Senate Committee on Academic Development
Report to Senate – Meeting of November 25, 2010

Proposal to establish the Donald and Joan McGeachy Chair in Biomedical Engineering in the Faculty of Engineering and Applied Science

Introduction

The proposal to establish the Donald and Joan McGeachy Chair in Biomedical Engineering in the Faculty of Engineering and Applied Science was reviewed by the Senate Committee on Academic Development (SCAD) at its meeting on November 17, 2010. K. Woodhouse, Dean, Faculty of Engineering and Applied Science, attended the meeting to speak to the proposal and answer questions from Committee members. Members of SCAD were provided with the academic terms of reference for the Chair. In addition, budget information associated with the proposed Chair for the first five years were provided.

Analysis and Discussion

The following should be noted:

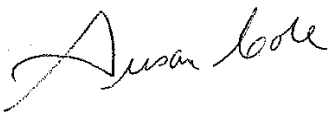
- An endowment in support of the proposed Chair has been established by donors, Donald (BSc'40) and Joan McGeachy;
- The proposed Chair will provide intellectual leadership in the area of biomedical engineering at both national and international levels. The Chair holder will show leadership in the development of graduate and undergraduate students, mentor new faculty members and work closely with physicians and basic scientists;
- The area of biomedical engineering involves collaboration between the disciplines of engineering, medicine, health sciences and information technology;
- The inaugural chair will be held by an internal faculty member of the Department of Mechanical and Materials Engineering;
- The Chair will be appointed for a term of 1 to 5 years and be held for a maximum of 10 years and chosen by a selection committee;

C o n c l u s i o n s / R e c o m m e n d a t i o n s

Recommendation:

that Senate approve the establishment of the Donald and Joan McGeachy Chair in Biomedical Engineering in the Faculty of Engineering and Applied Science subject to ratification by the Board of Trustees.

Respectfully submitted,



Susan Cole
Chair, Senate Committee on Academic Development

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A. Brown, School of Nursing
S. Cole, Deputy Provost (Chair)
J. Emrich, Faculty of Law
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N. Fulford, B.A. (Hons) '12
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R. Ware, Department of Economics

Memo

FACULTY OF ENGINEERING AND APPLIED SCIENCE
OFFICE OF THE DEAN

Beamish-Munro Hall, Room 200
Queen's University
Kingston, Ontario, Canada K7L 3N6
Tel 613 533-2055
Fax 613 533-6500
http://appsci.queensu.ca/

TO: Georgina Moore, Secretary to Senate

COPY: Celia Russell, Associate Secretary to Senate

FROM: Ann Messenger, Secretary
Faculty Board, Faculty of Engineering and Applied Science

DATE: November 17, 2010

SUBJECT: Motion

As required under the Senate "Policy on the Establishment and Designation of Named and Funded Chairs and Professorships", the Engineering and Applied Science Faculty Board considered, on November 17, a proposal for the establishment of an endowed Faculty Chair, the Donald and Joan McGeachy Chair in Biomedical Engineering. The Board approved, unanimously, the following Motion:

"That Faculty Board recommend to Senate the establishment of the endowed Faculty Chair, to be known as the Donald and Joan McGeachy Chair in Biomedical Engineering."

A copy of the proposal is attached. An electronic version can be found at:

http://appsci.queensu.ca/calendar/facultyBoard/agenda/2010-2011/documents/ProposalforMcGeachyChair.pdf

Ann Messenger
Secretary, Faculty Board
Faculty of Engineering and Applied Science

Queen's Faculty of Engineering and Applied Science
Donald and Joan McGeachy Chair in Biomedical Engineering

Establishment of Fund

The Donald and Joan McGeachy Chair in Biomedical Engineering Endowment Fund was established by Donald (BSc. '40 – Mechanical Engineering) and Joan McGeachy.

Purpose

The Donald and Joan McGeachy Chair in Biomedical Engineering will solidify this academic discipline within the Faculty of Engineering and Applied Science and offers a lasting opportunity to impact present and future students' education. As a prestigious position for a faculty member, the Donald and Joan McGeachy Chair in Biomedical Engineering will be recognized for achievement in his or her field, and students will be challenged and guided by exposure to the highest quality academic leadership.

The Donald and Joan McGeachy Chair in Biomedical Engineering will contribute both nationally and internationally at the frontiers of biomedical engineering research. The Chair will show leadership in the development of graduate students and the enhancement of biomedical programs at the undergraduate level. The Chair will mentor and develop new faculty members who undertake research in the field of biomedical engineering, and work closely with physicians and basic scientists both within Queen's University and the Kingston Hospital system, nationally and internationally, to place Queen's University as a leader in biomedical research and programming.

Criteria

Desirable qualifications are a doctoral degree in engineering with a focus on biomedical engineering, and knowledge of biomedical engineering practice. He or she should have a record of proven success in developing and maintaining research and collaborative relationships with both academics and industry. Key criteria on appointment will be the applicant's reputation and scholarship, the applicant's record of success in developing research in biomedical engineering with a particular focus on collaborative research, the applicant's demonstrated teaching skills, and ability to supervise highly qualified personnel.

The inaugural chair will be held by an internal faculty member of the Department of Mechanical and Materials Engineering, in recognition of Donald McGeachy's engineering discipline and passion.

