

**2021**  
**Annual Performance Review Questionnaire**  
**National Research Council of Canada**

*This questionnaire is for activities during the calendar year 2021 (January 1 – December 31, 2021), but please include unreported activities from last year and feel free to include future activities.*

**Annual General Meetings (AGM) & International Union or International Program Activities**

- 1) When and where was the last AGM of your International Union or International Program? Was it in-person or virtual?
  - 14–22 August 2021, Prague, Czech Republic. Hybrid virtual/in-person meeting
- 2) When and where will the next AGM be? Will it be in-person or virtual?
  - 22–29 August 2023, Melbourne, Australia. Hybrid virtual/in-person meeting
- 3) What were some highlights of your Canadian National Committee's (CNC) engagement at the International Organization's last AGM meeting?
  - Patrick Mercier (Corem, QC, Canada) was on the international program committee.
  - Three Canadian delegates and two alternates participated in the 2021 IUCr Congress. They were Louise Dawe (chair of the delegation), Tomislav Friščić (delegate), Marie Fraser (delegate), Gerald Audette (alternate), Michel Fodje (alternate). 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 1 keynote, 1 award lecture, 3 oral presentations, and 3 poster presentations. Additionally, 1 micro-symposium was co-chaired by Canadians. Overall, there were 19 Canadian registered participants at the meeting
  - Two Canadians were nominated for Executive Committee positions. Hanna Dabkowska (McMaster University) was nominated and successfully elected President of the Union. Pawel Grochulski (Canadian Light Source), was nominated as an Ordinary Member of the Executive Committee; this nomination was unsuccessful.
  - An invitation to host the 2026 General Assembly and Congress was presented on behalf of a group consisting of the Canadian National Committee for Crystallography, the United States National Committee for Crystallography, and our regional affiliate, the American Crystallographic Association, to hold the Congress in Calgary, Alberta. The Bid was successful and the event will be held at the BMO Centre at Stampede Park, Calgary, Alberta, Canada from Aug. 11–18, 2026.

- Canadian Jean-Philippe Julien (University of Toronto) shared the first WH & WL Bragg Prize. This new award was created at the 2017 General Assembly to recognize the contributions of an outstanding early career researcher.

**Other Engagements Organized by your International Union or International Program**

- 4) Would you like to highlight any other national or international meetings/events or engagements, that were organized by your International **Union** in 2021? (For example, meetings, research programs, work-program, commissions, panels)?
- HPW-21 — A Workshop of the IUCr Commission on High Pressure, held virtually on 1–6 Feb, 2021.
  - Sixth Conference of the Bangladesh Crystallographic Association, held virtually on 15–16 January 2021
  - 55th Course of the International School of Crystallography: Molecular Crystal Engineering, held virtually 31 May–4 June 2021.
  - The 6th European Crystallographic School (ECS6), the school of the European Crystallographic Association under the auspices of the IUCr, was held virtually from 4 to 10 July 2021.
  - The 2021 American Crystallographic Association Annual meeting was held virtually, July 31–Aug 5 2021.
- 5) Please list any Canadian speakers at the international meetings/events organized by your International Union in 2021 or provide links to the event(s). Please note that this information is used in aggregate to develop a metric to illustrate the performance of the overall grants-in-aid program.

<i>Name of Canadian Speaker</i>	<i>International Event</i>	<i>Session Name</i>	<i>Event website</i>
Louise N. Dawe, Wilfrid Laurier University	25 <sup>th</sup> IUCr Congress	High impact crystallography skills development through local undergraduate curriculum and regional workshops and schools	<a href="https://iucr25.org">https://iucr25.org</a>
Luzia S. Germann, McGill University	25 <sup>th</sup> IUCr Congress	Ab initio powder structure analysis for polymorphism and phase transformation studies with pharmaceutical applications	<a href="https://iucr25.org">https://iucr25.org</a>

Natalie Strynadka, University of British Columbia	25 <sup>th</sup> IUCr Congress	Structural hybrid methods to probe membrane transport nanomachines in pathogenic bacteria	<a href="https://iucr25.org">https://iucr25.org</a>
Jean-Philippe Julien, University of Toronto	25 <sup>th</sup> IUCr Congress	W.H. and W.L. Bragg Prize Lecture	<a href="https://iucr25.org">https://iucr25.org</a>
Chérif F. Matta, Mount Saint Vincent University	25 <sup>th</sup> IUCr Congress	Quantum crystallography in materials science	<a href="https://iucr25.org">https://iucr25.org</a>
David Bryce, University of Ottawa	25 <sup>th</sup> IUCr Congress	Polymorphism and structural transformation of organic crystals from synthesis to characterization	<a href="https://iucr25.org">https://iucr25.org</a>
John Rubinstein, Sick Kids Hospital, Toronto	2021 ACA Meeting	Plenary Lecture	<a href="https://www.amercrystalassn.org/past-meetings">https://www.amercrystalassn.org/past-meetings</a>

### Canadian National Committee Activities and Highlights

- 6) Do you have an updated website with your Canadian National Committee highlights made (peer reviewed publications, technical reports, literature reviews/scans, etc.) key events hosted (workshops, public engagement, community engagement etc.)? If not, please briefly describe your CNC accomplishments for this year. Are there any specific successes that we should consider highlighting in our reporting?
- The CNCC has a website with information about the committee, its activities, travel funding opportunities for students, and information about workshops.
  - The CNCC provided 8 Larry Calvert awards to students from Canadian academic institutions to support their participation at crystallography workshops and conferences.
- 7) How has your CNC engaged with its members? Please list any events, workshops, panels or other (please specify) that took place or are already planned for 2022.
- The committee does not hold a dedicated annual meeting. Rather, the members of the committee meet via teleconference several times a year. The committee met 4 times in 2021 and has already met once in 2022. The next meeting is planned for April 2022.
- 8) Will your national committee host annual meetings or other engagements? Please list those that took place in 2021 and any already scheduled for 2022.
- The committee organizes or sponsored several crystallography workshops in Canada each year.
    - The 2nd Canadian Materials Diffraction Workshop, Jul 26-29 2021 (virtual)

- The 12<sup>th</sup> Canadian Chemical Crystallography Workshop (CCCW21), Aug 8–11, 2021 (virtual)
- The 14<sup>th</sup> Canadian Powder Diffraction Workshop (CPDW14), Oct 30–Nov 2, 2021 (in-person)
- The 13<sup>th</sup> Canadian Chemical Crystallography Workshop (CCCW22), is scheduled for June 9–12, 2022.

