DEPARTMENT OF SURGERY, UNIVERSITY OF TORONTO

ANNUAL REPORT

JULY 1, 1998 - JUNE 30, 1999
DEPARTMENT OF SURGERY

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University of Toronto
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R.S. McLaughlin Professor and Chair - Dr. J.H. Wedge
Professor and Associate Chair - Dr. B.R. Taylor

Surgeons-in-Chief

Dr. J.H. Wedge — The Hospital for Sick Children
Dr. Z. Cohen - Mount Sinai Hospital
Dr. D. Jones - St. Joseph’s Health Centre
Dr. E. Poulin - St. Michael’s Hospital
Dr. B. Goldman - Sunnybrook and Women’s College Health Sciences Centre
Dr. J. Cameron — Sunnybrook and Women’s College Health Sciences Centre (Orthopaedic and Arthritic Campus)
Dr. L. Lickley — Sunnybrook and Women’s College Health Sciences Centre (Women’s College Campus)
Dr. I.J. Harrington - Toronto East General Hospital
Dr. B.R. Taylor - James Wallace McCutcheon Professor and Chair — University Health Network

University Division Chairs

Dr. R.D. Weisel - Cardiac Surgery
Dr. B.R. Taylor - General Surgery
Dr. C.H. Tator - Leslie Dan Professor and Chair of Neurosurgery
Dr. J. Waddell - A.J. Latner Professor and Chair of Orthopaedic Surgery
Dr. P. Neligan - Plastic Surgery
Dr. T. Todd - Thoracic Surgery
Dr. M.A.S. Jewett - Urology
Dr. K.W. Johnston - R. Fraser Elliott Chair in Vascular Surgery
Dr. L. Wilson-Pauwels - Biomedical Communications
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REPORT FROM THE CHAIR

Dr. John H. Wedge, R.S. McLaughlin Professor and Chair

Introduction

The three campus model through which our teaching hospitals are being collected over the past year continues to evolve. The resultant change has been, in large, positive, although a number of logistical problems in amalgamating our teaching hospitals continue to consume considerable time and effort. Fortunately, the transition has not adversely affected our teaching programs and the needs of our full-time faculty are gradually being accommodated. Dr. Bernard Goldman has been appointed Surgeon-in-Chief of Sunnybrook and Women’s College Health Sciences Centre and Dr. Eric Poulin at St. Michael’s Hospital. Dr. Paul Walker has resigned as the James McCutcheon Chair and Surgeon-in-Chief of the University Health Network to become Vice-President of the Toronto General Hospital. Dr. Bryce Taylor has assumed the role of Surgeon-in-Chief at the University Health Network. Dr. Zane Cohen has continued his able leadership at Mount Sinai Hospital, which remains a separate corporate entity, with significant integration into the Surgical Oncology Program through Princess Margaret Hospital.

Our Surgical Scientist Program continues to grow and strengthen and, from a financial perspective, is now almost self-sustaining through generous ongoing support from the Surgical Alumni Fund and Johnson & Johnson. The various matching programs for graduate student support at the University of Toronto has been a tremendous benefit to this program.

Research funding continues to grow in the Department and has almost doubled over the past seven years. The remarkable productivity listed in this Annual Report provides tremendous ongoing satisfaction for me as Chair of the Department.

Of particular note this year, is the completion of terms of office of a number of individuals who have provided tremendous leadership in recent years. These include Dr. Paul Walker as Surgeon-in-Chief of the University Health Network; Dr. Paul Muller, Surgeon-in-Chief at St. Michael’s Hospital; Dr. Jameel Ali as Director of Postgraduate Education; Dr. Charles Tator as the Dan Family Chair in Neurosurgery; and Dr. Bryce Taylor as Chair of the Division of General Surgery. I cannot say enough about how
hard and effectively these individuals have worked to promote the interests of this Department. They have consistently placed the interests of others before their own to make this Department clearly the premier one in Canada. We recently had the opportunity to demonstrate to a large cohort of faculty from McGill University how we have built our infrastructure and programs over the years to support excellence in teaching and research.

Our surgical education group, under the leadership of Dr. Richard Reznick, Director of the Centre for Research in Education; Dr. Bill Tucker as Chair of our Undergraduate Education Committee; and Dr. Carol Hutchison as the Director of the Surgical Skills Centre have improved their already superb programs and have been very productive in various aspects of surgical educational research, which have received substantial external recognition. The Surgical Skills Centre, based at the Mount Sinai Hospital, has become the model for many major American universities wishing to develop similar programs. Dr. Richard Reznick has been appointed President Elect of the Association for Surgical Education and their annual meeting will be held in Toronto next spring. Dr. John Bohnen has been appointed Director of Postgraduate Education to replace Dr. Jameel Ali, and because of his personal interests will undoubtedly emphasize the teaching of quality improvement in surgery to our trainees. It is clear from the foregoing that education is an important career track for academic surgeons that has been established in our Department and recognized by the Faculty of Medicine through the promotion of many of our educators.

Lastly, I would be remiss not acknowledging support from this Department from our out-going Dean, Dr. Arnold Aberman. Arnie has honed communication in a large Faculty of Medicine to a fine art. He has been a stalwart supporter of academic excellence. His leadership style, sense of humor and ability to solve difficult problems will be missed greatly by all sectors of this Faculty. We wish Arnie every success in whatever endeavor he decides to pursue following completion of his seven years as Dean.

Visitors to the Department

Dr. Terry Peters, University of Western Ontario, was a Visiting Professor to the Department of Surgery on October 9, 1998 and presented on The use of 3D imagery in surgery. Dr. Miles F. Shore, Bullard Professor of Psychiatry, Harvard University, was a Visiting Professor to the Department on February 11 and 12, 1999 when he conducted a leadership workshop and
was the Kergin Lecturer. His topic was Medical leadership and the future of health care.

Dr. Martin Gleave, Professor, Division of Urology, University of British Columbia, was the John Palmer Lecturer on March 5, 1998. His topic was Hormone therapy for advanced prostate cancer: Beyond simple castration.

Dr. Alexander W. Clowes, Professor and Chief, Division of Vascular Surgery, University of Washington School of Medicine was the Gordon Murray Lecturer and the Gallie Bateman Judge on May 14, 1999. His topic was Vascular gene therapy.

**Departmental and External Awards and Honours**

Jameel Ali (GenSurg) was presented with a plaque at the awards ceremony of the Society of Surgeons of Trinidad and Tobago in recognition of ten years of devotion to the care of the trauma patient through the establishment and continuation of the Trauma Program in the training of the physicians and paramedical personnel in trauma care in Trinidad and Tobago. Also, at the recent annual meeting of the National Association of Emergency Medical Technicians held in Winston-Salem, North Carolina, Jameel was the recipient of the Pre-hospital Trauma Life Support Leadership Award for his work on the international promulgation of Pre-hospital Trauma Training and Research. Jameel, a member of our Trauma Team at St. Michael’s Hospital is the first Canadian surgeon to receive this prestigious award. He was also the first Canadian surgeon to receive the American College of Surgeons Committee on Trauma Meritorious Service Award previously for his pioneering work on training physicians in trauma resuscitation throughout the world.

Oleh Antonyshyn (PlasSurg) was the invited speaker for the Fraser N. Gurd Lecture of the American Association for the Surgery of Trauma, and Trauma Association of Canada combined meeting in Baltimore, Maryland. The topic of the lecture was "Craniofacial trauma: Evolution of current techniques and outcomes."
Robert Bell (OrthSurg) was recently appointed a member of the Commission on Cancer of the American College of Surgeons.

Mark Bernstein (NeurSurg) has received the 1998 R. Fleming Surgical Education Award of the Division of Neurosurgery.

Earl Bogoch (OrthSurg) has been named to the Editorial Board of the Journal of Rheumatology.

Mark Cattral (GenSurg) has been selected for membership in the Society of University Surgeons.

Leo Chaikof (GenSurg) is the recipient of a W.H. Anderson Teaching Excellence Award at the Toronto General Hospital.

Michael Cusimano (NeuroSurg) was awarded the 1999 E. Bruce Tovee Teaching Award for Undergraduate Teaching.

Michael Fehlings (NeurSurg) has been named to the Senior Editorial Board of Neurosurgery. Michael was also appointed Deputy-Editor-in-Chief of Spine. Spine is the international peer-reviewed journal for clinical and basic studies related to the spine and spinal cord.

The Urology Research Lab at the Toronto Western Hospital has won the second prize for an essay it submitted to the 1999 American Urological Association/Circon-ACMI Prize Essay Contest. Drs. Magdy Hassouna (Urol) and Yungin Wang were the authors for the essay entitled "Role of the C-afferent system in the mechanism of sacral nerve root neuromodulation". The prize was awarded at the American Urological Association meeting in Dallas in May 1999.

Sender Herschorn (Urol) has been awarded the prestigious University of Toronto, Faculty of Medicine Colin R. Woolf Award for long-term contribution to continuing education. This is a faculty wide competition and this is the first time that a urology faculty member has received this award. He was also the keynote speaker at the St. Lawrence Urology Group annual meeting at Carling Lake, Quebec in February 1999. This is the annual urology resident scientific meeting for Queen’s, Ottawa and McGill Universities, State University of New York at Syracuse, and the Universities of Montreal, Laval and Sherbrooke. Sender spoke about
"Current concepts in the treatment of female stress urinary incontinence and the use of bowel in the reconstruction of the lower urinary tract".

Wayne Johnston (VascSurg) has been reappointed as Chair of the Division of Vascular Surgery for a four year term effective July 1, 1998.

Shafique Keshavjee (ThorSurg) won the 1999 George Armstrong-Peters Prize. First awarded in 1912, the Peters Prize honours younger surgeons who have sustained continuing productivity in basic science research.

Jarley Koo (GenSurg) with co-investigators Leo Mahoney (GenSurg), Lavina Lickley (GenSurg) and Rashida Haq (Med) have been chosen to carry out a tamoxifen and raloxifane (STAR P-2) breast cancer prevention study. This seven-year double-blind study will follow 22,000 postmenopausal women 35 years or older who are at increased risk for developing breast cancer.

John Marshall (GenSurg) is the recipient of the 1999 Lister Prize which is awarded to an investigator who has shown outstanding and continuing productivity of international stature as evidenced by research publications, grants held, students trained and other evidence of stature of the work produced.

Robin McLeod (GenSurg) has been made a member of the James IV Association and was also elected to the Board of Governors of the American College of Surgeons at its Clinical Congress in Orlando, Florida.

Gordon McLorie (Urol) was elected to the position of Vice-President of the Canadian Urological Association at the annual meeting in Halifax. He will become President-Elect next year and will also be the Canadian Urological Association President for the meeting held in Toronto in 2001.

Charles Peniston (CardSurg) is the recipient of a W.H. Anderson Teaching Excellence Award at the Toronto General Hospital.

Walter Peters (PlasSurg) has been invited by the Institute of Medicine in Washington, D.C. to be an international external reviewer for the U.S. Court-Ordered National Academy of Sciences report on the "Safety of Silicon Breast Implants". This is particularly significant because it is the
definitive report from the government of the United States on the ultimate safety of breast implants.

Glenn Regehr (Educ) has won the Young Educator’s Award from the Association of Medical Colleges.

Richard Reznick (GenSurg) is the 1999 recipient of the "Distinguished Contribution to Medical Education Award" sponsored by the Canadian Association of Medical Education (CAME) and the Association of Medical Media. The award was presented at the Canadian Association of Medical Education luncheon on May 3, 1999 during the Canadian Association of Medical Education/Association of Canadian Medial Colleges meetings in Winnipeg. Richard has also been appointed Vice President, Education at the University Health Network.

Ori Rotstein (GenSurg) is the recipient of the W.H. Anderson Teaching Excellence Award for Program Development at the Toronto General Hospital.

Barry Rubin (VascSurg) has been selected for membership in the Society of University Surgeons.

Robert Salter (OrthSurg) has been made an honorary member of the newly-created International Cartilage Repair Society in recognition of his outstanding contributions to the science of cartilage injury and repair.

Hugh Scully (CardSurg) has been elected as Ontario’s nominee for the position of Canadian Medical Association President-Elect. Pending Canadian Medical Association Council endorsement, Hugh will assume the office of Canadian Medical Association President at the Canadian Medical Association annual meeting in 1999.

Hugh Thomson (PlasSurg) has been awarded the Distinguished Fellow Award of the American Association of Plastic Surgeons. It is the Association’s highest honour.

Richard Weisel (CardSurg) has been elected Vice-Chair of the American Heart Association’s Council of Cardiac, Thoracic and Vascular Surgery. He will assume the position of Chair in 2001.
Resident Awards and Honours

Lily Angelov (NeurSurg resident) and Matthias Feldkamp (NeurSurg resident) tied for the winning presentation in the Thomas P. Morley Neurosurgical Resident Research Prize competition. Lily’s presentation was entitled "Inhibition of angiogenesis by blocking activation of the vascular endothelial growth factor receptor-2 leads to decreased growth of NF-1 neurogenic sarcomas". Matthias’ project was titled "Expression of activated epidermal growth factor receptors, Ras.GTP, and MAPK in human glioblastoma multiforme specimens".

Lily Angelov (NeurSurg resident) has also won the Canadian Congress of Neurological Sciences McKenzie Prize in Basic Science Research for her project on anti-angiogenic therapy with VEGFR-2 inhibitor.

Michael Borger (CardSurg resident) was awarded a Physicians Services Incorporated Foundation Resident Research Prize for his paper entitled "Decreasing incidence of stroke following valvular heart surgery". He was also awarded a research fellowship from the Heart and Stroke Foundation of Canada. Michael was also awarded the Edwards Christie Stevens Fellowship and the Graham Campbell Fellowship from the Postgraduate Medical Education office.

Robin Boushey (GenSurg resident) has won first prize at the Eastern Students Research Forum held at the University of Miami for his clinical poster presentation entitled "Glucagon-like peptide-2 prevents intestinal damage, decreases mortality and enhances epithelial regeneration in murine models of experimental enteritis". He was also one of three graduate students chosen to receive a travel award from the Institute of Medical Science (IMS) to participate and act as a representative at the annual Eastern Student Research Forum in Miami, Florida in February 1999.

Robin has also won the Society for Clinical Investigation 1998 Trainee Award. The award was presented at the Canadian Society for Clinical Investigators/Royal College meeting in September 1998. He also received an award for the best poster presentation at the Annual Assembly of General Surgeons and a Canadian Scientist Clinical Investigator Award for the best paper entitled "Potential role of GLP-2 in the treatment of indomethacin induced enteritis: A model for Crohn’s disease".
Sarah Burrow (OrthSurg resident) received the second place award at the American Academy of Pediatrics (Section in Orthopaedics) for the best paper presented by a resident. Her paper was entitled "Relationship between short stature and endocrinopathy in slipped capital femoral epiphysis". Her supervisors are James Wright and Benjamin Alman.

Steve Casha (NeurSurg resident) has received the 1999 Mayfield Award of the Joint Section on Disorders of the Spine and Peripheral Nerves of the American Association for Neurological Surgeons/Canadian Neurosurgery Society for his work entitled "Relationship of delayed oligodendroglial apoptosis to axonal degeneration after traumatic spinal cord injury".

Gideon Cohen (CardSurg resident) was awarded the Miriam Neven Scholarship from the Postgraduate Medical Education office. He was also awarded the Starr Medal for his paper entitled "Optimal pre-conditioning in a human model of ischemia and reperfusion".

Peter Ferguson (OrthSurg resident) was awarded the Canadian Society of Surgical Oncologists outstanding resident research paper award for his presentation "Intradermal injection of autologous dermal fibroblasts improves wound healing in irradiated skin" at the Society’s meeting in Montreal. At the Canadian Orthopaedic Residents’ Association meeting in Vancouver in May 1998, Peter was awarded the Pennal Award for the most outstanding research paper for the same project.

Tony Finelli (Urol resident) was awarded the 1999 Struthers Scholarship. Since his rotation at St. Michael’s Hospital, he has continued to show an interest in endourology and stone disease and has recently submitted an article on percutaneous nephrolithotomy to the Journal of Urology.

David Hackam (GenSurg resident) has been awarded the William S. Fenwick Fellowship by the Postgraduate Medical Education office.

Catherine Haywood (PlasSurg resident) has won a prize for the best Clinical Paper in the Residents’ Corner at the Canadian Society of Plastic Surgeons annual meeting for her paper "Diagnosis and management of streptococcal necrotizing fasciitis, including immune therapy: Recent experience with 20 cases".
Annual Report

Richard Hopper (PlasSurg resident) has won the best poster prize at the Canadian Society of Plastic Surgeons annual meeting.

Sevan Hopyan (OrthSurg resident) won third prize for his basic science paper presentation "Growth plate regulation and cartilage tumor proliferation: A paradigm" at the Canadian Orthopaedic Residents’ Association meeting in Vancouver.

Angelo Iocca (Urol resident) has been awarded the Resident Undergraduate Teaching Award for the Division of Urology.

John Lau (OrthSurg) was awarded first prize for best clinical paper by the Canadian Orthopaedic Residents Association for his work "The effects of tarsal tunnel release and stabilization procedures on tibial nerve tension in a surgically created pes planus foot".

Joan Lipa (PlasSurg resident) has won a prize for the best resident research paper at the Canadian Society of Plastic Surgeons meeting for her paper "ET1 induced vasoconstriction in human and pig skin flaps: Differences in endothelin receptor subtypes". Joan was also the recipient of the 1999 D.R. Wilson Award.

Robert Nam (Urol resident) and John Preiner (Urol resident) have tied for first place for the Clinical Research Prize at the annual Urology Research Day. Robert for "Cost comparison of molecular versus conventional strategies for superficial bladder cancer surveillance" and John for "Improved sperm concentration after varicocele repair in infertile men with severe oligospermia". He was also awarded the Zeneca Canadian UroOncology Group research award at the annual Canadian UroOncology Group meeting in Halifax.

Frank Papanikolaou (Urol resident) was awarded one of two student/resident prize paper awards by the Canadian Fertility and Andrology Society.

Vivek Rao (CardSurg resident) has been awarded the Chisholm Memorial Fellowship by the Postgraduate Medical Education office. He was also awarded the Paul C. Samson Resident Award at the 24th annual meeting of the Western Thoracic Surgical Association for his paper entitled "A novel comparison of stentless versus stented valves in the small aortic root". He
was also awarded the Starr Medal from the Postgraduate Medical Education office for his paper entitled "Stimulating aerobic metabolism following cardioplegic arrest". Vivek has also won the Siminovitch-Salter Award for outstanding scholarly contributions throughout his PhD program. He was also the winner of the 1999 Bernard Langer Surgical Scientist Award.

Sandro Rizoli (GenSurg resident) has won the Bayer Fellowship in Surgical Infectious Disease of the Canadian Association of General Surgeons.

Jennifer Sarjeant (GenSurg resident) has been awarded the Issei Scholarship in Medicine and Surgery.

John Tsihlias (Urol resident) has won the Basic Research Prize at the annual Urology Research Day for his work "Growth arrest of LNCaP human prostate cancer cells by high dose dihydrotestosterone: Role of cycline dependent kinase inhibitor".

\textbf{1998 Sherwood-Davis and Geck Awards}

The winners of the 1998 Sherwood-Davis and Geck Awards are:

Mohammed Al-Sayyad (OrthSurg resident) - "Results of cementless total hip arthroplasty in patients with avascular necrosis".

Robin Boushey (GenSurg resident) - "The therapeutic role of GLP-2 in the indomethacin induced enteritis: A model for Crohn’s disease".

Peter Bray (PlasSurg resident) - "Allograft microvascular transplantation of epiphyseal plates with short-term immunosuppression".

Andrew Campbell (CardSurg resident) - "Vascular endothelial growth factor gene transfer to the pulmonary circulation reduces monocrotaline-induced pulmonary hypertension".

Robert Gryfe (GenSurg resident) - "APC 11307 K hypermutability: A novel mechanism of inherited polyposis and colorectal cancer risk".

Babak Jahromi (NeurSurg resident) - "Do infectious agents play a causal role in carotid atherosclerosis?".
Richard Kaminker (OrthSurg resident) - "Results of anterior lumbar interbody fusion using the BAK implant".

Ian McGilvray (GenSurg resident) - "Monocyte transmigration induces tissue factor: Role of the MAP kinases".

1998 Kennedy Visiting Professorship Awards

The following orthopaedic awards were given out at the annual Kennedy Visiting Professor Day held November 5, 1998:

Sarah Burrow - The Hospital for Sick Children Pediatric Award for the best pediatric paper. Her paper was entitled "Quality of care: The role of the peripheral hospital in pediatric orthopaedics".

Kevin Deitel - Canadian Back Institute Award as selected by Dr. Hamilton Hall for best resident spinal paper. His paper was entitled "Non-operative treatment of thoracolumbar burst fractures".

Sevan Hopyan - Robin Sullivan Memorial Award for excellence in basic science and research. His paper presented at Orthopaedic Research Day was entitled "The growth plate indian hedgehog pathway maintains cartilage tumor proliferation".

Peter Weiler — R.B. Salter Award for Excellence in Teaching as voted by the orthopaedic residents.

Albert Yee — R.I. Harris Postgraduate Award for best graduating resident as voted by the Faculty.

Reviews, Searches and Appointments

Dr. Charles H. Tator completed his ten year term as Chair of the Division of Neurosurgery June 30, 1999. Dr. James Rutka was appointed Chair of the Division of Neurosurgery effective July 1, 1999.

Dr. Bryce Taylor completed his ten year term as Chair of the Division of General Surgery. Dr. Zane Cohen was appointed Chair of the Division of General Surgery effective July 1, 1999. Dr. Taylor was appointed Surgeon-
in-Chief of the University Health Network (Princess Margaret Hospital/Toronto General Hospital/Toronto Western Hospital).

Dr. Jameel Ali completed his ten year term as Director of Postgraduate Education, Department of Surgery, June 30, 1999. Dr. John Bohnen was appointed Director of Postgraduate Education commencing July 1, 1999.

Dr. Eric Poulin was appointed Surgeon-in-Chief of St. Michael's Hospital (Wellesley and Bond Sites).

Dr. Paul Walker was appointed Vice-President of the Toronto General Hospital.

**Promotions**

Congratulations to the following members of the Department of Surgery whose academic contributions to the Department and to the University were recognized by promotions July 1, 1998.

Dr. Fred Brenneman, Dr. Paul Marks and Dr. Charles Wright were promoted to Assistant Professor.

Dr. Terry Axelrod, Dr. Keith Jarvi, Dr. Ren-Ke Li, Dr. Alan Lossing, Dr. Mark Mittelman and Dr. Emil Schemitsch were promoted to Associate Professor.

Dr. Paul Greig, Dr. Richard Reznick, Dr. Robin Richards and Dr. Michael Schwartz were promoted to Full Professor.

**Comings and Goings**

Our Department was strengthened this year by the recruitment of the following: Dr. Labib Abouzahr (Cardiac Surgery), Sunnybrook and Women's College Health Sciences Centre; Dr. Stephanie Brister (Cardiac Surgery), Toronto General Hospital; Dr. Lori Burrows (Research), The Hospital for Sick Children; Ms. Kathryn Chorney (Biomedical Communications); Dr. Charles Cutrara (Cardiac Surgery), Sunnybrook and Women's College Health Sciences Centre; Dr. Peter Dirks (Neurosurgery), The Hospital for Sick Children; Dr. Annie Fecteau (General Surgery), The Hospital for Sick Children; Dr. Jeffrey Fialkov (Plastic Surgery),
Sunnybrook and Women’s College Health Sciences Centre; Dr. J. Theodore Gerstle (General Surgery), The Hospital for Sick Children; Ms. Jodie Jenkinson (Biomedical Communications); Dr. Yves LeClerc (Cardiac Surgery), St. Michael’s Hospital; Dr. David Szalay (Vascular Surgery), St. Joseph’s Health Centre; Dr. Herbert von Schroeder (Plastic Surgery), Toronto Western Hospital; Dr. Paul Wong (Orthopaedic Surgery), Toronto East General Hospital; Dr. Terrence Yau (Cardiac Surgery), Toronto General Hospital.

The following have left the Department during the 1998-1999 academic year: Dr. Haig Basmajian, Dr. Michael Black, Dr. Mark Mittelman, Dr. Paul Salo, and Dr. Siva Sriharan.
UNDERGRADUATE EDUCATION
Dr. William Tucker, Director

The 1998-99 academic year was an eventful and productive one for those involved in undergraduate education in the Department of Surgery. I would especially like to thank the faculty members and students who served on the Undergraduate Education Committee, whose advice and support contributed greatly to the effective operation of our undergraduate teaching program.

