Faculty of Dentistry 2012 Annual Report

FACULTY OF DENTISTRY 2012 ANNUAL REPORT

INTRODUCTION

The Faculty of Dentistry of McGill University is a small Faculty but one which is very active in all three areas of the University’s Mission. In terms of full-time equivalents (FTEs), the Faculty has 19 tenured/tenure-track academic staff, 10.3 Contract Academic Staff working 1 day per week or more (see appended document “Dentistry academic staff numbers (June 2013)”), 57 non-academic staff, plus another approximately 150 Faculty Lecturers working less than 0.5 days per week as supervisors in the undergraduate and residency teaching clinics and preclinical simulation laboratory. We have 141 undergraduate dental students, 31 clinical residents and fellows, 65 research graduate students and 6 postdoctoral research fellows. The Faculty currently uses approximately 11,500 net sq. ft. teaching space, 5,500 net sq. ft. research laboratory space, and 21,500 net sq. ft. office space.

The Faculty's teaching programs include an undergraduate DMD and pre-Dent program (although students for this program are registered in the Faculty of Science), and the following graduate programs: Thesis MSc in Dental Sciences; Non-thesis MSc in Dental Sciences; PhD in Craniofacial Health Sciences; Certificate in General Practice Residency (GPR); and Certificate in Oral and Maxillofacial Surgery (OMFS). The Faculty also has a Continuing Education program recognized (for credits) by Canadian and American dental professional licensing bodies.

The Faculty’s research programs are concentrated in the following four fields, with each having a critical mass of researchers and proven research excellence: i) Pain and the Neurosciences; ii) Mineralized Tissues and Extracellular Matrix Biology; iii) Biomaterials, Nano-biotechnology and Tissue Engineering; and iv) Clinical & Health Services Research.

The Faculty’s service to the community is fulfilled through a variety of services that combine in particular teaching with service and, from time-to-time, research is added to these programs: i) Mobile Dentistry Outreach Program; ii) Community Health Education and Promotion Program; iii) Pediatric Dental Clinic; iv) Summer Clinic; v) Jim Lund Clinic at Welcome Hall Mission; vi) the Main Undergraduate (DMD) Dental Clinic at the Montreal General Hospital; and vii) The GPR and OMFS Program Clinics.

In evaluating the work of the Faculty, we would say that although our size limits the fields in which we can work and the extent to which we can work in those areas, we perform very strongly in all the above-mentioned research, teaching and community out-reach programs (see below and appended documents for details). Taking a critical look at the work of the Faculty however, there are some areas where we need to improve (in no particular order of priority): i) the creation of a better-structured PhD program; ii) the consolidation and further development of our research teams; iii) leadership in major team and group grants; iv) leadership and faculty renewal within the whole Faculty; v) the integration of research with clinical training; and vi) renewal of the Faculty’s physical infrastructure which is currently inadequate. Stronger conclusions concerning the quality of work of the Faculty will be possible upon
receipt of the latest cyclic academic review of the Faculty performed during the spring of 2013. The academic review report is imminent.

Finally, it is important to note that the Faculty is highly integrated with the work of the University and collaborates strongly with a number of other units. Probably as a result of the small size of the Faculty, staff performing work requiring a team approach have to look beyond Faculty colleagues to other academic units in other Faculties at McGill. Indeed, this necessity has subsequently become a strong part of the way the Faculty works and has brought considerable success in a variety of elements of the work we do, e.g. creating and managing a multidisciplinary, multi-Faculty Centre for Research on Pain and Centre for Bone and Periodontal Research, completely integrating DMD and MD students during the first 16 months of their program, and developing a multi-Faculty Interdisciplinary Health PhD program.

**RESEARCH & PUBLICATIONS**

In terms of research, compared to our Canadian peer institutions, according to the data we have available (at present there is no formal data collection and institutional comparison process for dental schools either in Canada or internationally), we can claim to have the highest per capita rates of research operating funding, salary support awards, CFI and other infrastructure awards and the highest numbers of research graduate students on both a per-tenured/tenure-track professor basis and also in many cases in terms of absolute numbers. The latter comparison on the basis of absolute numbers is remarkable given that we are one of the smallest dental faculties in Canada and certainly smaller than our main competitors in research.

Data concerning peer-reviewed publications and abstracts, research operating grants and CFI awards are available in appended documents (2012 Dentistry publications and abstracts; and 2012 Dentistry research grants). Overall research funding figures are shown in the following graphic:
The highlights are as follows:

- Among our 19 FTE (24 individual professors) tenure-track/tenured professors, we have the following salary support awards:
  - 3 Tier 1 CRCs
  - 4 Tier 2 CRCs
  - 1 CIHR/Industry salary award
  - 1 CIHR New Investigator award
  - 7 FRSQ chercheur-boursier awards
  - 1 James McGill and 1 William Dawson awards

- These 24 professors published 118 peer-reviewed journal articles and 134 peer-reviewed conference abstracts in 2012.