9) Has your CNC submitted or won a bid to host an international event in Canada? Please provide some details.

- Yes. The bid to host the 2026 General Assembly and Congress was presented on behalf of a group consisting of the Canadian National Committee for Crystallography, the United States National Committee for Crystallography, and our regional affiliate, the American Crystallographic Association, to hold the Congress in Calgary, Canada. The Bid was successful. The event will be held at the BMO Centre at Stampede Park, Calgary, Alberta, Canada from Aug. 11–18, 2026.

#### Equity, Diversity and Inclusion (EDI)

10) Does your CNC or International Union or International Program have any programs aimed at supporting or encouraging participation from young researchers/students, women &/or underrepresented groups? Please describe all EDI initiatives, and for each expected and/or observed outcomes.

- The CNC established the Penny Coddington Virtual lectures series named after a Canadian crystallographer from an equity seeking group.
- The IUCr established a Gender Equity and Diversity Committee (GEDC) 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 an IUCr Gender Equity and Diversity Statement: <https://www.iucr.org/iucr/governance/advisory-committees/gedc>

#### Updates

1) Please list CNC secretariat members in the table below:

<i>Title</i>	<i>Name</i>	<i>CNC Position Title</i>	<i>Affiliated Institution</i>	<i>Email Address</i>	<i>Term</i>
Prof	Tomislav Friščić	Chair (former Vice-Chair & ACA representative in 2020)	McGill University	tomislav.friscic@mcgill.ca	2020-
Prof	Louise Dawe	Vice-Chair	Wilfrid Laurier University	ldawe@wlu.ca	2020-

Dr	Brian Patrick	Treasurer	University of British Columbia	bpatrick@chem.ubc.ca	2015-
Dr	Michel Fodje	Secretary	Canadian Light Source	michel.fodje@lightsource.ca	2015-
Dr	Matthew Brown	Young Scientist Representative	University of British Columbia	matthew.brown@ubc.ca	2019-
Prof	Alba Guarné	Member	McGill University	alba.guarne@mcgill.ca	2020-
Dr	Patrick Mercier	Former Chair	Corem	Patrick.Mercier@corem.qc.ca	2020-
Prof	Nick Vukotic	Member	University of Windsor	nvukotic@uwindsor.ca	2019-
Prof	Gerald Audette	Member, ACA Representative	York University	audette@yorku.ca	2020-

- 2) Please provide the details of any Canadian Union members sitting on the Executive Body of your International Union/Affiliation in the last year. Please note that this information is used in aggregate to develop a metric to illustrate the performance of the overall grants-in-aid program.

<i>Name of Canadian Researcher</i>	<i>Executive Role, International Union/Affiliation and position term</i>
Hanna.A. Dabkowska	IUCr President, 2021-2023
David Rose	ACA President, 2021-2022

- 3) 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 Union/Affiliation. Please note that this information is used in aggregate to develop a metric to illustrate the performance of the overall grants-in-aid program.

<i>Name of Canadian Researcher</i>	<i>Committee or Program Role, position term</i>
Louise Dawe	Member, IUCr Sub-Committee of the Union Calendar
Pawel Grochulski	Consultant, Commission in Synchrotron and XFEL Radiation
Paul Boyle	Member, Commission on Crystallographic Computing
Chérif Matta	Member, Commission on Quantum Crystallography
Howard Young	Member, Commission on Electron Crystallography
Roderick Wasylshen	Consultant, Commission on NMR Crystallography and Related Methods
David Bryce	Chair, Commission on NMR Crystallography and Related Methods
Jim Britten	Consultant, Commission on Crystallographic Teaching
Michel Fodje	Consultant, Commission on Crystallographic Computing
Sriram Subramaniam	Member, Commission on Crystallographic Nomenclature
Farideh Jalilehvand	Consultant, Commission on XAFS
Louise Dawe	Co-editor, Acta Crystallographica Section C, Journal of Applied Crystallography
Albert Berghuis	Co-editor, Acta Crystallographica Section D, IUCrData
Alan Lough	Co-editor, Acta Crystallographica Section E, IUCrData
Gil Privé	Co-editor, Acta Crystallographica Section F, IUCrData
Mark Paetzel	Review Board Member, Acta Crystallographica Section F

- 4) 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. Please note that this information is used in aggregate to develop a metric to illustrate the performance of the overall grants-in-aid program.

<i>Name of Canadian Researcher</i>	<i>ISC Role and Term</i>

- 5) Are there any other achievements or initiatives that you would like to highlight?
- Louise Dawe will be serving as the co-chair of the International Program Committee for the IUCr2026 Congress and General Assembly.
  - The CNCC negotiated and signed an MoU with the American Crystallographic Association (ACA) and the US National Committee for Crystallography (USNCCr) to host the IUCr2026 congress in Canada. As part of this agreement, a limited liability corporation (LLC) has been established to manage the finances of the event.