Richard Reznick stepped down from the Undergraduate Education Committee after many years of effective participation to assume new responsibilities as the Vice-President for Education at the University Health Network. He has been ably replaced on the Undergraduate Education Committee by Peter Kalman.

Michael Cusimano, a superb undergraduate teacher, and a major contributor to the Undergraduate Education Committee and the Education Research Committee of the Department, was the deserving recipient of the Bruce Tovee Award for Undergraduate Teaching and a W.T. Aikins Award for individual teaching performance. Joan Lipa, a plastic surgery resident, won the D.R. Wilson Award for outstanding undergraduate surgical teaching by a resident.

John Murnaghan organized a faculty development workshop for new members of the Department, which was held on April 30, 1999. John Wedge, Bryce Taylor, Ori Rotstein, Zane Cohen and Linda Dann provided an excellent orientation to the Department and its organization and important operational processes. John Murnaghan, Bill Tucker, Jameel Ali, Gail Darling and Stan Hamstra outlined the undergraduate and postgraduate educational activities of the Department and the procedures for teaching evaluation and recognition. Small group workshops on aspects of undergraduate teaching completed the program. The feedback from the participants was very positive, and further similar workshops are being planned.

The faculty in our Department were encouraged to submit more Summer Scholarship Program opportunities for undergraduate medical students, and there was an excellent response, with approximately twenty new placements offered in the Department of Surgery. The Summer Scholarship
Program allows our Department to recruit good students early in their careers, and in the past some of the best applicants for postgraduate training in surgery have had their first exposure to surgery through participation in these summer experiences.

Stan Hamstra summarized some of the major themes from his debriefings of the clinical clerks on surgery since he assumed his position. These themes reveal areas for potential improvement which the Undergraduate Education Committee members will endeavour to pass on to their colleagues at the academies. As a result of information gleaned from the debriefings and other interactions with the clinical clerks, Stan has prepared an orientation package for the clerks on surgery which will be available for the 1999-2000 academic year.

Beginning in July 1999, Helen MacRae took over the supervision of the surgery component of the fourth year medicine/surgery OSCE from Michael Cusimano, who had done the job effectively for several years.

The educational research productivity of our faculty was reflected again this year by several significant contributions to the undergraduate and postgraduate programs at the Association for Surgical Education meeting. There were in all four papers delivered, two workshops held, and a scientific exhibition presented at the Association for Surgical Education by members of our Department of Surgery and their research fellows.

To conclude on a further upbeat note, we learned that the University of Toronto students did substantially better than the national average on the surgery items on the 1998 MCCQE(1) examinations. Such gratifying performance was not seen on the items for several other disciplines at the University of Toronto. All of you who participate in undergraduate surgical education in our Department can be justly proud.
POSTGRADUATE EDUCATION

Dr. Jameel Ali, Director

This past year has seen many changes in the area of postgraduate education in the Department of Surgery at the University of Toronto.

This will mark the end of my ten year term as Director of Postgraduate Education and the new Director of Postgraduate Education in our Department effective July 1, 1999 will be Dr. John Bohnen from the Division of General Surgery at St. Michael's Hospital.

All of our CaRMS positions were filled after reviewing 292 applications and interviewing 217 applicants.

We have acquired computer technology that will allow us to reliably analyze performance of residents in our Principles of Surgery examinations and we have also acquired over 1,000 new questions for this bank. It is hoped that the new Principles of Surgery examination will be reactivated in the Fall and be conducted on an annual basis. This exam will be based on the Royal College curriculum as well as topics discussed at the Principles of Surgery seminars, which continue to be co-ordinated by Dr. Martin McKneally.

Dr. Carol Hutchison has shown great leadership in spearheading the activities of the University Centre for Surgical Skills at Mount Sinai Hospital. A large research grant has been acquired from the Physicians Services Incorporated Foundation to assess the effectiveness of this Centre in training surgical residents. The curriculum for this Centre has been expanded and is under continuous review and it is anticipated that subspecialty skills sessions will be conducted specifically for the different disciplines in surgery.

Faculty-wide symposia have been conducted through the Centre for Research in Education which is directed by Dr. Richard Reznick and this Centre continues to attract high-calibre fellows who pursue graduate degrees in education. After five years as Chair of the Education Research Committee Dr. Michael Cusimano is now stepping down and we wish to thank him for his dedication in directing this committee. The Surgical Scientist Program continues to be the highlight of our training program and most of our trainees are enrolled in the Royal College Clinical Investigators Program. Effective July 1999, there will be partial funding of this program through grants from the
Dean’s office based on awards acquired by the surgical trainees in the Surgical Scientist Program.

A Practice Management Symposium was conducted in November 1998 and this was very highly rated and co-ordinated by Dr. Marcus Burnstein. This will continue on an annual basis for the senior residents.

Career Night for undergraduate students involved a presentation by all surgical specialties for the undergraduate students explaining the career opportunities in the different disciplines in surgery. It is anticipated that this will continue for the following year on an annual basis but the format will change and include separate booths for each specialty so that the undergraduate students may visit each of the booths and have their questions answered pertaining to the different specialties.

Our performance in the Royal College certification examination for the surgical specialties for the year 1998-99 continues to be very good. Thirteen candidates in general surgery passed their written examination, eight neurosurgery trainees were successful, in plastic surgery four passed, in orthopaedic surgery six passed and in urology five passed.

In the Division of Neurosurgery, Dr. Bill Tucker stepped down as program director shortly after assuming the role of Director of Undergraduate Education in the Department. Dr. Charles Tator has undertaken this responsibility on an interim basis.

Dr. Bryce Taylor and Dr. Charles Tator have completed their terms as Heads of their Divisions and we wish to thank them for their support of the postgraduate training program.

The Bruce Tovee Postgraduate Award was given to Dr. Jameel Ali for his contribution to postgraduate education in the Department and his direction of the Advanced Trauma Life Support Program for our postgraduate trainees in the Department.

Congratulations to Dr. Mitch Brown for winning the first Surgical Skills Teaching Award for his contributions to the Surgical Skills Centre, and to Dr. Joan Lipa who received the D.R. Wilson Teaching Award for the best resident teacher.
A great deal of our time continues to be spent in preparation for the upcoming Royal College accreditation of surgical programs. Internal reviews are conducted and many of our surgical staff are participating in these internal reviews. The office of Postgraduate Surgical Education has played a very important role in maintaining the strong tradition of excellence in postgraduate training at the University of Toronto. Continued strong leadership from the new Director of Postgraduate Education, and the continued resident advocacy role of the support staff in the departmental office, as well as the strong support of the Chair of the Department of Surgery for surgical training, should ensure continued excellence in surgical training at the University of Toronto.

It has been a distinct pleasure being the Director of Postgraduate Education in the Department of Surgery at the University of Toronto and in this my last report I wish to extend sincere appreciation and thanks for the co-operation and assistance provided by all of the members of our Department and especially the previous Chair, Dr. Bernie Langer, our present Chair, Dr. John Wedge, and most importantly Dr. Bryce Taylor my predecessor.

I join the Department in welcoming Dr. John Bohnen as our new Director and I feel confident that under his directorship our Department will continue to reach even further heights of excellence.
The research effort of the Department of Surgery continues to thrive. The Surgical Scientist Program remains the gem of our departmental activities. More than thirty-five individuals were involved in the past academic year, representing all of the surgical specialties and working in the areas of fundamental biology, education, clinical epidemiology and health administration. The research work by these young individuals continues to bring local, national and international recognition to our Department, as evidenced by their excellent publications and their competitiveness for grants and awards. A few are highlighted as follows: At the Institute of Medical Science Research Day, Robin Boushey, Robert Gryfe and Michael Borger were awarded J.C. Laidlaw Prizes for excellence in research, while Robert Nam received first prize for student research in the Clinical Epidemiology and Health Care Research Program. On the national scene, Lilyana Angelov was awarded the Canadian Congress of Neurological Sciences McKenzie Basic Science Research Prize and Gideon Cohen received the 1999 Canadian Research Award for Specialty Residents of the Royal College of Physicians and Surgeons of Canada, co-sponsored by the Canadian Society of Clinical Investigators and PAIRO. Steven Casha was given the Mayfield Award of the Joint Section of Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons and Andrew Campbell won an award for his work presented at the American Thoracic Society. Dr. Vivek Rao won the Bernard Langer Surgical Scientist Award, given to the most worthy recent graduate of the Surgical Scientist Program.

The Gallie-Bateman resident research competition was again a great success. This year’s competition was judged by Dr. Alexander W. Clowes, from the Division of Vascular Surgery, University of Washington School of Medicine. His lecture highlighting advances in gene therapy in vascular disease was truly inspiring and stimulating for all in attendance. Ten excellent resident papers were presented. Drs. Andrew Campbell and Ian McGilvray were co-winners of the Gallie-Bateman resident research competition. Dr. Campbell presented his work on gene therapy for pulmonary hypertension, while Dr. McGilvray proposed novel intracellular signalling pathways in host macrophages which might impact on the virulence of malaria.
The George Armstrong-Peters Prize for best young investigator in the Department was awarded to Dr. Shaf Keshavjee for his work in lung transplantation. The Lister Prize for the best senior investigator was awarded to Dr. John Marshall, citing his research contributions in the area of inflammation in the critically ill patient.

The Research Committee continues to co-ordinate the departmental research activities. The broad representation from across the Department has made it possible to develop a strong consensus regarding our research priorities and directions. In the past year, the Committee has initiated discussions aimed at raising the profile of non-clinician scientists in the Department, has developed a scheme for tuition reimbursement for the Surgical Scientist Program participants, and aided in the fine tuning of research job descriptions for surgeons. Finally, the Committee acts as a vehicle for dissemination of information on several important issues, including issues surrounding the new provincial and federal funding initiatives, as well as the development of the Canadian Institutes of Health Research. Finally, we are indebted to Val Cabral for her skillful administration of all aspects of the departmental research activities.

In summary, this has been an excellent year for research in the Department of Surgery. Our accomplishments have been many and the profile of the research activities of the Department has increased substantially. We look forward to continued success from our present faculty and our new recruits.
DIVISION OF CARDIAC SURGERY
Dr. Richard Weisel, Chair

The Division of Cardiac Surgery at the University of Toronto is growing. The government has mandated that we increase the volume of cardiac surgery at each of the three adult teaching hospitals. As a result, new staff who are capable of academic excellence are being recruited to each of the three hospitals. Fortunately, our Surgical Scientist Program is producing qualified academic cardiac surgeons for these positions.

Dr. Terrence Yau joined the Division of Cardiac Surgery at the Toronto General Hospital and was awarded a grant from the Heart and Stroke Foundation in his first application. Other outstanding individuals with excellent academic qualifications are being interviewed for positions at the Sunnybrook and Women’s College Health Sciences Centre and St. Michael’s Hospital.

The Division’s academic productivity was outstanding this year, as illustrated by the awards and publications listed in the annual report. In addition, our trainees received international recognition for their academic achievements. Dr. Michael Borger received the J.C. Laidlaw Award of Excellence from the Institute of Medical Science, and won first prize at the Terrence Donnelly Cardiac Surgery Resident competition. Dr. Andrew Campbell was awarded the C. Walton Lillehei Award of the American Association of Thoracic Surgery for the best paper by a resident. He also won first prize in the Gallie-Bateman competition in the Department of Surgery. Dr. Gideon Cohen was awarded the Canadian Research Award for Specialty Residents from the Royal College of Physicians and Surgeons of Canada, co-sponsored by the Canadian Society of Clinical Investigators and PAIRO. Dr. Paul Fedak won a poster prize at the University of Toronto Cardiovascular Scientific Day, and was awarded a grant from the Physicians Services Incorporated Foundation to study the effects of internal mammary bypass grafting in patients with poor ventricular function. Dr. Stacey O’Blenes received the Wilfred Bigelow Prize at the Terrence Donnelly Cardiac Surgery resident competition. Dr. Vivek Rao received the Paul C. Samson Resident Award from the Western Thoracic Surgery Association, and was given the Bernard Langer Surgical Scientist Award from the Department of Surgery.
DIVISION OF GENERAL SURGERY
Dr. Bryce Taylor, Chair

The Division of General Surgery and its leadership were reviewed in January 1999, at the end of the ten year term of Bryce Taylor. As Robert Stone indicated in his report General surgery at the University of Toronto in January 1999 is an excellent division. It is the standard against which all Canadian divisions should be measured. Indeed, I believe this program ranks among the top ten on the continent.

The planning exercise, which occupied much of the spring of 1999, came to fruition in a document which was prepared and presented in September 1999. The document, entitled "Toward 2020", drew attention to current achievements, future directions, and a process of documentation which in future will address changing times, ongoing resource issues, and university restructuring.

Restructuring discussions were plentiful during the year, although major geographic changes will likely not take place for at least two years. The Women’s College Hospital and the Sunnybrook Health Sciences Centre, as well as St. Michael’s Hospital and The Wellesley Central Hospital continue to devise the best ways that their academic services can be rationalized ultimately on one site.

Postgraduate Training

The following residents were successful in completing the general surgery program in 1999: Nasser Al-Zahrani, Nancy Baxter, Aaron Beder, Bonnie Burke, Chris Davreux, Sophie Dessureault, Susan Hegge, Ryan Heisler, Roberta Minna, Andrew Pierre, Juan Sanabria, and Angelo Vivona. All were successful in the Royal College spring examinations in general surgery.

Those residents engaged in full-time research during the 1998-99 academic year were: Steve Borenstein, Robin Boushey, Priscilla Chiu, Rob Gryfe, Erin Kennedy, Geeta Lal, Jennifer MacMillan, Saul Mandelbaum, Ian McGilivray, George Oreopoulos, Sandro Rizoli, David Urbach and Alice Wei. These residents were awarded a number of research scholarships as well as important prizes for their innovative work.
Jameel Ali stepped down at the end of a very successful ten year term as Director of Postgraduate Education in the Department of Surgery, and that position was assumed by another capable general surgeon, John Bohnen.

The Division made important contributions to the newly-opened Surgical Skills Centre at the Mount Sinai Hospital. In particular, Lorne Rotstein’s tireless efforts added tremendously to the technical education of PGY1 and PGY2 residents from all specialties.

**Promotions and Job Descriptions**

Recognition of academic achievements has led directly to promotion. We now have in the Division, 11 full professors, 17 associate professors, 25 assistant professors, and 9 lecturers -- a remarkable achievement for a single university surgical specialty. The job descriptions, or academic roles introduced this last year, reflect the overall contributions of our 36 full-time general surgeons in the University of Toronto family. We have 7 surgeon-scientists, 5 surgeon-investigators, 10 surgeon-teachers, 8 surgeon-specialists, and a further 6 who are one of these with an additional major administrative role. This represents a reasonable balance of roles, each of which provides unique service to the University.

**Honours and Awards**

During the academic year, Bernie Langer was elected to the Vice-Presidency of the American Surgical Association, and Richard Reznick became the President of the Association for Surgical Education, in addition to receiving the distinguished Contribution to Medical Education Award from Canadian Association of Medical Education. John Marshall won the University of Toronto, Department of Surgery Lister Prize, and also was elected as Recorder for the Society of International Surgery. Paul Greig was recognized as the best lecturer in the Principles of Surgery lecture series. Jameel Ali was presented with a plaque honouring his ten year commitment to the training of trauma care-givers in Trinidad and Tobago, and was also given the Pre-hospital Trauma Life Support Leadership Award by the National Association of Emergency Medical Technicians. Robin McLeod became a member of the James IV Association, and was also elected to the Board of Governors of the American College of Surgeons. Bryce Taylor was appointed as Surgeon-in-Chief and Director of Surgical Services at the University Health Network.
Residents were very successful in their academic endeavors this year. Robin Boushey was a runner-up in the Gallie-Bateman competition, and was awarded first prize in the Eastern Students Research Forum, an Institute of Medical Science Travel Award, a Society for Clinical Investigation Trainee Award, and received his 1998 Canadian Society of Clinical Investigators Award at the Royal College meeting in September 1998. Rob Gryfe shared the 1999 Canadian Society of Clinical Investigators/Medical Research Council of Canada Award for excellence in resident research, while Ian McGilvray won the Gallie-Bateman resident research competition. Sandro Rizoli gave the best resident paper at the Baltimore Trauma Association meeting. Glen Regehr won the Young Educator’s Award from the Association of Medical Colleges. David Hackam was given the William S. Fenwick Fellowship by the Postgraduate Medical Education office of the Faculty of Medicine, and Steven Borenstein won the Chisolm Memorial Fellowship. Saul Mandelbaum presented the best poster at the Annual Assembly of General Surgeons in June 1999, and the best papers at that conference were presented by David Hackam and Robin Boushey.

Special Events

The Annual Assembly of General Surgeons took place once again in the first week in June, with Steve Gallinger and his general surgery research committee organizing an outstanding day of education and research. Dr. Tim Billiar was the Bruce Tovee Lecturer, and highlighted a conference of plenary presentations, a posters session, an educational segment, and the final State of the Union Address by Bryce Taylor.

The 39th Annual Update Course for practicing general surgeons was held at the end of April 1999 and consisted once again of a three-day session devoted to a variety of topics. The visiting professors were Ed Bradley, Peter Singer, Robert Buckman, Balfour Mount and many local faculty who made superb presentations to a very large registration.
DIVISION OF NEUROSURGERY
Dr. Charles Tator, Leslie Dan Professor and Chair

Resident Achievements

All four resident candidates passed the Royal College examinations and received their FRCSC degree: Drs. Miriam Kim, Kamal Thapar, Philip Porter and Eric Marmor. They completed this Division’s tenth consecutive year record of 100% success at the Royal College examinations. Congratulations to all residents and faculty!

Kamal Thapar received a PhD degree from the Department of Cellular and Molecular Pathology (supervisor Dr. Kalman Kovacs) and Sagun Tuli received an MSc degree from the Department of Public Health and Epidemiology at Harvard University (co-supervisor Dr. James Drake).

Lily Angelov received first prize in the 1999 Morley Awards of our Division, the K.G. McKenzie Prize for Basic Science Research from the Canadian Neurosurgical Society, and was a finalist at the Gallie-Bateman resident research competition. Steve Casha won the Mayfield Award of the Joint Section of Disorders of the Spine and Peripheral Nerves of the American Association of Neurological Surgeons/Canadian Neurological Surgeons, first prize at the research presentations at the University of Toronto Trauma Day and second prize in the 1998 Morley Awards. Matt Feldkamp was a finalist in the Gallie-Bateman resident research competition, and won first prize in the 1999 Morley Awards. Wai Ng won first prize in the 1998 Morley Awards. Sagun Tuli received the Surgical Research Award at The Hospital for Sick Children. Kamal Thapar won the van Wagenen Fellowship of the American Association of Neurological Surgeons.

Several residents received externally funded fellowships and awards during the year: Lily Angelov — National Cancer Institute of Canada fellowship; Steve Casha — Ontario Neurotrauma fellowship; Matt Feldkamp - Medical Research Council of Canada (1999) fellowship and National Cancer Institute of Canada (1998) fellowship; Howard Ginsberg - Medical Research Council of Canada fellowship and Restracom (The Hospital for Sick Children) fellowship; Babak Jahromi — Physicians Services Incorporated Foundation operating grant; Ab Kulkarni - Duncan Gordon Fellowship (The Hospital for Sick Children) and McMaster University
entrance scholarship; Wai Ng - Institute of Medical Science scholarship; Sheilah Singh — Physicians Services Incorporated Foundation operating grant; and Michael Taylor - National Cancer Institute of Canada fellowship. Also, several residents were successful during the year in applying for funds for the 1999-2000 year: Warren Ho - OGSST fellowship, Savoy Foundation fellowship, Neuroscience Foundation fellowship and Joint Heart and Stroke/Medical Research Council of Canada fellowship; Babak Jahromi - American Association of Neurological Surgeons fellowship and Medical Research Council of Canada fellowship; Todd Mainprize - Restracom fellowship (The Hospital for Sick Children); Nicholas Phan - Ontario Neurotrauma fellowship; and Eve Tsai - fellowships from the Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons/Canadian Neurological Surgeons and the Ontario Neurotrauma Foundation.

Congratulations to Lily Angelov, the first neurosurgical resident to give birth (a boy), and to Michael Taylor on the birth of his daughter, and to Tek Soo on the birth of twins (boy and girl).

**Faculty Achievements**

Mark Bernstein continued as Chair of the Joint Section on Tumors of the American Association of Neurological Surgeons/Canadian Neurological Surgeons, and received the Fleming Teaching Award of the University Health Network. Michael Cusimano won two undergraduate teaching awards — a W.T. Aikins Award and the E. B. Tovee Undergraduate Teaching Award. Michael Fehlings was appointed the first Robert O. Lawson Chair in Neural Repair and Regeneration of the University Health Network/University of Toronto and Deputy-Editor-in-Chief of Spine and Editorial Board member of Neurosurgery. Andres Lozano was appointed the first Ronald R. Tasker Chair in Functional Neurosurgery of the University Health Network/University of Toronto. James Rutka became the first Harold Hoffman/Shoppers Drug Mart Chair in Pediatric Neurosurgery at The Hospital for Sick Children/University of Toronto, was appointed Secretary/Treasurer of the Joint Section on Tumors of the American Association of Neurological Surgeons/Canadian Neurological Surgeons, and the Inaugural Director of the Arthur and Sonia Labatt Brain Tumor Research Centre of The Hospital for Sick Children/University Health Network/University of Toronto. Bill Tucker received the Award of Merit of the Kidney Transplant Program at St. Michael's Hospital. The Charles
Tator Annual Lecture was established by the Canadian Association of Surgical Chairs and the Canadian Association of University Surgeons. Kamal Thapar and Charles Tator won the Hudson Neurosurgical Teaching Awards for the resident and faculty, respectively.

**Faculty Research Funding**

Our faculty members have continued their excellent record of funding from both external and internal sources. The following had operating grants during the year from several sources: Michael Cusimano - Ontario Neurotrauma Foundation; Karen Davis — Medical Research Council of Canada, National Institutes of Health, and Whitehall Foundation; Peter Dirks — Connaught Foundation, Dean’s Fund, and Medical Research Council of Canada; James Drake — Medical Research Council of Canada, Johnson and Johnson, and The Hospital for Sick Children Foundation; James Eubanks - Alzheimer Society, and Medical Research Council of Canada; Michael Fehlings — Medical Research Council of Canada, Ontario Neurotrauma Foundation, Physicians Services Incorporated Foundation, American Paralysis Association, and Spinal Cord Research Foundation; Ab Guha — Heart and Stroke Foundation, Medical Research Council of Canada, National Cancer Institute of Canada, Physicians Services Incorporated Foundation, Lunenfeld Foundation, National Neurofibromatosis Foundation, Cummings Foundation, and American Association of Neurological Surgeons; David Houlden - Ontario Neurotrauma Foundation, and Sunnybrook Trust; William Hutchison — Connaught Foundation, and Parkinson Foundation; Andres Lozano - Medical Research Council of Canada, and Radionics; Raj Midha - Connaught Foundation, Dean’s Fund, Physicians Services Incorporated Foundation, and Medical Research Council of Canada; Rick Moulton - Ontario Neurotrauma; James Rutka — two Medical Research Council of Canada grants, National Brain Tumor Foundation, National Cancer Institute of Canada, Physicians Services Incorporated Foundation, and The Hospital for Sick Children; Michael Schwartz — Medical Research Council of Canada; Charles Tator - Lunenfeld Foundation, and Canadian Paraplegic Association; Michael Tymianski - Heart and Stroke Foundation; Chris Wallace — Medical Research Council of Canada, and two Heart and Stroke Foundation grants.
Faculty Personal Support Awards

An excellent measure of productivity of faculty members is their ability to attract funding for their personal salary support as research scientists. Congratulations to the following for their awards: Peter Dirks - Surgical Alumni Scholar (University of Toronto); Michael Fehlings - Career Scientist Award (Ministry of Health); and to Ab Guha, Andres Lozano and Michael Tymianski for the continuation of their Medical Research Council of Canada Clinician Scientist Awards. James Rutka was given a Career Scientist Award of the Medical Research Council of Canada -- a five-year award reserved for the country's top scientists.

New Programs

Our Division added three new academic Chairs this year which in itself is an outstanding achievement and signifies excellent acknowledgment of the academic quality of our faculty members. The University Health Network established the Ron Tasker Chair in Functional Neurosurgery to commemorate Dr. Tasker's internationally recognized contributions to research and teaching in this field. Andres Lozano is the first holder of this Chair; the proceeds of which will be used to advance the academic productivity of this field at the University Health Network. The University of Toronto Robert O. Lawson Chair in Neural Recovery and Regeneration was established by the University Health Network to advance the field of spinal and brain research in recovery and regeneration. Michael Fehlings is the first holder of this Chair. The Hospital for Sick Children has established the Harold Hoffman/ Shoppers Drug Mart Chair in Pediatric Neurosurgery. This Chair is a tribute to Dr. Hoffman's career as an internationally recognized contributor to clinical research and teaching in the neurosurgery of children. James Rutka was appointed as the first incumbent. Each of the three Chairs represents endowments of $2M in accordance with University of Toronto policy. With the Dan and Ricard Chairs, our Division now has five academic chairs to support its research and teaching activities.

