

**47th College Chemistry Canada - La Chimie Collégiale au Canada (C3) Conference****Welcome and Program****Contents**

Welcome – C3 President English & French.....	2
Welcome – C3 Organizing Committee English & French.....	4
Quick Reference Program .....	6
Wednesday, May 26, 2021 – Speaker Room Prep.....	6
Thursday, May 27, 2021.....	6
Session A – Concurrent Sessions.....	6
Annual General Meeting.....	7
Session B – Concurrent Sessions.....	7
Friday, May 28, 2021.....	8
Session C – Concurrent Sessions.....	8
C3 General Student Award Presentation.....	9
Session D - Concurrent Sessions .....	9
Session E - Concurrent Sessions.....	9
Closing Presentation .....	10

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

## Welcome – C3 President English & French

May 27, 2021

Dear Colleagues,

Welcome to the 47<sup>th</sup> (and 1<sup>st</sup> virtual) College Chemistry Canada Conference! If this is your first C3 conference, welcome to the fold. As per C3 style, we have an amazing line-up of engaging speakers and plenty of opportunities to share ideas and do some very important networking after 1 year, 2 months and 11 days of COVID lunacy (but who's counting.)

We couldn't be more excited about this conference. We are sure to strengthen our online tool kits and gather tips and tricks to successfully teach and engage our students in an online environment. Be sure to join the Q & A and informal banter breakout rooms at the end of each session. Ask questions, provide input and share personal teaching experiences. That's what makes C3 great.

On behalf of the C3 Executive Members and Directors, we wish you an inspiring experience with the collegial C3 community.

All the best,



Paula Hawrysz, President – C3

27 mai 2021

Chers collègues,

Bienvenue à la 47<sup>e</sup> conférence (et 1<sup>re</sup> virtuelle) de la Chimie Collégiale au Canada! S'il s'agit de votre première conférence C3, bienvenue au sein du groupe. À la façon habituelle de C3, nous avons une liste incroyable de conférenciers engageants, en plus de nombreuses opportunités de partager des idées et de faire du réseautage après 1 an, 2 mois et 11 jours de folie COVID (mais qui compte.)

Nous ne pourrions pas être plus enthousiasmés par cette conférence. Nous sommes certains que vous bénéficierez des trucs et astuces de tous, pour améliorer nos coffres à outils de ressources virtuelles afin d'enseigner à des étudiants engagés dans un environnement en ligne. Assurez-vous de rejoindre les périodes de questions dans les "breakout rooms" ainsi que les discussions informelles à la fin de chaque session. Posez des questions, apportez votre contribution et partagez vos expériences d'enseignement personnelles. C'est ce qui rend C3 si formidable.

Au nom des membres exécutifs et directeurs de C3, nous vous souhaitons une expérience inspirante avec la communauté collégiale C3.

Bonne conférence,

Cordialement,



Paula Hawrysz, President – C3

## Welcome – C3 Organizing Committee English & French

### ***Welcome to the 47th annual College Chemistry Canada Conference!***

To misquote Oscar Wilde: Not running C3 for one year may be regarded as a misfortune; not running C3 for two years in a row would look like carelessness! We just couldn't imagine it!

We all miss getting together to share teaching tips and strategies, and this year, more than ever, there is so much to share. It's clear from the enthusiastic response to our call for participation and submissions that the C3 community is eager to get together in this virtual setting.

Our theme this year for our 47th annual College Chemistry Canada conference is “COVID Chemistry education worth Continuing”. It's been a year of enormous challenge, but one of great opportunity as well.

We've had to set aside our usual routines, our long-held notions of what must be covered and how it must be covered as we adapted our teaching to the online environment. The learning curve has been steep, but Chemistry instructors have risen to the challenge!

We're excited to hear about all of the new ideas that have come out of this difficult year. We're sure to hear about tools and techniques that will continue to be used even after the masks are thrown out and the days of COVID restrictions are behind us.

