

## **International Affiliation Interview Questions 2020**

### **National Research Council of Canada**

#### **Annual General Meetings (AGM) & International Union Activities**

1) When and where was your last AGM? Was it in-person or virtual?

- The last IUCr General Assembly was held in-person 21-28 August 2017, Hyderabad, India

2) When and where will your next AGM be? Will it be in –person or virtual?

- The next AGM was originally planned for 22-30 August 2020, Prague, Czech Republic. The meeting was postponed to 2021 due to the COVID-19 Pandemic. It will be held in-person.

3) What were some of the highlights of your Canadian National Committee's (CNC) engagement at the international organization's last AGM meeting?

- Jim Britten (McMaster University) and Pawel Grochulski (Canadian Light Source, Inc) were members of the International Program Committee and Patrick Mercier (NRC) was a member of the program committee for the 2017 IUCr Crystallographic Computing School held in Bangalore (August 2017).
- Three Canadian delegates participated in the 2017 IUCr Congress. They were Louise Dawe (chair of delegation), Pawel Grochulski (delegate), Tomislav Friščić (delegate), and Patrick Mercier (alternate delegate). The chair of the delegation coordinated with all participating Canadians before and during the Congress and prepared the final report about the General Assembly deliberations. Canadians were invited to present 2 keynotes, 9 oral presentations, and 12 poster presentations. Additionally, 4 micro-symposia were co-chaired by Canadians. Overall, there were 25 Canadian registered participants at the meeting.
- Various Canadians were nominated and most were eventually successfully voted to fill vacancies on IUCr commissions and the Executive Committee of the IUCr. Hanna Dabkowska (McMaster University), was elected Vice-President of the Union. Canadians were elected/renewed to serve as members on 8 commissions with two acting as Chairs. Hanna Dabkowska was again chosen as the IUCr representative on the ICSU Committee on Space Research (COSPAR).
- Four Canadians are co-editors of the IUCr Journals: Albert Berghuis (McGill University, Acta D and IUCrData), Alan Lough (University of Toronto, Acta E and IUCrData), Gil Privé (University of Toronto, Acta F and IUCr Data), and Louise Dawe (Wilfrid Laurier University, Acta Cryst C).

- The Canadian delegates voted in favor of the Statement on Gender Balance and Creation of WH & WL Bragg Prize, and the recommendation that the unit contribution remains unchanged.

### Events Organized by your Union

4) Were there other national or international meetings/events that took place this past year that were organized by your **union**? This may include events that have been postponed due to COVID-19 (ex. Meetings, research programs, work-program, commission, panels)?

- What events took place? What was the nature of these events (ex. administrative, technical, public engagement, community engagement)?
  - The American Crystallographic Association (ACA) is the North American Regional Affiliate of the International Union of Crystallography (IUCr). The 2019 ACA Annual meeting was held July 20-24 in Covington, Kentucky, USA. This meeting allows scientists, professionals, students, authors, educators and researchers from around the world to share ideas and collaborate on crystallography topics. The Canadian Division of the ACA is a branch of the ACA which serves to represent the interests of Canadian crystallographers within the ACA. Each year, there is a face-to-face meeting of the Canadian Division held during the annual ACA meetings, where all Canadian participants are invited to attend. Topics discussed usually include communications from the national committee, and information about up-coming crystallography events planned in Canada.
  - Joint meeting of The Pan African Conference on Crystallography and the second African Light Source Conference were held in-person Jan 28-Feb 2, 2019 in Accra, Ghana. The theme of the meeting was “Crystallography, a tool for sustainable development in Africa”.
  - The Latin American Crystallographic Association (LACA) is the South American Regional Affiliate of the IUCr. The 2019 LACA meeting was held Oct 7-10 in Bucaramanga, Columbia.
  - The Asian Crystallography Association (AsCA) meeting was held Dec 17-20, 2019 in Singapore.
  - The 2019 European Crystallographic Meeting (ECM) organized by the regional affiliate of the IUCr, the European Crystallographic Association, was Aug 18-23, 2019 in Vienna, Austria. The themes of all the regional meetings such as the LACA, AsCA and ECM are similar to those of the ACA already described above.

