

CHEMISTRY 2018 ARTICULATION MEETING
BRITISH COLUMBIA COUNCIL ON ADMISSIONS AND TRANSFER
 University of British Columbia – Okanagan, Kelowna, BC
 Science Building, Third Floor - SCI 396

Institution	Name	Institution	Name
In attendance:			
Alexander College	Jason Mirzaei	Okanagan College	Jasmine Korčok
BC Institute of Technology	Jimmy Lowe	Simon Fraser University	Evon Khor
Camosun College	Neil Meanwell	Simon Fraser University	Nabyl Merbouh
Capilano University	Urmila Deo Jangra	Thompson Rivers University	R. Norman Reed
College of New Caledonia	Kara Crosina	Trinity Western University	Shane Durbach
College of the Rockies	David Dick	University of BC - O	Tamara Freeman (Host)
Columbia College	Taraneh Lajevardi	University of BC - V	Andrew MacFarlane
Douglas College	Irma Hoogendoorn	University of Northern BC	Todd Whitcombe
Kwantlen Polytechnic University	Patrick Duffy	University of the Fraser Valley	David Fenske (Chair)
Langara College	Patricia Aroca-Oullette	Vancouver Community College	Judith Wallace
North Island College	Sherrie Wang	Vancouver Island University	Duane Friesen
Northwest Community College	Reto Riesen	Yukon College	Ernie Prokopchuk
Guests:			
UBC Okanagan	Gino DiLabio	BCCAT	Robert
Regrets:			
Coquitlam College	Amanda Gronotte	Selkirk College	Jason De Costa
Kwantlen Polytechnic University	Suzanne Pearce	Trinity Western University	Paul Brown
Northern Lights	Cynthia Broberg	University of Victoria	Dave Berg

1. Call to order

8:59 am, Meeting Chair: David Fensky (UFV)

2. Welcome by Head of Chemistry: Dr. Gino DiLabio

Highlighted UBCO current activity:

- A new building on campus has lecture hall with 400 capacity. Funded 1/3 by students tuition (student vote passed to increase tuition). Specifically designed to accommodate active learning activities.
- A new residence includes a 500 person-dining hall.
- UBCO chemistry has 3 new members hired since 2015 and a new posting for a Material Chemist is in the works for future applications. This position will clearly define an emphasis for excellence in teaching.

4. Approval of the 2018 Agenda and 2017 Meeting Minutes

Request for New Business items:

- 9.1 Formaldehyde
- 9.2 Articulation Week

2018 agenda passed by consensus

Meeting minutes to be amended:

Articulation Chair is Todd Whitcombe (UNBC), not Todd Stuckless (Langara)

2017 minutes passed by consensus.

5. BCCAT updates

Contacts at BCCAT:

Ruth Erskine (rersine@bccat.ca)

Meg Stainsby (mstainsby@bccat.ca) Director for Transfer and Articulation

- BCCAT can provide customized data reports and summaries
Maybe an idea for 2019 meeting; presentation of movement volume across institutions.
- There is a new online request tool that may make it easier to delegate transfer credit decisions
UBCV is looking at it now (see institutional report)
- **Student Transition Project:** allows visualization of how students move across the education system.

HIGHLIGHTS:

- 45% of graduates attend more than one institution (see website for details)
- 75% retention goal set and 82.4% obtained; this encompasses all students continuing for an additional year or graduating.
- Mobility of student tracked with PEN (personal education number)
- Performance of transfer students is indistinguishable at graduation compared to direct entry students
- Mobility rate is 18% in BC (in any one year, this many move. Alberta and Ontario have rates of 6-8%)
- About 80% of students receive full credit for courses. Ontario is as low as 35%, but they have a different system.

JAM 2017

- Discussed indigenization; presentation recorded in small segments (available for viewing).
- JAM 2018 in Vancouver
- There are council awards - recommendation forms are online.

Secondary → Post Secondary transitions

- There will be a roll out of graduation program changes
- There is a transfer innovation project submitted by Transfer & Articulation
If you are interested contact Meg Stainsby (mstainsby@bccat.ca)
- Stephanie McKeown (UBCO) is looking at data for growing diverse populations and our indigenous relations.

Common Application Service: one system (like ONT).

