

Thomson Rivers University

Curriculum Vitae

for

Dr. Sharon E. Brewer

May, 2026

I. a) Education

Graduate:

University of New Brunswick, Fredericton, New Brunswick
M. Sc. (Chemistry) 1988-1990

Carleton University, Ottawa, Ontario
Ph. D. (Chemistry) 1990-1997

Undergraduate:

University of New Brunswick, Fredericton, New Brunswick
B.Sc. (Chemistry) 1984-1988

b) Awards and Distinctions:

TRU SoTL Scholar 2024-2025
TRU UN SDG Fellow 2021
TRU 2020 Teaching Excellence Award
TRU Sustainability Fellow 2019
National teaching award: The C₃ Award in Chemical Education 2018, presented by
College Chemistry Canada
TRU Teaching & Learning Scholar 2013
University College of the Cariboo Distinguished Service Award 2001

II. Professional Employment Record

a) Date of first TRU appointment:

August 1st, 1994

b) Designation:

Adjunct Professor (May 1, 2026)
Associate Professor of Chemistry (until April 30, 2026)

c) Past

1993 - 1994 Sessional Lecturer - Carleton University
1993 - Guest Researcher - Linkoping University, Linkoping Sweden
1990 - 1992 Teaching Assistant - Carleton University
1988 - 1990 Teaching Assistant - University of New Brunswick

III. Teaching Record

a) Instructional responsibilities at Thompson Rivers University:

Chemistry 1520: Principles of Chemistry 2
 Chemistry 3120: Instrumental Analysis Laboratory
 Chemistry 3140: Method Development and Applications in Analytical Chemistry
 Chemistry 4400: Advanced Analytical Chemistry Laboratory
 Chemistry 4600: Special Topics in Applied Chemistry
 Chemistry 4480: Directed Studies in Chemistry

Past Instructional responsibilities:

Chemistry 110: Principles of Chemistry 1 (UCC/TRU)
 Chemistry 120: Principles of Chemistry 2 (UCC/TRU)
 Chemistry 3170: Instrumental Analysis Laboratory for Chemical Biologists (TRU)
 Chemistry 215: Physical Chemistry Laboratory (UCC/TRU)
 Chemistry 3010: Aqueous Environmental Chemistry (TRU)
 Chemistry 310: Instrumental Analysis (UCC/TRU)
 Chemistry 3170: Instrumental Analysis Laboratory for Chemical Biologists
 Chemistry 415: Advanced Analytical Laboratory (UCC)
 Chemistry 380: Chemistry of Pollutants (Carleton University)

b) Undergraduate Student Research Supervision

Student Name	Project Type	Start	Finish	Role
Emily Tinney	TRU Research Assistant	March 2026	ongoing	Supervisor
Emily Tinney	TRU Undergraduate Research Apprentice	Nov, 2025	Feb. 2026	Supervisor
Owen Robertson	Volunteer Research Assistant	Nov. 2025	Dec. 2025	Supervisor
Yosef Yohannes Ayele	TRU Comp 4910	Sept. 2025	Dec. 2025	Co-Supervisor-Client
Jesse Cochrane	TRU Comp 4910	Sept. 2025	Dec. 2025	Co-Supervisor-Client
Camdyn Peace	Research Assistant	Sept. 2025	April 30, 2026	Supervisor
Jessica Whitehouse	TRU UREAP Research Assistant	May 2024	Sept. 2024	Supervisor
Ethan Bell	Volunteer Research Assistant	Feb. 2024	July 2024	Supervisor
Bryant Lowe	CHEM 4480 Directed Studies	Sept. 2023	May 2024	Supervisor
Chiemiwo Esther Ojukwu	Research Assistant	May 2023	ongoing	Joint Supervisor
Ashlynn Jensen	Research Assistant	Dec. 2023	ongoing	Joint Supervisor
Nathan Rancier	CHEM 4480	Jan. 2022	April 2022	Supervisor
James Neurauter	CHEM 4480	Sept. 2021	April 2022	Supervisor
Chris Birch	CHEM 4480	January 2020	April 2020	Supervisor
Lindsey Smeaton	TRU Research Apprentice	December 2019	March 2020	Supervisor
Michelle Boham	Volunteer Research Assistant	September 2018	April 2019	Supervisor
Samantha Reimer	UREAP	April 2018	September 2018	Supervisor
Hilary Nakid	CHEM 4480	September 2017	April 2018	Supervisor
Brady Zappone	TRU Research Apprentice	November 2016	February 2017	Supervisor
Dayton Shaw	TRU Research Apprentice	October 2015	March 2016	Supervisor
Stephanie Wright	CHEM 4480	September 2015	April 2016	Supervisor

Student Name	Project Type	Start	Finish	Role
Kile McKenna	TRU Student Sustainability Research Award	May 2015	September 2018	Supervisor
Samantha Reimer	Volunteer Research Assistant	July 2015	August 2015	Supervisor
Jennifer Wraight	CHEM 4480	September 2014	April 2015	Supervisor
Ali Grzybowski	TRU Research Assistant	April 2015	September 2015	Collaborator
Richard Msisaka	TRU Research Assistant	May 2013	September 2015	Joint Supervisor
Hilary Nakid	Volunteer Research Assistant	July 2014	August 2014	Supervisor
Ali Grzybowski	Volunteer Research Assistant	July 2014	August 2014	Supervisor
Erica Krauseneck	TRU Research Assistant	May 2014	September 2014	Joint Supervisor
Nadja Hedrich	TRU Research Assistant	May 2014	September 2014	Joint Supervisor
Scott Borden	TRU Research Assistant	July 2013	September 2013	Joint Supervisor
Hayley Candow	TRU Research Assistant	May 2013	October 2013	Joint Supervisor
Lindsay Jmaiff	TRU UREAP	July 2013	May 2014	Joint Supervisor
Katey Daly	TRU Research Assistant	May 2013	October 2013	Joint Supervisor
Hayley Candow	CHEM 4480	September 2012	April 2013	Joint Supervisor
Katie Daly	CHEM 4480	September 2012	April 2013	Joint Supervisor
Sarah Simon	CHEM 4480	September 2012	April 2013	Supervisor
Lindsay Jmaiff	CHEM 4480	September 2012	April 2013	Supervisor
John Turley	CHEM 448	September 2010	April 2011	Supervisor
Silver Irvine	CHEM 448	September 2009	April 2010	Supervisor
Megan Perkins	CHEM 448	September 2009	April 2010	Joint Supervisor
Lee-Anne Burnell	NRSC 423	September 2009	April 2010	Supervisor
Charles Bryson	CHEM 448	September 2008	April 2009	Supervisor
Natasha Pitt	RESL 300	September 2009	April 2010	Joint Supervisor
John Toman	CHEM 448	September 2008	April 2009	Joint Supervisor
John Starchuck	CHEM 448	September 2007	April 2008	Supervisor
Bryan Karolat	CHEM 448	September 2006	April 2007	Supervisor
Sarah Tomlinson	CHEM 448	September 2006	April 2007	Supervisor
Ian Vaughan	CHEM 448	September 2006	April 2007	Supervisor
Alex Enfield	RESL 400	May 2006	September 2006	Supervisor
Greg Kaufman	CHEM 448	September 2005	April 2006	Supervisor
Greg Kaufman	RESL 400	May 2005	September 2005	Supervisor
Adam Klassen	Co-op Research Assistant	May 2005	September 2005	Supervisor
Stuart Chambers	RESL 400	May 2004	September 2004	Supervisor
Wade Archambault	RESL 400	May 2004	September 2004	Supervisor
Wade Archambault	CHEM 448	September 2003	April 2004	Supervisor
Garrett Whitworth	CHEM 448	September 2002	April 2003	Supervisor

