

SERG/GRÉS News

Looking forward to CSSE 2016!

Dear SERG friends and members,

It is with great enthusiasm that we look forward to the next gathering of the Science Education Research Group (SERG) at the Canadian Society for the Study of Education (CSSE) conference in Calgary. As usual we have planned a packed and engaging set of sessions that bring together scholars from across Canada and from international locations. You will find the SERG conference schedule on pages 5 - 8 of this newsletter. Please make a note of the keynote presentation by Anthony Bartley on Monday, May 30 at 3:00 pm and the Annual General Meeting (AGM) meeting on Tuesday, May 31 from 4:30 to 5:45 pm. Following the AGM, we will have the SERG dinner from 6:30 pm at Jameson's Irish Pub (3790 Brentwood Road NW, just across Crowchild Trail from the University of Calgary - <http://jamesonspubs.com/brentwood/>). We hope to see you all there!

See you soon in Calgary!

Sincerely,

Carol-Ann Burke, Christine Tippett, Todd Milford, Michel T. Léger, Eun-Ji Amy Kim, Natacha Louis, Dawn Wiseman, and Carol Rees

Nous avons hâte de vous retrouver au SCÉE 2016 !

Chers amis et membres du SERG,

C'est avec beaucoup d'enthousiasme que nous attendons la prochaine rencontre du *Group de recherche en éducation de sciences* (GRÉS) lors de la conférence de la *Société canadienne pour les études en éducation* (SCÉE) à Calgary. Comme toujours, nous avons prévu une séquence de sessions animées et captivantes, rassemblant des spécialistes de partout au Canada et d'ailleurs au monde. Vous trouverez l'horaire de la conférence du GRÉS aux pages 5 à 8 du présent bulletin. Veuillez prendre note du discours d'Anthony Bartley le lundi 30 mai à 15h. Notez aussi la date de la *Réunion annuelle générale*, soit le mardi 31 mai, de 16h30 à 17h45. Après la réunion annuelle, nous nous rassemblons pour le souper GRÉS au Jameson's Irish Pub à partir de 18h30 (3790 Brentwood Road NW, en face de l'Université de Calgary sur Crowchild Trail <http://jamesonspubs.com/brentwood/>). Nous espérons vous voir en grand nombre!

Au plaisir de vous voir bientôt à Calgary!

Cordialement,

Carol-Ann Burke, Christine Tippett, Todd Milford, Michel T. Léger, Eun-Ji Amy Kim, Natacha Louis, Dawn Wiseman et Carol Rees

Inside This Issue

- 1 ♦ CSSE 2016
- 2 ♦ SERG President's message
- 3 ♦ CSSE Conference welcome
- 4 ♦ SERG Annual General Meeting /
Assemblée Générale Annuelle du GRÉS
- 5 ♦ SERG CSSE Sessions
- 9 ♦ Keynote
- 10 ♦ Additional Items

SERG/GRÉS

SERG President's Message

Dear SERG members and friends,

It has been a great privilege to serve as president of the SERG community this year. We have seen a phenomenal rise in conference submissions (many thanks to Chris Tippett for handling that unexpected joy so ably) and our membership figures remain strong.

Before going any further I would like to thank the members of the executive committee for their commitment and tireless efforts this year. Christine Tippett serves as Conference Program Chair and Vice President, fielding the many issues and queries that come with such a diverse set of submissions. Todd Milford is our Secretary, bringing you the newsletter and generally keeping us all updated. Michel Léger continues to serve as our Francophone Representative, supporting our efforts for linguistic diversity in our community. Also, as Graduate Student Representatives, Natacha Louis and Eun-Ji Amy Kim have proposed creative approaches to enliven our student community, supporting Dawn Wiseman as she continues to serve as our Communications Officer. Special thanks go to our Past President Carol Rees who continues to support the executive team so that my transition into this position was seamless: many thanks!

