

**FACULTY OF SCIENCE
Meeting of Faculty
Tuesday, December 6, 2005
Leacock Council Room - L232**

ATTENDANCE: As recorded in the Faculty Appendix Book.

DOCUMENTS: S-05-21, S-05-22

Dean Grant called the meeting to order at 3:00 p.m.

(1) ADOPTION OF AGENDA

Prof. Andrews **moved**, seconded by Prof. Drury, that the Agenda be adopted.

The motion carried.

(2) MINUTES OF NOVEMBER 15, 2005 S-05-21

Prof. Drury **moved**, seconded by Prof. Andrews, that the Minutes be approved.

The motion carried.

(3) BUSINESS ARISING FROM THE MINUTES

There was no business arising from the Minutes.

(4) REPORTS OF COMMITTEES

b) Academic Committee S-05-22

The Academic Committee approved the following on Tuesday, November 29, 2005:

SECTION A: NEW AD HOC PROGRAM (For Information)

B.A. & Sc. Ad hoc Honours Program in Human Evolution AC-05-31

SECTION B: MAJOR PROGRAM CHANGES

- Immunology Interdepartmental Honours AC-05-44

Associate Dean Hendren **moved**, seconded by Prof. Verbrugge, that the program changes be approved.

The motion carried.

SECTION C: NEW COURSES

- 1) Undergraduate Research Project (3 Credits)**
- ANAT 396 (Anatomy & Cell Biology) AC-05-32A
 - ATOC 396 (Atmospheric & Oceanic Sciences) AC-05-32B
 - BIOL 396 (Biology) AC-05-32C

- COMP 396 (Computer Science)	AC-05-32D
- EPSC 396 (Earth & Planetary Sciences)	AC-05-32I
- GEOG 396 (Geography)	AC-05-32E
- MATH 396 (Mathematics & Statistics)	AC-05-32J
- MIMM 396 (Microbiology & Immunology)	AC-05-32F
- PHYS 396 (Physics)	AC-05-32G
- REDM 396 (Redpath Museum)	AC-05-32H

Associate Dean Hendren **moved**, seconded by Prof. Bennewitz, that the above courses be adopted.

The motion carried.

- 404.1** Associate Dean Hendren said that several more 396 courses would soon be submitted by units, and she suggested that Faculty pre-approve these courses.

Associate Dean Hendren **moved**, seconded by Prof. Andrews, that Faculty pre-approve any 396 courses submitted in the next two weeks.

The motion carried.

- 404.2** Dean Grant and Associate Dean Hendren thanked units for their work in putting together the 396 courses.

- 2) Physics**
 PHYS 580 Introduction to String Theory **AC-05-33**
 3 credits

Prof. Bennewitz **moved**, seconded by Prof. Cline, that the course be adopted.

The motion carried.

- 3) Mathematics & Statistics**
 MATH 352 Problem Seminar **AC-05-35**
 1 credit

Associate Dean Hendren **moved**, seconded by Prof. Drury, that the course be adopted.

The motion carried.

- 4) Biology**
 BIOL 507 Animal Communication **AC-05-46**
 3 credits

Associate Dean Hendren **moved**, seconded by Prof. Bennewitz, that the course be adopted.

The motion carried.

- 5) Redpath Museum**
 REDM 601 Writing Science Articles 1 **AC-05-47**
 3 credits
 REDM 602 Writing Science Articles 2 **AC-05-48**
 3 credits

Associate Dean Hendren **moved**, seconded by Prof. Green, that the above courses be adopted.

The motion carried.

404.3 Associate Dean Hendren announced that EDEC 645 (Science Writing and Publishing) would be offered in January 2006, and that there was still space available for graduate students to register.

6) Chemistry
CHEM 533 Small Molecule Crystallography **AC-05-58**
3 credits

Associate Dean Hendren **moved**, seconded by Prof. Andrews, that the course be adopted.

The motion carried.