Student Name	Project Type	Start	Finish	Role
James Denis	SERV 090	May 2002	September 2002	Supervisor
Stuart Chambers	SERV 090	May 2002	September 2002	Supervisor
Karen Burkell	CHEM 448	September 2000	April 2001	Supervisor
Denise Vieira	Co-op Research Assistant	May 1999	September 1999	Supervisor
Kim Platteel	Co-op Research Assistant	May 1999	September 1999	Supervisor
Jeff Guthrie	CHEM 448	September 1998	April 1999	Supervisor
Marni Gillis	Co-op Research Assistant	May 1998	September 1998	Supervisor
Stacey Jyrkkanen	Co-op Research Assistant	May 1998	September 1998	Supervisor
Alan Wilmot	Co-op Research Assistant	May 1998	September 1998	Supervisor
Marni Gillis	CHEM 448	September 1997	April 1998	Supervisor
Janaize Markland	CHEM 448	September 1996	April 1997	Supervisor
Ulrike Helvoigt	CHEM 448	September 1996	April 1997	Supervisor
Daniel Steinke	CHEM 448	September 1996	April 1997	Supervisor
Robert Colistro	CHEM 448	September 1995	April 1996	Supervisor

c) Undergraduate Student Research Co-Supervision

Student Name	Project Type	Start	Finish	Role
Elissa Ony	Chemical Biology Honours	September 2025	April 2026	Co-Supervisor
Dayton Shaw	Chemical Biology Honours	September 2016	April 2017	Co-Supervisor
Trevor Johnson	CHEM 4480	September 2015	April 2016	Co-Supervisor
Chad Fawcett	COMP 4480	September 2015	April 2016	Co-Supervisor
Riley Endean	CHEM 4480	September 2014	April 2015	Co-Supervisor
Richard Msiska	COMP 4910	September 2013	April 2014	Co-Supervisor
Beth Andrucson	CHEM 448	September 2009	April 2010	Co-Supervisor
Michele Richard	Biology Honours	September 2008	April 2009	Co-Supervisor
Charles Bryson	BIO 448	September 2007	April 2008	Co-Supervisor
Laiel Soliman	CHEM 448	September 2006	April 2007	Co-Supervisor
Christopher Maydaniuk	Biology Honours	September 2005	April 2006	Co-Supervisor
Michael Prystai	CHEM 448	September 2005	April 2006	Co-Supervisor
Justin Lee	CHEM 448	September 2004	April 2005	Co-Supervisor

Sonja Schenkeveld	CHEM 448	September 2001	April 2002	Co-Supervisor
Natsue Kawakami	Co-op Research Assistant	May 2000	September 2000	Co-Supervisor
Ivan Petrovic	BIO 448	September 1999	April 2000	Co-Supervisor

d) Graduate Student Research Supervision

Student Name	Project Type	Start	Finish	Role
Mauricio Centeno	TRU M.Env.Sci.	May 2024	withdrawn	Co-Supervisor
Garret O'Connell	TRU M.Env.Sci.	September 2017	August 2020	Committee Member
Tory Anchikoski	TRU M.Ed.	January 2017	December 2018	Committee Member
Julie Schooling	TRU M.Env.Sc.	September 2011	July 2014	Committee Member
Alex Seal	TRU M.Ed.	September 2007	April 2010	Supervisor
Kelly Bush	UBC M.A. Sc.	September 2004	April 2008	Committee Member

e) Other teaching

Federation of Canada's Professional Chemists (FCPC) Professional Ethics for Chemists Course, Course Instructor Fall 2024 – ongoing

Association of the Chemical Profession of Alberta/Association of the Chemical Profession of Saskatchewan Professional Ethics for Chemistry, Course Instructor March 2023 – Summer 2024

Brewer S., Cancilla D., Cinel B., Czart M., Hurley-Dasgupta B., Hussain S., Macri E., Viswanathan S., "STEM Online Education: Strategies for Success" Pre-conference workshop at the 18th Annual Sloan Consortium International Conference on Online Learning, Buena Vista, FL on October 10, 2012

2012 Sloan-C Moving the Laboratory Online Workshop: Teaching & Learning with Online Labs: Developing Best Practices & Accomplishing Learning Objectives (with Dr. Bruno Cinel, TRU Chemistry). This International workshop included participants from Canada, US and other countries. It was held Sept 19-28, 2012

2011 Sloan-C Moving the Laboratory Online Workshop: Teaching & Learning with Online Labs: Developing Best Practices & Accomplishing Learning Objectives (with Dr. Bruno Cinel, TRU Chemistry). This International workshop had presenters from North America and Australia, and will include participants from Canada, US and other countries. It was held Oct 26-Nov 4, 2011

2010 Sloan-C Moving the Laboratory Online Workshop: Teaching & Learning with Online Labs: Developing Best Practices & Accomplishing Learning Objectives (with Dr. Bruno Cinel, TRU Chemistry). This International workshop had presenters from North America and Australia, and included participants from Canada, US and other countries. It was held Oct 20-29, 2010.

2009 Sloan-C Moving the Laboratory Online Workshop: Teaching & Learning

with Online Labs: Developing Best Practices & Accomplishing Learning Objectives (Co-organizer and facilitator with Dr. Bruno Cinel and Candace Thille, Director of the Open Learning Initiative, Carnegie Mellon University). Participants were from Canada, US and other countries. It was held Nov 2009.

IV. Research Contracts, Grants and Agreements:

- 2025** TRU Research Apprentice Award for Emily Tinney, \$3000. "Investigation of Rainwater Collection and Analysis: The TRU Rain Barrel Pilot Project"
- 2025** TRU Open Press Grant, \$7451.60, "PASS Chem Case Study Learning Scenarios Collection"
- 2024** TRU Open Press Grant, \$7500, "PASS Chem to Pressbook 2.0"
- 2024** TRU SoTL Scholars Research Fund, \$2500, with Dr. Jess Allingham and Dr. Lindsay Blackstock "Investigating Identity and Belonging in General Chemistry at TRU", S. Brewer
- 2023** TRU Open Press Grant, \$10472, "PASS Chem to Pressbook"
- 2023** TRU Instructional Innovation Grant (TIIG), \$5000, "General Chemistry Scaffolded Solutions to Support Student Comprehension Outside the Classroom"
- 2021** TRU Open Education Resource (OER) Development Grant Program for 2021-202, with Dr. Lindsay Blackstock and Dr. Verena Roberts, \$6500, "Chemistry Questions - OER Project (QCOP)"
- 2016** TRU Research Apprentice Award for Brady Zappone, \$3000, "The British Columbia Integrated Laboratory Network (BC-ILN) Project"
- 2015** TRU Research Apprentice Award for Dayton Shaw, \$3000, "Acetaminophen degradation in wastewater by Photo-fenton and Photo-fenton-like catalyzed by Fe and Cu Pillared Clays"
- 2012** TRU Internal Research Award 2013/2014; awarded to S. Brewer, B. Cinel, C. Mohr "Assessing Engagement in First Year Chemistry – The Influence of the Laboratory", \$12 000
- 2012** HP Catalyst Leadership Fund "Project ACCESS: Bridging the Digital Divide via Mobile Access to Remote Laboratories" \$100 000 (USD) B. Cinel & S. Brewer in collaboration with Dr. Kemi Jona, Northwestern University
- 2011** HP Catalyst Initiative "Providing and evaluating authentic on-line science laboratory experiences through the BC-ILN" Source: HP \$150 000 (USD) B. Cinel & S. Brewer
- 2007** 2007 Biodegradation of fluorinated organic chemicals. Source: 3M Environmental Laboratory. \$25,000. J. Van Hamme and S. Brewer