Faculty Changes

Dr. Ron Tasker completed his distinguished career as a researcher, educator and clinician and retired at the end of the academic year. Dr. Siva Sriharan resigned as an Associate at the Toronto Western Hospital and moved his practice to Windsor.
Academic Events

The Division hosted the 75th Anniversary of Neurosurgery in Canada to commemorate the beginning of practice at the Toronto General Hospital in 1923 of Dr. Ken McKenzie, Canada's first career neurosurgeon. The celebration included many academic and social events, which were attended by several hundred neurosurgeons and neuronurses and other neurosciences specialists. There was an outstanding scientific program, which included ten internationally renowned guest lecturers who delivered talks in several theme sessions. Drs. Jules Hardy and Ron Tasker were designated the Anniversary Medalists, and they presented their achievement addresses. There was a very enjoyable social program at which alumni shared their memories with friends at events at the Art Gallery of Ontario and the Royal Ontario Museum.

The Hendrick Visiting Professor was Dr. Hal Rekate from the Barrow Neurological Institute and the University of Arizona, and the Keith Visiting Professor was Dr. Ed Oldfield from the National Institutes of Health at Bethesda. These events provided an excellent learning opportunity for faculty and residents.

Chris Wallace hosted two Lougheed Microneurosurgical Courses which continued to attract residents from across the country and were very successful. Michael Fehlings organized the Spinal Surgery Course at the Canadian Congress of Neurological Surgeons as he has done annually for several years, and Andres Lozano once again hosted a Functional Neurosurgery Course in Toronto, which had a large international attendance.
DIVISION OF ORTHOPAEDIC SURGERY
Dr. James Waddell, A.J. Latner Professor and Chair

The past year has seen the final recommendations of the Hospital Restructuring Commission have their significant effect on the restructuring of orthopaedic care within the University community. St. Michael’s Hospital and the Wellesley Central Hospital have been amalgamated into a single entity, which currently operates on two sites. It is anticipated that with the infrastructure change underway at the Bond Street site there will be full integration of both services on that site within 12-18 months. The amalgamation of the Orthopaedic and Arthritic Hospital with Sunnybrook and Women’s College Hospital is in a similar state. The Orthopaedic and Arthritic Hospital campus on Wellesley Street now operates as part of the Sunnybrook and Women’s College Health Sciences Centre. Plans for the establishment of an Orthopaedic and Arthritic Institute at the Bayview Avenue site are well established.

With the development of the University Health Network, the Toronto Western Hospital has regained its former identity and planning has begun to recruit new individuals to the orthopaedic division at that hospital.

A new Chair has been established within the Division of Orthopaedic Surgery. This is the Rubinoff/Gross Chair in Orthopaedic Oncology which will be situated at the Mount Sinai Hospital.

The following new appointments were made by the Division of Orthopaedic Surgery in the past year: Dr. Herb von Schroeder has been appointed to the Hand Program at the Toronto Western Hospital and has begun his clinical and research practice. Dr. Paul Wong was appointed to the staff of the Toronto East General Hospital to replace Tom Barrington who has retired from clinical practice.

The Division had a number of outstanding visitors in the past year, most particularly Dr. Jesse Jupiter as the Kennedy Visiting Professor and Dr. Gary Dunnington as our Visiting Research Professor. Both individuals participated fully in their academic duties and challenged students, residents and faculty with innovative and controversial topics.

Several members of the faculty and several residents were recognized for their excellence. Dr. James Wright was appointed as the first Robert B.
Salter Professor in Surgical Research at The Hospital for Sick Children. Dr. Ben Alman received the Robert B. Salter Award from the Canadian Orthopaedic Foundation. Dr. Robert Salter received two outstanding awards - the Medal of Honour from Vanderbilt University and The Hospital for Sick Children Humanitarian Award. Dr. Emil Schemitsch was one of two Canadians awarded the prestigious ABC Travelling Fellowship in Orthopaedic Surgery. Dr. John Lau was recognized for the best resident presentation at the Canadian Orthopaedic Residents Association meeting. Dr. Albert Yee received the R.I. Harris Postgraduate Award for the best performance from a graduating resident over the term of the residency. Dr. Sevan Hopyan received the Robin Sullivan Memorial Award for excellence in basic science research as determined by the visiting research professor. Dr. Peter Weiler was presented with the Robert B. Salter Award for excellence in teaching by the faculty as voted by the orthopaedic residents. Dr. Robin Richards was appointed Deputy Editor for upper extremity surgery for the American edition of the Journal of Bone and Joint Surgery - only the second Canadian to be so recognized by that journal.

Dr. Carol Hutchison received the Ontario Confederation of University Faculty Association’s teaching award – the only orthopaedic surgeon to ever be recognized by such an award.

Several faculty members were successful in achieving promotion in the past year. Drs. Charles Wright and Paul Marks were promoted from Lecturer to Assistant Professor; Drs. Emil Schemitsch and Terry Axelrod were promoted from Assistant Professor to Associate Professor and Dr. Robin Richards was promoted from Associate Professor to Full Professor.

Dr. Gordon Hunter has retired from active practice at the Sunnybrook and Women’s College Health Sciences Centre, but continues to be active in the Division of Orthopaedic Surgery. Dr. Barry Malcolm has moved from the Toronto Western Hospital to the Orthopaedic and Arthritic campus of the Sunnybrook and Women’s College Health Sciences Centre to continue his interest in the area of disability assessment.

Grant capture by members of the Division exceeded all previous years in 1998 with an excellent balance between peer reviewed competitive grants and industry funding.
The full endowment of the Latner Chair in Orthopaedic Surgery was achieved in the past year. This outstanding accomplishment has resulted in the first fully endowed Chair in Orthopaedic Surgery in Canada. This came about not only through the generosity of Mr. Albert Latner, but also through the efforts and enthusiasm of University of Toronto President Robert Pritchard, Dean of Medicine Arnie Aberman, Professors Bernard Langer and John Wedge and especially Professor Allan Gross.
DIVISION OF PLASTIC SURGERY  
_Dr. Peter Neligan, Chair_

**Research**

Research within the Division had another successful year, both at the resident and faculty level. Dr. Peter Bray returned to the clinical stream in July 1998, having completed two years in the Surgical Scientist Program. He successfully completed his MSc defense in the Fall. Dr. Zvi Margaliot is due to complete his MSc thesis at the end of June and will return to the clinical program in July.

The residents won several awards during the year. Dr. Marc Dupere won the prize for the best clinical paper at the annual Visiting Professor's presentations, while Dr. Zvi Margaliot won the prize for the best research paper. Dr. Joan Lipa won the D.R. Wilson Award for the best resident teacher within the Department of Surgery and this award was presented on Gallie Day. Dr. Melinda Musgrave won the Sopman Humanitarian Award presented at a reception at the home of Michael and Judy Sopman.

The faculty also won several awards. Dr. Joel Fish won the PAIRO Teaching Award. Dr. Ralph Manktelow won the Arnis Freiberg Teaching Award, while Dr. Christopher Forrest won the W.K. Lindsay Research Supervisor Award. Dr. Mitchell Brown was the first recipient of the newly created University of Toronto Surgical Skills Centre Distinguished Education Award presented at the Gallie Day dinner.

**Visiting Professor**

The 1999 Hoyle Campbell Visiting Professor was Dr. Scott Spear from Georgetown University in Washington, D.C.

**Training Program**

Two residents graduated from the program in June 1999. Both were successful in their Royal College examinations. They were Drs. Leila Kasrai and Rob Backstein.
Special Awards

Dr. Jim Mahoney was elected President of the Canadian Society of Plastic Surgeons. Dr. Christopher Forrest was elected parliamentarian of the Plastic Surgery Research Council and Dr. Peter Neligan was elected representative of the Plastic Surgery Research Council to the American College of Surgeons.

New Appointments

Dr. Herb von Schroeder was appointed jointly to the Division of Plastic Surgery and Orthopaedic Surgery, with a clinical appointment to the Hand Program at the Toronto Western Hospital. Dr. Robert Cartotto was appointed to the Ross Tilley Burn Centre at the Sunnybrook and Women’s College Health Sciences Centre. Dr. Jeff Fialkov was appointed to the Division of Plastic Surgery at the Sunnybrook and Women’s College Health Sciences Centre. Dr. Peter Neligan has become the first holder of the newly created Wharton Chair in Reconstructive Plastic Surgery.

Resignations

Dr. Hugh Thomson resigned from The Hospital for Sick Children. Dr. Thomson has long been a staunch member of the Division of Plastic Surgery at the University of Toronto. He is fondly remembered by many trainees who have come under his guidance and mentorship over the years and wish him well.
DIVISION OF THORACIC SURGERY

Dr. Thomas Todd, Chair

Clinical

This year witnessed the merger of the Toronto General Hospital and Mount Sinai Hospital divisions. This has strengthened our residency program and concentrated our clinical activity to the Toronto General Hospital (inpatient surgery) and Princess Margaret Hospital (oncological ambulatory care).

The transplant program expanded this last year with the initiation of heart-lung transplantation. Two such transplants have now been successfully performed. The program experienced its largest clinical load having undertaken 39 procedures from July 1998 until June 1999.

We have begun to formulate a new clinical program in end stage lung disease. Conceptually, this will be a multidisciplinary program encompassing several specialties and will complement the transplant program. The new program will effect constructive links with the existing programs in emphysema surgery and pulmonary hypertension, as well as permitting expansion in this tertiary care area.

Teaching

The thoracic surgery residency program underwent a Royal College of Physicians and Surgeons of Canada mandated external review in March. As thoracic surgery is a new primary program, formal Royal College approval necessitated the review. We received full approval with no major weaknesses identified.

Dr. Gail Darling has completed her second year as the Chair of ASCM.

The annual postgraduate refresher course was again a success attracting registrants from the United States and abroad. We enjoyed the visitation of three invited professors: Dr. Robert Finley from the University of British Columbia; Dr. David Sugarbaker from Harvard Medical School; and Dr. Alec Patterson from Washington University.
Research

We continue to support two basic science laboratories (Dr. Shafique Keshavjee — transplantation; Dr. Michael Johnston — oncology) that continue productivity with publications in high impact journals.

We have established membership in the new American College of Surgeons trials group and Dr. Gail Darling will be the principle investigator for one of the first trials. Dr. Timothy Winton is the Chair of the National Cancer Institute of Canada trial of post-operative chemotherapy in resected lung cancer. Dr. Thomas Todd continues to recruit patients into the lung volume reduction surgery trial, which should finish this year. If so, it will be the first randomized trial in this controversial area. St. Joseph’s Health Centre joined the trial this past year.

Retirement and Recruitment

Dr. F. Griffith Pearson formally retired from clinical activity this June. The thoracic ward at the Toronto General Hospital was named after him in honour of his long and outstanding career as an academic surgeon and teacher. A portrait and plaque were erected on 7 Eaton South.

Dr. Tom Waddell was recruited to the Division and will join the Toronto General Hospital staff in January 2000 after completing yet further research training in Great Britain. He will bring his expertise in intercellular signalling to the transplant group.

Honours and Awards

Dr. Timothy Winton was elected Chair of the medical staff at the Princess Margaret Hospital; Dr. Thomas Todd was elected to the American Surgical Association; Dr. Tom Waddell received a McLaughlin Travelling Fellowship for his research time in Great Britain.
DIVISION OF UROLOGY  
Dr. Michael Jewett, Chair

Faculty Appointments, Promotions, Honours and Changes

This past year, the Division faculty consisted of twenty-one geographic full time surgeons, three senior surgeons and one PhD scientist. Collectively, the faculty were visiting professors in all provinces and most states and eight other countries during the year. Leadership was provided in international clinical trials and various urological organizations. Dr. Grant Farrow has completed thirty-three years of clinical practice at the Toronto General Hospital and will join the senior faculty in July.

Dr. Darius Bagli continues to hold a U.S. March of Dimes Basil O’Connor Award for Role of HA-receptor in pediatric bladder disease and is the preceptor of an AFUD Eli Lilly research fellow, G. Capolicchio, for his project Stretch induced activation of local bladder renin-angiotensin system induces fibrosis via RHAMM.

Dr. Lori Burrows was recruited as the Director of the Centre for Infection and Biomaterials Research from the University of Guelph.

Dr. Neil Fleshner was co-investigator on two National Cancer Institute of Canada awards including a case-control study of PSA screening in preventing deaths from prostate cancer and the role of serum IGF-1 levels and AR receptor genotype in prostate cancer diagnosis.

Dr. Magdy Hassouna’s research fellows won several prestigious prizes with work that he supervised. Dr. Shaker won the Northeastern Section of the American Urological Association research award. Dr. Yungin Wang won second prize in the 1999 American Urological Association essay contest for Role of the C-afferent system in the mechanism of sacral nerve root neuromodulation. He continued his funding for neuromodulation from the Veterans of America.

Dr. Sender Herschorn, Deputy Chair of the Division, was awarded the Faculty of Medicine Colin R. Woolf Award for long term commitment to continuing education. This is the first time that a urology faculty member has won this faculty-wide award.
Dr. Michael Jewett continued as Chair of the Division and Head at the University Health Network as The Toronto Hospital is now known.

Dr. Laurie Klotz has been active in clinical trial development and was appointed Chair of the Canadian UroOncology Group (CUOG), the National Cancer Institute of Canada Clinical Trials Group GU Site Committee and the Global GU Group. He also continues as Editor-in-Chief of the Canadian Journal of Urology and was awarded best clinical poster at the annual meeting of the European Urological Association for Phase 3 study of cavernous nerve stimulation during radical prostatectomy with tumescence monitoring.

Dr. Ron Kodama received the A.W. Bruce Undergraduate Teaching Award for the Division of Urology for the fifth year in a row.

Dr. Gordon McLorie is President-Elect of the Canadian Urological Association and was appointed to the Executive of the American Academy of Pediatrics, Section of Urology.

Dr. Paul Merguerian was awarded a Canadian Urological Association Scholarship and a Physicians Services Incorporated Foundation grant to study laser welding and fibrin glue in reconstructive surgery.

Dr. Robert Stewart continued his funding from the Kidney Foundation of Canada for vascular biology studies of VEGF. He will be moving to St. Michael’s Hospital in July 1999 where he will continue with his vascular biology research.

Dr. John Trachtenberg continues as Director of the Prostate Centre which is now newly housed in an expanded facility in the Princess Margaret Hospital and is active in the development of public and patient prostate cancer interactive electronic and print media and in clinical trials, particularly in salvage thermotherapy of localized prostate cancer. He is now President-Elect of the Canadian Academy of Urological Surgeons.

Dr. Keith Jarvi has continued funding from the National Institutes of Health to study the role of cystic fibrosis in male infertility and bacterial infections in clinical prostatitis (non-bacterial). In addition, he has funding from the Canadian Cystic Fibrosis Foundation to study the interaction of CF gene mutations and x or y sperm.
Academic Events and Divisional Awards

Our Charles J. Robson Visiting Professor this year was Dr. Peter Scardino, Head, Department of Urology, Memorial-Sloan Kettering Cancer Center, New York.

Research Day 99 was held in conjunction with the Robson Visiting Professorship. The awards for best presentations were: First Prize Basic Research - Dr. Robert Nam; First Prize Clinical Research - Dr. Owen Prowse; Honourable Mention (Clinical Research) - Dr. Tony Finelli.

The annual graduation ceremony (TURP 1999 for Toronto Urology Party) took place at Hart House in June. The faculty was introduced to the new PGY1’s and the graduates. The achievements of faculty and residents were also recognized as well as acknowledgment of retirees and new faculty members. Our guest was Professor Emeritus, Dr. John Leyerle who addressed the significance of medieval rose windows.

Dr. Michael Robinette was awarded the Postgraduate Faculty Teaching Award by the senior residents. Drs. Munir Jamal and Tony Finelli were awarded the Resident Undergraduate Teaching Award as the best resident teacher.

Dr. Tony Finelli, was also awarded the second annual Struthers Scholarship for studies in stone disease.

Dr. Kenneth Pace was awarded the A.W. Harrison Teaching Award for teaching clinical clerks at the Sunnybrook and Women’s College Health Sciences Centre during the first half of the 1998 academic year.

Postgraduate Education

Dr. Ron Kodama continued as Program Director with Dr. Leslie Carr organizing Urology School. Graduates of the program in 1999 were Drs. Owen Prowse, Jonathan Giddens, and Kenneth Pace. All last year’s graduates were awarded their fellowships. This year the urology Royal College fellowship exam was held in May. Drs. Giddens and Pace received their fellowships.
We will welcome four new PGY1’s in July: Dr. Ethan Grober, McMaster University; Dr. Tara Moskalyk, University of Ottawa; Dr. Peter Vlaovic, University of Toronto and Dr. Fadi Joudi from the American University in Beirut.

There were a total of eighteen residents in the Program. In addition, there were eleven fellows in clinical and research positions. The Hospital for Sick Children, Division of Urology, Fellowship Program has been accredited by the American Academy of Pediatrics as one of six in North America and the only one in Canada.

The 5th Urology Fair for resident selection, which is a national event, was held on January 9th, in Toronto with all programs sending interview teams and all the Canadian 4th year students interested in urology attending. A short list of twenty-one applicants were interviewed by the University of Toronto, Division of Urology for three positions.

Drs. Eddie Matsumoto, Helen Lee, and Tony Finelli will join the Surgical Scientist Program to study for their Master’s in education under the supervision of Dr. Stan Hamstra, in vascular biology under Drs. Phil Marsden and Rob Stewart, and in microbiology and biomaterials under Dr. Lori Burrows respectively. Dr. Sharon Sharir finished her Master of Public Health at Columbia University on a National Cancer Institute postdoctoral fellowship in cancer epidemiology and Dr. Rob Nam was awarded his MSc in clinical epidemiology under Dr. Steven Narod. Both will join the regular rotation as PGY4’s.

Dr. Owen Prowse has created an innovative, interactive CD ROM in uro-radiology that was recognized for presentation at both the annual meetings of the Canadian and American Urological Associations.

Dr. Robert Nam, resident in the Surgical Scientist Program received the following awards: (1) Clinical Epidemiology and Health Care Research Program Student Research Day 1999 Prize for his project entitled, Serum human glandular kallikrein-2 (hK2) protease levels predict the presence of prostate cancer among men with elevated prostate specific antigen, (2) The F.M. Hill Research Award at the Sunnybrook and Women’s College Health Sciences Centre for his paper entitled Significance of the CAG repeat polymorphism of the androgen receptor gene in prostate cancer progression, (3) First prize in the clinical category in the Canadian
Urological Association prize essay contest for his submission The V89L polymorphism of the type-2, 5-alpha reductase enzyme gene (SRD5A2) predicts prostate cancer development and progression, (4) the Physicians Services Incorporated Foundation resident research grant for his project entitled Serum IGF-1 levels and prostate cancer risk, and (5) the Canadian Uro-Oncology Group Zeneca Award.

Dr. G. Capolicchio, Fellow, The Hospital for Sick Children, was awarded an Association for Fertility and Uro Dynamics one year MD scholarship for the project Stretch induced activation of a local renin-angiotensin system (RAS) promotes bladder fibrosis through the receptor for hyaluronic acid (RGAMM).

Dr. Pramod Reddy, Fellow, The Hospital for Sick Children, was awarded the Restracom grant from the Research Institute at The Hospital for Sick Children and a grant-on-aid from the Northeastern Section of the American Urological Association (Association of Fertility and Uro Dynamics Award), and second prize in the 1999 The Hospital for Sick Children Surgical Services Clinical Research Contest.

Dr. Robert Lai, Fellow, Toronto Western Hospital, won the Fernando Valentine Scholarship from the New York Academy of Medicine and an Ontario Neurotrauma Grant for the project entitled Use of intravesical vanilloid receptor antagonists or sacral nerve root electrical neuromodulation in the treatment of the neurogenic bladder following spinal cord injury.

Many presentations were made by residents at national and international meetings.

**Continuing Medical Education**

The Urology Update was held in November under the able direction of Dr. Sender Herschorn, Director of Urological Continuing Medical Education and co-direction of Dr. Laurie Klotz. Once again it proved extremely successful. The next Update is scheduled for November 5-6, 1999.
The Conference in Prostate Cancer (ICPC) was held again at Whistler under the direction of Dr. John Trachtenberg and is planned again for 2000.

Dr. Ron Kodama was appointed Chair of the Canadian Urological Association Maintenance of Competence Committee.
DIVISION OF VASCULAR SURGERY  
Dr. K. Wayne Johnston,  
R. Fraser Elliott Chair in Vascular Surgery

Honours

Dr. Rubin is the Wylie Scholar in Academic Vascular Surgery. Drs. Wooster and Szalay, received the J.L. Provan Education Award from the Canadian Society of Vascular Surgery. Dr. Lindsay received the IMPRA/Bard Award from the Canadian Society of Vascular Surgery. Dr. Johnston continues as Editor-in-Chief of the Journal of Vascular Surgery and the R. Fraser Elliott Chair in Vascular Surgery. He was the Sir Edwin Tooth Visiting Professor to the University of Queensland.

Research

Dr. Rubin continues his study of the role of phospholipase A2 in human neutrophils with grant support from the Canadian Heart and Stroke Foundation. Dr. Kucey, with Dr. Tu, is funded by a grant from the Canadian Heart and Stroke Foundation, to evaluate carotid endarterectomy in the community. Dr. Lindsay received a new grant from the Physicians Services Incorporated Foundation to continue his studies of the mechanism of remote organ injury following repair of ruptured aortic aneurysms. Dr. Kalman is a co-investigator on a grant from the Medical Research Council of Canada with Dr. Wright, to study the role of MRA for evaluating peripheral arterial occlusive disease. With Dr. Irvine and others, and ongoing grant support from the Canadian Heart and Stroke Foundation, Dr. Kalman is determining the efficacy of interventions in smoke cessation. Dr. Maggisano continues his Canadian Heart and Stroke Foundation grant with a collaborative group to compare the accuracy of alternative imaging modalities for diagnosing carotid stenosis. Dr. Johnston has a five year Medical Research Council of Canada grant and a Canadian Heart and Stroke Foundation grant to support his basic research programs with Professors Richard Cobbold and Matadial Ojha (Biomedical Engineering) in Doppler ultrasound and hemodynamics studies.

Education

Dr. Lossing’s core lectures in vascular surgery continue to be very highly evaluated. Dr. Kalman organized the Third Toronto Vascular Surgery
Symposium. He is Chair of the Royal College Examination Committee in Vascular Surgery. Dr. Wooster chairs a group that is developing the next version of the Vascular Self-Evaluation Program (a continuing medical education program for vascular surgeons) and developed guidelines for a self assessment program for the maintenance of certification initiative for the Royal College. He also chairs the Vascular Surgery Residency Committee and is Director of Medical Education at St. Joseph’s Health Centre.

Administration

Dr. Walker has assumed the position of Vice-President of the Toronto General Hospital. Dr. Ameli continues in his role as the Chair of Continuing Medical Education for the Department of Surgery. Dr. Wooster is the secretary of the Canadian Society of Vascular Surgery. Dr. Kalman is President of the Canadian Society of Vascular Surgery. Dr. Lindsay is President-elect of the Peripheral Vascular Surgery Society. Dr. Wooster was appointed to the Vascular Advisory Committee of the American College of Surgeons. Dr. Johnston is Chair of the Clinician Scientist Committee at the Medical Research Council of Canada. Dr. Tanner is Chair of the Specialists Coalition of the Cardiovascular Tariff Committee for the Ontario Medical Association.
DIVISION OF BIOMEDICAL COMMUNICATIONS

Dr. Linda Wilson-Pauwels, Chair

This year, the Division of Biomedical Communications program was re-accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The external reviewers found strong administrative support for the program as evidenced by the high regard in which both faculty and students are held by the Department of Surgery, the School of Graduate Studies, and the Institute of Medical Science. Other strengths of the program were found in the comprehensive basic science courses, the physical facility and its location to teaching hospitals and the Grant’s Museum. The evaluators commented on the well-planned courses, the availability of technology, and the academic qualifications and enthusiasm of students entering the program.

