

48th College Chemistry Canada - La Chimie Collégiale au Canada (C3) Conference**Welcome and Program****Contents**

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Note: Please refer to the separate PDF for the Session Abstracts.

Welcome – C3 President - English & French

May 26, 2022

Welcome to the 48th College Chemistry Canada Conference themed Canadian Chemistry Continues...building resilience and relationships! Although we are still living moments full of uncertainty, we couldn't be more excited about this conference. We have two days of engaging speakers who are willing to share their experiences teaching chemistry over the last two years. We will also hear from several presenters about what they are doing to foster new teaching styles and navigation of blended pathways. We anticipate the presentations will provide many new resources and contacts for moving into the future of the education of chemistry students.

Along the way, there will be countless opportunities to share ideas and discuss the new realities of post-secondary chemistry education. Be sure to ask questions, provide input, share personal teaching experiences, and join the banter. It's what makes the C₃ community fantastic.

The virtual conference organizers would like to thank all our speakers, attendees, and collaborators for their effort to share their passion for chemistry education and their ability to adapt to new communication needs. I hope that at next year's conference we will be able to meet you and thank you in person for your support.

I assure you that we will not allow a single boring moment in the event.

All the best,

A handwritten signature in blue ink, appearing to read "Paula Hawrysz".

Paula Hawrysz, President – C3

26 mai 2022

Bienvenue à la 48e conférence de la Chimie Collégiale au Canada sur le thème de La Chimie Continue au Canada... Résilience et création de liens! Bien que nous vivions encore des moments pleins d'incertitude, nous ne pourrions pas être plus enthousiasmés par la venue de cette conférence annuelle. Pendant deux jours, des conférenciers engageants partageront leurs expériences d'enseignement de la chimie. Nous assisterons également à plusieurs présentations traitant de nouveaux styles d'enseignement ainsi que de la navigation en parcours mixtes. Nous sommes convaincus que ces dernières sauront vous inspirer et vous outilleront à mieux transférer les connaissances chimiques aux étudiants de demain.

En cours de route, il y aura d'innombrables occasions de partager des idées et de discuter des nouvelles réalités de l'enseignement postsecondaire en chimie. Assurez-vous de poser des questions, de fournir des commentaires, de partager des expériences d'enseignement personnelles et de vous joindre aux plaisanteries. C'est ce qui rend la communauté C3 si fantastique.

Les organisateurs de cette deuxième édition de la conférence en format virtuel tiennent à remercier tous nos conférenciers, participants et collaborateurs de partager leur passion pour l'enseignement de la chimie et pour leur capacité à s'adapter aux nouveaux besoins de communication. J'espère que lors de la conférence de l'année prochaine, je pourrai vous rencontrer et vous remercier en personne.

Je vous assure qu'il n'y aura aucun moment ennuyeux pendant la conférence!

Cordialement,



Paula Hawrysz, Présidente – C3

Welcome – C3 Organizing Committee - English & French

Welcome to the 48th annual College Chemistry Canada Conference!

Our theme this year for our 48th annual College Chemistry Canada conference is [Canadian Chemistry Continues...building resilience and relationships](#). After another year of challenges and opportunities, we are looking to move forward with endurance and stamina in an ever-changing teaching environment. Furthermore, we are prioritizing the importance of building strong connections with our students to ensure engagement and success.

In this conference, we're excited to hear about all of the new ideas that have come out of yet another difficult year. We are also inspired to see so many talks that address the important issues of diversity and inclusivity!

As with last year, this event will be held entirely virtually. Again we will miss some of the beloved traditions of C3 - the fun run, the banquet, the chance to explore a new part of the country, to name a few - the silver lining is the opportunity a virtual conference provides to share our ideas during a time of heightened public health restrictions.

May getting together at this year's virtual C3 mark the start of better days ahead for each and every one of you. We look forward to catching up with you all on Zoom!

Your C3 Organizing Committee – Charles Lucy (U of Alberta, AB), François Gauvin (Université de Saint-Boniface, MB), Carl Doige (Okanagan College, BC), Kathy Darvesh (Mount Saint Vincent University, NS), Yann Brouillette (Dawson College, QC), Paula Hawrysz (Northern Alberta Institute of Technology, AB) and Jimmy Lowe (British Columbia Institute of Technology, BC)

Soyez les bienvenus au 48^e Congrès annuel de Chimie collégiale au Canada (C3)!