- 2006** BCcampus On-line Program Development Fund “Developing an Integrated Laboratory Network to Enhance Science Education in British Columbia”
\$57 000 Project Leads Dr. Sharon Brewer & Dr. Bruno Cinel, Co-researchers Simon Albon, UBC Pharmacy & Dr. Devon Cancilla, Western Washington University
- 2005** TRU SAC grant “Water Quality Monitoring of a Distribution System: Kamloops Southeast Sector” \$3000, with Co-researchers Dr. Ron Smith TRU Biology and Trent Hammer TRU Chemistry
- 2004** UCC SAC grant “Investigation of the Seasonal Variation of Trihalomethane Levels and Evaluation of Ultraviolet/Visible Absorbance as a Screening Tool in Kamloops Drinking Water” \$ 1299
- 2000** UCC joint SAC grant “Ginsenoside Studies and Analyses from American Ginseng Tissues” \$ 4974.00, with Co-researcher Dr. Ron Smith, UCC Biology
- 1998** Signatory and Technical Participant in 6 year UCC Business Incubator Agreement with Gordon Farms Herb Company; **revised 1999** to include expanded interests of ALTEX Co. (formerly Gordon Farms)
- 1998** Research Grant awarded to S.E. Brewer by the City of Kamloops “Stormwater Testing”; value \$ 5 000.
- 1997** Contract awarded to R.G. Smith and S.E. Brewer by Okanogan D-C Services Ltd. in conjunction with National Research Council (IRAP) “Evaluation of Methods to Enhance the Ginsenoside Content of Ginseng Capsules”; value \$ 2 585.
- Contract awarded to S.E. Brewer by Stanley Consulting Group Ltd. “Pilot Plant Testing; value \$ 1 200.
- Contract awarded to R.G. Smith and S.E. Brewer by Okanogan D-C Services Ltd. in conjunction with National Research Council (IRAP) and UCC Matching Funds Program “Large Scale Ginsenoside Extraction”; value \$ 72 400.
- Contract awarded to R.G. Smith and S.E. Brewer by Freshwoods Farm in conjunction with National Research Council (IRAP) “Quantification of Echinacoside, Cichoric Acid and Caffeoyl Tartaric Acid from *Echinacea* Tinctures” ; value \$ 7 895.
- 1996** Contract awarded to R.G. Smith and S.E. Brewer by Okanogan D-C Services Ltd. in conjunction with National Research Council (IRAP) “Ginsenoside Extraction”; value \$ 10 000
- UCC SAC grant awarded to S.E. Brewer; value \$ 2 500 “Supercritical Fluid Extraction of Ginsenosides from American Ginseng Root”
- 1995** UCC SAC grant awarded to S.E. Brewer; value \$ 2 500 “Determination of the Solubility of Chlorinated Phenols and Their Acetate Derivatives in Supercritical Carbon Dioxide”.

V. Publications

a) Peer Reviewed Articles and Book Chapters

- 2025 Roberts, V., Blackstock, L., Brewer, S., & Smith, B. Introducing the PASS Framework and its Implementation in First-Year General Chemistry Higher Education. *International Journal on Innovations in Online Education*, 9(1) <https://doi.org/10.1615/IntJInnovOnlineEdu.2025057814>
- 2025, Olea-Mejia, O., Donkor, K., Brewer, S., & Natividad, R. Kinetics of Bisphenol-S Mineralization via Photo-Fenton-Like Process Catalyzed by Cu₂O/Al₂O₃. *Topics in Catalysis*, 68(14–15), 1629–1638. <https://doi.org/10.1007/s11244-025-02066-3>
- 2022 Hurtado, Lourdes; Aviles, Osmin; Brewer, Sharon; Donkor, Kingsley K.; Romero, Rubi; Gómez-Espinosa, Rosa; Alvarado, Oscar; Natividad, Reyna "Al/Cu PILC as photo-Fenton catalyst: Paracetamol mineralization"; *ACS Omega*.
- 2022 Osmín Avilés-García, Jaime Espino-Valencia, Arisbeht Mendoza-Zepeda, Kingsley Donkor, Sharon Brewer, Rubi Romero, Reyna Natividad, Removal of metoprolol by means of photo-oxidation processes, *Catalysis Today*, Volumes 397–399, 2022, Pages 562-573, ISSN 0920-5861, <https://doi.org/10.1016/j.cattod.2021.06.014>.
- 2020 R.Natividad, A. Medoza, S.E. Brewer, S.L. Martinez-Vargas, J.L. Perez-Mazariego, K. A. Nova, L.M. Gomez-Olivan, R. Romero (2020), "Photo-Fenton Treatment of a Pharmaceutical Industrial Effluent Under Safe pH Conditions", In: *The Handbook of Environmental Chemistry*. Springer, Berlin, Heidelberg, DOI https://doi.org/10.1007/698_2
- 2019 L. Hurtado, R. Romero, A. Mendoza, S.E. Brewer, K.K. Donkor, R.M. Gómez-Espinosa, R. Natividad, "Paracetamol mineralization by Photo Fenton process catalyzed by a Cu/Fe-PILC under circumneutral pH conditions", *Journal of Photochemistry and Photobiology A: Chemistry*, Volume 373, 2019, pp 162-170.
- 2018 H. Martínez-Rodríguez, K.K. Donkor, S.E. Brewer, M. Galar-Martínez, N. SanJuan-Reyes, H. Islas-Flores, L. Sánchez-Aceves, A. Elizalde-Velázquez, L.M. Gómez-Oliván, 'Metoprolol induces oxidative damage in common carp (*Cyprinus carpio*)'; *Aquatic Toxicology*, Volume 197, 2018, pp. 122-135.
- 2018 C. Arduini, T. Flynn, M. Paetkau, S. Brewer, K. Donkor, K. Watson, L. Van Loon, N. Banerjee "Synchrotron Characterization of Metal Distributions in Soils Collected in the Greater Kamloops Region, British Columbia, Canada" Volume 24, Supplement S2 (Proceedings of the 14th International Conference on X-ray Microscopy (XRM2018)) August 2018 , pp. 514-515, doi:10.1017/S1431927618014794
- 2018 N. Stewart, S. Lidster, T. Anchikoski, B. Cinel, S. Brewer, C. Rees 'Creating an engaging science inquiry activity for middle school students that incorporates online remote access to analytical instrumentation', *Alberta Science Education Journal*, published November 2017, ASEJ, Volume 45, Number 1, November 2017, pages 30 -38,
- 2018 J.T. Schooling, D.F. Levia, D.E. Carlyle-Moses, A.I. Downtin, S.E. Brewer, K.K. Donker, S.A. Borden, A.A. Grzybowski. 'Stemflow chemistry in relation to tree size: a preliminary investigation of eleven urban park trees in British Columbia, Canada', *Urban Forestry and Urban Greening*, vol 21, p 129-133, January 2017, doi 10.1016/j.ufug.2016.11.013