Nomination procedure

Individuals may self-nominate or be nominated by others. In all cases, candidates must provide a current curriculum vitae, a brief summary of their research plans for the next five years, and any other relevant material that they choose. External candidates must follow regular University hiring procedures.

Selection procedure

Selection will be made by a committee of faculty members who undertake research in biomedical engineering including one representative from Chemical Engineering, Electrical and Computer Engineering, and Mechanical and Materials Engineering, the Associate Dean of Research, Graduate Studies, and External Affair or designate, a member who represents either the clinical or science disciplines, one graduate student and one undergraduate student representative. The Dean or designate will chair the committee.

Terms of the Award

The Donald and Joan McGeachy Chair in Biomedical Engineering is awarded for a one to five year period. Recipients receive a minimum of $15,000 in research funding per year during the tenure of the award. With the approval of the Head of the Department, the Chair may receive up to one course reduction in teaching responsibilities, per year, during the tenure of the award.

Renewable

The Chair will be appointed for a term of 1 year to 5 years and be held for a maximum of 10 years. A full review by a committee appointed by the Dean will be undertaken upon consideration of renewal of the Chair regardless of the initial appointment period.

A CHECKLIST OF INFORMATION REQUIRED BY THE SENATE FOR PROPOSALS TO ESTABLISH AND DESIGNATE NAMED AND FUNDED CHAIRS AND PROFESSORSHIPS

The Senate determines all matters of an academic character which affect the University as a whole. Senate approves the establishment and designation of named and funded Chairs and Professorships based on the recommendation of the Senate Committee on Academic Development (SCAD) and the Office of the Provost and Vice-Principal (Academic). The Senate will forward the approved proposal to the Board of Trustees for ratification.

The governing policy document is: *Policy on the Establishment and Designation of Named and Funded Chairs and Professorships (2010).* Based on the parameters provided in the policy, the following information should be included in the proposal submitted to the Senate.

1. TITLE

• Type of proposal:
  • **Chair**

• Proposed name of the Chair/Professorship and area(s) of academic endeavour.
  • **The Donald and Joan McGeachy Chair in Biomedical Engineering**
  • **Biomedical Engineering**

• Host department/faculty
  • **Faculty of Engineering and Applied Science**

• Term of appointment
  • **1 to 5 years, renewable to a maximum total appointment of 10 years**

2. ACADEMIC INFORMATION

• Responsibilities of the Professorship

Research

• He or she will undertake research at the frontiers of biomedical engineering that will be of importance to the quality of life of Canadians and people around the world

Teaching and Graduate Supervision

• Providing undergraduate and graduate instruction
• Supervising and mentoring grad students

Other (including but not limited to service)

• Mentoring junior faculty associated with Biomedical engineering
• Preparing an annual stewardship report to the donor

• Identify how the Chair/Professorship will contribute to the goals of the academic unit and the university.

• The primary contribution which the Chair will make to the goals of the Faculty is the enhancement and growth of the Biomedical Engineering programs and research in the Faculty of Engineering and Applied Science. The chair will stimulate both collaborative research and activity between academia and industry, enhance graduate research, and bring additional national and international recognition to the Biomedical Engineering program at Queen's University.

• Identify interdisciplinary connections, if applicable.

• The Chair will be actively involved at both the national and international level with professional societies and will facilitate inter-departmental, inter-faculty and inter-institutional initiatives to further biomedical engineering research in Canada.

• He or she will work closely with physicians and basic scientists both within Queen's University and the Kingston Hospital system, plus researchers nationally and internationally, to place Queen's University as a leader in biomedical research and programming

• Any other relevant academic information.

3. BUDGET INFORMATION

The following table highlights the funding sources available to cover the salary, benefit, and research support costs associated with the proposed Chair for the first five years.

Donald and Joan McGeachy Chair in Biomedical Engineering							
	Year 1	Year 2	Year 3	Year 4	Year 5		Total
Revenue/Funding							
Endowment value	$2,500,000						
Endowment units @2.352 September 30, 2010	1,062,925.17						
Annual yield $0.1151 per unit (2010/11)	$122,343						
Endowment Income (no change in annual yield)	$122,343	$122,343	$122,343	$122,343	$122,343		$611,713
Base Funding from Faculty	$48,657	$52,557	$56,555	$60,652	$64,852		$283,274
Total Revenue/Funding	$171,000	$174,900	$178,898	$182,995	$187,195		$894,987
Expenses							
Salary (assume 2.5% increase per year)	$130,000	$133,250	$136,581	$139,996	$143,496		$683,323
Benefits @20%	$26,000	$26,650	$27,316	$27,999	$28,699		$136,665
Total Salary and Benefits	$156,000	$159,900	$163,898	$167,995	$172,195		$819,987
Research Support for Chair	$15,000	$15,000	$15,000	$15,000	$15,000		$75,000
Total Expenses	$171,000	$174,900	$178,898	$182,995	$187,195		$894,987

4. APPROVAL

Proposals must be signed and dated to indicate department and/or faculty approval.

Faculty:  Date: November 8, 2010

Kimberly A. Woodhouse, Dean, Faculty of Engineering and Applied Science

5. SUBMISSION TO SENATE

Submit signed proposal to: Secretary of the Senate

senate@queens.ca

Proposals will be referred by the Secretary of the Senate to SCAD and the Office of the Provost and Vice-Principal (Academic).

Policy: http://www.queensu.ca/secretariat/senate/policies/chairses.html