The Program Director was praised for her energetic leadership and vision in elevating the Division of Biomedical Communications to graduate status: Her leadership style creates a sense of community that is reflected in the interaction between students, faculty and, indeed, the program’s interaction with the whole University. The reviewers commented on the congenial atmosphere which allows the students to freely and informally approach any faculty member within the program or the University for advice and guidance. The evaluators found that the program was in compliance with the essentials required for a graduate program in medical illustration, and the Biomedical Communications program was awarded a five year re-accreditation.

A greater number of students applied to the MScBMC program for the 1999-2000 academic year, and their qualifications were found to be higher than in previous years. Six out of the eight selected students will receive an Entrance University of Toronto Open from the Institute of Medical Science worth $5,100 for achieving a cumulative grade point average (GPA) of A- or above in their undergraduate degrees.

Biomedical Communications faculty focused on refining and expanding the MScBMC program this year. A proposal to offer a combined program with Sheridan College’s Postgraduate Computer Animation Program is underway. Students will be given the opportunity to use advanced hardware and software, as well as work with additional faculty who have expertise in 3-D animation. This unique partnership will enhance the professional skills of
the MScBMC graduates and will give the Biomedical Communications program international recognition. It is anticipated that increasing partnerships with industry for studentships, infrastructure, and faculty support will flourish with the success of the combined program. Our goal for next year will be the implementation of this exciting initiative.
The continued generous support of our alumni and staff has allowed the University of Toronto Surgical Alumni Association to reach a milestone in 1998. Total cumulative donations including matching funds have passed the one million dollar mark. This includes the Surgical Scientist Program Fellowship Endowment which has reached $350,000 and the John Provan Education Fellowship Endowment which now stands at $117,000. In addition, a total of $193,000 in pledges over the next four years have been received so far, most of which are eligible for matching either by the Province of Ontario or the University of Toronto.

The major beneficiaries of the alumni funds have been the residents in our Surgical Scientist Program. A total of 58 awards have been made since our modest beginnings in 1984. In 1998-99, thirteen trainees have received support from the alumni fund. They are Steve Borenstein, Robin Boushey, Andrew Campbell, Steve Casha, Rebecca Gladdy, Sevan Hopyan, Laz Klein, Geeta Lal, Jennifer MacMillan, Zvi Margaliot, Robert Nam, Stacey O Blenes, and Eugene Wai. In addition, Dr. Peter Dirks in the Division of Neurosurgery at The Hospital for Sick Children, became the second recipient of the Surgical Alumni Scholarship for new faculty members this year.

The Surgical Alumni Newsletter continues to be published twice yearly and goes out to over 1,800 of our former trainees. We see many of them at the annual University of Toronto alumni reception which has now become a Canadian Departments of Surgery reception at the American College of Surgeons Clinical Congress. This reception is now supported by the Royal College of Physicians and Surgeons of Canada and has become an annual meeting place for Canadian surgeons and their friends from around the world.
SURGICAL ONCOLOGY
Dr. Robert Bell, Acting Chair
Departmental Surgical Oncology Committee

The Surgical Oncology Fellowship Program in General Surgery entered its second year with considerable enthusiasm and success. Drs. Carol Swallow, Sherif Hanna, Lorne Rotstein and David McCready are to be congratulated for providing mentorship and training to the fellowship candidates as well as providing a collaborative framework for development of the curriculum. Dr. Swallow continues in her role as Program Director and continues to develop the curriculum, which extends to other surgical oncology fellowships and to the radiation oncology fellowship and residency programs.

In the past year, the activities of the Provincial Advisory Committee for Surgical Oncology have become more intensive, as have organizational efforts at the regional level. Dr. Denny DePetrillo is the Chair of the Provincial Advisory Committee for Surgical Oncology and reports on provincial surgical oncology activities to Dr. Shumak, Director of Cancer Care Ontario. The Provincial Advisory Committee for Surgical Oncology is responsible for developing referral and surgical care networks within the province, as well as generally improving surgical oncology care throughout the province. To-date, a web site has been developed for information sharing with both a professional and public audience, as well as providing a roster of surgical oncologists practicing in cancer centres across the province. One of the first projects accomplished by the Provincial Advisory Committee for Surgical Oncology was to advise Cancer Care Ontario on the findings of the Institute for Clinical Evaluative Sciences study testing the relationship between patient volumes and early mortality in the surgical management of pancreas cancer. This study identified considerable variation in patient outcome that seemed to be at least partly related to volumes of patients treated at the institution. The Provincial Advisory Committee for Surgical Oncology initiated a subcommittee to review these results and recommend action. As a result of this process, Chiefs of Surgery and hospital Chief Executive officers across the province are being advised of both the overall findings of the study, and how their hospital ranked with respect to other hospitals. As well, the hospitals will be advised what services should be available in the hospitals that undertake hepatobiliary surgery. The results of the Pancreas Task Force Report and the subsequent recommendations for implementation were released through the Regional
Councils of Cancer Care Ontario, each of which has a head of surgical oncology. Dr. David McCready fills this role for our central east region. Together with the heads of surgical oncology for the two academic cancer centres and the Chief of Surgical Oncology at Credit Valley and Durham Cancer Centres (due to open in 2002), Dr. McCready has the responsibility for developing surgical oncology services within the Toronto region. This task will extend to implementation of cancer treatment and referral networks at the local level, as well as developing provider education to both surgeons and their referring physicians. Dr. McCready is planning the first of many CCOR courses for the Fall of 1999.

Finally, surgical oncology took a major step forward at this University in January 1999. With the firm support of Drs. Alan Hudson, Paul Walker and Michael Baker, 22 surgical oncologists moved into Princess Margaret Hospital to carry on practice in a multi-disciplinary cancer care centre. This is a significant change for surgical practice in Toronto and the surgeons who undertook this move are to be commended for their vision in attempting to provide consultation and care in a patient centered environment. The inevitable difficulties associated with a move of this magnitude are still being worked out. However, the move of surgical oncology to the Cancer Centre offers tremendous promise for our patient care, research and education programs.
CONTINUING MEDICAL EDUCATION
Dr. Michael Ameli, Chair C.M.E. Committee

Continuing medical education continues to be a very active part of the academic activities of the Department of Surgery. Twenty courses were sponsored or co-sponsored by the Department of Surgery. Surgical courses were offered in orthopaedic surgery, plastic surgery, neurosurgery, vascular surgery, critical care symposium, medico-legal course for surgeons, cardiac disease, general surgery, thoracic surgery, and trauma. There was also a specific Scientific Research Day in Cardiovascular Disease which was sponsored.

With the decision of the Royal College of Physicians and Surgeons of Canada to implement mandatory continuing medical education in the early part of the next millennium, there is going to be an increase in the need for continuing medical education activities, not only of the lecture type, but also ones that are far more interactive and particularly those involving new technical skills. The ability to collect continuing medical education credits will be essential and the ability to offer remedial training for surgeons will also be increasingly required.

The Continuing Medical Education office in the Faculty of Medicine continues to be supportive and proactive. Sandra Leith, Jane Tipping and Dr. Dave Davis continue to be helpful and stimulating with the objective of improving the calibre of the continuing medical education activities offered by the Department of Surgery, and also to improve the learning opportunities for surgeons.
THE HOSPITAL FOR SICK CHILDREN

Surgeon-in-Chief - Dr. J.H. Wedge

HEADS OF DIVISION

Dr. W.G. Williams - Cardiac Surgery
Dr. R. Humphreys - General Surgery (Acting)
Dr. R. Humphreys - Neurosurgery
Dr. W. Cole - Orthopaedic Surgery
Dr. R.M. Zuker - Plastic Surgery
Dr. A. Khoury - Urology

The Department of Surgery has been the beneficiary of four endowed Chairs realized through The Hospital for Sick Children Campaign which has emphasized funding for research under the banner Help Make Sick Kids Better. These are the Robert B. Salter Chair in Pediatric Surgical Research, the Robert Filler Chair in Pediatric Surgery, the Shoppers Drug Mart-Hoffman Chair in Neurosurgery and the Newcourt Chair in Congenital Cardiac Surgery. Dr. Jack Langer has been appointed Head of the Division of Pediatric General Surgery and will be the inaugural holder of the Filler Chair. Dr. James Wright has been appointed to the Robert B. Salter Chair in Pediatric Surgical Research and Dr. James Rutka to the Shoppers Drug Mart-Hoffman Chair in Neurosurgery. Dr. Rutka's tenure in the Hoffman Chair will be brief because he has been appointed Chair of the University Division of Neurosurgery, effective July 1, 1999 and will, therefore, occupy the University of Toronto Dan Family Chair in Neurosurgery. A search will commence in the near future for a new occupant for the Shoppers Drug Mart-Hoffman Chair in Neurosurgery. Also the search for the Newcourt Chair in Congenital Cardiac Surgery will commence shortly. I predict that these endowed Chairs will result in a legacy of innovation, creation of new knowledge and international recognition for our surgical programs.

Productivity in research continues to escalate with the Department now holding over two million dollars of external peer reviewed funding. The Division of Orthopaedic Surgery deserves special mention for its successful research programs with the grant capture and publications by Drs. Cole,
Wright and Alman being truly spectacular. The support of The Hospital for Sick Children Research Institute by the Hospital Foundation deserves acknowledgment as we bring in a new era of close co-operation and collaboration between basic scientists and clinical scientists. The Arthur and Sonia Labatt Brain Tumor Research Centre, under the direction of Dr. James Rutka, is leading internationally in the development of novel approaches in looking at the most common and most lethal of solid organ tumors in children. The acquisition, through a highly competitive process of the Children’s Heart Surgeons Society database by our Division of Cardiac Surgery will place us at the forefront of pediatric cardiac surgery. This rich source of information from the world’s top pediatric cardiac surgical centres will generate many studies that require a critical mass layer than is available in any one unit.

Our post-residency subspecialty fellowship programs are arguably the most highly developed in the world. We continue to attract the best and brightest from Canadian, American and international centres who will further our goal of dissemination of new knowledge worldwide. I continually marvel at the contribution of these individuals through their infusion of new ideas and better approaches to clinical problems from which we and our patients are the beneficiary.

Of particular note this year are the retirements of Dr. Mercer Rang of the Division of Orthopaedic Surgery and Dr. Hugh Thomson of the Division of Plastic Surgery. Both these individuals are international leaders in their areas of clinical expertise. Dr. Rang was honoured by a meeting in Toronto of the Salter Society, which consists of numerous former fellows of the Division from around the world. Dr. Rang gave an inspiring address as the Robert B. Salter annual lecturer in the Division. Dr. Thomson, who is an international authority on cleft lip and palate, has received numerous awards and recognition for his long-term contribution to the field.

Recent appointments, some of whom will not be in place until the new academic year include: Dr. Jack Langer as Head of the Division of General Surgery, Dr. Chris Forrest, who has moved from the Sunnybrook and Women’s College Health Sciences Centre to be the Director of the Craniofacial Program at The Hospital for Sick Children, and Dr. David Grant from the University of Western Ontario, who will be Director of GI Transplantation within a pediatric multi-organ transplant program at the Hospital. Dr. Langer was a former fellow in pediatric surgery at The
Hospital for Sick Children and has been on the faculty at McMaster University and Washington University School of Medicine in St. Louis, prior to returning to our Hospital. Dr. Andrew Howard, also a former Hospital for Sick Children fellow, will join the Division of Orthopaedic Surgery from the University of Ottawa and the Children’s Hospital of Eastern Ontario to replace Dr. Rang.

From the preceding, it is obvious that I take great pride in the accomplishments of all of our surgical divisions. These have been validated by external reviewers, visiting professors and external agencies. Major children research hospitals in the United States see us as a development site for future leaders in international pediatric surgery and related specialties.

DIVISION OF CARDIAC SURGERY

Dr. J.G. Coles - Associate Professor
Dr. G.S. Van Arsdell - Assistant Professor
Dr. W.G. Williams — Professor (Division Head)
Dr. C. Wittnich - Associate Professor (Research)

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Williams WG: Contemporary Cardiothoracic Surgery, Washington University School of Medicine, St. Louis, Missouri, October 1998. Long-term outcomes in patients following repair of tetralogy of Fallot.


Williams WG: American Association of Thoracic Surgeons, New Orleans, Louisiana, April 1999. Discussion: Five to fifteen year follow-up of fresh autologous pericardial valved conduits by Schlichter AJ.
RESEARCH AND INVESTIGATIONS


DIVISION OF GENERAL SURGERY

Dr. S.H. Ein - Associate Professor
Dr. A. Fecteau - Assistant Professor
Dr. R.M. Filler - Professor
Dr. T. Gerstle - Assistant Professor
Dr. P.C.W. Kim - Assistant Professor

PUBLICATIONS


**Obatake M, Kushida M, Clarke I, Kim PCW:** In vivo requirements for natural killer (NK) and B cells in concordant cardiac xenograft rejection. *Transplantation* 1999 April: 67(7): pp S258.


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Kim PCW:** Group for Transplantation, Medical Research Council of Canada, Toronto, Ontario, April 1999. Mechanisms of xenograft rejection.
DIVISION OF NEUROSURGERY

Dr. P.B. Dirks - Assistant Professor
Dr. J.M. Drake - Associate Professor
Dr. R.P. Humphreys — Professor (Division Head)
Dr. J.T. Rutka - Associate Professor

PUBLICATIONS


**INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES**

**Dirks PB:** International Symposium on Spina Bifida, Verona, Italy, May 1999. Chiari II malformations: A ten year experience at The Hospital for Sick Children.

**Humphreys RP:** Postgraduate Course, European Society for Pediatric Neurosurgery, Aalborg, Denmark, May 1999. (1) Posterior fossa cysts, (2) Solve a case, (3) Neurosurgical quiz, (4) Moderator: Trauma.

**Humphreys RP:** American Association of Neurological Surgeons, New Orleans, Louisiana, April 1999. Pediatric brain tumors.

**Humphreys RP:** European Society for Pediatric Neurosurgery, Marseille, France, November 1998. (1) Moderator: Vascular diseases, (2) Pediatric AVMs: Issues in the 90 s.


Rutka JT: Candlelighters International Conference, Montreal, Quebec, July 1998. Recent advances in the management of the child with a brain tumor.

RESEARCH AND INVESTIGATIONS


Diagnosis and treatment of CSF shunt obstruction with doppler ultrasound. Drake JM, Cobbold RSC: Johnson and Johnson ($30,000 1997 - 1999).


Regulation of the cell cycle in developing astrocytes in vivo. *Dirks PB*: Dean’s Fund ($10,000 1999 - 2001).


**HONOURS RECEIVED**

*Dirks PB*: Surgical Alumni Scholar in Surgical Science, Department of Surgery, University of Toronto, July 1998.

DIVISION OF ORTHOPAEDIC SURGERY

Dr. B.A. Alman - Assistant Professor
Dr. W.G. Cole — Professor (Division Head)
Dr. D.M. Hedden - Associate Professor
   Dr. M.C. Rang - Professor
   Dr. R.B. Salter - Professor
   Dr. J.H. Wedge - Professor
Dr. J.G. Wright - Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Alman BA: Melbourne Children’s Hospital, Melbourne, Australia, March 1999. (1) Back pain in children, (2) What does normal plasia teach us about neoplasia?

Alman BA: Yale University School of Medicine, New Haven, Connecticut, December 1998. What does normal plasia teach us about neoplasia?


Cole WG: Shriners Hospital/McGill University, Montreal, Quebec, October 1998. Orthopaedic management of osteogenesis imperfecta.


Rang MC: University of West Indies, Mona, Jamaica, February 1999. Twenty-four hour resident teaching course on all aspects of pediatric orthopaedics.


Wedge JH: Royal College Lecturer, Association d’Orthopedie du Quebec/Royal College of Physicians and Surgeons of Canada, Mont Tremblant, Quebec, October 1998. (1) Legg-Calve-Perthes: Poor prognostic factors and general guidelines of treatment, (2) Hip fusion in adolescents: In the long run, is it a good procedure?


Wright JG: Visiting Professor, Brown University, Providence, Rhode Island, September 1998. Outcomes research: What have we learned and what’s next?


Wright JG: Visiting Professor, Washington University School of Medicine, St. Louis, Missouri, January 1999. Outcomes research: What have we learned and what’s next?

Wright JG: Visiting Professor, St. Boniface General Hospital/ University of Winnipeg, Winnipeg, Manitoba, March 1999. (1) Outcomes research: What have we learned and what’s next?, (2) Designing clinical research.

Wright JG: Ste-Justine Pediatric Orthopaedic Review Course, Montreal, Quebec, April 1999. (1) Femoral fractures from newborn to adolescents, (2) Supracondylar fractures with nerve and vessel injury, (3) Management of recurrent clubfeet.

RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


Molecular pathology of Ehlers-Danlos syndrome and chondrodysplasias. 
*Cole WG:* Medical Research Council of Canada ($760,331 1996 - 1999).

Molecular pathology of fibrosis: Aggressive fibromatosis as a model system.  

Randomized trial comparing two spinal implant systems for idiopathic scoliosis. 

The Canadian Arthritis Network.  
*Cruz TF, Wright JG:* Network Centres of Excellence ($3,800,000 1998 - 2002).

The molecular pathology of aggressive fibromatosis: Clues into adenomatous polyposis coli (APC) gene function.  
*Alman BA:* Connaught Foundation ($15,000 1997 - 1999).

The relative responsiveness of three functional disability scales in patients with musculoskeletal disorders.  
*Wright JG, Pencharz J:* Easter Seals Research Institute ($3,000 1998).

Treating fibrosis by blocking cyclooxygenase-two.  
*Alman BA:* Canadian Orthopaedic Foundation ($15,000 1998 - 1999).

**HONOURS RECEIVED**


*Wright JG:* Career Scientist Award, Medical Research Council of Canada, July 1998.

*Wright JG:* Robert B. Salter Chair in Pediatric Surgical Research, The Hospital for Sick Children Foundation, April 1999.
DIVISION OF PLASTIC SURGERY

Dr. H.M. Clarke - Associate Professor
Dr. C.R. Forrest - Associate Professor
Dr. W.K. Lindsay - Professor
Dr. J.H. Phillips - Assistant Professor
Dr. R.M. Zuker — Professor (Division Head)

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Clarke HM: Canadian Society of Plastic Surgeons, Montreal, Quebec, June 1999. (1) Tisseel (fibrin sealant) and nerve repair, (2) Video: Endoscopic sural nerve harvest.


Forrest CR: Washington University School of Medicine, St. Louis, Missouri, June 1999. Pre-conditioning of skeletal muscle: Current concepts.


Zuker RM: American Academy of Pediatrics, San Francisco, California, October 1998. (1) Course: Complex reconstruction of the pediatric hand, (2) Birthmarks: Where do we stand?


Zuker RM: Elias Sourasky Medical Centre, Tel-Aviv, Israel, November 1998. Options for building a smile in facial paralysis.


Zuker RM: Visiting Professor, Indiana University Medical Center, Indianapolis, Indiana, May 1999. Pediatric microvascular surgery.

RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


HONOURS RECEIVED

Forrest CR: W.K. Lindsay Research Supervisor Award, Division of Plastic Surgery, Department of Surgery, University of Toronto, March 1999.
DIVISION OF UROLOGY

Dr. D.J. Bagli - Assistant Professor
Dr. A.E. Khoury - Associate Professor (Division Head)
Dr. G.A. McLorie - Associate Professor
Dr. P.A. Merguerian - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Khoury AE: Department of Urology, Boston Children’s Hospital, Boston, Massachusetts, June 1999. (1) Surgical options to achieve continence in reconstructed bladders, (2) Results of single stage reconstruction for bladder extrophy and epispadias, (3) Biomaterial related infections: New insights into catheter related UTI’s and their prevention.


Khoury AE: Dalhousie University, Halifax, Nova Scotia, November 1998. (1) Bladder augmentation: What have we learned so far?, (2) Insights into catheter-related infections, (3) Moderator: Academic sessions.

Khoury AE: Laval University, Quebec City, Quebec, October 1998. (1) What’s new in pediatric urology?, (2) Bladder augmentation and reconstruction: Technical pointers and potential complication.


McLorie GA: Mainz University School of Medicine, Mainz, Germany, February 1999. (1) Meningomyelocele and neurogenic bladder, (2) Posterior urethral valves: Initial treatment and management.

Merguerian PA: European Society for Pediatric Urology, Istanbul, Turkey, April 1999. Moderator: Obstructive uropathy.


RESEARCH AND INVESTIGATIONS


Novel biodegradable polyurethane/tissue hybrid dressings for use in chronic wound, burn and urological applications. Woodhouse KA, Merguerian PA: Materials and Manufacturing Ontario ($120,000 1999 - 2000).


The Department of Surgery at Mount Sinai Hospital is proud to have the newly developed Surgical Skills Centre on the premises. The Surgical Skills Centre, under the direction of Carol Hutchison, has been an enormous success. Funding has come from industry and private donations, as well as peer reviewed grants for research in postgraduate education. Over 100 of our Department of Surgery members have participated in teaching within the Surgical Skills Centre during this past academic year. Evaluations of each session and of the surgical staff teaching are made each session by the residents involved. The initial analysis has shown great enthusiasm for the concept of the Surgical Skills Centre, as well as excellence in teaching by our Department of Surgery staff. Other departments such as Obstetrics and Gynaecology, Otolaryngology and Ophthalmology have embraced this concept and are participating in resident teaching within the Surgical Skills Centre. In addition, postgraduate courses and continuing medical education events have been booked, and interest in the Surgical Skills Centre has increased during the academic year, and is predicted to increase even further during the next academic year. Particular thanks go to Wendy Leadbetter and Sherrie Bilan for their commitment to this enterprise and to their expertise in directing the daily functions. We are indebted to Dr. Arnold Aberman, Dean of the Faculty of Medicine, for arranging interim financing in order to establish the Surgical Skills Centre.

Within the Division of General Surgery, the major programs continue to be inflammatory bowel disease, GI oncology, breast cancer and head and neck surgery. The Division was restructured this year into two teams. One has a focus on colorectal surgery and the other on GI oncology. A surgical oncology fellow is now assigned to the GI oncology team at all times and two colorectal fellows alternate between the Mount Sinai Hospital Division
and a second division encompassing the Toronto General Hospital, St. Michael’s Hospital, Women’s College Hospital and St. Joseph’s Health Centre.

There are several active research programs. Steve Gallinger heads up a collaborative group of clinicians and scientists involved in research in familial gastrointestinal cancer. This group has been successful in securing a number of grants, including a National Cancer Institute of Canada grant, looking at pancreatic cancer, of which Steve Gallinger is the principal investigator. There is continuation of funding from the National Institutes of Health grant for the colon cancer registry looking prospectively at all colorectal cancer cases in Ontario. Robin McLeod continues to head a Canadian colorectal trials group. Both Robin McLeod and Zane Cohen are involved in a multi-disciplinary inflammatory bowel disease genetics program. This work is funded by the Crohn’s and Colitis Foundation of Canada. Robin McLeod is also the principal investigator of a grant from the Crohn’s and Colitis Foundation of Canada studying patient preferences for maintenance therapy in Crohn’s disease. Drs. McLeod and Cohen were awarded another grant from the International Organization of Inflammatory Bowel Disease studying long-term changes in pouch mucosa. Helen MacRae collaborates with the surgical education group and received a grant from the Physicians Services Incorporated Foundation to study surgical skills of family medicine residents.

Carol Swallow continues to head the Surgical Oncology Training Program and, as of July 1, 1999, Zane Cohen was named Chair of the Division of General Surgery in the Department of Surgery at the University of Toronto.

Honours received by the Division include the Northwest Colon and Rectal Surgeons Society Award for the best paper presented at the annual meeting of the American Society of Colon and Rectal Surgeons. This was awarded to Robin McLeod and collaborators for the results of a randomized controlled trial of the management of chronic anal fissure. Other Toronto collaborators included Marcus Burnstein, Claude Burul and Richard Reznick. Carol Swallow was the Society for Surgery of the Alimentary Tract representative to the World Congress of Gastroenterology in Vienna in September 1998. She is also the recipient of a faculty research fellowship from the American College of Surgeons. Current needs within the Division are for a breast/endocrine surgeon and a hepatobiliary surgeon to complement the work of Steve Gallinger and to interact with the
combined Mount Sinai Hospital/Toronto General Hospital Hepatobiliary Program.

The Orthopaedic Division is divided into an orthopaedic oncology service and a reconstructive orthopaedic service. Within oncology, Bob Bell was made a member of the Commission on Cancer of the American College of Surgeons, was the Collins Visiting Professor at the University of Ottawa, and the Musculoskeletal Visiting Professor at the Mayo Clinic. Jay Wunder received a one year grant from the National Cancer Institute of Canada for his project on investigation of the biological importance of molecular alterations in sarcoma. He was also the Southern Illinois University Visiting Professor for orthopaedics.