- 2015 D.J. Erasmus, S.E. Brewer, B. Cinel, "Integrating bio-inorganic and analytical chemistry into an undergraduate biochemistry laboratory", *Biochemistry and Molecular Biology Education*, vol 43, issue 2, p 1539-3429, March/April 2015, doi 10.1002/bmb.20865
- 2015 D. J. Erasmus, S.E. Brewer, B. Cinel, "Assessing the engagement, learning, and overall experience of students operating an Atomic Absorption Spectrophotometer with remote access technology", *Biochemistry and Molecular Biology Education*, Volume 43, Issue 1, pages 6–12, January/February 2015, doi: 10.1002/bmb.20838
- 2013 J.D. Van Hamme, E.M. Bottos, N.J. Bilbey, S.E. Brewer, S.E. (2013) Identification of proteins involved in the biodegradation of 6:2 fluorotelomer sulfonate by *Gordonia* sp. NB4-1Y. *Microbiology*, 2013 Aug;159 (Pt 8):1618-28, doi: 10.1099/mic.0.068932-0.
- 2013 S.E. Brewer, B. Cinel, M. Harrison, C. L. Mohr "Development and Transfer Credit Acceptance of First Year Chemistry Laboratory Courses for Distance Learners" *The International Review of Research in Open and Distance Learning*, v. 14, n. 3, p. 488-507, jun. 2013. ISSN 1492-3831. doi: 10.19173/irrodl.v14i3.1446, <http://www.irrodl.org/index.php/irrodl/article/view/1446>
- 2010 L.K. Baldwin, S.E. Brewer, P. Heaslip, G.A. Hunt, J.A. Jones, D. MacLennan, E. Templeman "Finding Balance: Research and Teaching at a New University" *Transformative Dialogues: teaching and learning eJournal* July 2010, 4(1) The Attraction, Value and Future of SoTL: Perspectives from the Carnegie Affiliates.
- 2010 B. Cinel, S.E. Brewer "Chapter 16. The BC-ILN Project: Results" in *Moving the Laboratory On-line "Situating the Online Laboratory Learning Experience for Future Success"*, Editors: D.A. Cancilla, S.P. Albon, July 2010, ISBN: 978-1-934505-10-6
- 2006 K. L. Bush, P. R. Bérubé, W.R. Archambault, S.E. Brewer, "Assesment of DBP formation in Kamloops, British Columbia following a Treatment Technology Upgrade", *Proceedings of the Canadian Water and Wastewater Association 12th Canadian National Conference and 3rd Policy Forum on Drinking Water "Safe Drinking Water - Moving Forward Together"* April 2006, Saint John, NB.
- 2004 W. Archambault, M. Soneff, S.E. Brewer, N. Cheeptham, D. Teasdale, M. Gillis, "Investigation of the Effects of Pre-coagulant Chlorination on Trihalomethane Formation and Biofilming Bacteria", *Proceedings of the Canadian Water and Wastewater Association 11th Canadian National Conference and 2nd Policy Forum on Drinking Water "Promoting Public Health Through Safe Drinking Water"* April 2004, Calgary, AB.
- 1993 S.E. Brewer, P. Kruus "Direct Supercritical Fluid Extraction from Water" *Journal of Environmental Science and Health* (1993) B28(6) 671.
- 1992 S.M. Mattar, S.E. Brewer "Geometry Optimization and Computation of the Electronic Structure of (C₆H₆)V₂ Molecules by the Local-Density-Functional LCAO Method" *Journal of Physical Chemistry* (1992) 96, 1611.

b) Papers in reviewed conference proceedings

- 2008 Bush, K.L., Berube P.R., Brewer S.E. "DBP Formation Before and After Implementation of Membrane Filtration" Paper submitted August 2008

and accepted to the AWWA 2008 Water Quality Technology Conference held Nov. 16-20, 2008, Cincinnati Ohio

- 2006 Bush, K. L., Bérubé, P. R., Archambault, W. R., and Brewer, S. E., 2006. Investigation of disinfection by-product formation kinetics using a material-specific flow-through reactor system. Proceedings of the American Water Works Association Water Quality Technology Conference & Exposition, Denver, CO, November 5-9, 2006.

c) Non-refereed Publications

Islas-Espinoza, M.; de las Heras, A.; Urban, J.; Brewer, S. E.; Donkor, K. K.; Rincón, E. CPC Artificial Solar Lysis of Bacterial and Plasmid DNA in Rainwater and Snow by UV, VIS, NIR, Temperature and Pressure; Zenodo, 2021.
<https://doi.org/10.5281/zenodo.4642049>.

Brewer S.E., Kruus P. "Extraction of Trace Contaminants from Water using Supercritical Fluids" Report One (May 1993) and Report Two (October 1993) prepared for the National Laboratory for Environmental Testing, CCIW, Burlington, under contract KW-405-1-3475

Brewer S.E., Kruus P. "Extraction of Trace Contaminants from Water using Supercritical Fluids" Report One (June 1992) and Report Two (October 1992) prepared for the National Laboratory for Environmental Testing, CCIW, Burlington, under contract KW-405-1-3475-1

Brewer S.E., Kruus P. "Extraction of Trace Contaminants from Water using Supercritical Fluids" Report One (March 1991) and Report Two (October 1991) prepared for the National Laboratory for Environmental Testing, CCIW, Burlington, under contract KW-405-0-3435/011-XSE

d) Online Publications

2024 Brewer, S.; Blackstock, L. PASSchem; TRU Open Press. PASSchem, Platform Adapted Strategic Solutions: Comprehensive Solutions for General Chemistry Practice Questions, <https://passchem.pressbooks.tru.ca/> First year chemistry open textbook edited and published by TRU Open Press.

2024 PASS Chemistry Book CHEM 1510/1520. Chemistry LibreTexts, https://chem.libretexts.org/Courses/Thompson_Rivers_University/PASS_Chemistry_Book_CHEM_1510%2F%2F1520 First year chemistry open textbook published by Chemistry LibreTexts.