Le thème de notre 48^e congrès de Chimie Collégiale au Canada porte sur La Chimie Continue au Canada... Résilience et création de liens! Après une autre année de défis et d'opportunités, nous pouvons maintenant aller de l'avant avec force et endurance dans un environnement d'enseignement en constante évolution. Nous priorisons également l'importance d'établir et de maintenir des liens solides avec nos étudiant.e.s pour assurer leur engagement et leur succès.

Au cours de ce congrès, nous serons très excités d'entendre les nouvelles idées qui ont été générées pendant cette deuxième année difficile. Nous sommes également inspirés de voir que plusieurs présentations couvriront les thèmes importants de diversité et d'inclusivité!

Comme l'an dernier, cet événement sera tenu en mode entièrement virtuel. À nouveau, donc, nous nous ennuions des traditions agréables des congrès C3 comme le *fun run*, le banquet, la chance d'explorer de nouveaux coins de notre pays (pour ne mentionner que celles-là). Mais l'important est que nous puissions encore avoir l'opportunité de partager nos idées pendant une période encore incertaine en matière de restrictions sanitaires.

En espérant que notre rencontre virtuelle de cette année marquera le début de jours meilleurs pour chacune et chacun d'entre vous, nous vous souhaitons un bon congrès et avons hâte de vous « voir » sur Zoom!

Votre comité organisateur – Charles Lucy (U of Alberta, AB), François Gauvin (Université de Saint-Boniface, MB), Carl Doige (Okanagan College, BC), Kathy Darvesh (Mount Saint Vincent University, NS), Yann Brouillette (Dawson College, QC), Paula Hawrysz (NAIT, AB) et Jimmy Lowe (BCIT, BC)

Thank you to our Sponsors! – English & French

We would like to thank our sponsors for their generous support for this and previous conferences. We look forward to their participation in our future in-person conferences.

Nous tenons à remercier nos commanditaires pour leurs généreux soutiens à ce congrès et aux précédents. Nous les invitons à se joindre à nous lors de nos congrès futurs en personne.



Time Zones for Conference

Province	BC	AB	SK / MB	ON / QC / NB	NS	NL
Start Time	9:00 am (PDT)	10:00 am	11:00 am	12:00 pm	1:00 pm	1:30 pm

Quick Reference Program

- Refer to Abstracts PDF for more details.


9:00 – 11:00 am (PDT)	<p>Wednesday, May 25, 2022 – Speaker Prep Room</p> <p>We welcome all speakers to test out their connections, screen sharing, video and sound.</p> <p>Zoom Link: Speaker Practice Room</p>	
8:30 – 9:00 am (PDT)	<p>Thursday, May 26, 2022</p> <p>Login and informal banter</p> <p>Main Meeting Zoom Link: Main Meeting and Room 1</p>	
9:00 – 9:10 am (PDT)	<p style="text-align: center;">Welcome and Land Acknowledgement</p> <p>Session Moderator: Carl Doige & Charles Lucy</p> <p>-Sponsor Acknowledgement -Newsletter announcement -Housekeeping</p>	
9:10 am – 9:35 am (PDT)	<p style="text-align: center;">Plenary Talk # 1</p> <p>Session Moderator: Charles Lucy</p> <p><i>Alison Flynn “Building Connections and Learning Skills with Informal and Formal Approaches”</i></p> <p>This session will be recorded.</p>	
	<p style="text-align: center;">Session A – Concurrent Sessions</p> <p>-Zoom Room 1 is the same Link as Main Meeting Room -Zoom Room 2, please open the Link provided below</p>	
9:35 – 10:20 am (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p>Session Moderator: John Lee</p> <p>A1-1 Andrew P. Dicks ““Language Matters”: Some Musings on Terms We Use As (Chemistry) Educators”</p> <p>A1-2 Amanda Coolidge “Improving Access to Chemistry with STEM Open Educational Resources”</p>	<p>Zoom link: Room 2 Link</p> <p>Session Moderator: Charles Lucy</p> <p>A2-1 David Stone “Playing Bass Guitar to Teach FTIR”</p> <p>A2-2 Jennifer Wolf “In-Person? Online? Blended? Which Works Best for Students?”</p>