In keeping with the times, this event will be held entirely virtually. While 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), and Jimmy Lowe (BCIT, BC)*



**Soyez les bienvenus au 47<sup>e</sup> Congrès annuel de Chimie collégiale au Canada (C3)!**

*Ne pas tenir un congrès C3 pendant une année est déjà très malheureux. Mais ne pas le tenir pendant deux années d'affilée est tout simplement impensable et inimaginable!*

*Il est pénible de ne pas pouvoir se côtoyer en personne pour échanger nos trucs et stratégies d'enseignement; et cette année, plus que jamais, il y a tant à partager. Les nombreuses demandes d'inscriptions et les propositions enthousiastes que nous avons reçues démontrent bien que la communauté C3 désire se réunir cette année, même en mode virtuel.*

*Le thème de notre 47<sup>e</sup> Congrès annuel est "Continuer l'enseignement de la Chimie en mode COVID". L'année 2020-2021 fut remplies d'énormes défis mais aussi de belles opportunités.*

*Nous avons dû mettre de côté notre routine d'enseignement, décider quels étaient les concepts et compétences les plus importants à couvrir, et apprendre à faire tout cela à distance. La courbe d'apprentissage était très à pic mais les éducatrices et éducateurs de chimie ont relevé le défi!*

*Maintenant, nous sommes très excités de pouvoir entendre toutes les nouvelles idées qui ont été conçues et utilisées pendant cette année difficile. Idées que nous pourrons exploiter en classe quand les « masques » seront tombé et que les restrictions sanitaires contraignantes seront derrière nous.*

*Signe des temps, notre congrès de cette année sera entièrement tenu en mode virtuel. Bien que nous nous ennierons des belles activités sociales et traditionnelles des congrès C3 (le Fun Run, le banquet, les visites touristiques des lieux; pour n'énumérer que celles-là), l'important est que nous pourrons partager nos idées malgré les restrictions sanitaires actuelles.*

*Puisse votre participation au congrès virtuel C3 de cette année marquer le début de meilleurs jours pour chacune et chacun d'entre vous. Au plaisir de vous « rencontrer » 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) et **Jimmy Lowe** (BCIT, BC)*

**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><a href="#">Wednesday, May 26, 2021 – Speaker Prep Room</a> We welcome all speakers to test out their connections, screen sharing, video and sound. <b>Zoom Link:</b> <a href="#">Speakers Prep Room Link</a></p>		
8:30 – 9:00 am (PDT)	<p><a href="#">Thursday, May 27, 2021</a> Login and informal banter <b>Main Meeting Zoom Link:</b> <a href="#">Main Meeting and Room 1</a></p>		
9:00 – 9:15 am (PDT)	<p><b>Welcome and Land Acknowledgement</b> -Sponsor Acknowledgement -Newsletter announcement -Housekeeping</p>		
9:15 am – 9:25 am (PDT)	<p><b>Opening Talk</b> Andy Dicks “Discussion Bored? &amp; Other Musings On Virtual Intro Orgo” This presentation will be recorded. Q&amp;A in Zoom Room #1 following speakers.</p>		
	<p><b>Session A – Concurrent Sessions</b> <i>Concurrent Sessions will be recorded</i> -<i>Zoom Room 1 is the same Link as Main Meeting Room</i> -<i>Zoom Room 2, please open the Link provided below</i></p>		
9:30 – 10:20 am (PDT)	<p>Zoom link: <a href="#">Room 1 + Main Meeting</a>  <i>Classroom Learning</i> Session Moderator: Yann Brouillette  A1-1 Owen Scadeng. “Google Jamboard for Collaborative Learning in Introductory Organic”  A1-2 Marco Zimmer-De Iuliis. “Bridging the High School Gap: Creating a Preparatory University Chemistry Course (PUCC)”</p>	<p>Zoom link: <a href="#">Zoom Room 2 Link</a>  <i>Gen Chem / Phys Chem Lab</i> Session Moderator: Charles Lucy  A2-1 Sarah Pelletier. “Creating videos of chemistry experiments for online learning using TechSmith Camtasia™ and what to do with them in the future”  A2-2 Gianna Aleman, Joshua Bates, and Lauren Thompson. “Feedwhat? From Blur Words to Valued Skills”</p>	