- The annual IUCr Crystal growing competition is an international competition that exposes kids in primary, middle and high-school to crystallography through a competition to grow crystals. Submissions were accepted until 17 Nov, 2019 and winners were notified on Jan 27, 2020.
- What events were postponed due to COVID-19? What was the nature of these events? When are these events scheduled to take place? How will these events take place, in person or online?
  - Due to COVID-19, the 2020 ACA meeting will be a virtual meeting and will be held August 2-7, 2019. The scientific content is like in-person meetings. The Committee Vice-Chair, Prof. Louise N. Dawe, is the Poster Program Co-Chair for this meeting and is also co-chairing a session with the student representative on the Committee Matthew Brown ("Cool Structures: Important Science from Small Molecules"). Mr. Brown is also chairing another session independently at this meeting ("Would You Publish This".)
  - The 2020 ECM meeting has been postponed due to COVID-19.

5) Are there any other ways your Union is engaging with its National Committees during COVID-19 (ex. international online workshops, panels etc.)?

- The decision to postpone the 2020 Meeting was made after consultation with the National Committees. The option of having virtual scientific sessions and virtual meetings in 2020 were proposed but the majority of national committees preferred an in-person meeting postponed to 2021.

#### **Accomplishments by your National Committee**

6) Is there an updated website with all the available accomplishments made (peer reviewed publications, technical reports, literature reviews/scans, etc.,) or key events hosted (workshops, public engagement, community engagement etc.,) by this CNC? If not, please briefly describe your CNC accomplishments for this year.

- The CNCC(CNC-IUCr) maintains a website at <https://xtallography.ca> with detailed information about the committee, and its activities. However, the accomplishments of the committee are listed below
- The committee formalized its operations into bylaws which are posted on the above website.
- The committee and its members sponsored and/or organized several events to promote crystallography in Canada.

- The 10<sup>th</sup> Canadian Chemical Crystallography Workshop (CCCW19) was held at Concordia University from May 26-29, 2019 in Montreal, QC. The participants included 19 students from across Canada, 7 instructors, and a local chair. <https://xtallography.ca/index.php/xtal/meetings/cccw19>
- The 12<sup>th</sup> Canadian Powder Diffraction Workshop was hosted at Trois-Rivieres, QC May 8-11, 2019. The workshop attracted a record of 35 participants. <https://xtallography.ca/index.php/xtal/meetings/cpdw-12/>
- The 1<sup>st</sup> Canadian Materials Diffraction Workshop was held Aug 20-23, in Fredericton, NB. There were 19 participants attended the event. <https://xtallography.ca/index.php/xtal/meetings/cmdw2019/>
- The 9<sup>th</sup> Annual CLS MX Data Collection School was held June 25-29, 2019 in Saskatoon, SK. The participants included 20 students and 8 instructors. <https://cmcf.lightsource.ca/about-cmcf/mx-data-collection-school/>
- The 2019, BHT meeting which brings together macromolecular crystallographers from the Buffalo, Hamilton and Toronto area, was held at McMaster University, on Nov 1<sup>st</sup>, 2019.
- The 6<sup>th</sup> Crystal Engineering and Emerging Materials Workshop of Ontario and Quebec (CEMWOQ-6) was held May 30-June 1 at Concordia University, QC. The conference attracted approximately 130 attendees. <https://www.concordia.ca/artsci/chemistry/cemwoq6.html>
- The committee's Larry Calvert Travel Fund awarded travel awards to 35 students, postdocs and researchers to facilitate their participation at national and international crystallography related events in 2019. The average award amount was \$400 CAD. The committee is now committed to continuing this support annually. <https://xtallography.ca/index.php/student-funding/63-2/>

7) Are there any specific accomplishments/successes made by your CNC within the last year that we should consider highlighting?

No

8) How has your National Committee engaged with its members during COVID-19?

The CNC-IUCr typically meets several times a year via teleconferences therefore the COVID-19 Pandemic has not significantly affected how the committee engages with its members. Committee meetings have continued as usual.

