



CANADIAN BIOMATERIALS SOCIETY
SOCIÉTÉ CANADIENNE DES BIOMATÉRIAUX



Annual General Meeting
May 19, 2016
12:15 - 2:00 PM (EST)
Congress Room 516AB

MINUTES

Meeting Called to order at 12.18pm

1. Approval of the Agenda (Lauren Flynn)

- Welcome
- Agenda was circulated to the membership by email on May 11, 2016
- ***Any discussion? - No***
- *Motion to approve: Brian*
- *Seconded: Malcolm*

2. Approval of the minutes from the 2015 AGM, April 15, 2015 (Lauren Flynn)

- Minutes were prepared by Stephanie Willerth and reviewed by Isabelle Catelas and Lauren Flynn
- Circulated to the CBS Board of Directors and approved at the BoD Teleconference on Oct. 28, 2016
- Posted on the CBS website and circulated to the membership on May 11, 2016
- ***Any discussion? Additions or revisions? - No***
- *Motion to Approve: Stephanie*
- *Seconded: Brian*

3. President's Report

- Lauren would like to thank the membership for the opportunity to serve as the CBS President for the past year
- Lauren also thanks the members of the Board of Directors for their commitment and hard work in support of the CBS, particularly for their efforts in establishing and awarding a series of new CBS Awards
- She would like to recognize Isabelle Catelas (finishing term as past president), Brian Amsden, Eli Sone, Malcolm Xing (Senior Board

members), and Ross Fitzsimmons (student member) whose terms are ending this year, for their contributions and service to the Society

- On behalf of the CBS, Lauren would also like to thank the members of the WBC 2016 organizing committee, including executive committee members Paul Santerre, Hasan Uludag, Gaetan Laroche and Diego Mantovani for their leadership in putting together an outstanding and truly international World Congress
- She would also like to thank the many other members of the CBS community who have contributed to the meeting, which has showcased the strength of the Canadian Biomaterials research community

a. Financial Report (Roz Labow)

- Slides were presented to summarize revenue and expenses. These will be posted on Dropbox and circulated to the board. Summarized below:
- Revenue: \$8150 Membership, ACS scholarship \$1335, GST refund \$1616+2819, CBS AGM \$2834, Plus a transfer from investment account of \$10 000.
- Expenses: Conferencing \$109, Juliana Travel \$2895, Roz award \$1000, student chapters \$2500, IUSBE delegate \$2000, UofT mtg exp \$3954, accountant fees \$3390
- Balances to date:
Checking account: \$31 994 - total awards \$23330 = \$8694.
Investment account \$128 461 plus \$60 000 loaned to WBC.

b. IUS-BSE Report

Fellows Elected at the WBC 2016 (Lauren Flynn)

- Congratulations to our newly inducted Canadian IUS-BSE Fellows in Biomaterials Science & Engineering (FSBE) **Brian Amsden, Sophie Lerouge and Rizhi Wang**, who were recognized at the opening ceremonies of the WBC
- All three are experts in their respective areas of research, active leaders in the Canadian biomaterials community, and outstanding role models and mentors
 - **Brian Amsden** has made significant contributions in developing and characterizing innovative polymeric biomaterials for applications in soft connective tissue regeneration and drug delivery

- **Sophie Lerouge** is well recognized for her expertise in biomaterials and tissue engineering for the development of new minimally-invasive approaches to treat vascular diseases.
- **Rizhi Wang** is an expert in orthopaedic biomaterials, who has made important contributions to understanding how interfacial properties impact host responses and the performance of implanted biomaterials.

CBS Representatives for 2016 – 2020 (Lauren Flynn)

- As discussed at last year's AGM, **Brian Amsden** and **Gaetan Laroche** will be taking over as the new CBS representatives for the IUS-BSE for the next 4 years
- Thank you to **Ze Zhang** and **Diego Mantovani** for their service over the past 4 years

IUS-BSE Updates (Ze Zhang)

Diego and Ze have served as delegates for past several years, (Ze 4 years for a total for two terms). He gave a brief introduction to the IUS-BSE for all members – an association of 10 biomaterials societies, each with 2 delegates as representatives of the governing body.