2023 TRU LibreText 'PASS Chemistry Book CHEM 1500'
https://chem.libretexts.org/Courses/Thompson_Rivers_University/PASS_Chemistry_Book_CHEM_1500 tempated guided solutions for general chemistry homework questions

2022 TRU LibreText 'Fundamentals and Principles of Chemistry (CHEM 1510 and CHEM 1520)'
https://chem.libretexts.org/Courses/Thompson_Rivers_University/TRU%3A_Fundamentals_and

[Principles of Chemistry \(CHEM 1510 and CHEM 1520\)](#) OER textbook developed and adopted for CHEM 1510 and CHEM 1520

2022 TRU LibreText 'CHEM1500: Chemical Bonding and Organic Chemistry'
https://chem.libretexts.org/Courses/Thompson_Rivers_University/CHEM1500%3A_Chemical_Bonding_and_Organic_Chemistry OER textbook developed and adopted for CHEM 1500

2022 TRU UN-SDG Fellow (2021 – 2022) as part of the international UN Sustainable Development Goals partnership project. <https://awards.oeglobal.org/awards/2020/open-pedagogy/united-nations-sustainable-development-goals-open-pedagogy-fellowship/>
Student assignment outcomes highlighted here: <https://oewg.trubox.ca/unsdg-fellowship/>
Mapping Community Water Infographics: <https://communitywatermap.opened.ca/#lp-text-two>
UN SDG 6 (Clean Water and Sanitation) Glossary: <https://unsdg6.opened.ca/>
(Fellowship OER assignment repository under development for 2020-2021 Fellows)

2014 Developed, produced and launched the **TRU Chemonline** YouTube channel with Dr. Bruno Cinel and Ms. Christina Mohr, which contains pre-laboratory and technique videos targeting our TRU first year chemistry laboratories. This channel also containing videos created for the BC-ILN. https://www.youtube.com/channel/UCY1Etva_Ez8tuV0x3L4IDpQ

2009 BCcampus approved the inclusion of the following BC-ILN (Integrated Laboratory Network) Laboratories, Learning Activities and Tutorials co-authored by Dr. Bruno Cinel & Dr Sharon Brewer to BCcampus SOL*R (Shareable Online Learning Resources):

- BC-ILN TRU General Chemistry AAS Lab.doc
- BC-ILN TRU General Chemistry AAS Lab Instructor.doc
- BC-ILN TRU High School AAS Activity.doc
- BC-ILN TRU SEM activity.docx
- BC-ILN AAS Analysis and Submission.pptx
- BC-ILN AAS Background Theory.pptx
- BC-ILN AAS Getting Connected.pptx
- BC-ILN AAS Iron Pre-Lab.pptx

<http://solr.bccampus.ca:8001/bcc/items/5ab2d290-8f05-8679-251b-b65662f92230/1/>

VI. Presentations:

J. Allingham, L. Blackstock, S. Brewer, B. McCollum, Belonging in Chemistry: Exploring Social and Disciplinary Connections in First Year Chemistry, June 2025, Canadian Society for Chemistry Conference and Exhibition, Ottawa ON

L. Blackstock, S. Brewer, V. Roberts, Inclusive Instructional Design Considerations Behind the Platform Adapted/Adaptable Strategic Solutions (PASS), June 19 2025, Canadian Society for Chemistry Conference and Exhibition, Ottawa ON

J. Allingham, L. Blackstock, S. Brewer "From Students to Scientists: Exploring Role Models in First-Year Chemistry", May 25 2025, 51st College Chemistry Canada Conference, SFU, Burnaby B.C.

J. Allingham, L. Blackstock, S. Brewer, Who Inspires Future Chemists?
Examining Role Models in First Year Chemistry, May 13 2025, Thompson Okanagan

Teaching and Learning Conference

J. Allingham, L. Blackstock, S. Brewer, Role Models Matter: An Analysis of Who General Chemistry Students Selected and Why, May 2025, Thompson_Okanagan Teaching and Learning Conference, poster presentation

E. De La Cruz, Olea Olea-Meja, R. Romero, D. Amado-Pina, S. Brewer, K. Donkr, R. Natividad Bisphenol-S Mineralization by Photo-Fenton Catalyzes by Cu₂O/Al₂SO₃, in CIPOA - VI Iberoamerican Conference on Advanced Oxidation Technologies, October 7-11, 2024, in Florianópolis, Brazil, poster presentation.

L. Blackstock, A. Jensen, S.E. Brewer 'PASS Chemistry (Version 1.0) – An Open Collection of General Chemistry Scaffolded Solutions to Support Student Comprehension Outside the Classroom', Oral presentation at Canadian Society for Chemistry, June 3, 2024, Winnipeg.

J. Allingham, L. Blackstock, S. Brewer, B. McCollum, Belonging in Chemistry vs. the Classroom, 50th College Chemistry Canada Conference, C3 in Peterborough ON., May 25, 2024.

J. Allingham, L. Blackstock, S. Brewer, B. McCollum, Sense of Belonging in General Chemistry at TRU, Thompson Okanagan Teaching and Learning Conference, TOTLC in Kelowna BC. - May 9, 2024

L. Blackstock, A. Jensenn, S.E. Brewer 'Using and Implementing the Platform Adaptable Strategic Solution (PASS) Template for General Chemistry: Engaging a First-Year Student Research Partner to Help Enhance our LibreText', Online presentation at [Cal OER](#), August 2 – 4, 2023 (Virtual interactive 45 minute presentation).

L. Blackstock, V. Roberts, S.E. Brewer 'Platform Adaptable Strategic Solution (PASS) Template for General Chemistry: Enhancing Open Educational Resources', Oral presentation at Canadian Society for Chemistry, June 6, 2023, Vancouver.

Reyna Natividad, Oscar Olea-Mejía, Sharon Brewer, Deysi Amado-Piña, Kingsley Donkor 'Bisphenol A removal by photochemical processes', Presented at WCCE11 - CIBIQ2023 - GS09 - Global Symposium on Advanced Oxidation Processes: from radicals to clean Exhibited as Oral presentation, June 4-8, 2023, Buenos Aires Argentina (**PR**)

Lourdes Hurtado, Rubi Romero, Arisbeht Mendoza, Osmin Avilés, Sharon Brewer, Kinglsey Donkor, Rosa Gómez-Espinosa, Reyna Natividad, "Paracetamol removal by photo-Fenton catalyzed by pillared clays" presentation at WCCE11 – 11th World Congress of Chemical Engineering, Buenos Aires, Argentina, June 5, 2023 (**PR**)

Sharon Brewer 'So Now What? Reflections in Search of the New Normal' invited oral presentation in Pre/Post-Pandemic Course Design Session, Canadian Chemistry Conference and Exhibition, Canadian Society for Chemistry national conference, June 15, 2022, Calgary, Alberta

Lindsay Blackstock, Verena Roberts, Sharon Brewer 'Introducing Digital PASS (Platform Adapted Strategic Solutions)' twitter poster component of LOGIC 2022 'Reaching Equilibrium' Retreat June 9, 2022

Lindsay Blackstock, Verena Roberts, Sharon Brewer, Michelle Harrison "Chemistry Questions – OER Project" as part of Adopting, Adapting, or Creating OER: An OER Grant Showcase of What's Happening at TRU, March 10, 2022

Ken Monroe, Sharon Brewer, Bala Nikku, Dawne Bringeland; 'UN Sustainable Development Goals Fellowship Project - Year 1 review'; presentation at TRU Teaching Practices Colloquium 2022, Feb. 22 in Interconnected & Open session

Joanne Rosvick, Sharon Brewer; 'Incorporation of an Online Poster and Asynchronous Poster Discussion Forum in Two Disciplines' presentation and workshop at TRU Teaching Practices Colloquium 2022, Feb. 22 in Insightful Reflection session

Sharon Brewer, Nathan Rancier 'UN SDG Fellowship Outcomes: CHEM 3010 Aqueous Environmental Chemistry', as part of the 'UNSDG Open Pedagogy Fellowship - Student Showcase' 3, 2022 Arizona Regional OER Conference, March 4, 2022
<https://mcli.maricopa.edu/events/oer-conference/agenda>