Many of you will notice that we are experimenting with a number of format changes to make our conference session relevant to a broader spectrum of science education researchers across Canada and beyond. After the riveting keynote presentation given by David Blades (University of Victoria) at last year's conference, we are being treated to another keynote this year where Anthony Bartley (Lakehead University) will help us to situate SERG within its historical context. We are also experimenting with an idea proposed by Michael Bowen: a session emphasizing innovations in science teacher education courses across Canada; we look forward to the growth in this category of presentations.

For an update on other developments of the past year and to help us elect our new executive members, I encourage all SERG members and interested friends to attend the SERG AGM on Tuesday May 31 at 4:30 pm. Please review the minutes of our last meeting on the SERG website (www.sergcanada.ca). At the AGM we will be formally congratulating the winners of this year's SERG Awards. I am pleased to announce that the winner of the SERG Dissertation/Thesis Award is **Alena Kottova (University of Victoria)** for her dissertation *Filmmaking: A new pedagogical method to explore students' views of nature of science*. The winner of the graduate student paper award is **Latika Raisinghani (University of British Columbia)** for her paper *Tackling culture-imposed biases in science and mathematics classrooms: A case of Vancouver teachers*. Please join us to recognize the accomplishments of our junior colleagues.

After the AGM we hope that everyone will join us as we walk across the road for our annual dinner at Jameson's Irish Pub. As an added incentive for students to attend the dinner, we have secured a 10% discount for anyone carrying student ID.

As I end this message, a big thank you goes to those who submitted papers and award applications to SERG this year as well as those of you who reviewed the many submissions. Special thanks go to the dissertation award adjudication committee: Wanja Gitari, Marie-Claire Shanahan, John Wallace, and George Zhou. A final thank you goes to every SERG member; without your financial support the graduate awards would not be possible.

Carol-Ann Burke, President



CSSE Annual Conference 2016
University of Calgary, Calgary, AB
28 May – 1 June 2016

The CSSE Annual Conference is held in conjunction with the Congress of the Humanities and Social Sciences. This bilingual conference provides an opportunity for discussion of educational issues among practitioners and educational scholars from across the nation.

SERG Conference Welcome

This year, for the annual meeting of the Science Education Research Group at CSSE, we are meeting in Calgary, Alberta, with our SERG paper, poster, and roundtable sessions held Monday to Wednesday (May 30 to June 1, 2016). Calgary is home of the famous Stampede (which is held in July so NOT on while we are there). However, the city offers multiple natural attractions due to its location at the confluence of the Bow and Elbow rivers and in the transition area between the foothills of the Rocky Mountains and the prairies. There are also many cultural and sporting highlights to be enjoyed. Average high temperatures for May and June are 16-20° and there is a strong possibility of rain as June is Calgary's rainiest month.

Thanks go out to all who submitted proposals and even bigger thanks go to volunteers who reviewed those proposals for the SERG sessions at CSSE 2016. We had a large increase in the number of proposals this year (52 up from 38) but we were able to include 46 submissions in the program. The range of topics is extensive, as always, indicating a really engaging time as local and international members of the Canadian science education research community congregate at the University of Calgary. We would love to see everyone there, even if you aren't presenting at SERG, come and join us as we discuss our work in a collegial and supportive environment.

This year's keynote presentation will be given on Monday, May 30 at 3:00 pm, immediately preceding the SERG poster presentations. Dr Anthony Bartley (Lakehead University) will be sharing the history of our organization in his talk *A Brief History of SERG - Its Raison d'Être and Formation*. More details can be found later in this newsletter. Also of particular note this year is our new *Methods and Strategies* session on Tuesday, May 31 at 9:45, when we will have three presentations that focus on science and STEM methods courses.

As usual, we have planned a SERG annual dinner for all SERG members and guests. We've made reservations for Tuesday, May 31, 2016 at 6:30 pm at Jameson's Irish Pub (3790 Brentwood Road NW, <http://jamesonspubs.com/brentwood/>). Noted for having more than 20 different draft beers available, the restaurant has burgers, pizza, and other entrées ranging from \$15 to \$20. Please email me at ctippett@uottawa.ca as soon as possible to reserve your place.

