and represented the first such educational effort by a surgical specialty.

The Division of Pediatric General Surgery has inaugurated a new multidisciplinary Chest Wall Anomalies Centre on July 6 as a joint venture between the MCH and the Shriners Hospital. This centre, the first of its kind in Canada, brings together pediatric surgeons, pediatric orthopedic surgeons, respirologists, nurses, orthotists, and physiotherapists, with additional support from cardiologists, geneticists, psychologists, and plastic surgeons to treat the entire range of chest wall anomalies using the latest surgical and non-surgical modalities.

The Division of Pediatric General Surgery has established the *Luong T. Nguyen Award for Superior Performance by a Core Surgery Resident in Pediatric General Surgery* to be given annually to a core surgical resident with best performance on the pediatric surgery rotation. This year's recipient of the L.T. Nguyen Award was **Dr. Ioana Antonescu**. The award was presented to Ioana by Dr. Nguyen, at the Division's annual dinner honoring the graduating fellow and Frank M. Guttman visiting professor.

FRANK M. GUTTMAN VISITING PROFESSOR

The Division of Pediatric General Surgery held its annual Frank M. Guttman Visiting Professorship on June 8 and 9. The Division was honored to host Professor **Henri R. Ford**, Vice-President and



Dr. Henri R. Ford

Surgeon-in-Chief at Children's Hospital Los Angeles (CHLA), Professor and Vice Chair for Clinical Affairs, Department of Surgery and Vice-Dean of Medical Education at the Keck School of Medicine of the University of Southern California. Under Dr. Ford's leadership, CHLA has developed a robust state of the art minimally invasive surgery program. He has conducted definitive studies on pediatric trauma in the United States and his investigative

studies have generated new insights into the pathogenesis of necrotizing enterocolitis, the most common and most lethal disorder affecting the gastrointestinal tract of newborn infants. Dr. Ford's research has been funded by the National Institutes of Health, the Robert Wood Johnson Foundation, the National Trauma Registry and the American College of Surgeons. He is the author of more than 300 publications, book chapters, invited manuscripts, abstracts and presentations. He has served on the editorial boards of multiple major medical journals, and is currently Associate Editor of the Journal of Pediatric Surgery. Dr. Ford is a fellow of the American Association for the Surgery of Trauma, the American Academy of Pediatrics and the American College of Surgeons and a member of numerous professional and scientific societies. In the course of this two-day event, Professor Ford delivered pediatric medical grand rounds *Molecular Basis for the Pathogenesis of Necrotizing Enterocolitis*, McGill multidisciplinary surgical grand rounds *Answering the Call to Action: Response to the Haiti earthquake of January 12, 2010* and neonatal rounds *Controversies in the Management of Necrotizing Enterocolitis*. He was also a key judge of the fellows' pediatric surgical debate, deliberating on the topic *Intestinal resection is superior to peritoneal drainage for perforated necrotizing enterocolitis*. We were honored to host Dr. Henri Ford, a truly exceptional leader in medical education, surgical research and clinical surgery. ♦

.....

**Surgery is the ready motion
of steady and
experienced hands.**

— *Definitiones Medicae,*
XXXV



T

HE 9TH ANNUAL L.D. MACLEAN GENERAL SURGERY

DAY, acknowledging Dr MacLean's leadership, achievement and promotion of excellence, was held April 6-7, 2011. We were fortunate to welcome

Visiting Professor



Dr. Guy Maddern

Dr. Guy Maddern, the RP Jepson Professor of Surgery at the University of Adelaide

in Australia, as the visiting professor. The energetic Dr Maddern is the Surgical Director of the Australian Safety and Efficacy Register of New Interventional Procedures in Surgery (ASERNIP-S) and the Director of Surgery and Director of Research at the Queen Elizabeth Hospital in Adelaide. Dr Maddern presented two stimulating talks on his work bringing together the development, assessment and introduction of surgical techniques, processes and technologies into practice, *National evaluation of surgical outcomes: Is it possible*, and *New surgical technologies: How should they be assessed?*

The day was an opportunity to highlight the research and academic activities of the Division. Moderated by the divisional director of research, **Dr. Lorenzo Ferri**, fifteen research papers were presented, representing the range of research and clinical interests of the Division. A panel of judges evaluated the presentations, and the audience also awarded the "people's choice award" for their favorite. The well-attended annual banquet was held at the Sofitel Hotel, and was a chance to celebrate the commitment of our teachers and residents.