	A1-3 Furious Five. Violeta Iosub. “Reflections on one year of teaching of organic chemistry remotely”  Q&A - recorded.	A2-3 Furious Five. Roderick A. Chisholm*, Jessica Nickerson and Alan Doucette “At Home/Hands-on Analytical Experiments - Teaching Absorption Spectroscopy and Beer’s Law Remotely”  Q&A – recorded.	
10:20 – 10:30 am	<b>Eye Break – Stretch – Snack</b>		
10:30 – 11:30 am (PDT)	<p>Zoom link: <a href="#">Room 1 + Main Meeting</a>  <i>Announcements</i></p> <p style="text-align: center;"><b>Annual General Meeting</b></p> <ol style="list-style-type: none"> <li>1. Approval of Agenda (as presented)</li> <li>2. Approval of Minutes from the 2019 AGM, Victoria, BC (refer to attachment)</li> <li>3. Business Arising from the Minutes</li> <li>4. Short and Concise History of C3</li> <li>5. Treasurer Report – John Eng</li> <li>6. Other business / open floor</li> <li>7. Adjournment</li> </ol>		
	<b>Session B – Concurrent Sessions</b>		
11:30 – 12:30 pm (PDT)	<p>Zoom link: <a href="#">Room 1 + Main Meeting</a></p> <p style="text-align: center;"><i>General Chem – Online Activities</i></p> <p>Session Moderator: Yann Brouillette</p> <p>B1-1 Travis Fridgen. “Uber-Algorithmic Tests and Final – A tool for COVID and Beyond”</p> <p>B1-2 Éric Martineau. “Solving problems as chemistry exam preparation – an incomplete strategy if time management is not involved”</p> <p>B1-3 Furious Five. Devin Latimer. “Online presentations/discussions as a tool for engagement and assessment”</p> <p>B1 session cont’d on next page</p>	<p>Zoom link: <a href="#">Zoom Room 2 Link</a></p> <p style="text-align: center;"><i>Organic / Food Lab</i></p> <p>Session Moderator: Kathy Darvesh</p> <p>B2-1 Riley Petillion. “Student Satisfaction with Synchronous Online Organic Chemistry Labs: Pre-Recorded Video vs. Livestream”</p> <p>B2-2 Jennifer Schmeisser. “Culinary Reactions”</p> <p>B2-3 Jonathan Ma. “Incorporation of Benchtop Spectroscopy into Undergraduate Laboratories”</p> <p>B2 session cont’d on next page</p>	

	B1-4 Furious Five. Christian Landry. "La classe de chimie générale inverse" / The flipped general chemistry classroom (English subtitles)  Q&A – recorded	B2-4 Furious Five. Jimmy Lowe. "Continuing Chemistry Collaborations – How avoiding bed bugs has been beneficial!"  Q&A – recorded
12:30- 12:35 pm	Zoom Link: <a href="#">Main Meeting</a> <b>Announcements</b> <span style="color: purple;">End of Thursday Presentations</span>	
12:35 – 13:00 ish	Informal Q&A (unrecorded), Banter Sessions	

8:45 – 9:00 am (PDT)	<b>Friday, May 28, 2021</b> Login and informal banter (unrecorded)  Main Meeting Room Link <a href="#">Main Meeting &amp; Zoom Room 1</a>	
9:00 – 9:10 am (PDT)	<b>Welcome and Land Acknowledgement</b> -Announcements -Sponsor Acknowledgement -Housekeeping	
<b>Session C – Concurrent Sessions</b>		
9:10 – 10:10 am (PDT)	Zoom link: <a href="#">Room 1 + Main Meeting</a> <i>Gen Chem / Inorganic Topics</i> Session Moderator: Carl Doige  C1-1 Amanda Musgrove, Marissa Clapson and Roxane Jackson. "Hands-on to on-line with materials Chem tutorials"  C1-2 Erin Dul. "The Periodic Table of Hypothetical Elements: an approach to assessing inorganic nomenclature."  C1-3 Marc Whalen. "Lessons Learned Delivering 2 <sup>nd</sup> Year Inorganic Chemistry Lecture and Lab Online"  C1-4 Furious Five. Yann Brouillette. "Safe, Convenient and Hands-On At-Home Chemistry Experiments"	Zoom link: <a href="#">Zoom Room 2 Link</a> <i>Gen Chem Lab</i> Session Moderator: François Gauvin  C2-1 Stephen Cheng, Lynn Mihichuk and Alla Gagarinova. "Novel Laboratory Recitation for General Chemistry"  C2-2 Andrew Chan, Erika Smith and Vince Guo. "Use of Take-Home Lab Kits for Teaching Online General Chemistry Labs at the University of Regina"  C2-3 Caroline Cormier. « Bloc asynchrones avec wooclap : une façon de séparer le groupe en deux. »  C2-4 Furious Five. Kathleen Nichol. "Taking Intro Chemistry on-line – it worked ... pretty well."

