



Centre for Bioengineering & Biotechnology  
Operational Steering Committee

**MINUTES**

Wednesday October 11, 2017

2:00 – 4:00 pm, East Campus 4, Room 2101 Boardroom (EC4-2101)

*Present: Catherine Burns, Elizabeth Meiering, Brendan McConkey, Melanie Campbell, Helen Chen, Brian Ingalls, Jennifer Boger, Chekema Prince, Krystina Bednarowski, Mei Lin Chen (student rep)*

*Regrets: Marc Aucoin (Sabbatical until Jan 2018), Elizabeth Meiering (Sabbatical until Apr 2018) Karim Karim, Safieddin Safavi-Naeini*

**Discussion Items:**

- Introduction of new Associate Director: Elizabeth Meiering, Chemistry replacing Trevor Charles, Biology. Karim Karim's term will be ending end of October; call for nominations forthcoming.
- New Operations Committee members:
  - Jen Boger, Systems Design Engineering
  - Helen Chen, School of Public Health and Health Systems
  - Brian Ingalls, Applied Mathematics
  - Shirley Tang, Chemistry
  - Alfred Yu, Electrical and Computer Engineering
- University Centre progress
- Office of Research suggested a yearly call for new members (new faculty to UW), along with encouragement from their home departments that all faculty members to belong to a centre (possibly tie it into merit).
- CBB Seed funding purpose is to encourage faculty to work together across faculties.
- Marketing materials –redefining research groups to better identify what our researchers do and communicating that with our external audiences.
- Healthcare outreach over the summer:
  - Cambridge Memorial
  - Grand River – facilitating projects through Sara/Tina, expansion of PwP to main campus (themes of Cancer and Stroke).
  - Ethics review panel
  - Council for Academic Hospitals for Ontario (CAHO) in Toronto is an innovation broker that facilitates research/start-ups to test or use their devices for hospitals. They are accepting applications from individual researchers or companies.
  - LLHIN – looking for others to submit innovation ideas
  - BIOTALENT is an HR Industry partner. They received funding this year in order to connect co-op with companies in the biotech space. Currently working with the UW Co-op office. CBB is looking for ways to direct grad students to them.
- Student engagement and networking – looking to host a research and commercialization lunch and learn this fall; helping students get off the ground.
- Biomedical Undergrad students running BioTEC conference, to learn and discuss career paths for biomed students.
- Combine 4<sup>th</sup> year projects with other faculties to encourage cross collaboration (Helen). E.g. Match SPPHS with Engineering projects.
- NCE call discussions
- CECR MEDTEQ (Quebec) – looking to work with Waterloo. Approximately \$50k funding packets to leverage into further funding channels.



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- Fall Activities:
  - MEDEC Oct 31 – meet/greet
  - AGM/Town Hall to be planned this fall.
  - IP Series re-run, hosting with Games and/or ICR over lunch, with a focus on software.
  - MITACS seminar with WCMR – Ashley Hannon is the new rep.
- Sorbonne Student Exchange – 130 Euro for a 1 year commitment (ends June 30) in biomed area. Looking to match them with research projects in this area for a 4 month period. Exchange students receive travel money on both ends, but UW students to France may need additional GRS support. Areas of interest: biomechanics & health, sports engineering, neuromuscular, microfluidics platform for platelet formation, e-biomedical objects for health monitoring, Microwave bio-sensors, Nanoparticle use with Lab-on-a-chip, Measuring Radio Frequency Electromagnetic Field, low magnetic field imaging systems, cardiovascular disease and fluid mechanics.
- Hiring: Hiring program director and communications. Process may take up to 1 year.
- Supercluster applications (regenerative medicine; personalized medicine) not invited to next step but the UW group in regenerative medicine (and Apobiologix) wants to build the UW relationship within continuous manufacturing and drug products, and machine learning approaches in drug manufacturing. They are also interested in the prospects of AI to do quality assurance tasks.
- CBB looking for seminar series speakers:
  - Biomedical discussion group; can cover for 1 night hotel stay or equivalent for guest researchers.
  - Bioinnovations series – sponsored by GE and needs to be approved by them
  - Visionary speaker series should have interest across UW.