RESEARCH PRESENTATION AWARDS

1st: **Dr Jonathan Spicer** (supervisor: Dr Lorenzo Ferri)
Neutrophil MAC-1 mediates inflammation induced cancer cell recruitment to liver sinusoids

2nd: **Dr. Tung Tran**
A novel measure of recovery after abdominal surgery

3rd: **Dr. Maher Matar**
Quantitative profiling of HMGB-1 and HSP-70 in kidney allografts during mechanical preservation

THE PEOPLE'S CHOICE AWARD

Dr. Jonathan Spicer

COMMITMENT TO EXCELLENCE FOR UNDERGRADUATE TEACHING

Dr. Mohammed Jamal

COMMITMENT TO EXCELLENCE FOR BEST TEACHER (as chosen by the residents)

Dr. Shannon Fraser

JULIUS GORDON FELLOWSHIP

Dr. Mohammed Jamal

LEADERSHIP AWARD

Dr. Wael Hanna

BEST RESIDENT TEACHER

Dr. Maha Al-Shaibi

ROGER TABAH CHIEF RESIDENT TEACHER AWARD

Dr. Bader Al-Bader

STIKEMAN VISITING PROFESSORSHIP 2011

On May 12th, 2011, **Dr. Steven F. Bolling**, Professor of Surgery at the University of Michigan Medical Center, Section of Cardiac Surgery in Ann Arbor, Michigan, was the **43rd Stikeman Visiting Professor** to the Divisions of Cardiac and Thoracic Surgery.

Visiting Professor

At Surgical Grand Rounds in the Osler Amphitheatre of the Montreal General Hospital, Dr. Bolling spoke on *Heart Failure – The Left Ventricle and the Mitral Valve*. This was followed by laboratory and clinical research presentations by the residents of the Divisions. After lunch, Dr. Bolling had an informal meeting with the residents, followed by more presentations by residents and alumni. The alumni from out of town who attended this year's



Dr. Steven F. Bolling

event were **Drs. Rony Atoui, Tom Burdon, Lee Errett, David Latter, Danny Marelli, Reza Mehran, Siamak Mohammadi and Garrett Walsh.**

The annual banquet was held at the University Club in honour of the Visiting Professor and our graduating residents – **Dr. Fahad AlTuwaijri** and **Dr. Pierre-Luc Bernier**. Congratulations!

It was a pleasure to welcome Dr. Bolling as the 2011 Stikeman Visiting Professor to the Divisions of Cardiac and Thoracic Surgery. ►

D

R. RENZO CECERE, Associate Professor of Surgery at McGill, invited **Dr. Betty L-J. Yen** who was presenting a research paper at an international conference on stem cells at Toronto, to visit our cardiac surgical research laboratory which has been a pioneer in contributing to stem cell research on cardiac diseases.

Visiting Professor

The title of our guest speaker was *Novel sources of human stem cells: fetal-stage mesenchymal stem cells and induced pluripotent stem cells (iPS)*. iPS is an unimaginable new technology which may turn a skin cell into a whole animal! Dr. Yen, trained as an Ob-Gyn specialist, is an associate scientist at the National Health Research Institute in Taiwan. She gave a sophisticated lecture pointing to the future of this science. Dr. Cecere's team at McGill is exploring the application of such fascinating discoveries to the management of cardiac diseases in the future.

P.S.: **Dr. Ray C.J. Chiu**, Professor of Surgery at McGill, was one of the founding group members for the National Health Research Institute in Taiwan in 1992, and often served in its Advisory Committees. ♦



Dr. Betty Lin-Ju Yen



Were You There? University Surgical Clinic Residents and Directors 1983-84



From L to R (standing): A. H. McArdle, B. Williams, W.A. Mersereau, R.C.-J. Chiu, P. Bludell, D.S. Mulder, D. Fleiszer, J. Khoury, G.M. Fried
From L to R (sitting): C. Wittnich, P. Mann, W. Schubert, G. Fradet, B. Loggie, S. Brister. (missing: P. Angood).

DR. HENRY J. SCOTT (HARRY) 1918-2011

On Saturday, May 4, 2011, with fresh spring breezes gently blowing down Cherry Hill to St. Matthias Church, there was a large gathering, assembled to celebrate the life and times of

H. J. Scott. This occasion marked one of the few times when Harry's predictions were not correct. He always told me that his advanced age would lead to a small number of

people at his memorial service. He was wrong. Dr. Scott's long life of 93 years impacted on all generations.

Dr. H.J. Scott followed in his great grandfather's footsteps. He was a respected surgeon and anatomist at McGill University.

Harry entered McGill Medical School in 1937. He had graduated from Trinity College in Port Hope, Ontario, and also Bishop's University in Lennoxville, Quebec. At these two institutions, he was recognized as an outstanding scholar with unlimited intellectual abilities. On graduating from medical school at McGill, in 1941, he did a rotating internship at the Montreal General Hospital. Then, he enlisted in the armed forces, World War II. He served in the No. 11 Field Ambulance and as an anaesthetist with the No. 17, Canadian General Hospital.