	<p>A1-3 Kathy-Sarah Focsaneanu, Kevin Roy Furious Five "Gen Chem for Gee-Gees": Producing an Open Textbook for uOttawa Students"</p> <p>A1-4 Jose Rodriguez Nunez Furious Five "Interviewing Skills for Graduating Students"</p> <p>Q&A.</p>	<p>A2-3 Kristy M. Erickson Furious Five "More than Marshmallows: A Brief Presentation of a Student Activity for Learning 3D Geometric Shapes"</p> <p>A2-4 Scott Sinex "Ocean Acidification: Data & Chemical Concepts via Interactive Spreadsheet"</p> <p>Q&A.</p>
10:20 – 10:30 am	Eye Break – Stretch – Snack	
10:30 – 11:10 am (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p>Session Moderator: Paula Hawrysz</p> <p style="text-align: center;">Annual General Meeting</p> <ol style="list-style-type: none"> 1. Approval of Agenda 2. Approval of Minutes from the 2021 AGM 3. Business Arising from the Minutes 4. Presidents Report – Paula Hawrysz 5. Webmaster Report – John Lee 6. Treasurer Report – John Eng 7. 2023 Conference Update – François Gauvin 8. Presentation of Student Awards – Paula Hawrysz 9. Other business/ open floor 10. Adjournment 	
11:15 – 11:40 am (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p style="text-align: center;">Plenary Talk #2</p> <p>Session Moderator: Kathy Darvesh</p> <p><i>Kelly Resmer "Future of Chemistry Laboratory Learning?"</i></p> <p>This session will be recorded.</p>	

Session B			
11:40 – 12:05 pm (PDT)	Zoom link: Room 1 + Main Meeting Session Moderator: Carl Doige B1-1 Adnan Chaudry "Chemistry Lab Solutions from Vernier" B1-2 Kiyō Monteith, Katy Turenne "Engaging the Post-Pandemic Student"		
Session B – Concurrent Sessions			
12:05 – 12:30 pm (PDT)	<table border="1"> <tr> <td> Zoom link: Room 1 + Main Meeting Session Moderator: Yann Brouillette B1-3 Yuriy Barchuk Miranda Brown, Sarah Madore, Kelly Resmer "Re-designing Labs with Student Collaborators to Enhance Engagement and Accessibility for More Meaningful Lab Learning" B1-4 Marco Zimmer De-Luliis, Lana Mikhaylichenko "Designing New Advance General Chemistry Course for Students with Students" Q&A </td> <td> Zoom link: Room 2 Link Session Moderator: Kathy Darvesh B2-1 Murray Bronet "OCLaRE - A Platform for Scaffolding Student Lab Report Writing" B2-2 Alyssa Doué "Reflective Thinking: Finding Relevance for Non-Chemists" Q&A </td> </tr> </table>	Zoom link: Room 1 + Main Meeting Session Moderator: Yann Brouillette B1-3 Yuriy Barchuk Miranda Brown, Sarah Madore, Kelly Resmer "Re-designing Labs with Student Collaborators to Enhance Engagement and Accessibility for More Meaningful Lab Learning" B1-4 Marco Zimmer De-Luliis, Lana Mikhaylichenko "Designing New Advance General Chemistry Course for Students with Students" Q&A	Zoom link: Room 2 Link Session Moderator: Kathy Darvesh B2-1 Murray Bronet "OCLaRE - A Platform for Scaffolding Student Lab Report Writing" B2-2 Alyssa Doué "Reflective Thinking: Finding Relevance for Non-Chemists" Q&A
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12:30-12:35 pm	Zoom Link: Main Meeting Announcements <p style="text-align: center;">End of Thursday Presentations</p>		
12:35 – 13:00 ish	Informal Q&A, Banter Sessions		