Looking forward to seeing you all in Calgary!

Chris Tippett, Vice President and Program Chair

SERG Annual General Meeting / Assemblée Générale Annuelle du GRÉSTuesday, May 31st / mardi 31 mai**4:30 – 5:45 pm / 16h30 – 17h45**

CACS / ACÉC (SERG/GRÉS)

Agenda

1. Approval of Agenda
2. Approval of Minutes of 2015 Meeting
3. Business arising from 2015 AGM
 - a. Updating membership lists (see Secretary's report)
 - b. *Methods and Strategies* forum (see Vice-President/Conference Program Chair report)
 - c. Progress towards bilingual sessions (see Francophone Representative report)
4. Reports
 - a. President: Carol-Ann Burke
 - i. Presentation of awards and bursary
 - ii. Proposal for constitutional change in treasury
 - iii. Proposal to combine Graduate Student Representative and Communications Officer
 - b. Vice-President/Conference Program Chair: Christine Tippett
 - c. Secretary: Todd Milford
 - d. Graduate Student Representatives: Natacha Louis and Eun-Ji Amy Kim
 - e. Communications Officer: Dawn Wiseman
5. Nominations and Elections of
 - a. President: Christine Tippett
 - b. Vice President:
 - c. Secretary:
 - d. Graduate Student Representative:
 - e. Past President: Carol-Ann Burke
6. New business
 - a. Research proposal: Mike Bowen
 - b. Support for grad students: Mike Bowen
 - c. SERG/Engineering Education collaboration at CSSE 2017: Carol-Ann Burke
7. Motion to Adjourn

REMINDERS**Monday, May 30 / lundi 30 mai****3:00 pm / 15h00****Keynote Address: Dr. Anthony Bartley (Lakehead University)
A Brief History of SERG - Its Raison d'Être and Formation.****Tuesday, May 31 / mardi 31 mai****4:30 – 5:45 pm / 16h30 – 17h45****SERG Annual General Meeting / Assemblée Générale Annuelle du GRÉS****Tuesday, May 31 / mardi 31 mai****6:30 pm / 18h30****Dinner - Jameson's Irish Pub**