In addition, the following significant presentations were made by members of the Faculty:

- **Jake Barralet**
  - 21 October, Bioceramics 24, **KEYNOTE** Bone Guidance with Microporous Cement-Derived Ceramics Fukuoka, Japan.
  - 1-5th June 2012, Bioinorganics, **KEYNOTE** World Biomaterials Congress, Chengdu, China

- **Fernando Cervero**
  - Invited keynote speaker at the 21st Congress of the Andalusian Pain Society. Malaga (Spain)
  - Invited keynote speaker at the 1st International Congress of the Bolivian Pain Society. La Paz (Bolivia).

- **Mary Ellen Macdonald**
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- Keynote Presentation: “Setting Sail: Establishing your Career after Graduation.” 18th Qualitative Health Research Conference, Montreal, QC, Montreal, QC. 2012, October

- **Marc McKee**
  - International Association for Dental Research Annual Meeting, Session Chair for *Keynote Address and Current Topics in Bone Research*, Iguacu Falls, Brazil. June, 2012

- **Monzur Murshed**
  - Meeting of the *La Société Française de Biologie des Tissus Minéralisés*, Genetic Regulation of Tissue Mineralization, 2012, Bordeaux, France (Plenary Lecture).

- **Belinda Nicolau**

**TEACHING & LEARNING**

Data for student enrolment are shown in the appended document (Dentistry academic accreditation admissions). Our professional programs (DMD GPR and OMFS programs) remain stable in terms of enrolment numbers, as they will for the foreseeable future. This is a product of physical space and number of professors required to teach these professional students. With respect to graduate student numbers however, in 2012, the Faculty's graduate student enrolment figure continued to rise as it has done in the previous 7-8 years:

![Number Enrolled Chart]

During 2012 our GPR program had its routine 7-year accreditation visit and came through with a very positive report and very few revisions to the program required.

**IN VolVEMENT IN THE COMMUNITY**

The community outreach activities outlined in the introductory section are excellent testament to the service we provide to particularly various under-privileged communities in Montreal. These out-reach
activities are set up to integrate teaching and learning opportunities for trainees at different levels, with dental services for various under-privileged groups throughout the city. Furthermore, the fact that the majority of these programs are paid through charitable support only also speaks strongly to the Faculty’s capacity to fund-raise for these services and to maintain this level of support over a number of years. Comparing our community services with other dental schools across Canada is difficult given the lack of data on the various programs, but we have every reason to believe that we are among the leaders in this field, given that we regularly have visits from other schools to learn about our work and that the aforementioned accreditation processes have complimented our community activities.

Details of the Faculty’s outreach activities can be found in the appended document (Outreach Annual Report 2011-12 Final). Highlights include:

- During 2011-12 academic year, as part of our mobile dental clinic, we had 18 evening clinics at 10 sites, seeing 317 patients and providing $89,676 worth of free dental care, including 28 patients receiving $15,070 worth of “extended care” (i.e. care that is too complex to provide in a mobile clinic setting and so patients are referred to our main undergraduate teaching clinic at the MGH, where care is provided free using the donations provided for that outreach clinic).
- During 2011-12 academic year, at the Jim Lund Clinic at Welcome Hall Mission, we saw 581 patients and provided $233,524 worth of free dental care.
- During 2011-12 academic year, at the refugee and immigrant clinic at the Montreal Children’s Hospital, our students saw 560 patients and provide $95,540 worth of free dental care to young children who are not covered by RAMQ, and who fall through the net supposedly provided by provincial and federal government programs.

**MILESTONES**

During 2012, the Faculty saw the following significant milestones:

- we unfortunately saw the resignation of one of our top pain-related researchers, Dr. Cathy Bushnell, who went to a position as Director of a new unit at NIH;
- we hired one new full time tenure-track professor – Dr. Richard Hovey – in the field of health services research
- we participated in a successful phase 1 CERC application and initiate the phase 2 process

**HONOURS, AWARDS & PRIZES**

The following awards were received in 2012 by members of the Faculty:

- **Paul Allison** – Prix Micheline Blaine, Le prix est décerné annuellement par le Réseau de recherche en santé buccodentaire et osseuse (RSBO) pour la contribution exceptionnelle d'un scientifique, d'un clinicien ou d'un gestionnaire à l'évolution de la santé buccodentaire par la qualité de son travail, de sa vision ou de son influence.
- **Jake Barralet** - Member of Board of Directors of Canadian Society for Pharmaceutical Sciences, (2012-2015)
• **Veronique Benhamou** - Fellowship in the International Academy for Dental-Facial Esthetics

• **John Blomfield** - Life Membership Award 2012: The Association of Prosthodontists of Canada

• **Fernando Cervero**
  - Doctor Honoris Causa (Honorary Doctorate), University of Cádiz (Spain)
  - Doctor Honoris Causa (Honorary Doctorate), University Rey Juan Carlos (Spain)
  - President, International Association for the Study of Pain (IASP)
  - Professional Achievement Award from the Spanish Pain Society

• **Faleh Tamimi** - VITA Research Award for excellence in research related to color and appearance in esthetic dentistry. The 4th Annual Conference of the Society for Color and Appearance in Dentistry (SCAD) held in Chicago on September 2012.