Osmín Avilés-García, Jaime Espino-Valencia, Arisbeht Mendoza-Zepeda, Kingsley Donkor, Sharon Brewer, Rubi Romero and Reyna Natividad; Title: Degradacion de Metoprolol Mediante Procesos de Oxidacion Avanzada Empleando Catalizadores de TiO₂ Dopado Con Metalescmc-2021 (VIII Congreso Internacional y XVII Congreso Mexicano de Catálisis), conference presentation, <https://congresocatalisis.uaslp.mx/>

Tory Anchikoski, Bruno Cinel, Sharon E. Brewer "Making Connections: Improving Student Learning Opportunities Through a Remote Laboratory" BCSCTA Catalyst Conference 2019, Oct 25 presentation

Bruno Cinel and Sharon Brewer "Making the case for Remote Instruments as (Almost) Open Educational Resources (aOERs) to innovate the Chemistry Laboratory" TRU CELT Talks, invited, March 21, 2018

Kile McKenna & Dr. Sharon Brewer joint presentation, "Connecting Applied Chemistry, Green Analytical Chemistry, and Sustainability at TRU", at College Chemistry Canada national conference, held at NAIT May 24-27, 2018

Kile McKenna, Sharon Brewer "Envisioning holistic metrics for green chemistry: An introduction to the Hazard Reflection Framework for Green Chemistry Education", Canadian Society for Chemistry national conference, held at the Shaw Conference Centre in Edmonton May 27-31, 2018

Connor Arduini, Trevor Flynn, Mark Paetkau, Sharon Brewer, Kingsley Donkor, Kent Watson, Lisa Van Loon, Neil Banerjee, Shayna Kay, Ridwan Bari, Jenna Veugen and Alexandra Ly "Evaluation of the Use of Wetlands in Arsenic Sequestration of Mine-Influenced Effluent using Synchrotron XRF and XANES Spectroscopy" poster presented at The 14th International Conference on X-ray Microscopy (XRM2018), Saskatoon, Saskatchewan, Canada, August 20-21, 2018

Kile McKenna, Sharon E. Brewer "The Hazard Reflection Framework for Green Chemistry Education" invited panel member presenting with the Green Chemistry Subcommittee at I2SL (International Institute for Sustainable Laboratories) conference (September 25-28, 2015) in San Diego

Thomas G Pypker, Darryl Carlyle-Moses, Ali Grzybowski, Sharon Brewer, David Hill."Spatial variability of throughfall under three sage brush (*Artemisia tridentata*)" Poster presentation at the American Geophysical Union Annual meeting (submitted August 2015, accepted October 2015, presented December 2015)
<https://agu.confex.com/agu/fm15/webprogram/Paper73578.html>

Kile McKenna, Sharon E. Brewer "The Hazard Reflection Framework for Green Chemistry Education" Poster presentation at the University of Toronto Green Chemistry Initiative Symposium (May 11- 13 2016)

Stephanie Wright, Sharon E. Brewer "Method Development for the Determination of Haloacetic Acids in Kamloops Drinking Water" Poster presentation at the University of Toronto Green Chemistry Initiative Symposium (May 11- 13 2016)

Sharon E. Brewer, Bruno Cinel, "Making the Case for Remote Instruments as (Almost) Open Educational Resources (aOER's) to Innovate the Chemistry Laboratory" in the Innovative Laboratory Approaches Symposium, Canadian Society for Chemistry (CSC) annual meeting, June 5-9, 2016, Halifax N.S. (Invited 40 minute talk)

Brad J. Pavelich, Sharon E. Brewer, Bruno Cinel 'Using remotely accessed instrumentation in the undergraduate chemistry laboratory' oral presentation at 24th BCCE (Biennial Conference on Chemical Education) July 31-August 4 2016, University of Northern Colorado, Denver Colorado

M. Lettinga, S.E. Brewer, B. Cinel "Remote Access Laboratory Experiences through the BC – Integrated laboratory Network" presentation in Chem Ed in Small-Remote Communities and Developing Countries Symposium at 23rd IUPAC International Conference on Chemistry Education (ICCE2014), Toronto Ontario, July 13-18, 2014

B.Cinel, S.E. Brewer, "Bringing Real-World Experiences to the Remote Student: Laboratories", invited speaker and panel participant at the 19th Annual Sloan Consortium International Conference on Online Learning, Buena Vista, FL on November 20-22, 2013 (Invited)

C. Cederlof, N. Johnson, E. Rennie, S. Brewer, B. Cinel, T. Atkins, G. Hunt, P. Tsigaris, L. Baldwin, K. Lussier "Scholarship of Teaching and Learning (SoTL) at TRU" A Workshop including both oral and poster presentations at the TRU Teaching Practices Colloquium, given by the TRU Teaching and Learning Scholars and Mentors, Feb. 17, 2014

B.Cinel, S.E. Brewer "Improving Student Accessibility through the use of Remote Instrumentation" presentation at the Canadian Network for Innovation in Education 2014 Annual Conference, Kamloops BC, May 14, 2014

B.Cinel, S.E. Brewer " Improving Access through Remote Instrumentation: Assessing the Student Experience" presentation at the 97th Canadian Society for Chemistry Conference, Vancouver, BC June 3, 2014 (Invited)

M. Lettinga, S. Brewer, B. Cinel "A Remote Access Experience through the BC Integrated Laboratory Network", presentation at the International Conference on Chemistry Education, Toronto Ontario, July 13-18, 2014

B.Cinel, S.E. Brewer "Enlisting students to help develop new online lab experiences for students" presentation at the 40th College Chemistry Canada Conference, Corner Brook Newfoundland, June 8 2013

B.Cinel, D. Bickley, S.E. Brewer "Fifteen Years of Free Chemistry Fun, F3" presentation at the 40th College Chemistry Canada Conference, Corner Brook Newfoundland, June 8 2013

S.E. Brewer, B.Cinel "Our HP Catalyst Experience: Reaching Out with Chemistry Online" presentation at the 96th Canadian Society for Chemistry Conference, Quebec City, May 28 2013

S.E. Brewer, B.Cinel "Remote Instrument Access and the BC-ILN" presentation as part of Oregon State University's Centre for Research on Lifelong STEM Learning panel "Bricks and Mortar Optional: 21st Century Laboratory Learning" May 14, 2013
http://media.oregonstate.edu/media/S.T.E.M.+Education+Lectures/0_gzub4wx7 - Invited

S.E. Brewer, B. Cinel 2013 Sloan-C Workshop "Learning Environments: Teaching and Learning with Online Science Labs (STEM)" May 3-10 2013 - Invited

S.E. Brewer, B. Cinel "Improving Student Accessibility through the use of Remote Instrumentation: The BC-ILN Project" invited presentation at Pontifícia Universidade Católica do Rio de Janeiro (PUC Rio), April 19, 2013 <http://www.nece.ctc.puc-rio.br/blog5/file.axd?file=2013%2F4%2FRemoteLabs.pdf> - Invited

S.E. Brewer & B. Cinel, "The BC-ILN Project", as participants in the HP Catalyst Summit held in Sao Paulo Brazil April 16-18, 2013 with other invited educators from around the world focused on STEM education research (2 of 5 from Canada). - Invited