SERG Sessions at CSSE: May 30 - June 1, 2016

<p>Monday, May 30 lundi 30 mai</p> <p>TIMESLOT 10 PÉRIODE 10</p> <p>11:15 am – 12:15 pm 11h15 – 12h15</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 10 PCK and Teacher Needs</p> <p>Documenting Pedagogical Content Knowledge of a High School Science Teacher: An Application of Narrative Analysis <i>Saiqa Azam (Memorial University), Bonnie Shapiro (University of Calgary)</i></p> <p>Working from Teacher Needs to Design APL Resources for Teaching the Nature of Science <i>Emily Ng (University of Calgary), Marie-Claire Shanahan (University of Calgary)</i></p>
<p>Monday, May 30 lundi 30 mai</p> <p>TIMESLOT 12 PÉRIODE 12</p> <p>1:30 – 2:45 pm 13h30 – 14h45</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 12 ICT: Social Media, Interactions, and Relationships</p> <p>Using a Survey to Explore Science Students' Social Media Learning Behaviours <i>Rachel Moll (Vancouver Island University), Wendy Nielsen (University of Wollongong)</i></p> <p>Canadian Science Education Research: Co-author Relationships Beyond Academic and Geographical Borders <i>Jerine Pegg (University of Alberta), Dawn Wiseman (McGill University), Michael Montgomery (University of Alberta), Sam Cheng (University of Alberta)</i></p> <p>Exploring the Issue of Scientists Being Encouraged to Directly Engage the General Public <i>G. Michael Bowen (Mount Saint Vincent University), Richard Zurawski (Mount Saint Vincent University), Rob Thacker (Saint Mary's University), Kimberley P Good (Dalhousie University)</i></p> <p>Filmmaking as a way of teaching and learning nature of science <i>Alena Kottova (University of Victoria)</i></p>
<p>Monday, May 30 lundi 30 mai</p> <p>TIMESLOT 13 PÉRIODE 13</p> <p>3:00 – 4:15 pm 15h – 16h15</p> <p>SERG/GRÉS Keynote and Poster/Affiches</p>	<p>Session/Séance 13 SERG Keynote and Poster Session</p> <p>Keynote: A Brief History of SERG - Its Raison d'Être and Formation <i>Anthony Bartley (Lakehead University)</i></p> <p>Posters</p> <p>A Discourse Approach to Examining the Identities of Biology Teachers who Incorporate the Outdoors: Comparison of Alberta High School Teachers <i>Julieta Delos Santos (University of Alberta)</i></p> <p>Pedagogy for 21st Century STEM Education <i>Shaily Bhola (University of Calgary), Gale Parchoma (University of Calgary)</i></p> <p>British Columbia's New Science Curriculum: Potential Consequences for Grade 8 Teachers as They Prepare to Teach Topics of Quantum Mechanics <i>Goksenin Sen (University of Victoria)</i></p> <p>What Does It Mean to be Feminist Physics Laboratory Researcher: Autobiographical Experiences and Lessons for Girls in STEM Education <i>Angela Mercy Rutakomozibwa (University of British Columbia), Samson Nashon (University of British Columbia)</i></p> <p>Students' Experiences in Inquiry-Oriented Science Education <i>Krista Corinne Ritchie (Mount Saint Vincent University), Frank LaBanca (Westside Middle School Academy), Michael Bowen (Mount Saint Vincent University), Bruce M. Shore (McGill University)</i></p>