8:30 – 8:50 am (PDT)	Friday, May 27, 2022 Login and informal banter Main Meeting Room Link Main Meeting & Zoom Room 1
8:50 – 9:00 am (PDT)	<p style="text-align: center;">Welcome and Land Acknowledgement</p> Session Moderator: Carl Doige & Charles Lucy -Announcements -Sponsor Acknowledgement -Housekeeping
9:00 – 9:25 am (PDT)	<p style="text-align: center;">Plenary Talk #3</p> Session Moderator: John Eng

	<p>Geoff Rayner-Canham “Inuit-Indigenizing a Distance ‘Chemistry in Everyday Life’ Course”</p> <p>This session will be recorded.</p>
	Session C
9:25 – 10:25 am (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p>Session Moderator: John Lee</p> <p>C1-1 Charles Lucy, Kate R. Reis, Zachary L. Mensinger “Diversity in Analytical Chemistry Initiative”</p> <p>C1-2 Owen Scadeng “Introducing EDI Topics in the Undergraduate Classroom”</p> <p>C1-3 Jennifer L. MacDonald, Nick Roberts “From Comment to Collaboration to Community: The Impact of Embedding Colour Vision Deficiency (CVD) Support Into In-Person, Online, and Blended Laboratory Environments”</p> <p>C1-4 Janice Zeng, Robin Stoodley “Promoting Diversity in Physical Chemistry Through Vignettes”</p> <p>C1-5 Katherine Cameron, Phil Mills, Molly Firlotte Furious Five “Adapting to Today’s Students: A Targeted Learning Experience with Wiley”</p> <p>Q&A.</p>
10:25 – 10:35 am (PDT)	Stretch - Body - Beverage Break
10:35 – 11:00 am (PDT)	<p>Main Meeting & Zoom Room 1</p> <p style="text-align: center;">Plenary Talk #4</p> <p>Session Moderator: Jimmy Lowe</p> <p>Jackie Stewart “Fostering Students' Sense of Belonging to Enhance Equity in Chemistry Education”</p> <p>This session will be recorded.</p>
	Session D
11:00 – 11:50 am (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p>Session Moderator: Paula Hawrysz</p> <p>D1-1 Justin Weinberg “Aktiv Chemistry: Next-Generation Active Learning Platform for First-Year & Organic Chemistry Courses”</p>

	<p>D1-2 Jimmy Lowe, Yuna Chen “Be Caring In Teaching - BCIT Helping Students with their Well-being”</p> <p>D1-3 Vishakha Monga “Connecting with Huge Class Sizes Virtually”</p> <p>D1-4 Paul Hui, Juan Araneda, Susanne Riegel “Introduction to qNMR: Beyond just Doublets and Triplets”</p> <p>Q&A.</p>	
	<p>Session E - Concurrent Sessions</p>	
11:50 am – 12:15 pm (PDT)	<p>Zoom link: Room 1 + Main Meeting</p> <p>Session Moderator Paula Hawrysz</p> <p>E1-1 Angela Crane “Leveling up your First-Year Chemistry grade!”</p> <p>E1-2 Summer Xia Li, Carl Doige “Student-Generated Videos: (Screen)-Capturing Learning One Frame at a Time”</p> <p>Q&A.</p>	<p>Zoom link: Room 2 Link</p> <p>Session Moderator John Eng</p> <p>E2-1 Steven M Socol “The Use of American Chemical Society Division of Chemical Education Examinations as Assessment Tools.”</p> <p>E2-2 Tarannum Puri, Jaclyn J Stewart “A New View on Practice Problems: How Answer Key Features Influence Students’ Strategic Learning”</p> <p>Q&A.</p>
12:15-12:20 pm	<p>Biobreak</p>	
12:20 – 12:30 pm (PDT)	<p>Main Meeting Room. Closing Presentation</p> <p>Session Moderator Carl Doige</p> <p>Yann Brouillette “Comic Book Chemistry Part 11: Credible Transformations”</p>	
12:30 pm – 12:35 pm (PDT)	<p>Closing Announcements</p> <p>Session Moderator Carl Doige</p> <p>-Conference Feedback -Newsletter announcement -2023 Conference Update</p>	 <p>Thank you for participating and attending. Have a great summer!</p> <p>From College Chemistry Canada</p>
12:35 – 13:00 (PDT)	<p>TGIF – Informal Networking BYOB</p>	