- Begin developed - Education Planner BC merged with Apply BC.
- Currently 17 of 25 institutions are part of this.
- Electronic transcript exchange is being developed (needs more functionality for different institutions & programs).
- OntarioCAT been around for 3 years

Discussion:

- Open up existing articulation decisions to evaluate applications from non-BC and international schools – a super database of decisions.
- % of international students across BC.

6. Update on CHEM 11/12 BC High School Curriculum

- Barbara McKinley gave an update last year
- Organic chemistry was going to be optional in 11, kinetics optional in 12.
- Current drafts include organic and kinetics in 11 and 12, apparently.
- Grade 11/12 online in July. NOT significantly different, but organic and kinetics included.
- Percentages or letter grades? Letter grades will remain.
- Langara was told that letter grades would not be given. Numeracy assessment tests are available, but they can retake and don't have to pass etc.
- Suggestions for required numeracy and writing courses.
- Should we have a student success course? If so, perhaps it should activate a few weeks before semester?
- Research shows a 17% drop in grades from high school to university.
- Discussion of student issues including mental health. Mental health data from 1967 for depression and anxiety were consistent at 20% from 1967 to 2006. It is now at 50%, and has been increasing every year, across North America. In 2006... social media arrival. Langara is looking at all of this and trying to develop methods to help students with problems... Langara buzzwords: recognize, reflect, refrain, reach out.... Message: struggle is a part of life. Things will happen. Perhaps look at expectations, reflect on what you're doing etc. Can't prove causation, but internet access and mobility correlates with student mental health increases.
- IGEN by Jean Twengay et.al. Big data sets in the US of millennials, IGENs, etc.

7. College Chemistry Canada Conference at NAIT, May 24-27. Jimmy Lowe

- Edmonton
- Syncrude Tour Thursday, Program starts Friday
- Plenary speaker: Charles Lucy
- Saturday employer panel and Green Chemistry Session
- Registration is \$180.
- Join CCC for 2019 Victoria conference.
- CSC also has a great CHEM Ed session.

8. Institutional Reports

Full reports are located on the google drive:

https://drive.google.com/open?id=1Keh_1o0ml52SSED7FCTQylJe9EEaEzDY

Below are the highlights:

Alexander College – Jason Mirzaei

- Green initiative
- iPad in class and lab
- New FT-IR
- Canvas as learning management system (online quizzes etc)
- 16 sections of first year, 258 students (18 students per section)
- 3 sections of organic (10 students)

BCIT – Jimmy Lowe

- Full enrolment
- 9.5 full time faculty
- Chem challenge exams

- Student applications include a student portfolio that is looked at by admissions then the individual programs

Camosun College – Neil Meanwell

- 2nd year organic 20 students vs 12 last year - heavy waitlist
- Needs an organic instructor next year (Application deadline June 3)
- Camosun analytical instructor having student projects – does anyone else do that? Contact Blair
- Hosting the CCC conference in Victoria next year.
- New Health & Wellness centre @interurban campus

Capilano University – Urmila Deo Jangra

- 3 FT lecturers
- Student diversity has changed significantly
- Problems with international students with no math skills
- Have their own text – look at it (modelled after CHANG)
- Is anyone using Spartan at the 100 level?

College of New Caledonia – Kara Crosina

- Enrolment is seeing large international student increase
- Trying to reinstate a 2nd year courses that has not been offered for 10 years
Can anyone send examples of their course outlines for physical and/or inorganic to help with transfer agreement?
- Have a program, which allows international students to arrive in JAN – anyone else do this?

College of the Rockies – David Dick

- Environmental CHEM lecture and lab added (included lab exam) – should trigger articulation decisions
- New Trades Building

Columbia College – Taraneh Lajevardi

- C121/123 35/lecture ~100 students
- 210/220 condense to 230 in the summer
- There are two campus locations – programs run 8 – 9 pm including Saturday!!

Coquitlam College – Amanda Gronotte (sent regrets)**Douglas College – Irma H**

- Paul O'Connor's Chemistry of Food - most popular course
- Labs are undergoing renovations
- Make sure to remember to update all labels for new WHIMS designations

Kwantlen Polytechnic University – Patrick Duffy

- Building renovation with grant from Govt. is ongoing
- Enrolment is steady with high international student numbers on waitlist

Langara College – Patricia Arco-Ouellette

- About 2000 students per year with 56% IE.
- 70% of feeding HS in area are students that are non-english speaking at home
- Lots of mental health initiatives
- Strong indigenization initiatives
- Considering a literacy evaluation for students

North Island College– Sherry Wang

- Strong enrolment over 2.5 campuses
- Some courses are changing the language of their syllabi – may trigger articulation decisions
- Organic registration is low and may not be offered next year.