S.E. Brewer, B.Cinel "Improving Student Accessibility through the Use of Remote Instrumentation" BCcampus presentation at NANSLO meeting, Feb. 26, 2013
<http://www.slideshare.net/bciln/2013-remote-labsinbc> - Invited

S.E. Brewer, B. Cinel, E. Macri "Online Laboratory Activities to Engage Learners: Remote Chemical Analysis At Western Washington & Thompson Rivers", Poster presented at the 18th Annual Sloan Consortium International Conference on Online Learning, Buena Vista, FL on October 10-12, 2012

Brewer S., Cancilla D., Cinel B., Czart M., Hurley-Dasgupta B., Hussain S., Macri E., Viswanathan S., "STEM Online Education: Strategies for Success" Pre-conference workshop at the 18th Annual Sloan Consortium International Conference on Online Learning, Buena Vista, FL on October 10, 2012 - Invited

S.E. Brewer, B.Cinel 2012 Sloan-C Moving the Laboratory Online Workshop "Teaching & Learning with Online Labs: Developing Best Practices & Accomplishing Learning Objectives", Sept 19-28, 2012 – Invited

S.E. Brewer, B. Cinel, E. Macri "Online Laboratory Activities to Engage Learners: Remote Chemical Analysis At Western Washington & Thompson Rivers", Poster presented at the 18th Annual Sloan Consortium International Conference on Online Learning, Buena Vista, FL on October 10-12, 2012

B. Cinel, S.E. Brewer "Improving Student Accessibility through the use of Remote Instrumentation: The BC-ILN Project" Invited talk at Biennial Conference on Chemical Education (BCCE), Pennsylvania State University from July 29 – August 2, 2012

B.Cinel, S.E. Brewer "Chemistry in the Multiversity" Talk at the 39th College Chemistry Canada Conference, Calgary, June 2012

S.E. Brewer, B. Cinel "Teaching and Learning with Online Chemistry Labs" Talk at the 95th Canadian Society for Chemistry Conference Calgary, June 2012

S.E. Brewer, B.Cinel, E. Macri, K. Jona, L.Nadolny, S. Viswanathan, B. Hurley, Dasgupta X., Du C., Li L.Quian, K.Rawat M.Dreux, A. Maharaj "STEM ONLINE EDUCATION: Energizing the Future" Sloan-C Research Symposium April 19 – May 3, 2012

S.E. Brewer B. Cinel "Providing and Evaluating Authentic On-Line Science Laboratory Experiences" HP Catalyst Showcase video March –April 2012

S.E. Brewer B.Cinel E. Macri "Integrated Laboratory network" in "The Multi-Versity and Global Collaboratory Consortia" HP Showcase on Innovation, Jan 17. 2012

John Turley, E.K. Watson, S.E. Brewer "Determination of the effect of pH on exchangeable and soluble Na⁺, K⁺, Mg²⁺, and Ca²⁺ analysis of dry pond soil, Kamloops, BC, Canada. Poster presented at 2011 ASA-CSSA-SSSA international conference in San Antonio Texas October 2011

John Turley, E.K. Watson, S.E. Brewer CHEM 4480 "Determination of the effect of pH on exchangeable and soluble Na⁺, K⁺, Mg²⁺, and Ca²⁺ analysis of dry pond soil, Kamloops, BC, Canada. Poster Presented at TRU Undergraduate Student Innovation & Research Conference, March, 2011

S. Irvine, "Cation, Electrical Conductivity, pH, and Total and Organic Carbon Analysis of Seven Horizons in a Dry Pond Soil, Kamloops, British Columbia" presented at Saskatoon 2010: Transfers and Transformations, the 2010 joint conference of the Canadian Society of Soil Science and Canadian Society of Agronomy, June 20-24, 2010

S.E. Brewer, B. Cinel "Labs in Undergraduate Chemical Education" presented at the 2010 College Chemistry Canada (C₃) Conference: Teaching and research in our changing post-secondary landscape, Kamloops BC, May 13-15, 2010

S.E. Brewer, B. Cinel, C. Thille "Teaching & Learning with Online Labs: Developing Best Practices & Accomplishing Learning Objectives" Introductory presentation by Co-organizers and Facilitators of International 2009 Sloan-Consortium Moving the Laboratory Online Workshop, August 19-28, 2009

E.K.Watson, N. Pitt, C. Bryson, S.E. Brewer 2009 "Description and classification of two soils within a recently dehydrated pond and two soils within a dry pond in the Kamloops

Region of British Columbia" Guelph 09, poster presentation at joint annual meetings of the Canadian Society of Agronomy (CSA), the Canadian Society of Soil Science (CSSS) and the Canadian Society of Agricultural and Forest Meteorology (CSAFM):Sciences for Sustainability: Soils, Agronomy, and Atmosphere, August 5-7 2009

N. Pitt, C. Bryson, E.K. Watson, S.E. Brewer "Soil chemistry analysis of four saline pond profiles", poster presentation at joint annual meetings of the Canadian Society of Agronomy (CSA), the Canadian Society of Soil Science (CSSS) and the Canadian Society of Agricultural and Forest Meteorology (CSAFM):Sciences for Sustainability: Soils, Agronomy, and Atmosphere, August 5-7 2009

G. Hunt, E. Templeman, L. Baldwin, P. Heaslip, D. McLennan, J. Jones, S.E. Brewer "Evolving Concepts of Scholarship: Dilemmas for a New University" Oral Presentation at Society for Teaching and Learning in Higher Education Annual Conference: Between the Tides, Fredericton N.B. June 17-20, 2009

S. Brewer, D. Lidster, E. Templeman "Everything You Wanted To Know About First Time Students (but were afraid to ask)" TRU Teaching Practices Colloquium February 16, 2009

Bush, K.L, Berube P.R., Brewer S.E. "DBP Formation Before and After Implementation of Membrane Filtration" AWWA 2008 Water Quality Technology Conference held Nov. 16-20, 2008, Cincinnati Ohio

E.K. Watson, J. Starchuck, S. Brewer 2008. "Description and classification of two soils within recently dehydrated ponds and one soil bordering a saline pond in the Kamloops Region of British Columbia". Canadian Society of Soil Science Annual Meeting, Prince George B.C. July 6-10, 2008 (poster presentation)

J.D. Van Hamme, E.M. Bottos, S.E. Brewer. 2008. "1H,1H,2H,2H-perfluorooctane sulfonate (TH-PFOS) biodegradation by *Gordonia* sp. strain NB4-1Y" 58th Annual Conference Canadian Society of Microbiologists, Calgary, Alberta June 9-12, 2008 (oral presentation)

S.E. Brewer & B. Cinel "Remote Instrumentation for Undergraduate Education:The BC-ILN Project" Canadian Society for Chemistry Conference, Chemical Education Division, May 27, 2008, Edmonton, Alberta (oral presentation)

S.E. Brewer & B. Cinel "Remote Instrumentation in the Laboratory: An Introduction to the BC-ILN" College Chemistry Canada Conference, May 24, 2008, Edmonton, Alberta (oral presentation)

S.E. Brewer & B. Cinel "The BC-ILN Project: Results" Sloan-C Online Workshop Series: Moving the Laboratory Online "Situating the Online Laboratory Learning Experience for Future Success" Workshop 2008 (recorded oral presentation and discussion leaders)