When W.W.II finished, Harry returned to Montreal to enter the McGill Diploma Course in Surgery, training at the McGill Teaching Hospitals. As a resident, his excellent technical skills in operative surgery and his ability to meet new challenges led him to the new frontiers of surgery.

He earned his fellowship in General Surgery, in 1950. After an additional year of training in thoracic surgery at the Lahey Clinic in Boston, he returned to the M.G.H. as a new staffman. The year was 1951.

Harry accepted the advice of **Dr. James Shannon**, an orthopedist, who suggested that surgery on the heart and blood vessels would be the new future in surgery. Very quickly he was performing closed cardiac surgery.

It is hard for anyone of the modern era of surgical training programmes to fathom that Dr. H.J. Scott had no formal residency training in cardiac or vascular surgery. Because of his total dedication, unlimited work habits, special technical skills and pure courage, Harry became the Montreal General Hospital's first cardiac surgeon. In 1963, he was named Director of the new Cardiovascular and Thoracic Surgical Unit at the M.G.H.



Dr. Henry J. Scott (Harry)

Dr. Scott would not hesitate to tell you how important it was the support and help of the following three men: **Dr. H.R. Robertson**, Chairman of Surgery at McGill University, and M.G.H., **Dr. A. Dobell**, who had a formal residency training in Cardiovascular Surgery at Philadelphia, with **Dr. John Gibbons**, an original pioneer in open heart surgery, and **Roger Samson**, a gifted, self-taught pump technician.

In 1963, Dr. Scott was all alone with no formal residents in C.V.T. or other staff cardiac surgeons. He faced some of the most severe cardiac surgical problems that existed, and assisted by a Junior Assistant Resident in General Surgery, like myself, and rotating interns and, on rare occasions, a Senior Resident. There was no post-operative Intensive Care Unit, only a designated bed in the recovery room.

Under **Dr. Fraser N. Gurd's** guidance, Dr. Scott's staff grew with the appointment of three outstanding, world class members, **Dr. Peter Blundell**, **Dr. David S. Mulder**, and **Dr. Ray C.J. Chiu**. Dr. Scott's leadership was pivotal in the development of the S.I.C.U.

In 1965, Harry added to his responsibilities becoming the Director of the new S.I.C.U. The Unit had been planned by Dr.H.R. Robertson, **Audrey McKenzie Scott**, and Dr. Scott. Again, Dr. Scott's abilities and respect for all involved were keys to developing this new physical plant into what was needed. This led to many years of excellence in critical care for surgical patients at the M.G.H. All subjects ever reviewed for medical publication revealed world class outcomes. ►

Obituary

By Rea Brown, MD, FRCS

► In the late 1960's, the first integrated surgical training program, C.V.T., was established at McGill University. All of the teaching hospitals participated. Dr. Scott's support and philosophy of graded responsibility made the rotation at the M.G.H. an excellent teaching experience.

One of the happiest events of Harry's long life was his marriage to Audrey McKenzie in 1966. Audrey had been Head Nurse on 15 West and Surgery. He was a new man, happier, more relaxed, and at ease with his work. Their happiness was evident to all.

He was awarded the Montreal General Hospital Award of Merit for his many years of service. He was a Professor of Surgery at McGill. He was a member of the Central Surgical Association, Quebec Medical Association, American Association for Thoracic Surgery, and Fellow of the Royal College of Surgeons of Canada, and Fellow of the American College of Surgeons.

Dr. Scott loved competitive sports. He was a good golfer, a life time member of the Royal Montreal Golf Club. He was their official historian. He was an accomplished downhill skier having conquered the best slopes in Europe and helicopter skiing in the Canadian Rockies.

Dr. Scott was a very private man about his family. Every once-in-a-while he would proudly talk about **Susan, Christopher, John and Mary**. Dr. H.J. Scott gave his best to his family, the M.G.H., McGill University, Department of Surgery, the community at-large, and his beloved Anglican Church. He will always be remembered for his intellectual abilities and his pioneer achievements in Cardiovascular Surgery at McGill. ♦

Dear Editor,

Letters

continued from page 2

I thoroughly enjoy reading the Square Knot for keeping me up to date with developments within McGill's surgical community. Following my residency, I completed a Minimally Invasive fellowship in Charlotte, NC and joined the teaching surgical faculty at the Santa Barbara Cottage Hospital as a member of Sansum Clinic, a non-profit, multidisciplinary physician group. I proudly wear my McGill University post-graduate training as a badge of honour as I prepare our own residents for a satisfying career in General Surgery.