Within the reconstructive service, Erin Boynton received a prestigious scholarship from the Arthritis Society of Canada to study the role of the macrophase in total joint replacement failure. Allan Gross was the invited plenary lecturer at the 21st World Congress of the International Society of Orthopaedic Surgery and Traumatology in Sydney, Australia. His research funding includes a grant from the Arthritis Society and from the Knee Society of the American Academy of Orthopaedic Surgeons. This past academic year there was the establishment of the Rubinoff/Gross Chair in Orthopaedic Oncology at the Mount Sinai Hospital in recognition of Allan Gross achievements. In addition, there was the establishment of the Bernie Ghert Family Foundation Chair in Reconstructive Orthopaedics to be held initially by Allan Gross. Carol Hutchison is the D.H. Gales Director of the University of Toronto Surgical Skills Centre at the Mount Sinai Hospital and won an Ontario Confederation of University Faculty Association teaching award. Her research grants include support from the Association for Surgical Education to study the role of cognition in a technical skills course designed for junior surgical residents. In addition, she is a collaborator on a Physicians Services Incorporated Foundation grant evaluating the effectiveness of a two year curriculum in a surgical skills centre: The future of surgical training.

The Division of Urology has a significant national and international reputation in the area of male factor infertility. Keith Jarvi was invited as a visiting professor to present at the Mexican Society for Reproduction in Mexico City and at the University of Ottawa. He was invited to present to the National Institutes of Health and participate in the International Prostatitis Collaborative Network in Bethesda, discussing prostatitis and
male infertility. Armand Zini was invited as a visiting professor to present various aspects of male infertility at the 17th Congress of the Venezuela Urology Association in Caracas, as well as the 7th Congress of the Morocco Urology Association. He was also invited to the Canadian Fertility and Andrology Society and the Society for the Study of Male Reproduction in Dallas, Texas to discuss sperm abnormalities. Martin Buckspan was invited as a visiting professor to participate in the University of Ottawa, Division of Urology Resident Research Day.

Manuscripts from the Division have concentrated on clinical and experimental aspects of male infertility. Funding of divisional research activities have been through the National Institutes of Health and the Canadian Cystic Fibrosis Foundation.

DIVISION OF GENERAL SURGERY

Dr. Z. Cohen - Professor
Dr. J. Couture - Assistant Professor
Dr. S. Gallinger - Associate Professor
Dr. M.R. Goldberg - Associate Professor
Dr. I.H. Koven - Associate Professor
Dr. H.M. MacRae - Assistant Professor
Dr. R.S. McLeod - Professor (Division Head)
Dr. I.B. Rosen - Professor
Dr. S. Sidlofsky - Assistant Professor
Dr. C.J. Swallow - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Cohen Z: University of Catania, Catania, Italy, April 1999. Controversies in laparoscopy for colorectal malignant disease.


MacRae HM: Canadian Association of Surgical Chairs/Canadian Society of University Surgeons, Winnipeg, Manitoba, May 1999. Continuing professional development: An educational perspective.

MacRae HM: European Surgical Institute, Norderstedt, Germany, November 1998. Laparoscopic surgery for Crohn’s disease.

MacRae HM: Royal College of Physicians and Surgeons of Canada, Toronto, Ontario, September 1998. (1) Teaching thoracic surgery to undergraduate students, (2) Surgical management: Which operation?


McLeod RS: European Cancer Centre, Amsterdam, The Netherlands, February 1999. (1) Biliarypancreatic malignancy: From gene to cure, (2) Quality of life and nutritional status, (3) Gastrointestinal hormone profile following pancreaticoduodenectomy.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics

A cross-sectional evaluation of patients with kock and pelvic pouches to assess the small bowel mucosa of the pouch and determine the risk of mucosal proliferative changes and dysplasia. McLeod RS, Cohen Z, Redston M: International Organization for Inflammatory Bowel Disease ($10,000 1998 - 1999).


Neurotensin receptor expression in colorectal and duodenal neoplasms in FAP. Gallinger S: Sanofi Pharmaceuticals ($50,000 1998 - 1999).


Pre-clinical studies of cyclooxygenase-2 (COX-2) inhibitors in mouse models of intestinal neoplasia. Gallinger S: Merck Frosst Canada Incorporated/Medical Research Council of Canada/PMAC ($120,000 1997 - 1999).


HONOURS RECEIVED

McLeod RS: Northwest Colorectal Surgical Society Award, American Society of Colon and Rectal Surgeons, May 1999.

DIVISION OF NEUROSURGERY

Dr. I.B. Schacter - Assistant Professor

DIVISION OF ORTHOPAEDIC SURGERY

Dr. R.S. Bell - Professor  
Dr. E.L. Boynton - Assistant Professor  
Dr. A.E. Gross — Professor *(Division Head)*  
Dr. C.R. Hutchison - Assistant Professor  
Dr. F. Langer — Associate Professor  
Dr. E.A. Silverstein - Assistant Professor  
Dr. J.S. Wunder - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


**Hutchison CR:** Association for Surgical Education, Boston, Massachusetts, April 1999. (1) Developing educational research, (2) A successful surgical skills program: Let’s get started!


**Wunder JS:** International Advanced Meeting on the Howmedica Modular Resection System, Luxemburg, September 1998. (1) Functional outcomes comparing the cemented rotating-hinge MRS versus the uncemented fixed-hinge Kotz, (2) Measurement of periprosthetic bone remodelling around distal femoral tumor prostheses with Dual Energy X-ray Absortiometry (DEXA) scans.

### RESEARCH AND INVESTIGATIONS

*Senior Investigator’s Name Appears in Italics*


Fluoride and bone quality. *Limeback H, Grynpas M, Hutchison CR,*
Pritzker K, Zukor D: Medical Research Council of Canada/Association of
Canadian Medical Colleges ($140,580 1995 - 1998).

IGF in osteosarcoma. *Bell RS, Pollak MN:* National Cancer Institute of
Canada ($73,000 1997 - 2000).

Insulin like growth factor in sarcoma. *Bell RS, Pollak M:* National Cancer
Institute of Canada ($78,000 1997 - 2000).

Macrophage: Silicone interactions in vitro inflammation versus immunity.
*Boynton EL:* Dow Corning Corporation ($76,000 1998 - 2001).

MDR-1 expression and p53 mutation in osteosarcoma. *Bell RS, Andrulis I:*
National Cancer Institute of Canada ($275,000 1996 - 1999).

Predictors of outcome following revision total hip arthroplasty. *Gross AE,*
*Davis A, Agnidis Z, Kreder H, Badley L, Gollish J, Schemitsch E, Davey R,*

Severity index for failed total knee arthroplasty. *Windsor RE,* Saleh KJ,
Engh GA, Gross AE, Haas SB, Laskin RS, Sculco TP, Scuderi GR: Knee Society/American Academy of Orthopaedic Surgeons ($30,000 1998 -
1999).

The effectiveness of skills courses at the orthopaedic learning center on the
performance of orthopaedic residents. *Hutchison CR,* Kasser J, Sherr J,
McCulloch W: American Academy of Orthopaedic Surgeons ($70,000

Tissue response to polyethylene wear debris. *Boynton EL,* Smith D:
Trillium Award ($20,000 1993 - 1998).

**HONOURS RECEIVED**

**Hutchison CR:** Teaching Award, Ontario Confederation of University
Faculty Associations, May 1999.
DIVISION OF PLASTIC SURGERY

Dr. N.H. McKee — Professor

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


DIVISION OF UROLOGY

Dr. M.B. Buckspan - Associate Professor (Division Head)
Dr. K. Jarvi - Associate Professor
Dr. A. Zini - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


In recognition of his teaching abilities, the surgical residents at St. Joseph’s Health Centre presented Dr. D. Wooster with the Best Teacher Award for 1998-99.

In September 1998, Dr. D. Wooster and Dr. D. Szalay received the J.L. Provan Education Award from the Canadian Society of Vascular Surgeons. The award will be used to develop an interactive e-mail needs assessment model.

Dr. D. Szalay joined the general surgery staff on January 1, 1999 at the rank of Lecturer. He has special training in vascular surgery and is working closely with Dr. D. Wooster.

Dr. L. Smith continues as Director of Medical Education at St. Joseph’s Health Centre.

Dr. C. Burul served as organizer for the University Colorectal Journal Club during 1998-99.

As co-chair of the Organizing Committee, Dr. D. Wooster helped to plan the Carotid Duplex Symposium held by the Canadian Association of Radiologists in Quebec City in June 1999. He is Co-ordinator, Postgraduate Course 2001, for the Program Committee of the American College of Surgeons. He has been on the Editorial Board for the Annals of Vascular Surgery since 1997, and a member of the Vascular Subcommittee of the American College of Surgeons since October 1998.
As a member of the Standards Subcommittee, Dr. D. Wooster worked to develop standards for Continuing Professional Development (CPD) for the Royal College of Physicians and Surgeons of Canada. These standards will replace MOCOMP in January 2000.

During the past year, Dr. M. Yaman has visited the United Arab Emirates on two occasions. He was asked to set up a thoracic surgery unit at the Twam Hospital, Al-Aim University and currently he is purchasing equipment on their behalf.

The Thoracic Unit continues to perform lung volume reduction surgery with very good results.

In June 1999, Dr. A. Marcuzzi completed a two year term as President of the Medical Staff Association at St. Joseph’s Health Centre. At the June 14, 1999 meeting of the Medical Staff Association, Dr. D. Wooster was elected secretary and Dr. C. Compeau was elected treasurer.

Dr. R. Levine continues as Program Director of the Division of Plastic Surgery, University of Toronto.
DIVISION OF GENERAL SURGERY

Dr. M. Baida - Assistant Professor
Dr. C.J. Burul - Assistant Professor *(Division Head)*
Dr. C. Compeau - Lecturer
Dr. A. Harmantas - Assistant Professor
Dr. D.P. Jones - Associate Professor
Dr. R. Louch - Lecturer
Dr. L.C. Smith — Assistant Professor
Dr. E.H. Spratt - Associate Professor
Dr. D. Szalay - Lecturer
Dr. D. Wooster - Associate Professor
Dr. M. Yaman — Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Wooster DL: Canadian Association of Radiologists, Quebec City, Quebec, June 1999. Moderator workshop: Carotid doppler: Diagnosis II.

Wooster DL: Symposium on Peripheral Arterial Disease, Sudbury, Ontario, April 1999. (1) Workshop director, (2) Diagnosis and management of peripheral arterial disease.


HONOURS RECEIVED


DIVISION OF ORTHOPAEDIC SURGERY

Dr. M. Kliman - Lecturer *(Division Head)*
Dr. G. McDonald - Lecturer
Dr. M.W. Roscoe - Lecturer
Dr. M. Wood - Lecturer

DIVISION OF PLASTIC SURGERY

Dr. J.C. Fielding - Lecturer
Dr. R.J. Knowlton - Lecturer
Dr. R. Levine - Associate Professor *(Division Head)*

PUBLICATIONS


DIVISION OF UROLOGY

Dr. A. Marcuzzi - Lecturer (Division Head)
Dr. K. Peterson - Lecturer
Dr. J.H. Wait - Lecturer

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


ST. MICHAEL’S HOSPITAL

Surgeon-in-Chief - Dr. E. Poulin

HEADS OF DIVISIONS

Dr. L. Errett - Cardiac Surgery
Dr. M. Burnstein - General Surgery
Dr. W.S. Tucker - Neurosurgery
Dr. R.R. Richards - Orthopaedic Surgery
Dr. J. Mahoney - Plastic Surgery
Dr. R.J. Honey — Urology
Dr. F.M. Ameli — Vascular Surgery

The amalgamation of the Hospital’s two sites continued with the ongoing incorporation of the programs at The Wellesley Central Hospital into those at the Bond Street site. Vascular and neurosurgery were the first divisions to move, with the others to follow over the next twenty-four months. Over twenty building and renovation projects are currently underway at the Bond Site of St. Michael’s Hospital and these need to be completed before the transfer of the remaining Wellesley programs can be finalized.

With the preparations for a completely unified department and hospital well underway, the streamlining of various management positions became paramount. Dr. Eric Poulin was appointed as Surgeon-in-Chief of the united Department; Dr. Bill Tucker assumed the leadership of the combined Divisions of Neurosurgery; Dr. Robert Mustard was named Director of Undergraduate Surgical Education for the Academy, and the rest remained unchanged. As with the restructuring of an institution, the unique resultant atmosphere fosters the creation of new programs and ideas. This was the case with the Minimally Invasive Surgery Unit and the Division of Gastroenterology, which combined forces to form the Minimal Access Therapeutics and Diseases of the Digestive System Program, under the medical directorship of Dr. Joseph Mamazza.

The membership also amassed a number of personal appointments outside of the hospital setting. Dr. Earl Bogoch was named to the Editorial Board of the Journal of Rheumatology; Dr. John Bohnen was named the new
Director of Postgraduate Surgical Education for the Department of Surgery, University of Toronto; Dr. Tim Daniels was appointed as Canada’s representative for the International Committee of the American Orthopaedic Foot and Ankle Society; and Dr. Richard Moulton assumed the Chair of the Trauma Committee.

Our members also received their fair share of honours and awards this year. Dr. Jameel Ali picked up a total of three, including the Society of Surgeons Trauma Recognition Award, a Trauma Leadership Award from the National Association of Emergency Medical Technicians for research and teaching in pre-hospital trauma care, and the Bruce Tovee Award for Postgraduate Teaching, Department of Surgery, University of Toronto. Dr. Michael Cusimano also received a Bruce Tovee Award for Undergraduate Teaching from the Department of Surgery, University of Toronto. The Faculty of Medicine also recognized Dr. Cusimano’s academic achievements by honouring him with a W.T. Aikins Award. Dr. Bill Tucker was presented with an Award of Merit from the Kidney Transplant Program, and Dr. Wally Peters received an award for advanced education in cosmetic surgery from the American Society for Aesthetic Plastic Surgery.

The Department was involved in over 100 invited visits, published more than 50 journal articles and attracted some $44,899,622 worth of financial support for new and ongoing research endeavours. The members also conducted a number of outstanding educational programs. These included the Day in Vascular Surgery, organized by Dr. Michael Ameli and the Terrence Donnelly Cardiac Residents Research Day arranged by Dr. Lee Errett.

Some inroads were also made towards the future planning and advancement of the Department’s divisions and programs. Dr. Robin Richards successfully completed two consecutive five-year terms as Head of the Division of Orthopaedic Surgery, and an external review was held to assess the Division’s status and future direction.
DIVISION OF CARDIAC SURGERY

Dr. D. Bonneau - Associate Professor
Dr. L.E. Errett - Assistant Professor (Division Head)
Dr. D.A. Latter — Associate Professor
Dr. J.K.Y. Yao - Assistant Professor

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


**DIVISION OF GENERAL SURGERY**

Dr. J. Ali - Professor  
Dr. J.M.A. Bohnen - Associate Professor  
Dr. M. J. Burnstein - Associate Professor (*Division Head*)  
Dr. J. Koo - Associate Professor  
Dr. L.J. Mahoney - Associate Professor  
Dr. J. Mamazza - Assistant Professor  
Dr. D.I. McRitchie - Assistant Professor  
Dr. R.A. Mustard - Assistant Professor  
Dr. E.C. Poulin — Professor

**PUBLICATIONS**


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Ali J: Queen Elizabeth Hospital, Barbados, West Indies, December 1998. Pre-hospital trauma life support (PHTLS) instructor course.

Ali J: Mount Hope Medical Centre, Trinidad and Tobago, West Indies, December 1998. Pre-hospital trauma life support (PHTLS) instructor update.

Ali J: University of Hong Kong, Hong Kong, China, December 1998. (1) Advanced trauma life support provider course, (2) Advanced trauma life support instructor course.

Ali J: University of Hong Kong, Hong Kong, China, November 1998. (1) Advanced trauma life support (ATLS) instructor course, (2) Advanced trauma life support (ATLS) provider course.

Ali J: University of Hong Kong, Hong Kong, China, July 1998. (1) Advanced trauma life support instructor course, (2) Advanced trauma life support provider course.


Burnstein MJ: Humber River Regional Hospital, Toronto, Ontario, December 1998. Role of the surgeon in constipation and fecal incontinence.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


**HONOURS RECEIVED**

*Ali J*: E.B. Tovee Postgraduate Teaching Award, Department of Surgery, University of Toronto, May 1999.


DIVISION OF NEUROSURGERY

Dr. M.D. Cusimano - Associate Professor
Dr. R.J. Moulton - Associate Professor
Dr. P.J. Muller - Professor
Dr. R.G. Perrin - Associate Professor
Dr. H.S. Smyth - Assistant Professor
Dr. W.S. Tucker - Associate Professor (Division Head)

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Cusimano MD: Society of Neurological Surgeons, Colorado Springs, Colorado, May 1999. An introduction to outcome studies of residency training: How should the Society of Neurological Surgeons proceed with the evaluation of residency training?


Moulton RJ: University of Saskatchewan, Saskatoon, Saskatchewan, April 1999. (1) Cerebral monitoring in severe closed head injury, (2) Head injury: Mass lesions, triage and treatment delays.

Moulton RJ: Trauma Association of Canada/American Association for the Surgery of Trauma, Baltimore, Maryland, September 1998. Severe traumatic brain injury at the millennium.


Muller PJ: Korean National Hospital/National University, Seoul, Korea, October 1998. (1) Clinical presentation and complications of surgical treatment, (2) Aberrant paracrine and autocrine regulatory circuits in growth hormone producing pituitary adenomas.


RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED

Cusimano MD: E.B. Tovee Undergraduate Teaching Award, Department of Surgery, University of Toronto, May 1999.

Cusimano MD: W.T. Aikins Award for Individual Teaching Performance, Faculty of Medicine, University of Toronto, May 1999.


DIVISION OF ORTHOPAEDIC SURGERY

Dr. E.R. Bogoch - Associate Professor
Dr. T.R. Daniels - Assistant Professor
Dr. D.E. Hastings - Professor
Dr. R. McBroom - Assistant Professor
Dr. M.D. McKee - Assistant Professor
Dr. R.R. Richards - Professor (Division Head)
Dr. E.H. Schemitsch - Associate Professor
Dr. J.P. Waddell - Professor

PUBLICATIONS


 INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Bogoch ER: Universite de Montreal/Hotel-Dieu Hospital, Montreal, Quebec, January 1999. Osteoporosis in the fracture clinic.
**Bogoch ER:** McGill University Osteoporosis Journal Club, Montreal, Quebec, January 1999. Identifying osteoporosis in a fracture clinic population.

**Bogoch ER:** Dalhousie University, Halifax, Nova Scotia, October 1998. Osteoporosis in the fracture clinic.

**Bogoch ER:** Current Issues in Total Hip Arthroplasty, Brampton, Ontario, July 1998. (1) Painful hip arthroplasty, (2) The hip in juvenile rheumatoid arthritis.

**Daniels TR:** Pedorthic Association of Canada, Toronto, Ontario, April 1999. (1) Management of the adult flat foot, (2) Management of the hallux valgus deformity.


**Daniels TR:** American Orthopaedic Foot and Ankle Society/NSRA/PFA, Toronto, Ontario, January 1999. When the shoe fits: Basic foot anatomy and common foot problems.


**Daniels TR:** Visiting Professor, Royal University Hospital, Saskatoon, Saskatchewan, October 1998. (1) Developmental pes planus deformity, (2) Diabetic foot arthropathy, (3) Management of ankle osteoarthritis.


**McKee MD:** Wright Medical, Toronto, Ontario, February 1999. The use of an antibiotic impregnated bone substitute in the treatment of infected bony defects.

**McKee MD:** Instructional Course, American Academy of Orthopaedic Surgeons, Anaheim, California, February 1999. Stable internal fixation for fractures: Upper extremity.


**McKee MD:** Orthopaedic Trauma Association, Vancouver, British Columbia, October 1998. (1) Upper extremity case presentations, (2) Discussion.

**Richards RR:** Harvard University, Boston, Massachusetts, June 1999. An update on outcome assessment for the shoulder and elbow.

**Richards RR:** University of Calgary, Calgary, Alberta, April 1999. (1) Chronic disorders of the forearm, (2) Approach to shoulder instability, (3) An update on outcome assessment for the shoulder and elbow, (4) Upper extremity reconstruction after irreparable brachial plexus injury: Techniques and outcome.

Richards RR: Zimmer Visiting Professor, Canadian Orthopaedic Association, University of Montreal, Montreal, Quebec, November 1998. (1) An approach to shoulder instability, (2) Orthopaedic management of irreparable lesions of the brachial plexus, (3) Chronic disorders of the forearm, (4) An update on elbow reconstruction.


Schemitsch EH: ABC Travelling Fellow, London, England, April 1999. DC versus LC-DC plates: Is there a difference?
Schemitsch EH: ABC Travelling Fellow, Oxford, England, April 1999. DC versus LC-DC plates: Is there a difference?


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


An investigation of the influence of fat embolism and hypotension on pulmonary pathophysiology. *Schemitsch EH, Richards RR*: Orthopaedic Trauma Association ($90,000 1999 - 2000).


**HONOURS RECEIVED**

*Schemitsch EH*: Samson Award, Canadian Orthopaedic Foundation, January 1999.

Schemitsch EH: ABC Travelling Fellow, January 1999.

DIVISION OF PLASTIC SURGERY

Dr. L.G. Douglas - Assistant Professor
Dr. J.L. Mahoney - Associate Professor (Division Head)
Dr. W.J. Peters - Professor

PUBLICATIONS


Kamel M, Fornasier VL, Peters WJ: Cartilaginous metaplasia in the
capsule of a Dacron-backed silicone-gel breast prosthesis. Annals of Plastic

Lugowski SJ, Smith DC, Lugowski J, Peters WJ, Semple J:
Determination of silicon and silicone in tissue and body fluids: A need for
standard reference materials. Analytical Chemistry 1998 September:
360(3-4): pp 486-488.

Mahoney JL, Kharraillah E, Drakos D: Donor site morbidity following
free tissue transfer: A preliminary survey. Canadian Journal of Plastic

Nechala P, Mahoney J, Farkas L: Digital two-dimensional
photogrammetry: A comparison of three techniques of obtaining digital
1819.

Nechala P, Mahoney JL, Farkas LG: Maxillozygional anthropometric
landmark: A new morphometric orientation point in the upper face. Annals

Peters WJ, Phillips A: Buffalo hump and HIV-1 infection: Current
concepts and treatment of a patient with the use of suction-assisted
131.

Peters WJ, Pritzker KP, Smith DC, Fornasier V, Holmyward D,
Lugowski S, Kamel M, Visram F: Capsular calcification associated with
silicone breast implants: Incidence, determinants and characterization.

Peters WJ, Smith DC: Outcome after explantation of silicone-gel breast

Young VL, Peters WJ, Brandon HJ, Jerina KL, Wolf CJ: Determining
the frequency of breast implant failure requires sound scientific principles.
INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Peters WJ: Canadian Society of Plastic Surgeons, Montreal, Quebec, June 1999. Survival properties of breast implants and management of the woman with silicone-gel breast implants.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


HONOURS RECEIVED

DIVISION OF UROLOGY

Dr. L.K. Carr - Lecturer
Dr. R.J. Honey - Assistant Professor (Division Head)
Dr. A.G. Keresteci - Associate Professor
Dr. J.T. Rankin - Assistant Professor

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


DIVISION OF VASCULAR SURGERY

Dr. F.M. Ameli - Associate Professor (Division Head)
Dr. A.G. Lossing - Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


SUNNYBROOK AND WOMEN'S COLLEGE HEALTH SCIENCES CENTRE

Surgeon-in-Chief - Dr. B. Goldman
Surgeon-in-Chief (Orthopaedic and Arthritic Campus)
  — Dr. J. Cameron
Surgeon-in-Chief (Women's College Campus) — Dr. H.L.A. Lickley

HEADS OF DIVISIONS

Dr. S.E. Fremes - Cardiac Surgery (Acting)
Dr. S. Hanna - General Surgery (Sunnybrook Campus)
Dr. T. Ross — General Surgery (Women's College Campus)
  Dr. M. Schwartz — Neurosurgery
  Dr. J. Cameron — Orthopaedic Surgery
  (Orthopaedic and Arthritic Campus)
  Dr. T. Axelrod - Orthopaedic Surgery (Sunnybrook Campus)
  Dr. J. Semple - Plastic Surgery
  Dr. S. Herschorn — Urology
  Dr. R. Maggisano — Vascular Surgery

Introduction

The Ontario Legislature passed Bill 51 on June 26, 1998, an Act to amalgamate Sunnybrook Health Sciences Centre with the Orthopaedic and Arthritic and Women's College Hospitals. While merger negotiations are ongoing, integration of the separate Departments of Surgery is proceeding smoothly and with considerable goodwill. Medical leadership issues (Division Heads) have been resolved and Dr. Bernard Goldman was appointed Surgeon-in-Chief of the Sunnybrook and Women's College Health Sciences Centre in June 1999. Drs. Lavina Lickley and John Cameron remain as Department Heads at their respective campus. A combined Department of Surgery planning retreat held in November 1998 dealt with physical and human resources anticipated 3-5 years hence at the time of the move to one site. Current discussions revolve around rationalization of resources and movement of patients, procedures and surgeons to the different sites to achieve maximal efficiency and utilization, as well as promote academic relationships and provide increased operating
time for new recruits and expanding programs. The Minister of Health formally opened the Ross Tilley Regional Burn Unit, a 14-bed unit, transferred from The Wellesley Central Hospital under the able leadership of Dr. Joel Fish on December 5, 1998, as part of the Health Restructuring Plan for the Sunnybrook campus.