S.E. Brewer & B. Cinel "BC-ILN" BC Chemistry Provincial Articulation Meeting TRU, May 9, 2008 (oral presentation)

S.E. Brewer & B. Cinel "The BC-ILN Project: Results" TRU Science Seminar Series March 27, 2008 (oral presentation)

P. Heaslip, J. Jones, L. Baldwin, G. Hunt, E. Templeman, S. Brewer "The CASTL Affiliate

Program: How can it benefit scholarly teaching?" TRU Teaching Practices Colloquium, Plenary session, February 19, 2008 (oral presentation)

S.E. Brewer "Analytical and Environmental" Participant in TRU Science Faculty presentation on Faculty Research Interests to Science students Feb. 6, 2008

S.E. Brewer & B. Cinel "The BC-ILN Project: Beginnings" TRU Science Seminar Series Oct 4, 2007 (oral presentation)

Bush, K. L., Bérubé, P. R., Archambault, W. R., and Brewer, S. E., 2006. Investigation of disinfection by-product formation kinetics using a material-specific flow-through reactor system. AWWA Water Quality Technology Conference & Exposition, Denver, CO, November 5-9, 2006

S.E. Brewer, R.O'Brien "Teaching hands on lab skills to undergraduates. Experiences developing a 4th year lab course" International Conference on Analytical Sciences and Spectroscopy (ICASS 2006), UBC-O, Kelowna

S. Brewer, B. Cinel, S. Albon, D. Cancilla "Creating A BC-Integrated Laboratory Network: A UBC, TRU, UNBC and WWU Collaboration to Enhance Scientific Education" International Conference on Analytical Sciences and Spectroscopy (ICASS 2006), UBC-O, Kelowna

K. L. Bush (UBC), P. R. Bérubé(UBC), W. R. Archambault and S. E. Brewer, "Assesment of DBP formation in Kamloops, British Columbia following a Treatment Technology Upgrade", CWWA 12th Canadian National Conference and 3rd Policy Forum on Drinking Water "Safe Drinking Water - Moving Forward Together" April 2006, Saint John, NB

S.E. Brewer, B. Cinel, D. Bickley "Chemistry Contest at Thompson Rivers University: Past, Present and Future" poster presentation at the 2005 ChemEd conference, U.B.C. Vancouver August 2005

W. Archambault, M. Soneff, S.E. Brewer, N. Cheeptham, D. Teasdale, M. Gillis "Investigation of the Effects of Pre-coagulant Chlorination on Trihalomethane Formation and Biofilming Bacteria" poster presentation at the CWWA National Conference on Drinking Water, April 2004, Calgary AB

S.E. Brewer "Analytical Method Development Research at UCC" invited lecture at the 1st Annual Spring Analytical Symposium, ARASCI, April 2002, OUC, Kelowna BC

D.G. Bickley, S.E. Brewer, J.V. Davies and J.N. Reed "The Chemistry and Environmental Chemistry Major Programs at the University College of the Cariboo" oral presentation at the 82nd Canadian Society for Chemistry Conference, June 1999, Toronto Ontario

D.G. Bickley, S.E. Brewer, J.V. Davies and J.N. Reed "Chemistry and Environmental Chemistry Programs at the University College of the Cariboo" oral presentation at the College Chemistry Canada Conference, June 1999, Bellville Ontario

Smith R.G. and Brewer S.E. "Ginsenoside Analysis" The Association of Ginseng Growers (TAGG) of British Columbia Annual Meeting, May 1998 Vernon BC

Smith R.G., Brewer S.E., Caswell D., Carriere A., Zielke, B., Colistro R., Haltli B. and Cavaliere R. "Ginsenoside Analysis" The Association of Ginseng Growers (TAGG) of British Columbia Annual Meeting, May 1997, Vernon BC.

Brewer S.E., Kruus P. "Supercritical Carbon Dioxide Extraction of Aqueous Solutions" oral presentation at the 3rd International Conference on Supercritical Fluids, October 1994, Strassbourg, France

Brewer S.E. "Supercritical Fluid Extraction from Liquids" invited presentation at the International Workshop on Supercritical Fluid Extraction, May 1994, Ottawa, Ontario

Brewer S.E., Kruus P. "Direct Supercritical Carbon Dioxide Extraction of Pentachlorophenol from Water" poster presentation at the International Conference on Environmental and Analytical Chemistry, May 1994, Ottawa, Ontario

Brewer S.E., Kruus P. "Supercritical Fluid Extraction of Organics from Water Systems" oral presentation at the International Symposium on Chemistry and Biology of Municipal Water Treatment, October 1993, Burlington, Ontario

Brewer S.E., Kruus P. "Supercritical Fluid Extraction of Organics from Water: Development of a Direct Method" oral presentation at the 76th Canadian Society for Chemistry Conference, June 1993, Sherbrooke, Quebec

Kruus P., Wigfield D., Brewer, S.E. "Development of Environmental Chemistry Courses" oral presentation at the 76th Canadian Society for Chemistry Conference, June 1993, Sherbrooke, Quebec

Brewer S.E., Kruus P. "Direct Supercritical Carbon Dioxide Extraction from Water" poster presentation at the American Waterworks Association Conference, May 1993, Ottawa, Ontario

Brewer S.E., Kruus P. "Direct Supercritical Fluid Extraction of Organics from Water" oral presentation at the Technology Transfer Conference (MOE), November 1992, Toronto, Ontario

Brewer S.E. "Progress in Using Supercritical Carbon Dioxide for Extractions from Water" invited speaker at the Canada Centre for Inland Waters, April 1992, Burlington, Ontario

Brewer S.E., O'Neill M. "Supercritical Fluid Science" joint lecture at the Centre for Analytical and Environmental Chemistry Annual Meeting, April 1992, Carleton University, Ottawa, Ontario

Brewer S.E. "Suitability of Supercritical Fluids for the Extraction of Organics from Water" invited speaker at the Canada Centre for Inland Waters, May 1991, Burlington, Ontario.

Mattar S.M., Brewer S.E. "Geometry Optimization and Computation of the Electronic Structure of (C₆H₆)V₂ Molecules by the LSD-LCAO Method" poster presentation at the 74th Canadian Society for Chemistry Conference, June 1991, Hamilton, Ontario

VI. Current and On-Going Service

Service to the Department

Developer and Manager TRU Chemonline YouTube Channel

TRU Chemistry Hiring Committee member

TRU Chemistry Contest Committee member & Volunteer

TRU Chemistry Contest Lab Experience Committee member & Volunteer

TRU Canadian Society for Chemistry TRU Silver Medal Selection Committee Chair

TRU Chemistry Student Award Selection Committee Chair

Service to the University

Member, Faculty Promotion and Tenure Committees, Hiring Committees

TRU Chemistry Student Award Selection Committee

Service to Community

Outreach activities for local and regional schools, mentoring school student projects

External Service and Additional Professional Activity

Registrar, Association of the Chemical Profession of BC (Jan. 2020 - present)

P.Chem. (Professional Chemist) Charter pledge member, Association of the Chemical Profession of BC and received PChem. designation (2009-current)

FCPC Federation of Canada's Professional Chemists Certified Professional Ethics Course Instructor

Member, Canadian Society for Chemistry, Education Division

Member, College Chemistry Canada