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BCcupms
THE BRITISH COLUMBIA COMMITTEE ON THE
UNDERGRADUATE PROGRAM IN MATHEMATICS AND STATISTICS
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93rd Articulation Meeting
Vancouver Island University
AGENDA Version: April 18, 2015

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| **Date:** | Monday, May 11, 2015—Pre-meeting event |
| **Activity:** | High School Math Contest Brain-storming Session |
| **Time:** | 9:00 am–4:00 pm |
| **Room:** | bldg 345, room 211 |

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| **Date:** | Tuesday, May 12, 2015 |
| **Activity:** | BCcupms Meeting—First Day |
| **Time:** | 9:00 (coffee and muffins at 8:30 in bldg 305, room 507) |
| **Lunch:** | Lunch can be bought at various locations |
| **Publishers:** | bldg 305, room 507 |

**Plenary Session (bldg 305, room 507)**

1. Welcome by President Ralph Nilson from Vancouver Island University.   09:00

2. Adoption of the agenda.

3. Approval of the minutes of the 92nd meeting, which was held at Kwantlen Polytechnic University.

4. Announcements:

   4.1. Introduction of representatives.

   4.2. Attendance lists.

   4.3. Announcements from the host.

   4.4. Notice of election: At this meeting, elections for the Vice-chair and Secretary of the BCcupms will be held. These have two-year terms. Formation of a Nominating Committee.

4.5. We need someone to organize our Sharing Mathematics Conference next year. Susan Milner.

4.6. We need someone to replace Ian Affleck as webmaster.

4.7. Conferences.

5. EDUC (Ministry of Education): Melissa Horner. 09:30

5.1. Ministry website:
   http://www.bced.gov.bc.ca/irp/transforming_curriculum.php

5.2. Curriculum transformations of the senior secondary grades; transitions of students to post secondary education.

5.3. The status of provincial required examinations.

5.4. New curriculum directions, see https://curriculum.gov.bc.ca/.

5.5. Curriculum transformations of the elementary grades which may affect the teaching of Mathematics for Elementary Education.

5.6. Tracking online high school students.

6. BCCAT—John FitzGibbon.

6.1. 2014 and 2015 JAMs.

6.2. Leo Neufeld: recipient of the Franklin Gelin Lifetime Achievement Award.

6.3. Upper Level Transfer Credit (requested by Susan Oesterle).

6.4. Instructor qualifications for upper level course transfer. For BCCAT's current position, see

   http://www.bccat.ca/articulate/request/instructor

6.5. Appointment of Susan Oesterle as BCCAT System Liaison Person (SLP) to the BCcupms. For a description of responsibilities, see

   http://www.bccat.ca/companion/committee/slp

7. Institutional reports. Please focus on course changes (recent and upcoming) that might influence transfer agreements and enrolment trends. 10:50

8. Business arising from the minutes of the 92$^{\text{nd}}$ meeting: 14:50

8.1. Mathematics and Statistics articulation in Alberta. Report from the Chair of the ACAT Mathematics and Statistical Sciences Articulation Committee, David McNeilly (University of Alberta).

8.1.a. Articulation of Mathematics and Statistics Courses between Alberta and British Columbia: progress report. Jim Bailey.

8.1.b. Possible joint meeting in 2017. Jim Bailey.

8.1.c. Possible Joint Core Calculus Agreement between Alberta and British Columbia.

8.1.d. Core Linear Algebra and Core Introductory Statistics Agreements: is it time to reconsider these? Are joint agreements with Alberta possible?

8.2. Review of the Mathematics for Elementary Teachers Report. Nora Franzova.

8.3. Collaborative Offering of Under-enrolled Mathematics and Science Courses (NIC, CotR, NWCC?). Jim Bailey.

8.4. Webmaster Report. Ian Affleck.

9. Publishers' Representatives: the latest developments related to Mathematics textbooks            15:30

| Date: | Tuesday, May 12, 2015 |
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| **Activity:** | BCcupms and Secondary School Teachers |
| **Time:** | 16:30 |
| **Room:** | bldg 300, room 401 |
| **Reception:** | Royal Arbutus Room, bldg 300, room 401 |

**BCcupms and Secondary Teachers Session (bldg 300, room 401)**

10. Introduction and opening remarks.            16:30

11. Reports:

   11.1. BC Secondary Schools Mathematics Contest—Clint Lee.

   11.2. BCAMT—Ron Coleborn.

12. Project based Learning in Secondary Mathematics (Kim Murcheson)

13. What math skills are weak / strong... (Kim Murcheson). How well are secondary students prepared for post-secondary math courses; are there any skills that the universities would like to see improved? (Kathy Jakobsen).