<p>Monday, May 30 lundi 30 mai</p> <p>TIMESLOT 14 PÉRIODE 14</p> <p>4:30 – 5:45 pm 16h30 – 17h45</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 14 Diversity and Equity in Science Education</p> <p>Communication Models of ELL Science Instruction <i>Alandeom Oliveira (University at Albany –SUNY), Molly Weinburgh (Texas Christian University)</i></p> <p>“I want to be a doctor, not a scientist!” Marginalized Student Engagement with Science <i>Lydia E Carol-Ann Burke (University of Toronto), Gurpreet Sahmbi (University of Toronto)</i></p> <p>Research on Teacher Thinking and Practices to Address Student Diversity in Science Education: Researchers Collaborate to Identify Research Themes and Issues to Guide Professional Practice <i>Bonnie L Shapiro (University of Calgary), Saiqa Azam (Memorial University), Kamal Johal (F E Osborne School)</i></p>
<p>Tuesday, May 31 mardi 31 mai</p> <p>TIMESLOT 15 PÉRIODE 15</p> <p>8:15 – 9:30 am 8h15 – 9h30</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 15 Science in Early Childhood (Pre-K to Grade 3)</p> <p>Re-defining Professional Learning and Practice in Primary Science: An Activity Theory Analysis <i>Karen Goodnough (Memorial University)</i></p> <p>The Four Causes of Children’s Technology and Engineering in Science Classrooms <i>Mijung Kim (University of Alberta), Wolff-Michael Roth (University of Victoria)</i></p> <p>A Case Study Exploring the Regulatory Questions asked by Early Childhood Education Teachers to their Students <i>Rebecca Lynn Edwards (University of Victoria), Lindsay McCardle (University of Victoria), Allyson F Hadwin (University of Victoria), Todd M. Milford (University of Victoria), Christine D. Tippet (University of Ottawa)</i></p> <p>Environmental Education in Kindergarten: The Turtle Who wanted to Fly <i>Barbara A McMillan (University of Manitoba)</i></p>
<p>Tuesday, May 31 mardi 31 mai</p> <p>TIMESLOT 16 PÉRIODE 16</p> <p>9:45 – 11:00 am 9h45 – 11h00</p> <p>SERG/GRÉS Methods and Strategies</p> <p>Multi-paper Plusieurs communications</p>	<p>Session/Séance 16 Strategies for Teaching Science Methods Courses</p> <p>A Study of Impact of Science Methods Courses on Teacher Candidates’ Self-efficacy in Teaching Science and Their Interest in Becoming a Science Teacher <i>George Zhou (University of Windsor)</i></p> <p>Collaboratively Designing and Implementing a STEM Education Course <i>Krista Rae Francis (University of Calgary), Sharon Friesen (University of Calgary), Dianne Gereluk (University of Calgary), Armando Paulino Preciado Babb (University of Calgary), Pratim Sengupta (University of Calgary), Gabriela Alonso-Yanez (University of Calgary), Lissa D’Amour (University of Calgary), Miwa Takeuchi (University of Calgary), Dianne Dodsworth (University of Calgary), Gina Cherkowki (University of Calgary), Jeff Turner (University of Calgary), Mary-Anne Mitchell-Pellett (University of Calgary), Polly Knowlton Cockett (University of Calgary), Sandy Last (University of Calgary)</i></p> <p>Using Technology to Connect Theory and Practice and Encourage Learning Communities in Science Education Graduate Courses <i>Jerine Pegg (University of Alberta)</i></p>