- The role is to promote biomaterials science in the world.
- One important point or goal is to increase membership, since this is closely related to the number of fellows that can be elected. The total number of fellows cannot be more than 10% of the active membership of the society. If membership plateaus, there should be a mechanism to allow new fellows to be elected so there is not a stagnation in the number of fellows: a working group has been appointed to address this issue.
- Another role of the IUS-BSE is to decide the venue of the next WBC – the venue in 2024 was discussed this year, and Deagu, South Korea was awarded.
- Paul Santerre adds a suggestion that with the resources that the CBS has we might want to consider teaming up with the Europeans or Koreans to create a special symposia for them that is embedded within the CBS so that when they are building the WBC they will know who the stars are in the Canadian field to invite.

c. CBS Awards at the WBC 2016 (Lauren Flynn)

- The establishment of awards to recognize the significant accomplishments and contributions of our Senior Members, as well as to support the development of our junior members, was a key priority for the CBS Board of Directors over the past year

Lifetime Achievement Award:

- The objective of the Lifetime Achievement Award is to honour a distinguished member of the Canadian biomaterials research community who has made significant long-term and transformative research contributions impacting the field at both a national and international level.
- Applicant Criterion: Senior PI with a record of participation in the CBS
- Frequency: To be awarded at each World Biomaterials Congress starting at the WBC2016, as well as on a case-by-case basis in other years
- Recipient will receive: \$2000 award from the CBS + certificate

Early Career Investigator Award:

- The objective of the Early Career Investigator Award is to recognize the research achievements of a Canadian biomaterials researcher within the early stages of his/her career as a Principal Investigator.
- Applicant Criteria: PI within 10 years of starting first academic appointment as a full-time faculty member, with a record of participation in the CBS
- Frequency: Every 2 years, starting at the WBC2016
- Recipient will receive: \$1000 award from the CBS + certificate

CBS Service Award:

- The objective of the CBS Service Award is to honour a CBS member who has made significant service contributions to the CBS community in promoting the development of biomaterials science, technology, and education in Canadian universities, industry, and government.
- Applicant Criteria: Individual who has made outstanding contributions to the development and/or leadership of the Canadian Biomaterials Society
- Frequency: Case-by-case basis, as frequently as once per year at the CBS Annual Meeting
- Recipient will receive: \$1000 award from the CBS + certificate

Nominations & Selection Process:

- Posted on the web but to summarize: For the LA and ECI Awards, nominations will be solicited by email sent to all current CBS members.
- For the CBS Service Award, candidates will be nominated by the CBS Board of Directors and the current IUS-BSE Representatives based on their record of service contributions to the Society.
- The Awards Selection Committee will be chaired by the CBS President (provided he/she is not in conflict) and made up of all elected senior

- members of the CBS Board of Directors, including the President-Elect and Past President, and the current IUS-BSE Representatives
- For each Award, the Selection Committee will be comprised of a minimum of 5 voting members plus a Chair
 - In cases where a large number of Committee Members have conflicts, current CBS members who have been elected as IUS-BSE fellows will be invited to serve as alternates to maintain the minimum number of voting members
 - Decisions based on review of the candidate's CV and letter of support from the nominator, as well as a candidate statement in the case of the ECI award

ACS Biomaterials Science & Engineering Awards

- Milica Radisic, who is an Associate Editor of ACS Biomaterials Science & Engineering put forward a proposal that the journal consider sponsoring an award for CBS student members presenting at the annual CBS meeting
- After discussion with Dr. Paulomi Majumder, the managing editor of the journal, it was agreed that the journal would sponsor two \$500 (USD) awards for top-scoring abstracts submitted by CBS graduate student members to the WBC 2016
- The goal is that this will be an ongoing collaboration, with awards conferred annually at the CBS meetings
- However, the funding is structured as a year-to-year sponsorship, rather than a contractual agreement, so this is something that the board will continue to seek yearly
- The faculty members on the BoD conducted an independent review of the top-scoring CBS student abstracts awarded oral presentations at the WBC and selected the two ACS Biomaterials Science & Engineering Oral Abstract Award winners, who will be announced at the CBS Awards Symposium on Friday