Honours, Awards, Promotions and Appointments

The Dr. Marvin Tile Distinguished Service Awards of the Department of Surgery at the Sunnybrook campus were awarded to Dr. Barry McLellan for his significant contribution to the Trauma Program, to Ms. Kerry Marshall, Vice-President of Operations, for her dedication to the development of surgical programs (in particular the establishment of cardiac surgery), and to Dr. George Christakis for his commitment to the Department and Hospital regarding Medical Staff Association principles in merger discussions. Dr. Ron Kodama was awarded the A.W. Bruce Undergraduate Teaching Award for 1998-99. Dr. Sender Herschorn was awarded the Faculty of Medicine Colin R. Woolf Award for long term commitment to continuing education at the University of Toronto. He also chaired a section of the World Health Organization First International Consultation on Urinary Incontinence, the only Canadian to be so honoured. Dr. Gideon Cohen, cardiac surgery resident, was awarded the 1999 Canadian Research Award for Specialty Residents for his winning manuscript. The A.W. Harrison Teaching Awards were given to Drs. Chris Davreux (general surgery), Dr. Dennis Dipasquale (plastic surgery) and Dr. Gideon Cohen (cardiac surgery). Three of these awards were given to urology residents: Dr. Edward Matsumoto, Dr. Owen Prowse and Dr. Kenneth Pace. Dr. Mitchell Brown received the University of Toronto, Department of Surgery, Distinguished Educator Award for outstanding contribution to surgical skills education. Dr. Ted Ross received the Director’s Teaching Award for the Peters-Boyd Academy and Dr. Mitchell Brown won the first award for teaching in the Clinical Skills Laboratory. Dr. Joel Fish was given the 1999 PAIRO Excellence in Clinical Teaching Award for the University of Toronto. Drs. Terry Axelrod and Joel Fish were nominees for the Peters-Boyd Academy Teaching Awards for 1999.

Dr. Fred Brenneman successfully passed his three-year review and was promoted to Assistant Professor. In addition, he was named Acting Head of the Trauma Program, after the resignation of Dr. Barry McLellan. The Division of Vascular Surgery was officially designated as a resident
teaching division within the University of Toronto and Dr. Robert Maggisano was appointed as Division Head. Dr. Gopal Bhatnagar successfully completed his three-year review. Dr. Stephen Frenes was named Acting Head of the Division of Cardiac Surgery. Dr. Terry Axelrod was promoted to Associate Professor, as well as being promoted to the position of Deputy Surgeon-in-Chief of the Sunnybrook and Women’s College Health Sciences Centre. Dr. David Stephen was promoted to Assistant Professor.

Dr. Joel Fish was named Co-Chair of the Canadian Special Interest Group of the American Burn Association. Dr. Laurie Klotz remains Editor-in-Chief for the Canadian Journal of Urology. Drs. Marvin Tile and Joseph Schatzker completed the second edition of their important textbook The Rationale of Operative Fracture Care. Dr. Joseph Schatzker was elected to the prestigious position of President of the AO Foundation.

ORTHOPAEDIC AND ARTHRITIC CAMPUS

In 1998-99, the Orthopaedic and Arthritic Hospital was saddened by the death of one of its founders, Dr. James E. Bateman. Dr. Bateman’s accomplishments as an orthopaedic surgeon and his contributions to the University of Toronto were remarkable. He was highly respected both nationally and internationally for his academic and clinical achievements, which included the development of a revolutionary hip replacement implant and advanced techniques in shoulder surgery. He will long be remembered by his patients and colleagues.

During the year, the Orthopaedic and Arthritic Hospital welcomed the full-time appointment to its staff of Dr. John Murnaghan and Dr. Barry Malcolm. Significant teaching activities have continued with emphasis on the Clinical Fellowship Program, focused elective experience for orthopaedic residents and orthopaedic electives for family practice residents. Continuing education has also been provided to practicing orthopaedic surgeons from Canada and abroad, in advanced orthopaedic
surgical techniques through the Arthroscopy Learning Centre and the Spine Learning Centre, established in partnership with private enterprise.

There has been ongoing development of clinical research activities through participation in multicentre studies on the outcomes of joint replacement surgery, in collaboration with Toronto colleagues. There have also been expanded private partnerships in the conduct of controlled clinical trials related to pharmaceutical and technical advancements.

The formation of the Sunnybrook and Women's College Health Sciences Centre in 1999 has resulted in the establishment of one of the largest orthopaedic units in the country, and Drs. John Cameron and Terry Axelrod have been appointed co-leaders of the new Division. Work is underway to develop a vision and strategic plan for the unit and Musculoskeletal Program that will ensure continued excellence in clinical service, teaching and research.

**SUNNYBROOK CAMPUS**

**Education**

Undergraduate education is a major commitment of Sunnybrook surgeons and house staff, providing 278 hours of pre-clerkship teaching, 4 PBL tutors and 518.25 hours of clerkship phase I seminars. Dr. Gopal Bhatnagar is Co-ordinator for the surgical clerkship, for ASCM2 and Foundations of Medical Practice (Surgery) in the Peters-Boyd Academy.

**Division of Cardiac Surgery**

The Division remains extremely busy with 1,220 open-heart procedures performed during fiscal year 1998-99 with an increase of more than 100 cases planned. The primary and basic research activities of the Division during the past year have been: arterial conduits for coronary surgery (funded by the Medical Research Council of Canada), alternative methods of myocardial protection for urgent revascularization (funded by the Medical Research Council of Canada) and different valvular prostheses for aortic valve replacement (funded by the Heart and Stroke Foundation).
Clinical interests have related to epidemiologic and demographic risk factors in coronary surgery (Dr. Stephen Fremes), the development of minimal access and off-pump techniques (Drs. Gopal Bhatnagar and Stephen Fremes) and comparative evaluation of various aortic valves on left ventricular function (Drs. George Christakis and Bernard Goldman, who continue their roles as proctors for the FDA — mandated instruction of U.S. surgeons embarking on implantation of stentless valves).

Dr. Bernard Goldman as Surgeon-in-Chief and Dr. George Christakis as Head of SHUTC have had significant administrative responsibilities during the past year dealing with both on-site and merger issues. Dr. Bernard Goldman stepped down as Head of the Division and named Dr. Stephen Fremes as the Acting Head. Two former Fellows, Drs. Labib Abouzahr and Dr. Charles Cutrara joined the cardiovascular staff at Sunnybrook in July 1998. Dr. Abouzahr has since assumed a position in Hamilton.

Division of General Surgery

General surgery has maintained its focus on trauma and oncology. Drs. Sherif Hanna and Hensley Miller have participated actively in the Trauma Program directed by Dr. Fred Brenneman. Their clinical studies on the use of ultrasound in the diagnosis and management of abdominal injuries continue to be supported by numerous grants. Specific interests in oncology are hepatobiliary, breast and GI cancers. The Liver Cryosurgery Program now in its early phase and, supported by the combined generosity of the hospital, patients and the Department of Surgery, has so far met with early clinical success and interest.

Opening of a limited number of intermediate care beds (Surgical Flow Through Unit) has facilitated early post-operative care of critically ill cancer patients.

Division of Neurosurgery

The Division of Neurosurgery has been active in a number of subspecialty areas. Dr. Mahmood Fazl has pursued his special interest in spinal surgery in addition to maintaining a busy clinical practice. He has been a teacher in the problem-based learning curriculum. Dr. David Rowed has continued to be active in skull base surgery and aspects of intra-operative monitoring. He too is a problem-based learning teacher. Dr. Rajiv Midha has been
successful in securing peer-reviewed funding for his laboratory research in repair and regeneration of peripheral nerves and attracts a wide referral of clinical cases in this subspecialty. Dr. Michael Schwartz has continued his work in radiosurgery with a review of the complications of the treatment of arteriovenous malformations and the outcome of patients after traumatic brain injury.

Dr. David Houlden has attracted peer-reviewed funding and graduate students for clinical research into aspects of neurophysiological monitoring continuing to provide service in this modality for several surgical services.

Dr. Ramani Ramaseshan of the Department of Medical Physics, and who is also appointed to the Division of Neurosurgery has developed new software to facilitate radiosurgical printing.

**Division of Orthopaedic Surgery**

During the academic year 1998-99, the Orthopaedic Division of the Sunnybrook and Women's College Health Sciences Centre officially amalgamated with the Orthopaedic and Arthritic Hospital to become the Orthopaedic and Arthritic Institute at the Sunnybrook and Women's College Health Sciences Centre. Drs. John Cameron and Terry Axelrod head this Division/Musculoskeletal Program as co-leaders within their respective divisions.

This program has representation at the Board of Directors of the Sunnybrook and Women's College Health Sciences Centre through the Musculoskeletal Committee of the Board. The Division is looking forward to the full development of the strategic plan and the beginning of construction of facilities that will bring us together under one roof as one of the largest functioning orthopaedic units in this country.

Dr. Gordon Hunter officially retired from active clinical practice. He has taken up a position with the Workplace Safety and Insurance Board as a consultant. Dr. Hunter will continue to monitor the trauma patients within the Trauma Program of this institution. Dr. Marvin Tile, although still active in a very busy clinical practice and participating fully in surgical endeavours, has officially retired from his University appointment.
Dr. Terry Axelrod was a guest of the Singapore Orthopaedic Association and was the Chair for the AO International Hand Course. Dr. Joseph Schatzker was an invited visiting professor at the Polish Orthopaedic and Trauma Society, as well as the Colombian Orthopaedic Society in Bogota, Columbia. Dr. Hans Kreder was a guest-visiting lecturer for the Ontario Orthopaedic Association Board of Directors retreat. All members of the Orthopaedic Division were active invited participants in many AO/ASIF courses.

Dr. Hans Kreder continues to obtain significant research grant funding. Dr. Joel Finkelstein has been successful in establishing the Sunnybrook spinal trauma prospective database with industry support. This database has become an integral part of the trauma assessment record. The Sunnybrook campus has initiated a combined fully integrated Spinal Injury Program in conjunction with the Division of Neurosurgery. This involves total care of the spinal cord injury patient from cervical spine to sacrum equally attended to by members of both the participating divisions.

The Orthopaedic Division in conjunction with the Department of Radiation Oncology has established a bone metastases prospective clinic at the Toronto Sunnybrook Regional Cancer Centre. This is an innovative program; the first of its kind in Canada that establishes a working prospective relationship between the radiation oncologists and orthopaedic surgeons for early intervention in patients with metastatic bone lesions.

**Division of Plastic Surgery**

This past year has been a time of transition for the Division of Plastic Surgery at the Sunnybrook and Women s College Health Sciences Centre. The Ross Tilley Burn Centre moved from The Wellesley Central Hospital to the Sunnybrook campus with Dr. Joel Fish as Medical Director. Dr. Rob Cartotto recently joined the Division from Queen s University as the second burn surgeon with an excellent reputation as a teacher. The Ross Tilley Burn Centre established the first provincial skin bank with a major donation from the Firefighter s Association.

Dr. John Semple has assumed Head of the Division and is establishing a practice in breast reconstruction and skin cancer. Dr. Mitch Brown will be positioned primarily at the Women s College campus and will be continuing his practice in breast surgery and oncological reconstruction.
Dr. Oleh Antonyshyn is the Director of the Craniofacial Program and continues his research in three-dimensional intra-operative navigational systems. Dr. Chris Forrest moved to The Hospital for Sick Children and has taken up the position of Director of the Craniofacial Unit there and remains a consultant to the program at the Sunnybrook campus. Dr. Jeff Fialkov joined the Division in the Craniofacial Program and has initiated a research project in the tissue engineering of bone.

The Division as a whole has developed a research component entitled, Advanced Reconstructive Tissue Engineering Centre (ARTEC). This is a special research initiative based at the Sunnybrook campus led by Dr. John Semple and Kim Woodhouse. The group will focus on using innovative tissue engineering for reconstruction of soft tissue defects following burns, trauma and cancer ablation.

**Surgical Oncology**

Surgical oncology is an established program within the Toronto Sunnybrook Regional Cancer Centre and the Sunnybrook and Women's College Health Sciences Centre, organized along site-based lines. Dr. Ralph Gilbert (ENT) is the Director of Surgical Oncology and Dr. Carol Sawka is Medical Director of the Cancer Program and Chief Executive officer of the Toronto Sunnybrook Regional Cancer Centre. Both work closely with the Department of Surgery.

Involvement of the surgeons includes: the breast site group (Dr. Glen Taylor and Dr. Hensley Miller); the GI site group (Dr. Sherif Hanna and Dr. Andrew Smith); the uro-oncology site group (Dr. Laurie Klotz and Dr. Neil Fleshner); the skin site group (Dr. John Semple and Dr. Oleh Antonyshyn); the CNS site group (Dr. Michael Schwartz) and the melanoma site group (Dr. John Semple and Dr. Paul Binhammer). A surgical oncology retreat in the spring of 1999 redefined these unique and important liaisons between the Toronto Sunnybrook Regional Cancer Centre and the Sunnybrook and Women's College Health Sciences Centre, which continues to offer superb teaching opportunities and a fellowship in surgical oncology (Drs. Alexandra Easson and Jacqueline Crosby).
Trauma Program

The Trauma Program, under the leadership of Dr. Fred Brenneman, experienced an increase in trauma patient volumes in the past year caring for well over 800 seriously injured patients, 706 of those with an injury severity score >15. The Trauma Program continues to be the largest trauma centre in Canada. This high volume attracts clinical expertise, many opportunities for trauma research, and educational experiences for residents and fellows. The Trauma Program involves many members of various departments including surgery, anesthesia and medicine and involves all divisions within the Department of Surgery. Dr. Avery Nathens, currently at Harborview Hospital in Seattle, Washington, also a major trauma and burn centre will return next year to work with Dr. Fred Brenneman in the management of trauma patients and intensive care.

Division of Urology

The members of the Division of Urology have continued to report their clinical and research endeavours in a large number of publications in both books and journals. Dr. Sender Herschorn is the Director of the annual University of Toronto Urology Update which, at this point, is the most successful continuing medical education program in urology in Canada. He has continued his research activities in urinary incontinence and male erectile dysfunction. Dr. Laurence Klotz has continued to be extremely active in national and international cancer organizations. He is the principal investigator in a National Cancer Institute of Canada national trial in prostate cancer and is a key investigator in other trials. He was awarded the clinical poster prize at the European Association of Urology annual meeting. He was also elected Chair of the Global GU Group, an international consortium of co-operative clinical trial group chairs. Dr. Neil Fleshner is continuing his peer-reviewed funded research endeavours in prostate cancer as a principal investigator and in other research trials as well. He delivered a major address on prostate cancer to the plenary session of the annual meeting of the American Urological Association. Dr. Kodama became the Program Director for the University Urology Program. He continues his active role in education as chief examiner for the MCCQE Part II and is the co-ordinator of MOCOMP for the Canadian Urological Association.
Division of Vascular Surgery

Under the leadership of Dr. Robert Maggisano, this extremely busy Division continues its focus on evolving technologies in the management of thoraco-abdominal and traumatic aortic aneurysms, as well as peripheral vascular trauma and extracranial vascular reconstructions.

In collaboration, the Division has been awarded two separate $100,000 grants for research in carotid disease. Dr. Maggisano is participating in the study of MRA imaging for grading carotid stenoses while Dr. Daryl Kucey is a co-investigator of the propranolol for small aortic aneurysms trial, as well as the Carotid Endarterectomy Health Sciences Research Program. The Division has also established a University of Toronto carotid study group. Currently the Division is involved in the development of a province-wide database for carotid endarterectomy, as well as infra-inguinal reconstructions.

WOMEN'S COLLEGE CAMPUS

We have now completed our first year as part of the amalgamated Sunnybrook and Women's College Health Sciences Centre. Much has been accomplished but there are still many details to be sorted out.

The plastic surgery and urology services have increased their role at the Women's College campus and plans are underway to recruit an additional general surgeon with a focus in breast disease. Dr. Mitch Brown continues his research in education. Dr. Ted Ross continued in his role as the University of Toronto Surgical Clerkship Supervisor responsible for the development and administration of the citywide surgical clerkship for Years 3 and 4. The surgeons at the Women's College campus contributed to the training of general and plastic surgery residents and participated extensively in the undergraduate curriculum. They taught in the Foundations of Medical Practice (PBL) and the Art and Science of Clinical Medicine (ASCM). They also undertook bedside clinics in abdominal assessment for students from the University Health Network and Women's College.

The results from the NSABP — Breast Cancer Prevention Trial were published this year. The Women's College campus was a participating centre and was also successful in a competitive application to become a
centre for the second Breast Cancer Prevention Trial (STAR — a study of tamoxifen and raloxifene).

We look forward to the challenges and rewards of our second year as part of the Sunnybrook and Women’s College Health Sciences Centre.
ORTHOPAEDIC AND ARTHRITIC CAMPUS

DIVISION OF ORTHOPAEDIC SURGERY

Dr. H.U. Cameron - Associate Professor
Dr. J.C. Cameron - Assistant Professor (Division Head)
Dr. M. Ford - Lecturer
Dr. J.D. Gollish - Lecturer
Dr. H. Hall - Professor
Dr. R. Holtby - Assistant Professor
Dr. B.W. Malcolm - Assistant Professor
Dr. P.H. Marks — Assistant Professor
Dr. J.J. Murnaghan - Assistant Professor
Dr. C.S. Wright — Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Cameron HU: Visiting Professor, California Orthopaedic Association, Monterey, California, May 1999. (1) Treatment of recurrent dislocation, (2) S-ROM and revision techniques.

Cameron HU: Visiting Professor, Revision Hip Arthroplasty Conference, Montebello, Quebec, May 1999. (1) Tips and tricks of exposure in revision total hip replacement, (2) Acetabular reconstruction without bone, (3) Bio-body stem is best, (4) The deformed femur.

Cameron HU: Visiting Professor, Japanese Orthopaedic Association, Yokohama, Japan, April 1999. (1) Use of a noncemented proximally modular total hip stem, (2) Use of a constrained acetabular component in total hip replacement, (3) Long-term results of a proximally modular stem in type III revisions.


Cameron HU: Visiting Professor, International Conference on Tissue Banking, Malaysia, Asia, November 1998. (1) Advances and challenges in tissue transplantation, (2) Role of bone allograft in orthopaedic reconstruction.

Cameron HU: Visiting Professor, International Knee Symposium, South Africa, October 1998. (1) Total knee replacement following osteotomy or unicompartmental knee, (2) HA versus porous coating versus grit blast titanium as methods of fixation in total knee replacement, (3) Appropriate level of constraint in knee revision surgery, (4) Reflex sympathetic dystrophy following total knee replacement.

Cameron HU: Visiting Professor, Instructional Course and Symposium, Genoa, Italy, October 1998. (1) Treatment of bone loss in the femur with cementless modular stems, (2) Exposure options and extraction tips, (3) Management of extra-articular deformity in total knee replacement.


Hall H: Continuing Medical Education for Family Physicians, Canadian Back Institute/Physiotherapy and Rehabilitation Centre, Cornwall, Ontario, November 1998. (1) Management of peripheral injuries in family practice, (2) Management of repetitive strain injury in family practice.


Hall H: University of Saskatchewan, Saskatoon, Saskatchewan, May 1999. Thoracolumbar fixation particularly related to trauma.

RESEARCH AND INVESTIGATIONS  
Senior Investigator’s Name Appears in Italics

Allograft meniscal dynamics and volumetric analysis using three dimensional reconstruction of MRI. Marks PH: Orthopaedic and Arthritic Hospital ($8,900 1995 - 1999).

A multicentre, multinational, randomized, double-blind comparison of low molecular weight heparins in the prevention of DVT and symptomatic PE after elective hip replacement or revision. Gollish JD: Sanofi Incorporated ($120,000 1999 - 2001).

A multicentre, multinational, randomized, double-blind comparison of low molecular weight heparins in the prevention of DVT and symptomatic PE after elective hip replacement or revision. Gollish JD: Organon Canada ($120,000 1999 - 2001).


SUNNYBROOK CAMPUS

DIVISION OF CARDIAC SURGERY

Dr. L. Abouzahr - Lecturer
Dr. G. Bhatnagar - Lecturer
Dr. G.T. Christakis - Associate Professor
Dr. C. Cutrara - Lecturer
Dr. S.E. Freme - Associate Professor (Acting Division Head)
Dr. B.S. Goldman - Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Fremes SE: York County Hospital, Newmarket, Ontario, August 1998. Minimally invasive MIDCAB.

Goldman BS: York County Hospital, Newmarket, Ontario, June 1999. Start up of a new cardiac surgical unit.


Goldman BS: Shaare Zedek Medical Center/Hesselson Heart Center, Jerusalem, Israel, March 1999. The accumulated experience with the Toronto SPV.


**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*


HONOURS RECEIVED

Christakis GT: Marvin Tile Award, Sunnybrook and Women’s College Health Sciences Centre, June 1999.

DIVISION OF GENERAL SURGERY

Dr. F.D. Brenneman — Assistant Professor
Dr. S.S. Hanna — Assistant Professor (Division Head)
Dr. A.W. Harrison - Professor
Dr. H.A.B. Miller - Associate Professor
Dr. G.A. Taylor - Associate Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Brenneman FD: Peel Memorial Hospital, Brampton, Ontario, April 1999. Blunt abdominal trauma.
**Brenneman FD**: Credit Valley Hospital, Mississauga, Ontario, April 1999. (1) Gunshot wounds, (2) Case presentation.


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**DIVISION OF NEUROSURGERY**

Dr. M. Fazl - Assistant Professor
Dr. R. Midha - Assistant Professor
Dr. D.W. Rowed - Associate Professor
Dr. M.L. Schwartz — Professor

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**PUBLICATIONS**


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


Sensory and motor axons in long peripheral nerve allografts under temporary immunosuppression. Midha R, Ang LC: Physicians Services Incorporated Foundation ($70,000 1998).

DIVISION OF ORTHOPAEDIC SURGERY

Dr. T.S. Axelrod - Associate Professor (Division Head)
Dr. J.A. Finkelstein - Assistant Professor
Dr. G.A. Hunter - Professor
Dr. H.J. Kreder - Assistant Professor
Dr. J. Schatzker - Professor
Dr. D.J.G. Stephen - Assistant Professor
Dr. M. Tile - Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


**Finkelstein JA:** AO/ASIF Comprehensive and Advanced Spine Course, Montreal, Quebec, July 1998.  Post-traumatic kyphosis.


**Schatzker J:** SICOT, Sydney, Australia, April 1999.  (1) Fractures of the ankle, (2) Chair: ARTOF symposium on fractures of the humerus.


**Schatzker J:** American Hip Society, Anaheim, California, February 1999. Acetabular revision utilizing rings and cages.

**Schatzker J:** American Academy of Orthopaedic Surgeons, Anaheim, California, February 1999. Acetabular revision utilizing rings and cages.


RESEARCH AND INVESTIGATIONS

Senior Investigator's Name Appears in Italics


DIVISION OF PLASTIC SURGERY

Dr. O.M. Antonyshyn - Associate Professor
Dr. P. Binhammer - Lecturer
Dr. J. Fialkov - Assistant Professor
Dr. J.S. Fish - Assistant Professor
Dr. J. Semple — Associate Professor(Division Head)

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Antonyshyn O: Fraser N. Gurd Lecturer, American Association for the Surgery of Trauma, Baltimore, Maryland, September 1998. Craniofacial trauma: Evolution of current techniques and outcomes.

Fish JS: Critical Care Program, Timmins and District Hospital, Timmins, Ontario, May 1999. Day in critical care: Answering those burning questions.