Northern Lights College - Cindy Broberg (regrets)**Northwest Community College – Reto Riesen**

- Name change to North Coast College
- The applied coastal ecology program will require chem course
- Noticed a particular math deficiency for international students
- In attempt to show local examples took class on impromptu field trip (a Van + 3 students) to visit a pulp mill and LNG site
- Struggles to incorporate connections to local First Nations history

Okanagan College – Jasmine Korčok

- Hiring an analytical chemist
- Sessional hire for gen chem and 2nd year organic
- Hired a lab tech
- Student body growth has exploded with ~50% international students

Selkirk College – Jason De Costa (regrets)**Simon Fraser University – Evon Khor / Nabyl Merbouh**

- 1st and 3rd year breadth courses – chemistry of smell and molecules around you
- Have a module course to help students catch up on missing content without retaking the entire course.
- Noticing an increase in 3rd year academic dishonesty – anyone else?

Thompson Rivers University – J. Norman Reed

- Thinking of offering an honours degree
- Hopeful for a new science building or potential renovations
- There should be a refresh of the environmental chem atmospheric course - a new instructor in this course.
- Continue to host meetings with local HS
- Building a community on campus called THE REACH
- Approval for a Bed. program

Trinity Western University – Shane Durbach

- University enrolment is up but struggling with science numbers
- There are 4 tenure track faculty members
- Majors in CHEM (3) + concentration in CHEM (7)
- CHEM 461: Chemistry Concepts in Nanotechnology

University of BC: Okanagan – Tamara Freeman

- Lab manager position will be coming up
- See opening comments by Gino DiLabio

University of BC Vancouver – Andrew McFarland

- New lecturer positions – not permanent, but more than sessional

- Implementing a basis skills test to determine course progression
 - C121 – Grd 12
 - C111 – Grd 11
 - C100 - Neither
- First year CHEM grade seems to correlate with math grades

University of Northern BC – Todd Whitcombe

- UNBC teaches analytical chemistry using wine analysis
- Staffing changes - curriculum review (4 faculty / 2 senior instructors)
- Discussed drop rate of students from Sept to Jan.

University of the Fraser Valley – David Fenske

- Drop in enrolment
- Running more upper level courses
- Recent hires – analytical and inorganic
- Revised first year curriculum
- Lab manual with Top Hat – wondering if they should jump in with full text?
- New bench-top NMR

University of Victoria – Dave Berg (sends regrets)**Vancouver Community College – Judith Wallace**

- 2nd year organic course is being sent around for articulation
- Offering a HS upgrade course

Vancouver Island University – Duane Friesen

- Moving into a new Health + Chemistry building (4th floor)
- New major in Fall 2019
- Math level issues (students cannot perform grd 8 math problems)
- Questions about Open Stax – Jessie Key Email: jessie.key@viu.ca
- You can have portions of the text printed
- Etext platforms are clunky and students are not using them even at a much lower price point

Yukon College – Ernie Prokopchuk

- Record enrolment (28 students)
- Considering testing students before they arrive on campus to determine competency level for CHEM course
- 3 students in organic
- No text, no figure numbers, no chapter titles – rebuilt the course to truly make it generic
- Links to Libra text
- Aiming for 2020 university status
- A joint program with UofA: Northern Conservation

9. New Business

9.1 Formaldehyde

- VCC biology lab uses formaldehyde for specimen storage
- Recent safety inspection measured volatile levels too high.
- Alcohol should be used as a substitution solvent (requires frequent replacement)

9.2 Articulation Week

Q: Is there a desire for an Articulation Week where many groups meet in the same location over a few days?

- Several articulation groups are already planning on meeting at Langara next year (Envir. Sci., biology, forestry/sustainability, geography, and agriculture/horticulture?)
- Patricia is happy to coordinate departments that exist at Langara and Tamara (UBCO) has offered to help plan additional seminars/resources workshops, etc.
- Decision will be made to move forward on this if Todd (UNBC) can organize/interest a BIG FISH (minister of Education?)

10. Future Meetings

- 2019 Langara College
- 2020 College of the Rockies (*tentatively*)

11. Adjournment

4:00 pm