14. General discussion: further topics to be suggested by the teachers.

15. Adjourn to reception (bldg 300, room 401.)            17:30

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|---|---|
| **Date:** | Wednesday, May 13, 2015 |
| **Activity:** | BCcupms Meeting—Second Day |
| **Time:** | 9:00 (coffee and muffins at 8:30 in bldg 305, room 507) |
| **Room:** | bldg 305, room 507 |
| **Lunch:** | hosted by Vancouver Island University |
| | Royal Arbutus Room, Building 300 Room 401 |
| **Publishers:** | bldg 305, room 507 |

### Plenary Session (bldg 305, room 507)

16. Opening remarks. 09:00

   16.1. Introduction of representatives.

   16.2. Attendance lists.

   16.3. Announcements from the host.

17. Reports: 09:30

   17.1. PIMS—David Leeming.

   17.2. ABE—Costa Karavas.

   17.3. Math Challengers—Leo Neufeld.

   17.4. Changing the Culture—Susan Milner.

### Parallel Sessions

18. Mathematics Session—Chair: Jim Bailey—bldg 305, room 507 10:50

   18.1. Report from the Calculus Readiness Test Subcommittee. Justin Gray.

      18.1.a. Do we want to share the Calculus Readiness Test with Alberta Institutions? Athabasca University, Red Deer College, Mount Royal University, and SAIT are interested.

      18.1.b. Do we want to share the Calculus Readiness Test with secondary school teachers?

   18.2. Calculus Challenge Exam. Wayne Nagata.

   18.3. Core Calculus Agreement for Life Sciences Calculus. Michael Nyenhuis.

18. Statistics Session—Chair: Bruce Dunham—bldg 305, room 444 10:50

18.1. Approval of agenda.

18.2. Approval of the minutes of the Statistics Subcommittee Session of the 92$^{nd}$ meeting.

18.3. Matters arising from the minutes.

18.4. Institutional reports.

18.5. Any other business.

18.6. Motion to adjourn.

## Plenary Session

19. Highlights from the parallel sessions (details will appear in the minutes.)   14:00

20. Keynote Speaker: Dr. Jon Schnute (retired mathematician and fish scientist from the Pacific Biological Station in Nanaimo)   14:10

21. New business:   15:30

21.1. Retirements and retrenchment.

21.2. Open source textbooks: who is using them? Jim Bailey.

21.3. Publishers' software: Who is using it? What useful features do they have? Are they compulsory or optional? What are your opinions?

21.3.a. Pearson: MyMathLab, MathXL, and Mastering(Engineering, Physics)

21.3.b. WebAssign (used by Nelson)

21.3.c. LONCAPA (free, used by SFU)

21.3.d. WebWork (free, used by Freeman, UBC)

21.3.e. MyOpenMath (free).

21.4. Our Keynote Speaker: should we continue this tradition? Jim Bailey.

22. Reports:   16:15

22.1. Report from the Nominating Committee; elections for the Vice-chair and Secretary of the BCcupms if necessary.

22.2. Announcement of the person who volunteered to organize our Sharing Mathematics Conference.

23. Committee business:   16:20

23.1. Theme for our 94$^{th}$ meeting.

23.2. Date and location of the 94$^{th}$ meeting: May 17–18, 2016 at Columbia College.

23.3. Proposed future dates for BCcupms meetings:

| Year | Meeting Dates | Location |
|------|---------------|----------|
| 2016 | May 17–19 | Columbia College |
| 2017 | May 16–18 | BIRS (Joint AB–BC Meeting) |
| 2018 | May 15–17 | |
| 2019 | May 14–16 | |
| 2020 | May 12–14 | |

23.4. List updates: please look at our web page

<center>http://www.bccupms.ca/</center>

and check that contact information, email, telephone, fax, and address are up-to-date. Please send any corrections to our web master, Ian Affleck.

24. Adjournment. Greek dinner at the Asteras Greek Taverna (Nanaimo).    18:30

Notes:

1. Please bring your own copy of this agenda and pre-approval minutes of the 92$^{nd}$ meeting.

2. Displays of textbooks and other resources from the major publishing houses will be in room bldg 305, room 507.

<center>**Professional Development Activity**</center>

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|---|---|
| **Date:** | Thursday, May 14, 2015 |
| **Activity:** | Sharing Mathematics Conference |
| **Time:** | 9:00–4:00 |
| **Room:** | bldg 356, room 319 |

The theme for Sharing Mathematics this year is *Stimulating Engagement Among Undergraduates.* Everyone is encouraged to attend and talk about their experiences!