Fish JS: Back on Track Program, St. John’s Rehabilitation Hospital, Toronto, Ontario, April 1999. Prevention of electrical burn injuries.
Fish JS: Peel Memorial Hospital, Newmarket, Ontario, October 1998. Update on burn management.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


HONOURS RECEIVED

Fish JS: Paio Excellence in Clinical Teaching Award, University of Toronto, May 1999.
DIVISION OF UROLOGY

Dr. N.E. Fleshner - Assistant Professor
Dr. S. Herschorn - Associate Professor (Division Head)
Dr. L. Klotz - Associate Professor
Dr. R.T. Kodama - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Fleshner N: Visiting Professor, McGill University, Montreal, Quebec, May 1999. Nutrition and prostate cancer.


Herschorn S: Sudbury Area Family Practitioners and Specialists, Sudbury, Ontario. Urinary incontinence: Investigation and management.


**Herschorn S:** Etobicoke General Hospital, Etobicoke, Ontario, April 1999. Erectile dysfunction.

**Herschorn S:** Keynote Speaker, Prostate Cancer Forum, Canadian Cancer Society, St. John's, Newfoundland, May 1999. Prostate cancer: Dealing with incontinence.


## RESEARCH AND INVESTIGATIONS

*Senior Investigator’s Name Appears in Italics*

A double-blind, randomized, fixed-dose, placebo controlled study to assess the efficacy and safety of sildenafil in preventing erectile dysfunction in patients who have undergone a bilateral nerve sparing radical prostatectomy. *Herschorn S:* Pfizer Canada ($60,000 1999).

A prospective phase 3 randomized trial comparing intermittent versus continuous androgen suppression for patients with PSA progression in the clinical absence of distant metastases following radiotherapy for prostate cancer. *Klotz LH, Crook J:* National Cancer Institute of Canada/Hoechst Marion Roussel ($2,800,000 1997 - 2002).

A randomized, double-blind, placebo-controlled study of IC351 (LY450190) administered "on demand" to patients with male erectile dysfunction. *Herschorn S:* Eli Lilly ($25,000 1999).


Treatment success, quality of life, and health economic assessment in an open randomized trial comparing tolterodine and oxybutynin in adults with urinary frequency, urgency, and/or urgency incontinence during naturalistic conditions for six months. Herschorn S: Upjohn-Pharmacia ($25,000 1998).

**HONOURS RECEIVED**

Herschorn S: Colin R. Woolf Award, Faculty of Medicine, University of Toronto, November 1998.
DIVISION OF VASCULAR SURGERY

Dr. D.S. Kucey - Assistant Professor
Dr. R. Maggisano - Assistant Professor *(Division Head)*

PUBLICATIONS

**Kucey DS, Bowyer B, Iron K, Austin P, Anderson G, Tu JV:**

**Smurawska LT, Bowyer B, Rowed D, Maggisano R, Oh P, Norris JW:**

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS

*Senior Investigator’s Name Appears in Italics*


WOMEN'S COLLEGE CAMPUS

DIVISION OF GENERAL SURGERY

Dr. G. Hiraki - Assistant Professor
Dr. C.M.B. Holloway - Assistant Professor
Dr. H.L.A. Lickley - Professor
Dr. T.M. Ross - Associate Professor (Division Head)

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Lickley L: Breast Cancer Information and Support Think Tank, Toronto, Ontario, April 1999. (1) Breast cancer treatment, (2) Treatment decision-making, (3) Rehabilitation and survivorship.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


DIVISION OF PLASTIC SURGERY

Dr. M.H. Brown - Assistant Professor
Dr. J.L. Semple - Associate Professor (Division Head)

PUBLICATIONS


RESEARCH AND INVESTIGATIONS


**HONOURS RECEIVED**

Brown MH: Distinguished Educator Award for Outstanding Contribution to Surgical Skills Education, Department of Surgery, University of Toronto, May 1999.

**DIVISION OF UROLOGY**

Dr. L.K. Carr - Lecturer
Dr. J.G. Connolly - Professor
The past year for the Toronto East General Hospital has been somewhat difficult with the forced resignation of the Chief Executive officer and a major restructuring of the hospital Board of Governors. For most of the year, the Hospital was managed by an interim Chief Executive officer, Mr. William MacLeod. The Toronto East General Hospital recently appointed Mr. Ron Mulchey as the new Chief Executive officer. Mr. Mulchey brings considerable experience to the new position, having had previous senior administrative roles at the Sunnybrook Medical Centre, Grand River Hospital in Kitchener and St. Paul's Hospital in Vancouver, British Columbia. There was considerable dissatisfaction with the management system introduced by the previous administration. This is currently being reviewed by a health care consultant firm. To-date, the Toronto East General Hospital has received two gastroenterologists and one general surgeon from The Wellesley Central Hospital. As well, there were two dentists transferred from the Toronto Western Hospital to the Toronto East General Hospital.

The Department of Surgery continues to provide training for family practice and emergentology residents, as well as active participation in the teaching of postgraduate surgical trainees in general surgery and orthopaedic surgery.

The Division of Orthopaedic Surgery has become very popular with German medical students wishing to do electives in orthopaedic surgery, with four coming to the Toronto East General Hospital during the past year.

Dr. Wayne Tanner completed his term as President of the Medical Staff Association at the Toronto East General Hospital in June 1998. He is
Currently Chair of the Specialists Coalition of Ontario and Section Chair for Vascular Surgery of the Ontario Medical Association. Dr. Tanner is Founder and Director of the Association of Vascular Surgeons of Ontario. This is a new association that was established in 1998.

Dr. Tom Gilas has remained active in the promotion of a surgical internet discussion list (Surginet) — a novel venue for international communication among surgeons. Dr. Gilas has been instrumental in establishing the Surginet Program.

Dr. Robert MacMillan was a Visiting Professor at McMaster University on October 23, 1998, discussing sexuality and fertility in the spinal cord injured. He also presented a paper at the American Spinal Cord Injury Association’s annual meeting related to the efficacy of rinsing and microwave sterilization of plastic urinary catheters for use in intermittent catheterization. His current research activities involve the use of cranberry capsules in the prevention of urinary tract infections in spinal cord injury patients and the use of capsaicin in the treatment of high pressure neurogenic bladders.

Dr. Gianni Maistrelli presented new trends in hip arthroplasty at the Catholic University of Rome on September 24, 1998. He also participated in the Italian Orthopaedic Research Society, discussing the modes of failure in total knee arthroplasty. He also gave a presentation related to the biomechanics and neck geometry in total hip replacements at the International Hip Symposium in Rome on May 23, 1999.

Dr. William Forder is involved in a study of sildenafil for male erectile dysfunction and continues with work related to a comparison of low and high energy transurethral microwave thermography in patients with benign prostatic hypertrophy.

Dr. Paul Wong and Dr. Robert Mackenzie were promoted from associate active staff to full active staff.

Dr. Wong remains active in orthopaedic research and has recently completed a project involving the use of structural allografts for treating periprosthetic fractures about the hip and knee. His current research involves finite analysis of total hip arthroplasty and the biomechanics of roof re-enforcement ring in revision total hip arthroplasty.
Dr. Peter Weiler won the R.B. Salter Award for Excellence in Teaching. His research interests include the finite element analysis of hip fracture fixation devices and total hip arthroplasty.

Dr. Ian Harrington has completed his first term as Surgeon-in-Chief and will complete his second five-year term as Head, Division of Orthopaedic Surgery December 31, 1999.

The Toronto East General Hospital has recently completed its fund-raising campaign in order to provide a new operating room, obstetrical case room and out-patient facilities. Tenders have been let and construction is expected to begin within a few months.

It is expected that the Toronto East General Hospital will continue to function as a community teaching centre with an increasing role in the teaching of family practice medicine, general and orthopaedic surgery residents.

DIVISION OF GENERAL SURGERY

Dr. V. Campbell - Lecturer
Dr. T. Gilas — Assistant Professor
Dr. R. Mackenzie - Assistant Professor
Dr. G.L. Stoik - Assistant Professor
Dr. W.R. Tanner - Lecturer
Dr. R.A. Zeldin - Assistant Professor (Division Head)
DIVISION OF ORTHOPAEDIC SURGERY

Dr. I.J. Harrington - Associate Professor (Division Head)
Dr. W.J. Kraemer - Lecturer
Dr. G.L. Maistrelli - Associate Professor
Dr. P.J. Weiler — Lecturer
Dr. P. Wong - Lecturer

PUBLICATIONS

Harrington IJ, Barrington TW, Evans DC, Sekyi-Otu A, Tuli V:

Harrington IJ, Mahomed MN, Kearn T, Hamilton H:

Harris WR, Harrington IJ:

Le Anh X, Otsuka N, Bhargava M, Cameron HU, Harrington IJ:

INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Maistrelli GL:

Maistrelli GL:


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


HONOURS RECEIVED

Weiler PJ: R.B. Salter Award for Excellence in Teaching, Division of Orthopaedic Surgery, Department of Surgery, University of Toronto, November 1998.

DIVISION OF UROLOGY

Dr. W.C.F. Forder - Lecturer
Dr. R.D. MacMillan - Assistant Professor (Division Head)
UNIVERSITY HEALTH NETWORK

Surgeon-in-Chief — Dr. P. Walker
(July 1, 1998 — March 31, 1999)
Surgeon-in-Chief - Dr. B.R. Taylor
(April 1, 1999 — June 30, 1999)

HEADS OF DIVISIONS

Dr. T.E. David - Cardiac Surgery
Dr. O.D. Rotstein - General Surgery
Dr. M. Bernstein — Neurosurgery
Dr. J.R. Davey - Orthopaedic Surgery
Dr. P. Neligan - Plastic Surgery
Dr. T.R.J. Todd - Thoracic Surgery
Dr. M.A.S. Jewett — Urology
Dr. K.W. Johnston - Vascular Surgery

The Toronto Hospital consisted of the Toronto General Division and the Toronto Western Division established in 1987. As of April 1, 1999, the University Health Network was established, comprising the Toronto General Hospital, Toronto Western Hospital, Princess Margaret Hospital, and the Toronto Medical Laboratories. Dr. Paul Walker was Surgeon-in-Chief and Vice-President, Surgical Directorate until March 31, 1999, after which Dr. Bryce Taylor was appointed as Surgeon-in-Chief and Director of Surgical Services of the University Health Network.

Cardiac Surgery

This Division, the largest in the country, is both academically and clinically very productive. It welcomes Dr. Terry Yau and Dr. Stephanie Brister as new academic staff this year. Dr. Yau has been recruited as a surgeon/scientist and is investigating cardiomyocyte growth and autotransplantation.

The members of the Division continue to offer superlative clinical care to the Canadian public, and boast mortality and morbidity statistics which
have been consistently lower than that reported by the Society of Thoracic Surgeons.

The Toronto General Hospital continues to be a sought-after centre for cardiac surgery for large numbers of visiting graduate cardiovascular surgeons. At the same time, the Division members have acted as visiting professors to many universities around the world, and contribute to editorial boards of high-impact cardiovascular journals.

Clinical research has focused on interventions in patients with coronary artery disease, heart valve disease, and thoracic aortic aneurysms. In addition to cardiomyocyte growth, basic research is currently being conducted in the areas of myocardial preservation and cerebral protection during cardiac surgery.

Drs. Weisel, Feindel, Peniston, Yau and David all hold peer-reviewed and industrial grants to support their clinical and basic research. Grants have been awarded by the Medical Research Council of Canada, the Heart and Stroke Foundation and industry.

**General Surgery**

The Division of General Surgery has continued to develop programmatically in the areas of surgical oncology, transplantation, and surgical sepsis and critical care.

Drs. David McCready and Ulo Ambus have combined to create a breast centre at the Princess Margaret Hospital, and Dr. Lorne Rotstein has contributed significantly to the development of head and neck cancer surgery at that institution. The hepatobiliary group, in collaboration with a Mount Sinai Hospital surgeon, is successfully strengthening ties with the medical oncology and radiation oncology colleagues at the Princess Margaret Hospital, and has recently been recognized as the Ontario leader in operative results after major pancreatic surgery.

Dr. John Marshall is an internationally recognized clinical researcher in critical care, and heads the clinical research program in the intensive care units at the University Health Network. Dr. Ori Rotstein, in addition to his duties as Division Head, remains Director of Research for the University Department of Surgery and Associate Director of the Institute of Medical
Science, at the same time as leading activities in his productive basic science laboratory.

Dr. Richard Reznick assumed the position of Vice-President of Education at the University Health Network, and continues to spearhead educational research at the Centre for Research in Education based at the Toronto General Hospital.

Division members have successfully captured grants from the National Cancer Institute of Canada, the Ministry of Health, the Physicians Services Incorporated Foundation, the Medical Research Council of Canada and industry.

**Neurosurgery**

The members of this outstanding Division continue to nurture their national and international reputations in clinical care and research. Foci of activity are in cerebrovascular disease, oncology, movement disorders, and spinal cord research. Dr. Mark Bernstein was recently reappointed as Division Head after a successful review, and Dr. Charles Tator completed his ten year term as Chair of Neurosurgery at the University of Toronto, a post assumed by Dr. Jim Rutka at The Hospital for Sick Children.

Seven of the nine neurosurgeons run basic science research laboratories, and are funded by research grants from the National Institutes of Health, the National Cancer Institute of Canada, the Medical Research Council of Canada, the Heart and Stroke Foundation, the Neurofibromatosis Society, the Ontario Neurotrauma Foundation, the Parkinson’s Foundation, the International Spinal Research Trust, the Medical Research Council of Canada Clinician Scientist Awards (three), the Ontario Ministry of Health Career Scientist Award and the Pencer Trust.

Current University Health Network neurosurgeons hold the Ricard Chair in Cerebrovascular Surgery (Dr. Chris Wallace); the Tasker Chair in Stereotactic and Functional Neurosurgery (Dr. Andres Lozano); the Robert O. Lawson Chair in Neural Repair and Regeneration (Dr. Michael Fehlings); and until June 30, 1999, the Dan Family Chair in Neurosurgery (Dr. Charles Tator).
Many local, national, and international prizes have been awarded to divisional members in the last year.

**Orthopaedic Surgery**

Orthopedic surgeons at the University Health Network continue their clinical activities and clinical research in joint arthroplasty and sports medicine. Dr. Nizar Mahomed is successfully carrying out his research program, and the Division remains a popular choice for medical students, residents, and clinical fellows in orthopaedics.

In addition to its other activities, the Division supports the development of an interdisciplinary spine program along with neurosurgery, and will collaborate with that division in the recruitment of spine surgeons in the near future. Funding for research comes from the Physicians Services Incorporated Foundation, the Arthritis Society, the Medical Research Council of Canada, the Canadian Orthopedic Foundation, the Agency for Health Care Policy and Research and industry.

**Plastic Surgery**

The members of the Division of Plastic Surgery made valuable contributions to the Head and Neck Program, the Hand Program, and the Healthy Connections Program at the Toronto Western Hospital site. Dr. Peter Neligan was appointed to the first Wharton Chair in Reconstructive Plastic Surgery. The Hand Program continues as a unique combination of plastic and orthopaedic surgeons to form an outstanding referral centre for a variety of clinical hand problems. In addition, the research interests of Dr. Herb von Schroeder in osteoblast biology and chondrogenesis complement the clinical activities.

Dr. Ralph Manktelow relocated his practice in facial nerve reconstruction to the Toronto General Hospital, and Dr. Brent Graham was subsequently appointed as the Interim Director of the Hand Program. Dr. Dimitri Anastakis continued his diverse efforts in hand surgery, educational research, and operational aspects of surgery at the Toronto Western Hospital.

Research funding was granted from the Medical Research Council of Canada, the Physicians Services Incorporated Foundation and industry.
Thoracic Surgery

The Division of Thoracic Surgery welcomes two new members, Drs. Gail Darling and Michael Johnston, as the two Divisions from the Toronto General and Mount Sinai Hospitals merged to form a six-member team. This year saw the retirement of Dr. Griff Pearson who has been instrumental in the birth and development of thoracic surgery as a separate specialty in North America.

The Lung Transplantation Program, along with innovations in lung volume reduction surgery, have combined to address the problem of advanced lung disease. The Transplantation Program continues to be very successful clinically, and the research work of Dr. Shaf Keshavjee has been recognized nationally and internationally.

The establishment of thoracic surgery as a viable section of the Department of Surgical Oncology at the Princess Margaret Hospital will be a significant step in enhancing treatment of thoracic malignancies. Three surgeons, Drs. Winton, Darling and Johnston have now moved their offices to the Princess Margaret Hospital.

Research funding has been awarded from the National Sanatorium Association, the Physicians Services Incorporated Foundation, the Canadian Cystic Fibrosis Foundation and industry.

Urology

The members of the Division of Urology continued to make important advances in clinical surgery and research, especially in the areas of oncology and transplantation. Dr. John Trachtenberg is holder of the Fleck/Tanenbaum Chair, and was also appointed as the first Director of the Prostate Centre at the Princess Margaret Hospital. Other important clinical areas include the neurogenic bladder and impotence, foci of interest for Drs. Magdy Hassouna and Sid Radomski respectively.

Research funding in the Division of Urology is currently held from the Medical Research Council of Canada, the Spinal Cord Research Foundation, the National Cancer Institute of Canada, the Canadian Uro-Oncology Group and industry.
Vascular Surgery

The members of the Division of Vascular Surgery are making significant contributions in clinical surgery, research and education. The Vascular Centre and participating surgeons serve those patients especially in need of complex vascular management. In addition, residents from a variety of the University of Toronto surgical programs receive outstanding practical training.

Advanced diagnostics in vascular disease, hemodynamics and atherosclerosis, clinical trials in surgical treatment of vascular disease, basic science involving the neutrophil-mediated cardiomyocyte cytotoxicity, and studies in ischemia/reperfusion injury all continue to be foci of important research work in the Division.

Dr. Barry Rubin received the Wylie Fellowship in academic vascular surgery, and the other members of the Division were honoured with a variety of invited visits and professorships.

Research funding was from the Heart and Stroke Foundation, the Medical Research Council of Canada, the Physicians Services Incorporated Foundation and industry.
DIVISION OF CARDIAC SURGERY

Dr. R.J. Baird - Professor
Dr. R.J. Cusimano - Assistant Professor
Dr. T.E. David — Professor (Division Head)
Dr. C.M. Feindel - Associate Professor
Dr. L.L. Mickleborough - Professor
Dr. C.M. Peniston - Assistant Professor
Dr. A.C. Ralph-Edwards - Lecturer
Dr. H.E. Scully - Professor
Dr. R.D. Weisel — Professor

PUBLICATIONS


**Scully HE:** President’s page: Access to cardiac resources in Canada: Who is responsible? Who is liable? Canadian Journal of Cardiology 1999 February: 15(2): pp 31-32.

**Scully HE:** President’s page: Who is responsible for access to cardiac resources in Canada? Canadian Journal of Cardiology 1999 January: 15(1): pp 1199.

**Scully HE:** President’s page: Ottawa in October: Successful annual general meeting. Canadian Journal of Cardiology 1998 December: 14(12): pp 1430-1440.


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

**David TE:** World Symposium on Heart Valve Disease, London, England, June 1999. Aortic valve surgery: Where we are and where we shall go?

**David TE:** Visiting Professor, King’s College Hospital, London, England, June 1999. Aortic valve replacement with stentless porcine bioprosthesis: Indications, techniques and long-term results.


**David TE:** American Association for Thoracic Surgery, New Orleans, Louisiana, April 1999. (1) Developing the academic surgeon - A symposium: Surgical innovation, (2) Controversies in cardiothoracic surgery debate: Aortic valve size makes a difference in early and late outcome (pro).

**David TE:** International Symposium on Redo Cardiac Surgery, New Orleans, Louisiana, April 1999. (1) Tricuspid valve repair and replacement, (2) Use of pulmonary autograft and homograft in redo cardiac surgery, (3) Factors influencing mortality and success of redo mitral surgery.

**David TE:** Brazilian Society of Cardiovascular Surgery, Fortaleza, Brazil, April 1999. (1) Functional anatomy of the aortic root, (2) Surgery for infective endocarditis.


**David TE:** Practice of Evidence-Based Cardiology for the Clinician Symposium, McMaster University, Hamilton, Ontario, February 1999. Established and new surgical approaches in valvular heart disease.

**David TE:** Society of Thoracic Surgeons, San Antonio, Texas, January 1999. Meet the experts session: Stentless or stented bioprosthesis?
**David TE:** Evolving Techniques and Technologies in Minimally Invasive Cardiac Surgery, San Antonio, Texas, January 1999. Aortic valve sparing techniques in the era of less invasive surgery: What’s new?

**David TE:** Cardiovascular Conference at Snowmass, American College of Cardiology, Snowmass, Colorado, January 1999. (1) Long-term observations on the Hancock II bioprosthesis, (2) Myocardial resection in cardiomyopathy, (3) Thoracic aneurysms.

**David TE:** New York Hospital/Cornell Medical Center, New York, New York, January 1999. A prospective randomized trial on St. Jude and Carbomedics valves.

**David TE:** DeBoer Lecturer, St. Francis Hospital, Chicago, Illinois, November 1998. New procedures to treat aortic valve disease.

**David TE:** Postgraduate Course in Cardiac Surgery, American College of Surgeons Clinical Congress, Orlando, Florida, October 1998. Stentless bioprosthetic aortic valves: Indications, techniques and results.

**David TE:** C. Walton and Richard Lillehei Surgical Society, Minneapolis, Minnesota, October 1998. Aortic valve replacement with the Toronto SPV bioprosthesis.

**David TE:** South Atlantic Cardiovascular Society, Hilton Head, South Carolina, August 1998. Aortic valve surgery.

**David TE:** Victor Chang Lecturer, Cardiac Society of Australia and New Zealand, Perth, Australia, August 1998. (1) Surgery for end-stage ischemic cardiomyopathy, (2) Mitral valve repair, (3) Aortic valve sparing operations in patients with aortic root aneurysm.

**Feindel CM:** Peak Performance XII, Medtronic, Lake Louise, Alberta, February 1999. Aortic valve sparing techniques in an era of less invasive surgery.


Mickleborough LL: McGill University, Montreal, Quebec, September 1998. Results of aortocoronary bypass grafting in men versus women.


Scully HE: Canadian Medical Association, Hamilton, Ontario, April 1999. Public versus private health care: Where do we draw the line?
Scully HE: Canadian Institute, Toronto, Ontario, April 1999. Reducing the risk of medical malpractice in a changing health care environment.


Weisel RD: International Society for Heart and Lung Transplantation, San Francisco, California, April 1999. Cell transplantation to restore cardiac function and rebuild the heart.


**Weisel RD:** New Era Cardiac Care: Innovation and Technology, Scottsdale, Arizona, January 1999. Cardiac restoration by cell transplantation.

**Weisel RD:** Cardiac Surgery in the 90’s, St. Thomas, Virgin Islands, November 1998. (1) Enhanced cardioplegia, (2) Feasibility of myocyte transplantation.

**Weisel RD:** Visiting Professor, Jefferson Medical School, Philadelphia, Pennsylvania, September 1998. Cardiomyocyte transplantation to restore function after a myocardial infarction.

### RESEARCH AND INVESTIGATIONS

**Senior Investigator’s Name Appears in Italics**


Insulin cardioplegia for poor left ventricular function. *Yau TM, Weisel RD:* Heart and Stroke Foundation ($69,600 1999).


**DIVISION OF GENERAL SURGERY**

Dr. R.A. Affifi - Lecturer  
Dr. U. Ambus - Associate Professor  
Dr. M.S. Cattral - Assistant Professor  
Dr. L. Chaikof - Instructor  
Dr. P.D. Greig - Professor  
Dr. A.W. Hemming - Assistant Professor  
Dr. H.S. Himal - Associate Professor  
Dr. B. Langer - Professor  
Dr. J.C. Marshall - Associate Professor  
Dr. R.E. Mathews - Assistant Professor  
Dr. D.R. McCready - Associate Professor  
Dr. R.K. Reznick - Professor  
Dr. L.E. Rotstein - Associate Professor  
Dr. O.D. Rotstein - Professor *(Division Head)*  
Dr. B.R. Taylor - Professor  
Dr. H.A.E. Weizel - Associate Professor

**PUBLICATIONS**


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Marshall JC: Critical Care Advisory, Key West, Florida, March 1999. Do transfusions kill?


Marshall JC: APICE/Organ Failure Academy, Trieste, Italy, November 1998. (1) Neutrophil apoptosis and the resolution of systemic inflammation, (2) Does the MOD score help the doctor, the patient, or both?, (3) Rapid assay of endotoxin in the ICU.

Marshall JC: Toronto Critical Care Medicine Symposium, Toronto, Ontario, October 1998. (1) Introductory address workshop: Creating a culture of clinical research, (2) Re-thinking the entry criteria for sepsis trials, (3) Can we stage systemic inflammation?


Marshall JC: Visiting Professor, McMaster University, Hamilton, Ontario, October 1998. From concepts to syndromes to diseases: The challenges of sepsis research.