### Action items:

- (MEI) Provide budget breakdown for upcoming events. Prepare agenda for event for approval.
- (MELANIE, BRIAN) Associate Director Nominating Committee
- (ALL) Sorbonne student exchange as noted in the areas of interest.
- (ALL) Nominations for speakers for CBB Biomedical Discussion Group, Bioinnovations, Visionary series.
- (CBB) help facilitate meeting with Helen to Combine 4<sup>th</sup> year projects with another faculty to encourage cross collaboration. Match SPPHS with Engineering projects.
- (CBB) Guelph Hospital outreach, Ontario Public Health agency – identify potential collaborations
- (CBB) Marketing Materials: Revision of research groups, marketing materials, powerpoint presentations
- (CBB) Centre necessities planning over next 5 years – Space, IT, Staff – Report to John Thompson

### Status Report

#### Centre Updates:

- Board of Directors Meeting (June 14)
- CBB Team and Operations Committee Changes
- University Centre progress - Directors Meeting with Charmaine – Sept 20, Meeting with John, Dianne re: Operations – Aug 21
- Marketing materials – CBB research group names
- Helen Chen – Clinical Analytics for Real-World Evidence – Looking for PostDocs, PhD and Masters students in CS, software engineering and analytics.



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- Jen Boger – SYDE looking for students with Human Interactive systems, interface design, UI/UX machine learning and social computing.
- CREATE - Global Biomedical Technology Research and Innovation, submitted Sept 20

### Company visits and events:

- Apr 12 – Pizza with the Prof (GRH): Jennifer Boger, Assistant Professor, Systems Design Engineering "Zero-effort Ambient Vitals Monitoring"
- May 10 – Pizza with the Prof (GRH): Paul Stolee, Heather McNeil "Geriatric Health Systems: Challenges and Opportunities"
- May 31 - Waterloo-Wellington Clinical Research and Quality Improvement Symposium (WWCRQIS) – McMaster/CFFM campus - Research and quality improvement in the Waterloo-Wellington region. It brings together local students, clinicians, professionals, and researchers who are working to improve the clinical care in our region.
- June - [Council of Academic Hospitals of Ontario \(CAHO\)](#), [Biotalent](#)
- July 15 – MEDTEQ/CECR application and LOS
- Aug 9 – Biomedical Discussion Group: Dr. Patricia Trbovich, Academic Research Lead, UHN and Assistant Professor, U of T at University Health Network and University of Toronto – Host: Catherine Burns, SYDE
- Sept 25 – CBB Seminar: Dr. Ying Chau, Associate Professor, Division of Biomedical Engineering and Department of Chemical and Biomolecular Engineering, Hong Kong University of Science and Technology (HKUST); Associate Director, Bioengineering Graduate Program, HKUST; Vice Chairman, Hong Kong Biotechnology Organization (HK BIO) "Physical and Chemical Approaches for Ocular Drug Delivery"
- Sep 29 - Biomedical Discussion Group: Dr. Mohammed S. Razzaque, MBBS, PhD, Department of Oral Health Policy & Epidemiology, Harvard School of Dental Medicine, Boston, Massachusetts, USA; Department of Pathology, Lake Erie College of Osteopathic Medicine, Erie, PA, USA – Host: John Mielke SPPHS

### Upcoming Calendar:

- Oct 20 – Roche company visit (Evelyn Allen)
- Oct 31 – Visit by MEDEC and Government of Canada Trade Commissioner
- Advisory Board Meeting
- AGM / Town Hall
- Uwaterloo IP Series – co-host with Games and ICR
- MITACS Seminar – co-host with WCMR
- WCMR/CBB collaboration opportunities
- Nov 22-25 – Sorbonne visit
- Nov 22 - MedTECH conference - potential theme - Clinicians and health innovation technology barriers.
- Nov 25 - BioTEC 2017 – UG Biotech conference, CBB sponsoring

### CBB Speaker Series:

1. **Pizza with the Profs:** 1x month, 2<sup>nd</sup> Wednesday of every month at GRH, researcher presenters
2. **Biomedical Discussion Group:** 1x month, 3<sup>rd</sup> Thursday of every month, faculty or PhD student presenters
3. **Bioinnovations Seminar:** 1x term
4. **Visionary Speaker:** 1x a year