CBS Travel Awards

- The Board awarded a total of 30 travel awards to junior CBS members based on their top-scoring abstracts submitted to the WBC (Posters + Orals)
- The Board wanted to ensure that both graduate student and PDF members were supported – five of the awards were granted to PDFs
- The award values were \$500 for students in Ont/Que, \$800 for PDFs in Ont/Que, \$1000 for students outside of Ont/Que, and \$1300 for PDFs outside of Ont/Que

2016 Senior CBS Award Winners

- **Inaugural Lifetime Achievement Award Winner: Dr. John L. Brash** (Distinguished University Professor at McMaster University and a Fellow of the Royal Society of Canada) is the inaugural winner of the CBS Lifetime Achievement Award. John has been conducting pioneering research in the fields of polymeric biomaterials and protein-surface interactions for more than 45 years. He is internationally recognized for his landmark contributions in the areas of protein adsorption and blood compatibility, the development of biomedical polyurethanes, and the application of surface modification techniques to control cell adhesion. His research in these areas has shaped our understanding of cell-biomaterial interfaces, and has also helped to revolutionize the use of polymers in the medical device industry. (**Research Talk:** *“Protein interactions at the biomaterial-tissue interface, the inescapable reality: understanding, preventing, controlling”*)
- **Inaugural Early Career Investigator Award Winner: Dr. Todd R. Hoare** is the inaugural winner of the CBS Early Career Investigator Award. Todd has rapidly gained world-wide recognition for his work on environmentally-responsive hydrogels for applications in drug delivery and tissue regeneration. His lab has made seminal contributions to the field of “smart” materials-based technologies, including remote-controlled drug release and hydrogels that can elicit tunable cellular responses. (**Research Talk:** *“Engineering Degradable Smart Hydrogel Biomaterials on Multiple Length Scales”*)
- **CBS Service Award Winner: Dr. Paul Santerre** is the 2016 recipient of the CBS Service Award. Paul has been a highly active contributor to the development of biomaterials science, education and technology in Canada. In addition to his role as the President and Co-Chair of the WBC 2016 Organizing Committee, Paul has also served as both a CBS Board Member and President, and was the lead organizer for two previous CBS meetings in Toronto, as well as being involved in the organization of the WBC 1996 in Toronto. As an elected Fellow of Biomaterials Science and Engineering, Paul is highly active as a Canadian representative in the international community. He is also well recognized as an outstanding mentor, and his success with his spin-off company Interface Biologics serves as a model in terms of biomaterials technology development and commercialization in Canada.

d. CBS Visiting Scholar Award (Lauren Flynn)

- The CBS BoD would like to encourage PhD members to apply for the CBS Visiting Scholar Award; Only 2 students have ever applied for this award (Azadeh Goudrazi, 2012 & Juliana Valencia-Serna, 2015)

- The award, which has a maximum value of \$3,000, is to help cover travel and housing expenses for a research exchange of up to 2 weeks; The goal is to facilitate new collaborations and promote knowledge exchange between CBS member lab groups, an opportunity to travel across the country to another CBS lab
- The award is open to Ph.D. students in their 2nd year and above, working in the field of Biomaterials. The student must have been a CBS member for at least 1 year at the time of application and have attended at least one annual CBS meeting prior to applying for the award. The supervising professors at the home and host institutions must also be registered as current CBS members.
- Applications are due annually on July 1, to be sent by email to the CBS Secretary (reminder email will be sent out shortly after WBC to encourage people to apply)

e. CBS History (Lauren Flynn)

- As discussed at last year's AGM, the Board of Directors would like to prepare a detailed "history of the CBS" to be included on the CBS website
- Isabelle recruited 3 students at last year's AGM (Yinan Zhang, Erika Siren, Alex Steeves) to help with this initiative
- Moving forward, the plan is for the Communications Subgroup of the CBS BoD to take leadership of this initiative
- The group will be contacting Senior members in the community to collect information
- The Board would welcome additional junior members interested in volunteering to help with this process. ***Any volunteers? If so please send an email to Lauren/Todd***
- ***Paul Santerre highlights that Hasan had a 2005 Biomaterials article on CBS history, and IBBME website has a summary from Dennis Smith who also wrote a summary of the history back to the early 70s***
- ***Ze Zhang suggests this initiative should involve a senior member of the society***
- ***John Brash clarifies he wrote the article Biomaterials in Canada the first 4 decades goes up to 10yrs ago and suggests that someone could take steps to cover the next generations***

f. Local Chapter Updates (Alberta: Juliana Valencia-Serna; BC: Felipe Eltit Guersetti; Montreal: Antony Bertrand-Grenier; Ottawa: Alex Steeves; Quebec: Vanessa Montaña-Machado)

