

# BCcupms

THE BRITISH COLUMBIA COMMITTEE ON THE  
UNDERGRADUATE PROGRAM IN MATHEMATICS & STATISTICS

## 85<sup>th</sup> Articulation Meeting Yukon College

AGENDA (please bring your own copy!)

**Date:** Tuesday, May 15, 2007

**Time:** 9:00 a.m. (coffee and muffins: 8:30 a.m.)

**Room:** T1023

[Lunch: hosted by Yukon College]

### Plenary Session

1. Welcome: Yukon College interim president, Terry Weninger
2. Adoption of Agenda
3. Adoption of the minutes of the 84<sup>th</sup> meeting, which was held at the University of Victoria  
[Delegates, please bring with you a copy of the pre-approval minutes, available at <http://members.shaw.ca/bccupms/documents.htm#84th>]
4. Announcements:
  - 5.1 **Notice of election:** At this meeting, elections for Secretary, and for Vice-Chair of the BCcupms will be held. These have two-year terms.
  - 5.2 Conferences
  - 5.3 Attendance lists
  - 5.4 Announcements from the host
5. **BCCAT and related topics:**
  - 5.1 Mike Winseman demonstrates the new and improved BCCAT website,
  - 5.2 Other BCCAT initiatives
  - 5.3 Membership in the BCcupms:
    - private institutions – Jim Bailey
    - Ministry of Education & other – Leo Neufeld
  - 5.4 Flexible pre-major in mathematics: current status and the next move – Leo Neufeld
6. **High school to post-secondary transition:**
  - 6.1 Does the proposed Math 10-12 curriculum give students the background necessary to succeed in mathematics, as determined by the Mathematics Proficiency Report? Discussion led by Jim Bailey.
  - 6.2 The new optional nature of the provincial Math 12 exam: will your institution require the exam, a placement test, or neither?
7. **What's new at PIMS:** David Leeming
  - 7.1 Associate status for colleges and university colleges
  - 7.2 Education outreach activities

## BCcupms and Secondary Teachers Session

**Date:** Tuesday, May 15, 2007

**Time:** 4:00 p.m.

**Room:** T1023

1. Introductions and opening remarks.
2. Reports:
  - 2.1 **BCAMT** – Robert Sidley
  - 2.2 **BC High School Mathematics Contest** – Clint Lee
  - 2.3 **BC Universities Calculus Challenge Exam** – Malgorzata Dubiel, Wayne Nagata
3. General discussion: topics suggested by the teachers
  - 3.1
  - 3.2
  - 3.3
4. Adjourn to reception

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**Date:** Wednesday, May 16<sup>th</sup>, 2007

**Time:** 9:00 a.m. (coffee etc at 8:30 a.m.)

**Room:** T1023

[Lunch: hosted by Yukon College]

### Parallel sessions

#### [Statistics session – T1081 – chair: Bruce Dunham]

1. Approval of agenda.
2. Approval of minutes from Statistics subcommittee meeting from 84<sup>th</sup> meeting.
3. Matters arising from minutes.
4. General issues regarding articulation and transfer for Statistics courses.
  - (i) Discussion of good practice from both “sending” and “receiving” institutions.
5. Future developments, including any changes to existing articulation agreements.
6. Institutional reports.
7. Discussion of Math 10-12 curriculum revision and the change in status of the provincial exams.
8. Statistics resources on the Web
9. Any other business.
10. Motion to adjourn.

#### [Mathematics session – T1023 – chair: Susan Milner]

1. Pre-calculus courses:
  - 1.1 Report on the discussion at the Changing the Culture conference – Nora Franzova
  - 1.2 Who offers pre-calculus courses and what sort? **Please bring information about changes in enrolments at your institution over the past few years.**
2. Mathematics as a liberal art – Susan Oesterle on Douglas’ experience
3. Mathematics for elementary education: change is in the air. A brief report on the recent discussions – Malgorzata Dubiel (extended discussion on Thursday)
4. Mathematics courses for business & economics: who offers what?
5. Textbooks – Nicholas Buck

## Plenary session [T1023]

1. Opening remarks
  - 1.1 Introduction of representatives
  - 1.2 Announcements from the host
  - 1.3 Attendance lists
2. Correspondence
3. Reports:
  - 3.1 **ABE** – Costa Karavas
  - 3.2 **AMATYC** – Slava Simice
  - 3.3 Highlights of parallel sessions
4. Business arising from the minutes of the 84<sup>th</sup> meeting:
  - 4.1 Core Calculus review – David Leeming
  - 4.2
5. New business:
  - 5.1
  - 5.2
6. Institutional reports

We are particularly interested in changes to any courses and to possible transfer arrangements. *Only written reports will be recorded.*
7. Committee business:
  - 7.1 Theme for our 86<sup>th</sup> meeting
  - 7.2 Date and location of the 86<sup>th</sup> meeting
  - 7.3 List updates: telephone, e-mail, and fax
  - 7.4 BCcupms web site – Leo Neufeld
7. Adjournment of the Wednesday session.  
[Professional development sessions, Thursday, May 18<sup>th</sup>.]

**Please note that displays of textbooks and other resources from the major publishing houses will be in room TBA.**

**Exam exchange:**

**Delegates should bring sign-up sheets for at least these courses: pre-calculus, mathematics for elementary education, introductory statistics, and any mathematics for liberal arts course you have. Please give the descriptive title of each course as well as the number it has at your institution!**

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**Date:** Thursday, May 17<sup>th</sup>, 2007  
**Time:** 9:00 a.m. (coffee etc at 8:30 a.m. in \_\_\_\_\_)  
**Locations:** Indicated below.

## Concurrent professional development sessions

### Statistics workshops: T1081

9am **“The Easy Way to use Free Stat Software in Teaching Stats”, Larry Weldon (SFU)**

I will present a few R programs which help either to explain basic statistical theory, or to show how some basic statistical concepts can be used to explore real—life processes like investment, insurance, and sports. I will also show how to access the software and run the programs. A CD will be distributed with the programs and implementation details.

10am **“A Roundtable Discussion on the Role of Technology in Introductory Statistics: Part 2” chaired by Geoffrey Salloum (Camosun College)**

Last year, the subcommittee began a discussion on the current use of technology in teaching introductory Statistics courses. Each school described their statistical software, calculator, and lab formats. This year we will expand our conversation to include how technology has changed the way we teach Statistics, opinions regarding the usefulness of these changes, and possible extensions to online courses.

11.10am **“Examining Examinations”, Larry Weldon (SFU) and Bruce Dunham (UBC)**

Despite being activities that all academics engage in, the setting and managing of examinations are aspects of our work that are rarely discussed openly. The nature of examinations in Statistics will be considered, and some examples of past papers from SFU will be disseminated. Certain logistical and practical aspects relating to examinations will also be discussed.

### Mathematics workshops: T1023

9:00 a.m. **“Teaching mathematics to future teachers: what do we teach and what should we teach?”, chaired by Malgorzata Dubiel (SFU) and Susan Milner (UCFV)**

We will bring copies of the reports from the fall meeting at SFU and the workshop at the Changing the Culture conference in April. We hope to begin to address the following topics: What *concepts* do we think are most important to teach? What *approaches* are most likely to reach our audience? What prerequisites should our course have in order to give the students a reasonable chance of success? How do we motivate students to think like future teachers?

11:00 a.m. **"MapleTA and Placement/Readiness Testing", Clint Lee (OC)**

I will discuss how to create an online placement/readiness test using MapleTA and demonstrate a prototype test I designed last fall.

**Adjournment of the 85<sup>th</sup> meeting of the BCcupms.**