	Q&A – recorded	Q&A – recorded
10:10 – 10:20 am (PDT)	Main Meeting Room: <a href="#">Main Meeting &amp; Zoom Room 1</a>  <a href="#">C3 General Student Award Presentation</a>	
10:20 – 10:30 am	<b>Stretch - Body - Beverage Break</b>	
	Session D - Concurrent Sessions	
10:30 – 11:20 am (PDT)	<p>Zoom link: <a href="#">Room 1 + Main Meeting</a> <i>Active Learning Online</i></p> <p>Session Moderator Bryan Rowsell</p> <p>D1-1 Jennifer Mills. "Increasing Student Engagement with Achieve"</p> <p>D1-2 Tina Bott. "Information Literacy – Infographics in the Virtual Classroom"</p> <p>D1-3 Furious Five. Jerry Godbout. "Process Oriented Guided Inquiry Learning by Zoom"</p> <p>Q&amp;A – recorded</p>	<p>Zoom link: <a href="#">Zoom Room 2 Link</a> <i>Active Learning Online</i></p> <p>Session Moderator John Lee</p> <p>D2-1 Larry Lee. "Animating with Adobe CC"</p> <p>D2-2 Phil Mills, Molly Friolette and Rachel Coffey. "Adapting to Today's Students, A Targeted Learning Experience with Wiley"</p> <p>D2-3 Furious Five. Sherrie Wang. "Essential Technology for Online Synchronous Lectures"</p> <p>Q&amp;A - recorded</p>
	Session E - Concurrent Sessions	
11:20 am – 12:15 pm (PDT)	<p>Zoom link: <a href="#">Room 1 + Main Meeting</a> <i>Online Gen Chem</i></p> <p>Session Moderator Paula Hawrysz</p> <p>E1-1 John Canal, Rebecca Goyan and Garry Mund. "Online General Chemistry: Lessons Learned"</p> <p>E1-2 Jennifer MacDonald, Angela K. Crane, and Mark J. Wall. "Bringing First-Year Chemistry Online with Students as Partners through Universal Design"</p> <p>E1 session cont'd on next page</p>	<p>Zoom link: <a href="#">Zoom Room 2 Link</a> <i>Assessing Learning</i></p> <p>Session Moderator John Eng</p> <p>E2-1 Jason Pearson, Jocelynne Richards, and Adam Proud. "Creating a Powerful Digital Learning Experience for Students in Chemistry"</p> <p>E2-2 Erika Merschrod. "Balancing simplicity and flexibility in assessments: how I (barely) survived teaching gen chem remotely."</p> <p>E2 session cont'd on next page</p>

	E1-3 Carl Doige, Kerry Davie, and Scott Richardson. "H5P as the central glue for student engagement and online accountability"  E1-4 Furious Five. Vishakha Monga. "Advantages/ disadvantages of a zoom lecture using e-resources"  Q&A - recorded	E2-3 Shannon Accettone. "Rethinking the Role of Traditional Exams after COVID-19"  E2-4 Furious Five. Thilini Rupasinghe. "Student-produced videos as a formative assessment method in the online environment."  Q&A - recorded
12:15- 12:20 pm	<b>Biobreak</b>	
12:20 – 12:30 pm (PDT)	<b>Closing Presentation</b> Zoom Link: <a href="#">Main Meeting</a> (Presentation will be recorded)  Furious Five Yann Brouillette "Comic Book Chemistry Part 9 ½ : Remedy to Covid Dullness."  Q&A	
12:30 – 12:40 pm (PDT)	<b>Closing Announcements</b> -Conference Feedback -C3 Newsletter announcement -Sponsor Acknowledgement -Next Conference?	 <b>Thank you for participating! Stay Safe and Have a great summer!</b> <b>College Chemistry Canada</b>
12:40 – 13:40 (PDT)	TGIF – <a href="#">Informal Networking. BYOB</a>	