- Does your National Committee have any plans to organize online workshops, teleconferences, panels etc. with its members in the next 6 months?

Due to COVID-19, some events sponsored/organized by the committee and its members have been cancelled and others have been converted to online events.

- CEMWOQ-7 has been postponed to 2021. In its place, CEMWOQ-6.5 was organized online from May 30-31. The online workshop was attended by more than 300 participants from 5 continents. It is anticipated that the online event will continue post COVID-19 as a new event called Crystal Engineering and Emerging Materials Workshop of the World (CEMWOW).
- The 2020 Canadian Chemical Crystallography Workshop (CCCW), was converted to an online event. Participants included 26 students and 10 instructors from across Canada and the US.
- The 2020 Canadian Powder Diffraction Workshop (CPDW) and the 2020 Canadian Materials Diffraction Workshop (CMDW) have been cancelled due to COVID-19.
- The 2020 CLS-MX School was also cancelled.

### **Financial/Structural**

9) How has the work of your national committee been affected by COVID-19?

- The committee awarded 19 travel awards to students and postdocs in March 2020 for events that have all been cancelled. Funds are not disbursed until awardees attend events, and so the award winners have been informed of their successes but will have to re-apply for future support to attend events that are not canceled.
- The Triennial AGM of the IUCr was originally scheduled for Prague in 2020. The event has been postponed to 2021. Therefore, all preparatory activities such as the selection of delegates for the AGM have been delayed.
- The Larry Calvert Fund investments have been affected by changes in the markets due to COVID-19.

10) Will your national committee host/convene annual meetings?

The committee does not hold a dedicated annual meeting. Rather, the members of the committee meet via teleconference several times a year. An informal in-person meeting is usually held at the annual American Crystallography Association Meeting which will be a virtual event in 2020.

- If so, how will they take place and when is your next scheduled meeting?

The Committee will continue meeting as before, on an approximately monthly basis. The next in-person ACA meeting will take place in 2021.

### **Additional Questions**

- 11) Does your national committee or international union have any new programs aimed at supporting or encouraging participation from young researchers/students, women &/or underrepresented groups?

#### *National Committee*

A subcommittee is currently working to establish a virtual lectures series named after a Canadian crystallographer from an equity seeking group, or who has promoted the inclusion of members from equity seeking groups. Using a virtual forum would enable more participation from early career researchers, women and underrepresented groups, who may not be able to engage in this activity in person.

We are also looking at increasing the educational resources hosted on our website, as a compliment to our in-person workshops.

The bylaws of the committee were approved in October 2019 and include a statement on Equity, Diversity and Inclusion (Article III. Section 1). <https://xtallography.ca/wp-content/uploads/2019/10/CNCC-Bylaws.pdf>

#### *International Union*

Feb. 2019: The IUCr established a Gender Equity and Diversity Committee (GEDC). The GEDC aims to address issues and establish new practices and policies to overcome inequity in the IUCr's processes. The GEDC has established a Code of Conduct for the IUCr and a IUCr Gender Equity and Diversity Statement: <https://www.iucr.org/iucr/governance/advisory-committees/gedc>

Aug. 2019: Nominations for the inaugural W. H. & W. L. Bragg Prize closed on Aug. 31, 2019. While announcement of this award has been postponed due to COVID19, this prize will be awarded to up to two promising early-career crystallographers. <https://www.iucr.org/iucr/bragg-prize>

## Administrative Updates

1) Please provide an up to date list of CNC secretariat members and the following information:

<i>Title</i>	<i>Name</i>	<i>CNC Position Title</i>	<i>Affiliated Institution</i>	<i>Email Address</i>	<i>Term (if applicable)</i>	<i>Estimated in-kind hours contributed this past year</i>	<i>Participated in International Union/Affiliation AGM (Yes/No)</i>	<i>Participated in CNC Annual Meeting (Yes/No)</i>
Prof	Tomislav Friščić	Chair (former Vice-Chair & ACA representative in 2020)	McGill University	tomislav.friscic@mcgill.ca	2020-2023	~70	N/A	Yes
Dr	Louise Dawe	Vice-Chair	Wilfrid Laurier University	ldawe@wlu.ca	2020-2022	~181	N/A	Yes
Dr	Brian Patrick	Treasurer	University of British Columbia	bpatrick@chem.ubc.ca	2015-2020	~70	N/A	Yes
Dr	Michel Fodje	Secretary	Canadian Light Source	michel.fodje@lightsource.ca	2015-2021	~120	N/A	Yes
Mr	Matthew Brown	Young Scientist Representative	Simon Fraser University	Matthew_Brown_2@sfu.ca	2019-	~7	N/A	Yes
Prof	Andreas Decken	Member	University of New Brunswick	adecken@unb.ca	2015-	~15	N/A	Yes
Prof	Alba Guarné	Member	McGill University	alba.guarne@mcgill.ca	2020-	N/A	N/A	Yes
Dr	Patrick Mercier	Former Chair	NRC	Patrick.Mercier@nrc-cnrc.gc.ca	2020-2022	~30	N/A	Yes
Dr	Nick Vukotic	Member	University of Windsor	nvukotic@uwindsor.ca	2019-	~15	N/A	Yes
Dr	Gerald Audette	Member, ACA Representative	York University	audette@yorku.ca	2020-2022	~40	N/A	Yes

2) Please provide any additional comments on CNC membership (ex. Mailing list, affiliates etc.):

One former members left the committee at the end of 2019 (Pro Lynne Howell, Hospital for Sick Kids). Two new members joined the committee at the beginning of 2020 (Dr Gerald Audette, and Prof Alba Guarné).

3) Please provide the details of any Canadian union members sitting on the Executive Body of your international affiliation/union in the last year:

<i>Name of Canadian Researcher</i>	<i>Executive Role on International Affiliation</i>	<i>Title/Position of their primary place of work</i>	<i>Term of their Executive Role on International Affiliation</i>
Dr Hanna.A. Dabkowska	Vice-President	Research Scientist, McMaster University	2017-2020
Prof. Tomislav Friščić	Canadian Representative to the ACA (2019)	Principal Investigator, McGill University	2016-2019
Prof. Gerald Audette	Canadian Representative to the ACA (2020)	Principal Investigator, York University	2020-2023

4) Please provide the details of any Canadian union members participating in non-executive committees, research programs, work-program, commission, panel position or other sub-structures/groups managed through the international affiliation:

<i>Name of Canadian Researcher</i>	<i>Position on the Body International Affiliation</i>	<i>Committee/Research/ Program/Other</i>	<i>Term on the Body International Affiliation</i>
Patrick Mercier	Member	Commission on Crystallographic Computing	2012-2020
Patrick Mercier	Chair	Commission on Inorganic and Mineral Structures	2017-2020
Pawel Grochulski	Chair	Commission in Synchrotron and XFEL Radiation	2017-2020
Pawel Grochulski	Member	Commission on Biological Macromolecules	2017-2020
Chérif Matta	Member	Commission on Quantum Crystallography	2017-2020
Howard Young	Member	Commission on Electron Crystallography	2017-2020
Roderick Wasylshen	Member	Commission on NMR Crystallography and Related Methods	2017-2020
David Bryce	Member	Commission on NMR Crystallography and Related Methods	2017-2020
Jim Britten	Consultant	Commission on Crystallographic Teaching	2017-2020
Michel Fodje	Consultant	Commission on Crystallographic Computing	2017-2020



Louise Dawe	Member	IUCr Sub-Committee on the Union Calendar	2017-2020

5) Please provide the details of any Canadian union members participating in the International Science Council (ISC) related work including on committees, research programs, work-program, policy or position documents, commissions or other sub-structures managed through ISC secretariat:

<i>Name of Canadian Researcher</i>	<i>Contribution</i>	<i>ISC Participation</i>	<i>Term of ISC work</i>
Hanna A. Dabkowska	IUCr Representative	ICSU Committee on Space Research (COSPAR)	2005-2020