SECTION D: MAJOR COURSE CHANGES

1) Biology
BIOL 427 Herpetology **AC-05-45**
Changes in number [from BIOL 327] & prerequisites
3 credits

Associate Dean Hendren **moved**, seconded by Prof. Krahe, that the changes be approved.

The motion carried.

2) Psychology
PSYC 314 Computational Psychology **AC-05-49**
Changes in number [from PSYC 503] & description
3 credits

Associate Dean Hendren **moved**, seconded by Prof. Mucci, that the changes be approved.

The motion carried.

PSYC 562 Measure. of Psych. Processes **AC-05-50**
Change in number [from PSYC 336]
3 credits

Associate Dean Hendren **moved**, seconded by Prof. Ronis, that the change be approved.

The motion carried.

3) Chemistry
CHEM 514 Biophysical Chemistry **AC-05-57**
Changes in number [from CHEM 404] & restriction
3 credits

Associate Dean Hendren **moved**, seconded by Prof. Ronis, that the changes be approved.

The motion carried.

SECTION E: MINOR COURSE CHANGES (For Information Only)

- Minor Course Changes

**AC-05-30/
MCC-05-14**

SECTION F: MINOR PROGRAM CHANGES (For Information Only)

- Minor Program Changes

AC-05-P3

SECTION G: OTHER (For Information Only)

- Restriction on World of Chemistry Courses for B.A. & Sc. Students

AC-05-59

Associate Dean Hendren said that the same restriction already applied to Science students.

(5) DEAN'S BUSINESS

- Undergraduate Teaching & Research

Discussion: Committee of the Whole (15 minutes)

405.1 Associate Dean Burns took over the chair of the Committee of the Whole at 3:20 p.m.

405.2 Associate Dean Burns said that it was the responsibility of Science professors to teach the scientific method to undergraduate students. It was often difficult for professors to find the correct balance between research and teaching, but Associate Dean Burns said it was his experience that undergraduates were interested in the research carried out by professors. He said that there was a real intertwining between the research and the teaching of professors. He said that the Committee of the Whole would enable members to comment on how best to integrate teaching and research.

405.3 Members touched on a number of points, including:

- what is, or should be, the nature of the B.Sc. degree?
- the relationship between undergraduate teaching and research for an individual professor
- the need to have good researchers teaching in order to communicate to students a love of research; counterbalancing this, the need to have good teachers in order to interest and excite students
- the ideal of showing students via teaching how the knowledge base blends into research
- the fact that an exclusive focus on research can lead to insularity, and that stimulation and broadening is gained by interaction with students
- the caution that professors should not detract from general concepts by an excessive focus on specific tools, which may change
- the desirability of undergraduates having a realistic knowledge of what research entails before undertaking graduate studies.

405.4 Associate Dean Burns said that members were welcome to send him additional comments.

405.5 Dean Grant resumed the chair of the meeting at 3:35 p.m.

(5) MEMBERS' QUESTION PERIOD

There were no members' questions.

(6) REPORT ON ACTIONS OF SENATE

Please note that the entire Minutes of Senate are available on the Web at <http://www.mcgill.ca/senate/minutes/>.

- 406.1** Prof. Kamran will report on the Senate Meeting of November 16, 2005 at the next Faculty of Science meeting scheduled for January 17, 2005.

(7) OTHER BUSINESS

- 407.1** Dean Grant reminded members that the Faculty of Science would be hosting "Soup and Science" the week of January 9-13, 2006 in the lobby of the Trottier Bldg., on Monday, Wednesday, Friday from 12:30-1:30 p.m., and on Tuesday, Thursday from 11:30 a.m.-1:00 p.m. Soup and Science would enable professors to talk about their research, and undergraduate students to learn about professors' research.

- 407.2** Associate Dean Hendren thanked Victor Chisholm for putting on the "pre-game show." She asked for volunteers for future meetings.

- 407.3** Dean Grant announced that there would be a Centraide benefit the following night at the Faculty Club.

There being no further business, the meeting adjourned at 3:40 p.m.