Reznick RK: Surgeons as Educators Course, American College of Surgeons, Atlanta, Georgia, November 1998. Sessions on measurement, testing and medical student/resident failure.


Reznick RK: Fred MacLeod Lecturer, Canadian Association of Pediatric Surgeons, Toronto, Ontario, September 1998. Skills commensurate with level of training.

Reznick RK: University of California at Los Angeles, Los Angeles, California, September 1998. Evaluation of faculty and residents.

Reznick RK: Surgeons as Educators Course, Royal Australasian College of Surgeons, Melbourne, Australia, July 1998. Sessions on measurement, testing and medical student/resident failure.


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


A randomized controlled trial to assess the need for breast radiation in addition to tamoxifen in women 50 years of age and over with node negative breast cancer. Fyles AW, Manchul LA, McCready DR, Trudeau ME: Ministry of Health ($66,324 1997 - 1999).


HONOURS RECEIVED

Greig PD: Outstanding Lecturer, Principles of Surgery Series, Department of Surgery, University of Toronto, May 1999.

Langer B: Elected First Vice-President, American Surgical Association, April 1999.

Marshall JC: Lister Prize, Department of Surgery, University of Toronto, May 1999.

Reznick RK: Distinguished Contribution to Medical Education Award, Canadian Association of Medical Education, February 1999.

Rotstein OD: Anderson Award for Excellence in Education Administration, University of Toronto, July 1998.

DIVISION OF NEUROSURGERY

Dr. M.A. Bernstein - Professor (Division Head)
Dr. M.G. Fehlings - Associate Professor
Dr. J.F.R. Fleming - Professor
Dr. F. Gentili - Associate Professor
Dr. A. Guha - Associate Professor
Dr. A.M. Lozano — Associate Professor
Dr. C.H. Tator - Professor
Dr. M. Tymianski - Assistant Professor
Dr. M.C. Wallace - Associate Professor

PUBLICATIONS


**Feldkamp M, Lau N, Rak J, Kerbel R, Guha A:** Astrocytoma cell lines express high levels of vascular endothelial growth factor (VEGF) which is reduced by inhibition of the ras signalling pathway. International Journal of Cancer 1999 April: 81: pp 118-124.


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Fehlings MG: Visiting Professor, Loyola University Medical Center, Chicago, Illinois, January 1999. (1) Reconstruction of the craniocervical junction, (2) Course: Craniocervical fixation techniques.


Guha A: Visiting Professor, University of Buffalo, Buffalo, New York, April 1999. Management of peripheral nerve tumors.


Lozano AM: Visiting Professor, University of Vienna, Vienna, Austria, November 1998. Surgery for dystonia.


Lozano AM: Keynote Speaker, Parkinson’s Foundation of Canada, Quebec City, Quebec, October 1998. Surgery for Parkinson’s disease.

Lozano AM: International Basal Ganglia Society, Brewster, Massachusetts, October 1998. The direct and indirect pathways in the basal ganglia.


Lozano AM: Cleveland Clinic Foundation, Cleveland, Ohio, September 1998. Surgery for Parkinson’s disease.


Tator CH: American Association of Neurological Surgeons, New Orleans, Louisiana, April 1999. (1) Calcium influx is required to initiate regrowth after neurite transection, (2) Neuronal death after neurite transection is independent of calcium influx.

Tator CH: Wayne State University, Detroit, Michigan, November 1998. Acute management of athletic head injury.

**Tator CH:** French Institute on Spinal Cord Research, Deauville, France, October 1998. (1) Anatomical assessment of acute spinal cord injury in the acute, subacute and chronic stages, (2) Results of clinical trials of neuroprotection for acute spinal cord injury.


### RESEARCH AND INVESTIGATIONS

*Senior Investigator’s Name Appears in Italics*


HONOURS RECEIVED

Fehlings MG: Robert O. Lawson Chair in Neural Repair and Regeneration, University of Toronto, May 1999.


DIVISION OF ORTHOPAEDIC SURGERY

Dr. J.R. Davey - Assistant Professor (Division Head)
Dr. B.A. Graham - Assistant Professor
Dr. J.D. Graham - Assistant Professor
Dr. G.J. Lloyd - Associate Professor
Dr. N.N. Mahomed - Assistant Professor
Dr. K.W. Marshall - Assistant Professor
Dr. A. Miniaci - Associate Professor
Dr. D.J. Ogilvie-Harris - Associate Professor
Dr. H.P. von Schroeder — Assistant Professor
Dr. T.A. Wright - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Davey JR: Intercontinental Cemented Total Hip Symposium, Copenhagen, Denmark, October 1998. (1) Femoral offset, (2) Acetabular rings, (3) Dislocation following total hip arthroplasty.


Miniaci A: American Shoulder and Elbow Surgeons, Anaheim, California, February 1999. MRI’s in athletes: Are they ever normal?


Miniaci A: Princess Margaret Rose Hospital, Edinburgh, Scotland, September 1998. (1) Arthroscopic rotator cuff repairs, (2) Shoulder instability repair: Arthroscopic or open.
Miniaci A: Trauma Course, University of Montreal/Sacre-Coeur Hospital, Mont Tremblant, Quebec, August 1998. (1) Rotator cuff: Current concepts, (2) Shoulder instability, (3) Small group sessions: Difficult shoulder problems.

Ogilvie-Harris DJ: Visiting Professor, University of Hong Kong/Hong Kong Orthopaedic Association, Hong Kong, China, November 1998.

Ogilvie-Harris DJ: Visiting Professor, University of Singapore, Singapore, Malaysia, September 1998.

RESEARCH AND INVESTIGATIONS


**HONOURS RECEIVED**

**Mahomed NN:** Canadian Orthopaedic Research and Education Young Investigator Award, June 1999.

**von Schroeder HP:** Roscoe Reid Graham Scholarship, Department of Surgery, University of Toronto, September 1998.
DIVISION OF PLASTIC SURGERY

Dr. D.J. Anastakis - Assistant Professor
Dr. T.A.B. Bell - Lecturer
Dr. A. Freiberg - Professor
Dr. B.A. Graham - Assistant Professor
Dr. R.T. Manktelow - Professor
Dr. P.C. Neligan - Associate Professor (Division Head)
Dr. H.P. von Schroeder - Assistant Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Neligan PC: Facial Plastic Surgery, Palm Desert, California, April 1999. (1) Reconstruction of the total lower lip defect with the radial forearm free flap, (2) Myocutaneous flap following parotidectomy.


RESEARCH AND INVESTIGATIONS


HONOURS RECEIVED

von Schroeder HP: Roscoe Reid Graham Scholarship, Department of Surgery, University of Toronto, September 1998.

DIVISION OF THORACIC SURGERY

Dr. G.E. Darling - Assistant Professor  
Dr. M.R. Johnston - Associate Professor  
Dr. S.H. Keshavjee - Assistant Professor  
Dr. M.F. McKneally - Professor  
Dr. T.R.J. Todd - Professor (Division Head)  
Dr. T.L. Winton - Assistant Professor

PUBLICATIONS


**Annual Report**


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


**Todd TRJ:** Controversies in Cardiothoracic Surgery, Hong Kong, China, November 1998. (1) Transcervical thymectomy, (2) Patient selection for lung volume reduction surgery, (3) Debate: Metastatic lung disease: Median sternotomy or VATS?


**Todd TRJ:** Tri-State Consecutive Case Conference on Lung Disease, Amelia Island, Florida, September 1998. Pulmonary transplantation: Where we have come from and where we should be going.

**Todd TRJ:** Canadian Association of Thoracic Surgery, Montreal, Quebec, August 1998. Surgery for diffuse emphysema.

**Winton TL:** National Cancer Institute of Canada, Toronto, Ontario, April 1999. Non-small cell lung cancer - BR.10: Adjuvant navelbine/cisplatin in stage I-II NSCLC.

**Winton TL:** Symposium on Non-Small Cell Lung Cancer Stage III, Montreal, Quebec, October 1998. Surgical considerations in the management of non-small cell lung cancer.

**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*


**HONOURS RECEIVED**

*Keshavjee SH*: George Armstrong-Peters Prize, Department of Surgery, University of Toronto, May 1999.
DIVISION OF UROLOGY

Dr. G.A. Farrow - Assistant Professor
Dr. M.M. Hassouna — Associate Professor
Dr. M.A.S. Jewett - Professor (Division Head)
Dr. S.B. Radomski — Assistant Professor
Dr. M. Robinette - Associate Professor
Dr. R.J. Stewart - Assistant Professor
Dr. J.Trachtenberg - Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Jewett MAS: British Association of Urological Surgeons/Royal College of Physicians and Surgeons of Scotland, Edinburgh, Scotland, October 1998. (1) Surgery versus surveillance for teratoma of the testis: RPLND should be performed routinely in stage one teratomas, (2) Chemotherapy for testicular cancer.


**Trachtenberg J:** Kaiser Permanente, Monterey, California, December 1998. Transperineal microwave thermoablation of prostate cancer.


**Trachtenberg J:** CaPCure, Lake Tahoe, Nevada, September 1998. Advanced prostate cancer.


**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*

A clinical evaluation of the SPOT nerve stimulator for use during radical prostatectomy. **Jewett MAS:** Uromed ($40,000 1997 - 1999).


Effects of 5 alpha reductase on prostate cancer: Histopathological correlates. **Trachtenberg J:** Glaxo Pharmaceuticals ($22,000 1998 - 1999).

Effects of an endothelin inhibitor on hormone refractory prostate cancer. **Trachtenberg J:** Abbott Laboratories ($15,000 1998 - 1999).


Immunocyt TM1 preliminary study (alpha testing). **Jewett MAS:** DiagnoCure ($10,000 1997 - 1998).


Randomized controlled study of neoadjuvant reversible androgen withdrawal therapy in the surgical management of localized prostate cancer. *Jewett M.A.S.* Canadian Uro-Oncology Group ($64,000 1993 - 2001).

Randomized controlled study of three versus eight month neoadjuvant hormone therapy prior to prostatectomy in localized prostate cancer. *Jewett M.A.S.* Canadian Uro-Oncology Group ($33,000 1996 - 2000).
DIVISION OF VASCULAR SURGERY

Dr. K.W. Johnston - Professor (Division Head)
Dr. P.G. Kalman - Associate Professor
Dr. T.F. Lindsay - Assistant Professor
Dr. B.B. Rubin - Assistant Professor
Dr. P.M. Walker - Professor

PUBLICATIONS


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES

Johnston KW: Boston University School of Medicine, Boston, Massachusetts, May 1999. Issues in the management of aortic aneurysms in a changing health care environment.


Johnston KW: West Virginia University, Charleston, West Virginia, November 1998. Social, ethical and financial issues related to surgical management.


Kalman PG: Hungarian Medical Association of America, Sarasota, Florida, October 1998. Aortoiliac occlusive disease: What lesions should be ballooned, stented or operated on?


RESEARCH AND INVESTIGATIONS


The role of phospholipase A2 in neutrophil activation during myocardial ischemia. *Rubin BB*: Heart and Stroke Foundation ($114,000 1997 - 1999).

**HONOURS RECEIVED**

DIVISION OF BIOMEDICAL COMMUNICATIONS

D. Aldrich - Assistant Professor
K. Brine - Assistant Professor
K. Chorney - Lecturer
S. Gilbert - Professor Emeritus
C. Godkin — Assistant Professor
I. Healey — Lecturer
J. Jenkinson - Lecturer
N. Joy - Professor Emeritus
L. Lax - Assistant Professor
M. Mackay - Associate Professor
L. Magdenko - Lecturer
D. Mazierski - Assistant Professor
S. Nancekivell - Assistant Professor
P. Reid - Lecturer
Dr. J. Semple - Associate Professor
Dr. S. Tulk - Assistant Professor
T. Watkinson - Assistant Professor
Dr. L. Wilson-Pauwels - Associate Professor (Division Head)
N. Woolridge - Assistant Professor

AUTHORSHIP (Textbooks, Journals, Theses or Papers)


Godkin C: Sea Otter Inlet Information Guide. Fitzhenry & Whiteside, Toronto, 1999 (illustrated by Godkin C).


TEXTBOOK ILLUSTRATIONS


JOURNAL ILLUSTRATIONS


**PHARMACEUTICAL ILLUSTRATIONS**

Boehringer Ingelheim: Understanding chronic obstructive pulmonary disease. 1999 (four illustrations by Chorney K).


Pharmacia and Upjohn: Colorectal cancer. 1999 (eight illustrations by Chorney K).


Roberts Pharmaceuticals: Autonomic nervous system. 1998 (seven illustrations by Chorney K).

SmithKline Beecham Pharmaceuticals: The respiratory tract. 1999 (nine illustrations by Chorney K).


MEDICAL LEGAL ILLUSTRATIONS (storyboard and digital output)


MULTIMEDIA/HYPERMEDIA

New Media Design


Feature Film Storyboards


Television Storyboards


HEALTH COMMUNICATIONS


INVITED LECTURES


**Godkin C**: Toronto Board of Education, Toronto, Ontario, April 1999. Teaching ecology in the schools as part of the language arts curriculum.

**Mackay MB**: Visiting Professor, Cleveland Institute of Art, Cleveland, Ohio, January 1999. Introduction to surgical illustration.

Nancekivell S: Association of Medical Illustrators, Toronto, Ontario, July 1998. Yes, I'd like to publish, but

RESEARCH AND INVESTIGATIONS
Senior Investigator's Name Appears in Italics


HONOURS AND AWARDS


Lax L: Certificate of Appreciation for Excellence in Teaching, Division of Biomedical Communications, University of Toronto, May 1999.
RESEARCH

Dr. C.E. Bayliss - Professor
Dr. L. Burrows - Assistant Professor
Dr. D.W. Courtman - Assistant Professor
Dr. K.D. Davis - Assistant Professor
Dr. J.H. Eubanks - Assistant Professor
Dr. L.G. Farkas - Associate Professor
Dr. G.R. Fernie - Professor
Dr. R.M. Gorczynski - Professor
Dr. S.J. Hamstra — Assistant Professor
Dr. P. Holliday - Research Associate
Dr. D.A. Houlden - Assistant Professor
Dr. W.D. Hutchison - Assistant Professor
Dr. A. Kapus - Assistant Professor
Dr. R.-K. Li - Associate Professor
Dr. M. Liu - Assistant Professor
Dr. G.L. Lukacs - Assistant Professor
Dr. B.E. Maki - Associate Professor
Dr. M.W. Mittelman — Associate Professor
Dr. C.Y. Pang - Professor
Dr. R. Rameseshan - Lecturer
Dr. J.S. Sandhu - Assistant Professor
Dr. G.A. Tait - Assistant Professor
Dr. E. Theriault - Assistant Professor
Dr. J.A. Wade - Professor
Dr. C. Wittnich - Associate Professor

PUBLICATIONS


**Francis J, Zhang Y, Ho W, Wallace MC, Zhang L, Eubanks JH:** Decreased hippocampal expression, but not functionality, of GABA(B) receptors after transient cerebral ischemia in rats. Journal of Neurochemistry 1999 January: 72: pp 87-94.


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


Davis KD: Queen’s University, Kingston, Ontario, October 1998. Old and new approaches to imaging pain with functional MRI.

Hamstra SJ: Association for Surgical Education, Boston, Massachusetts, April 1999. A successful surgical skills program: Let’s get started.


Li R-K: American Heart Association, Dallas, Texas, November 1998. Surgical angiogenesis with cell transplantation.


**Annual Report**

**Wittnich C:** Heart and Stroke Foundation, Meaford, Ontario, May 1999. Heart smart women.

**Wittnich C:** Heart and Stroke Foundation, Owen Sound, Ontario, November 1998. Women and heart disease in 1998: Should you be concerned?


**RESEARCH AND INVESTIGATIONS**

*Senior Investigator’s Name Appears in Italics*


Creation of viable graft material through tissue engineering for congenital heart surgery. *Li R-K*: The Hospital for Sick Children Foundation ($130,000 1998 - 2000).


Improvement of failing heart function by transplanting cardiomyocytes into myocardial scar tissue. *Li R-K*: Medical Research Council of Canada ($213,000 1996 - 1999).


The relevance of muscarinic receptors in global ischemia induced delayed neuronal death. Eubanks JH, Zhang L: Heart and Stroke Foundation ($102,535 1999).


The role of tensile mechanics and the extrinsic pathway of coagulation in vascular anastomotic remodelling. Courtman DW: St. Michael’s Hospital ($10,000 1998 - 1999).


**HONOURS RECEIVED**

*Maki BE:* Senior Scientist Career Award, Medical Research Council of Canada, February 1999.
EMERGENCY MEDICINE

Dr. P. Arnold — Instructor  
(University Health Network)  
Dr. J.C. Fallis - Assistant Professor  
(The Hospital for Sick Children)  
Dr. L. Fulton - Lecturer  
(Sunnybrook and Women's College Health Sciences Centre)  
Dr. B.A. McLellan — Associate Professor  
(Sunnybrook and Women's College Health Sciences Centre)  
Dr. S. Reicheld - Instructor  
(University Health Network)  
Dr. D.W. Saslove - Instructor  
(St. Michael’s Hospital)  
Dr. D. Williams - Assistant Professor  
(Sunnybrook and Women’s College Health Sciences Centre)  

PUBLICATIONS

Boulanger BR, Kirkpatrick A, McLellan BA, Brenneman FD:  


INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


RESEARCH AND INVESTIGATIONS

Senior Investigator’s Name Appears in Italics


CROSS APPOINTMENTS

Dr. A.J. Baker - Assistant Professor (Anesthesia)
Dr. B.V. Bapat - Assistant Professor
(Laboratory Medicine and Pathobiology)
Dr. P. Birek — Associate Professor (Dentistry)
Dr. A.D.H. Campbell - Assistant Professor (Medicine)
Dr. J. Carson - (Family and Community Medicine)
Dr. A. Damyanovich - Assistant Professor (Medical Imaging)
Dr. J.E. Davies - Associate Professor (Dentistry)
Dr. A. Davis - Assistant Professor (Physical Therapy)
Dr. W. Demajo - Assistant Professor (Anesthesia)
Dr. M. Dennis - Associate Professor (Public Health Sciences)
Dr. D. DePettrillo - Professor (Obstetrics and Gynaecology)
Dr. F. DiCosmo - Associate Professor (Botany)
Dr. R.J. Eby - Lecturer (Medicine)
Dr. V.L. Fornasier - Associate Professor
(Laboratory Medicine and Pathobiology)
Dr. R. Gilbert - Assistant Professor (Otolaryngology)
Dr. M. Greenberg - Associate Professor (Pediatrics)
Dr. M.D. Grynpas - Associate Professor
(Laboratory Medicine and Pathobiology)
Dr. P.J. Gullane - Professor (Otolaryngology)
Dr. B. Harvey - Assistant Professor (Public Health Sciences)
Dr. G. Jackowski - Assistant Professor
(Laboratory Medicine and Pathobiology)
Dr. M.G. Johnston - Associate Professor
(Laboratory Medicine and Pathobiology)
Dr. W. Kucharczyk - Professor (Medical Imaging)
Dr. G.A. Levy - Professor (Medicine)
Dr. A. McDonald - Assistant Professor (Medicine)
Dr. D.A.G. Mickle - Professor
(Laboratory Medicine and Pathobiology)
Dr. M. Milner - Professor (Rehabilitation Science)
Dr. W. Montanera - Assistant Professor (Medical Imaging)
Dr. S. Narod - Associate Professor
(Public Health Sciences)
Dr. C.D. Naylor - Associate Professor (Medicine)
Dr. M. Ojha - Assistant Professor 
(Rehabilitation Science)
Dr. K.P.H. Pritzker - Professor 
(Laboratory Medicine and Pathobiology)
Dr. G. Regehr - Assistant Professor (Psychiatry)
Dr. P. Ritvo - (Public Health Sciences)
Dr. A. Romaschin - Associate Professor 
(Laboratory Medicine and Pathobiology)
Dr. A.S. Slutsky - Professor (Medicine)
Dr. B. Steinhart - Instructor (Medicine)
Dr. D. Stewart - Professor (Psychiatry)
Dr. K. terBrugge - Professor (Medical Imaging)
Dr. R. Willinsky - Associate Professor (Medical Imaging)
Dr. G.J. Wilson - Professor 
(Laboratory Medicine and Pathobiology)
Dr. T. Wu - Professor 
(Laboratory Medicine and Pathobiology)

PUBLICATIONS


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INVITED VISITS TO OTHER HOSPITALS/UNIVERSITIES


**Grynpas MD:** International Course on Osteoporosis: Fractures, Back Pain and Disability Management, Vienna, Austria, June 1999. The effects of trace elements on bone mineralization, architecture and mechanical properties.


**Gullane PJ:** American Head and Neck Society, Palm Desert, California, April 1999. Restoration of facial contour with sternocleidomastoid myogenous flap following parotidectomy.


**Gullane PJ:** Bionix Laboratories, Atlanta, Georgia, August 1998. (1) Invited guest, (2) Panelist: Role of bioabsorbable plates.


**Kucharczyk W:** CIP Steering Committee, Leipzig, Germany, May 1999. Interventional procedures on a vertical 0.2 Tesla MRI system.


**Kucharczyk W:** International MRI Symposium, Garmisch, Germany, January 1999. (1) MRI-guided endoscopic pituitary surgery, (2) MRI of the pituitary gland and parasellar region.


Milner M: Jockey Club Rehabilitation Engineering Centre/Hong Kong Polytechnic University, Hong Kong, China, August 1998. Technology transfer issues.


Naylor CD: Hong Kong Hospital Authority, Hong Kong, China, April 1999. (1) Needs-based cardiovascular service planning in Ontario, (2) Trouble in paradise: Restructuring health care in Ontario.

Naylor CD: Distinguished Leaders in Medicine Lecturer, Dalhousie University, Halifax, Nova Scotia, December 1998. What is appropriate care?


Naylor CD: Surgical Outcomes Research Retreat, McMaster University, Oakville, Ontario, November 1998. (1) Opportunities and pitfalls in surgical outcomes research, (2) Panel: Report cards for hospitals and surgeons, (3) Surviving amidst scarcity: Informal reflections on funding clinical and health services research.


Pritzker KPH: University of Tokyo, Tokyo, Japan, March 1999. Cartilage repair and regeneration: Recent advances.


Pritzker KPH: Chiron Technologies Incorporated, Emeryville, California, October 1998. rhIGF-1 effects on articular cartilage histology.

Regehr G: University of California San Francisco, San Francisco, California, September 1998. (1) A structured model for effective feedback, (2) Formalizing the testing and training of technical skills: Five years of research.


Slutsky AS: Cleveland Clinic Foundation, Cleveland, Ohio, August 1998. Mechanical ventilation: The good, the bad, and the ugly.

Stuart AS: El mundo de la genómica: Aplicaciones médicas e implicaciones sociales, Santander, Spain, August 1998. (1) From Napoleon to Toronto, (2) The search for asthma genes.

Stewart DE: LCDC Workshop, Ottawa, Ontario, June 1999. What are the priorities in women’s health surveillance?


Stewart DE: Expert Workshop on Violence, Center for Disease Control, Atlanta, Georgia, June 1999. Field trials of the alpha project.


Stewart DE: Tulane University School of Medicine, New Orleans, Louisiana, April 1999. Women and ischemic heart disease.


Stewart DE: World Psychiatric Association, Granada, Spain, March 1999. Reproductive issues in the community care of women with schizophrenia.


Stewart DE: Heinz Lehmann Lecturer, McGill University, Montreal, Quebec, November 1998. The role of psychiatry in women’s health research.


Stewart DE: Distinguished Member Lecturer, Canadian Psychiatric Association, Halifax, Nova Scotia, September 1998. What do women really want?


Stewart DE: St. Paul Hospital, Vancouver, British Columbia, August 1998. Broken hearts: Gender, depression and ischemic heart disease.

terBrugge KG: Visiting Professor, Xian, China, July 1998. (1) Brain AVM, (2) Dural AVM, (3) Spinal AVM, (4) Head and neck vascular disorders, (5) Acute CVA.


Willinsky R: Harvard Medical School, Boston, Massachusetts, June 1999. (1) Vessel artery dissection and pseudoaneurysm: Endovascular approaches, (2) Small AVM’s role of embolization.


RESEARCH AND INVESTIGATIONS
Senior Investigator’s Name Appears in Italics


IL-1 signalling and focal adhesions. *Cruz T, Pritzker KPH, McCullogh CAG, Kandel R*: Medical Research Council of Canada ($121,302 1995 - 1998).


Rural family doctor use of cancer screening. Stewart DE: Cancer Care Ontario ($2,000 1998 - 1999).


HONOURS RECEIVED

Regehr G: Young Educators Award, Association of Canadian Medical Colleges, May 1999.