It was with great pleasure that we were able to welcome **Dr. Philip H. Gordon** as a visiting professor at Cottage Hospital on February 15 and 16th, 2011. Dr. Gordon attended Journal Club with members of the Cottage surgical faculty where recent articles on colorectal topics were presented by our residents. The following day, Dr. Gordon gave an excellent and provocative talk at Surgical Grand Rounds on the Management of Rectal Cancer. Challenging cases were also presented by the residents in a session moderated by Dr. Gordon. All of us were appreciative of his contributions during his short visit.



Dr. Marc Zerey with Dr. Philip H. Gordon
Best regards,

Marc Zerey, MD, FRCS, FACS
Surgeon, Sansum Clinic, Santa Barbara, CA

Achievements

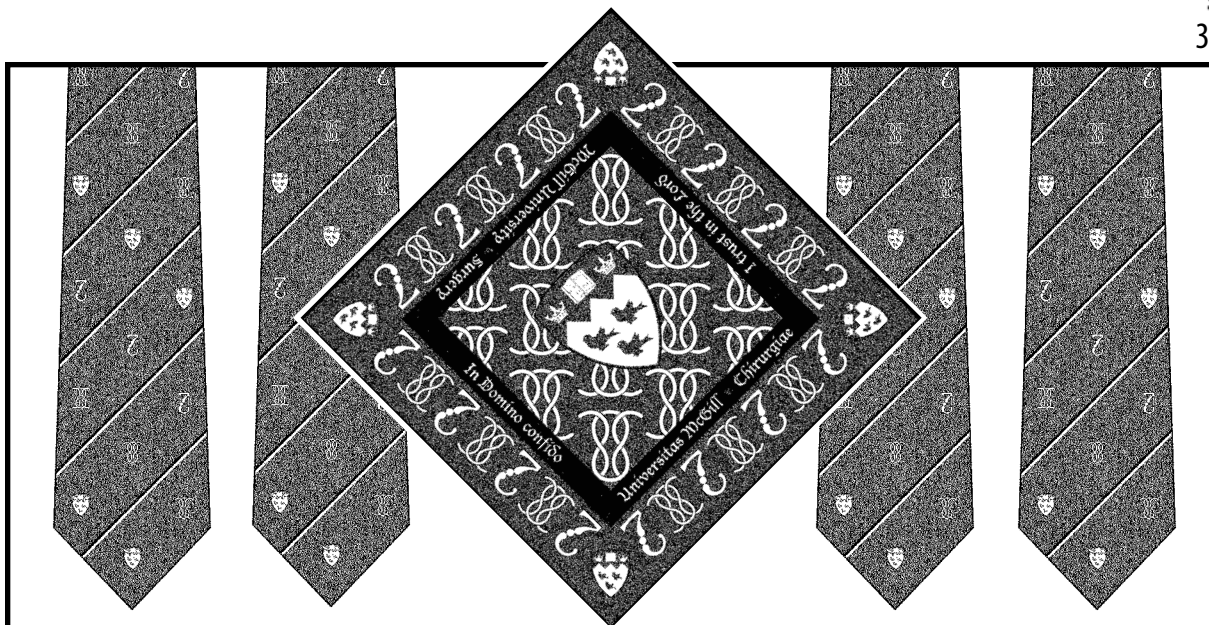
continued from page 22

- 2011 Eugene Rogala Award, 1st Prize, Basic Science Research (Poster Presentation).
- 2011 Fraser Gurd Award, 2nd Prize Overall.

The Division of Orthopaedic Surgery congratulates Dr. Lim on her outstanding achievements and wishes her continued success with her important translational research. ♦



*Dr. Letitia Lim at the 2011 Hip Society Awards Dinner with co-authors **Louis-Philippe Lefebvre** of the National Research Council (left) and Dr. Dennis Bobyn (right).*



Tie one on for McGill !

The McGill Department of Surgery invites you to tie one on for the old school!

The McGill red silk tie and scarf with CREST, SQUARE KNOT and FLEAM are available for purchase from the Alumni Office as follows:

McGill Dept. of Surgery Alumni, Montreal General Hospital
 1650 Cedar Avenue, Room L9.420, Montreal (Quebec) H3G 1A4
 Telephone: (514) 934-1934, ext. 42028 Fax: (514) 934-8418

Please send me the McGill Department of Surgery Tie or Scarf

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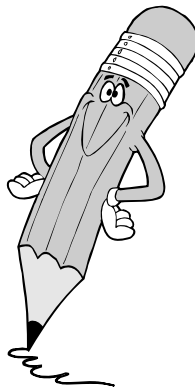
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without you !**



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