Alberta (Abdullah co-president): Three main activities: 1) Fundraisers (fall BBQ and winter samosa sale). 2) Arranged biomaterials seminars (Michael Serpe Dept Chemistry, Allen Eaves, StemCell Technology CEO). 3) Academic-industry mixer (BiomatConnect, with theme to translate research into profitable products; keynote: Pieter Cullis, UBC, and panel discussion with 3 members). Successful with Graduate and Student Union Grants and external grants. Chapter website: ABbiomat launched.

BC (Felipe): Enhanced activities, sponsorship from StemCells, summer BBQ event and organized technical seminars - Biomaterials from the lab to Industry, with industrial partner StemCells and PIs. Have a lot of funds for next year.

Montreal: (Eric) Planning for WBC so executive council has almost doubled during the last year, thanks all the students who did work for the student activities at WBC. Short seminar on molecular diagnostics to present and funded by a group for biomedical engineering and funds from CBS. Second seminar: 3D printing and tissue engineering (Diego Mantovani and Jake Barralet). Elections in next month. Planning another event in fall.

Ottawa (Alex): Hosted one seminar on atypical paths for a student career, and planned two seminars but these did not work out and will be rescheduled for the summer, these will be seminars: biomaterials and the heart, and tissue engineering. Membership is stable but want to raise awareness, and include more members from Carleton. Planned recruitment events for graduate events and 3rd/4th undergrad students. Working on funding, have contacted GSA at UOttawa, and will approach Student Federation at University of Ottawa for more funding.

Quebec (Vanessa): Have hosted one meeting per month- 14 seminars with professors from India France, etc, and Canada. Hosted two seminars on imaging software and scientific education. Hosted a big event: 5 keynotes from France and Canada, and a workshop on commercialization with help from Paul Santerre. Thanks to all the sponsors, lunch and cocktails offered during events. Annual meeting two weeks ago and was used to practice for students presenting at WBC and other conferences, 15 oral and 15 poster, 2 keynotes. Elections for new committee took place. Also worked very hard to assist in logistics and volunteers for WBC- thanks to students and organizers.

4. CBS 2017: Winnipeg (Malcolm Xing)

- Dates set: May 24-27 Thursday to Saturday
- University committee members from several faculties: Agriculture, Medicine, Science and Engineering.
- Funding support from university faculties, Winnipeg government and Manitoba health research council are being contacted.
- Hotel with special conference rate has been secured.

- Fort Garry campus has been selected as the main conference venue (engineering building).
- Waiting for financial updates to decide the keynote speakers - several from Canada and USA have been contacted, and will give more information after this summer.
- Topics will be similar to in the past but include new sessions on 3D bioprinting and biosensors.
- Thanks to Todd and Isabelle for information on previous conferences.
- Information is available at the CBS booth for the conference.

5. Overview of next year's events and focus (Todd Hoare)

- Thanks to Lauren for leadership of Society through busy period up to WBC, which has been a significant amount of work.
- Over 500 abstracts from Canada – an average CBS meeting has 150-200 – many new people here – unique opportunity to build the community in Canada through WBC. Next meeting in Winnipeg – please make an effort to come and keep momentum going: we will try to assist as much as possible with funding for students postdocs to get to Winnipeg.
- Priorities for coming year:
 - 1) Fortunate to have financial legacy from last WBC in Canada and hoping for another strong legacy from Montreal - use our positive financial position to better support the Canadian biomaterials community.
 - CBS visiting scholar award – it is under subscribed
 - Started awards this year – maintain and add to this, perhaps postdoc awards to help them?
 - Large investments in travel scholarships for students (\$19,000 invested at WBC – more than we spent to China and Amsterdam) – continuing with Winnipeg
 - Consult with community as to how to invest – priority being students and trainees
 - 2) Improving our connections into the clinic – potential opportunities coming out of WBC – 2 BoD nominees are clinicians. Also we will try to increase industry involvement in CBS (important for grants in particular) - we need your help to do so.
 - 3) Find ways to further connect student chapters – they are doing a tremendous job of running local events, but the community as a whole is not as aware of these activities and the student chapters often do not connect - we can try to facilitate better connections. Perhaps add GTA chapter, interest in Halifax, perhaps others across Canada. Discuss how to use website more effectively to advertise events/awareness.

6. Future CBS conference locations (Todd Hoare)

CBS Conference Locations for 2018:

- For CBS 2018 – 5 candidates were solicited from the Toronto AGM, 3 since dropped out – leaving Victoria and Quebec City. Diego suggested he would yield to another candidate and made standing offer to host in Quebec City in the future
- Stephanie Willerth highlights Victoria as a location for CBS 2018:
Reasons to come to Victoria: location, proximity to campus and beach
Biomedical engineering undergraduate program just accredited
Centre for Biomedical Materials Research also there
Social aspects: whiskey distillery and micro-breweries
Several investigators in biomaterials are now there
Close to Vancouver and UBC
- Motion to Approve Victoria as a location for CBS 2018
Motion: Felipe Eltit
Seconded: Malcolm Xing
Approved by show of hands

CBS 2019 –we are trying to identify locations at least 2 years early to be eligible to apply for CIHR funding:

- Quebec City and Waterloo already indicated interest.
- Brian Amsden puts forward Kingston
- This is not a closed process, contact Todd if you are thinking about it.

7. Elections (Todd Hoare)

Todd and Lauren will continue as president and past-president, Sophie and Douglas continue as senior board members, Roz continues as treasurer.

- **Two nominations received for the President-Elect:**

1. Stephanie Willerth
Motion: Ze Zhang, Second: Larry Unsworth
2. Ze Zhang
Motion: Rizhi Wang, Second: Malcolm Xing

- **Nine nominations received for 3 Senior Board of Directors (BoD) Members**

8. Dr. Yoav Finer – University of Toronto (nominator: Paul Santerre)
Second: Larry Unsworth. Accepts.
8. Dr. Stephanie Willerth – University of Victoria (nominator: Nima Khadem

Mohtaram)
Second: Paul Santerre. Accepts.

8. Dr. Kathryn Grandfield – McMaster (nominator: Lauren Flynn)
Second: Brian Amsden. Accepts.

8. Dr. Mina Mekhail (McGill) (nominator: Kaushar Jahan)
Second: Houman Savoji. Accepts

8. Dr. Eli Sone – University of Toronto (nominator: Douglas Hamilton)
Second: Tom Willett. Accepts

8. Dr. Isabelle Catelas – University of Ottawa (nominator: Eric Lehoux)
Second: Sophie Lerouge. Accepts.

8. Dr Heather Sheardown – McMaster (nominator Brian Amsden)
Second: Lauren Flynn. Accepted via email.

8. Dr. Jayachandran N Kizhakkedathu- UBC (nominator Rizhi Wang)
Second: Ze Zhang. Accepts.

8. Dr. Thomas Willett – Univeristy of Waterloo (nominator Mark Filiaggi)
Second: Eli Sone. Accepts.

- ***Nominations for the Student BoD Representative***

1. Ross Fitzsimmons (Toronto) (Nominator: Lauren Flynn)
Accepted. Second: Alex Steeves

2. Houman Savoji (McGill) (Nominator: Sara Babaei, Nima Khadem Mohtaram, Yasaman Alinejad) Accepts. Second: Sophie Lerouge

Candidates will be contacted via e-mail for statements, elections to be held through CBS website in early June

8. Closing Remarks (Todd Hoare)

Enjoy the rest of WBC, see you next year in Winnipeg!

9. Other remarks:

- Ze Zhang: highlights our CBS member from Mexico
- Roz: Thanks Lauren for successful year and regular meetings and great job as president

10. Adjournment called at 1.43pm

- Motion: Kibret Mequiant, Seconded: Tom Willett