Graduate Student Travel Bursary

SERG would like to sponsor one graduate student travel bursary for a student who is attending CSSE for the first time. The award will cover registration fees for CSSE and Congress. All first time attendees who are members of SERG are eligible for this bursary whether they will be presenting at the conference or not. Supervisors may nominate students, and students may also self-nominate. Nominations can be submitted using the SERG Bursary Nomination Form available at

https://docs.google.com/forms/d/1Tgj5ZM_jyu64ZlwwtBmRLrcoG7tkn1JBSUQ8s8edjKo/viewform

The form must be submitted by May 20, 2016. The winner will be drawn at the SERG AGM.

In any given year an individual may only receive a paper award or the travel bursary.

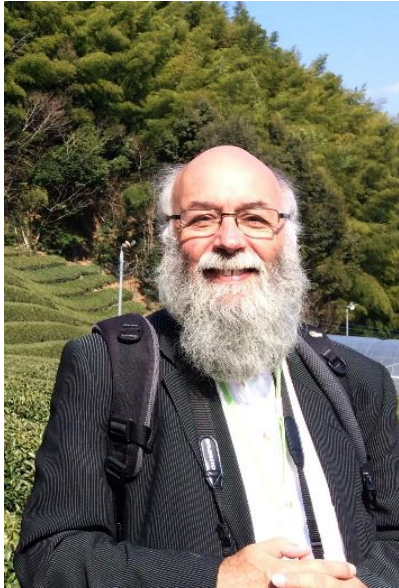
<p>Tuesday, May 31 mardi 31 mai</p> <p>TIMESLOT 19 PÉRIODE 19</p> <p>1:30 – 2:45 pm 13h30 – 14h45</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 19 Aspects of Curriculum and Planning</p> <p>Programming in K-12 Science Classrooms: From the Teachers' Perspective <i>Pratim Sengupta (University of Calgary), Amy Farris (Vanderbilt University), Amanda Dickes (Vanderbilt University)</i></p> <p>STEM education: Is this Really our Sputnik Moment? Connecting Lessons Learned from Post-Sputnik Science Education Reform to the Present STEM Movement <i>Sharon Patricia Pelech (University of Lethbridge)</i></p> <p>Instructional Time for Science in Elementary Schools <i>Allison Lauren Dow (Brock University)</i></p> <p>Influencing Factors on Curriculum Policy in an Era of Increased Accountability, Surveillance and Regulation <i>Marietta Bloch (Independent Scholar)</i></p>
<p>Tuesday, May 31 mardi 31 mai</p> <p>TIMESLOT 20 PÉRIODE 20</p> <p>3:00 – 4:15 pm 15h – 16h15</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 20 Teaching and Learning in Science</p> <p>Science Learning Environments and Innovation: Towards a Better Understanding <i>Xavier Fazio (Brock University)</i></p> <p>Exemplification in Science Instruction: Teaching and Learning through Examples <i>Adam Oliver Brown (University of Ottawa), Alandeom Oliveira (University at Albany – SUNY)</i></p> <p>Perspectives Underlying Students' Understanding of Choking Through Web-Based Learning Experiences <i>Samson Madera Nashon (University of British Columbia), Douglas James Adler Nashon (University of British Columbia), Sandra Scott Nashon (University of British Columbia), Jeffrey Ludemann Nashon (University of British Columbia)</i></p> <p>Impact Analysis of LabMS on Student Laboratory Learning, Collaboration, and Engagement <i>Joseph Engemann (Brock University)</i></p>
<p>Tuesday, May 31 mardi 31 mai</p> <p>TIMESLOT 21 PÉRIODE 21</p> <p>4:30 – 5:45 pm 16h30 – 17h45</p> <p>SERG/GRÉS AGM</p>	<p>Session/Séance 21 SERG AGM</p>
<p>6:30 pm / 18h30 Tuesday, May 31, 2016 at 6:30 pm at Jameson's Irish Pub (3790 Brentwood Road NW, http://jamesonpubs.com/brentwood/).</p>	
<p>Wednesday, June 1 mercredi 1 juin</p> <p>TIMESLOT 22 PÉRIODE 22</p> <p>8:15 – 9:30 am 8h15 – 9h30</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 22 Contemporary Issues in Science Education</p> <p>Developing a Checklist for the Draw-a-Computer-Scientist Test (DACST): Building on Draw-a-Scientist and Draw-an-Engineer <i>Christine Tippett (University of Ottawa), Todd M Milford (University of Victoria), Kaitlin Town (University of Ottawa)</i></p> <p>Examination of Community of Inquiry-Based Indicators of Critical Thinking in Archival Problem-Based Learning Online Discussions of Undergraduate Science Learners <i>Michael-Anne Noble (University of Victoria)</i></p> <p>An Etymological Approach to the Learning of Scientific Terminology: An Exploratory Study on Lexical Access, Knowledge Transfer and Meaningful Learning <i>Giuliano Reis (University of Ottawa), Adam Brown (University of Ottawa)</i></p>

<p>Wednesday, June 1 mercredi 1 juin</p> <p>TIMESLOT 23 PÉRIODE 23</p> <p>9:45 – 11:00 am 9h45 – 11h00</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 23 Perspectives on Science: Wonder, Creativity, Ethics and Aesthetics</p> <p>Positing an(other) Ontology within Science Education: Towards Differential Practices of Ethical Accountability <i>Marc Higgins (University of British Columbia)</i></p> <p>Aesthetics-Based Science Education for Environmental Responsibility <i>Tomo Nishizawa (University of Victoria), David Blades (University of Victoria)</i></p> <p>Integrating Creativity as a Strategy to Enhance Science Teaching in Primary Schools <i>Natacha Louis (University of Ottawa)</i></p> <p>A Case for the Inclusion of Philosophical Wonder in School Science <i>Josie Melton (University of British Columbia)</i></p>
<p>Wednesday, June 1 mercredi 1 juin</p> <p>TIMESLOT 24 PÉRIODE 24</p> <p>11:15 pm – 12:15 pm 11h15 – 12h15</p> <p>SERG/GRÉS Roundtables/ Tables rondes</p>	<p>Session/Séance 24 SERG Graduate Student Roundtables</p> <p>Assessing Theoretical Mathematics with Science Applications <i>Ellen Watson (University of Alberta)</i></p> <p>Discourse and the Construction of the Science-Teacher-Subject: An Examination of Why We Say the Science Teacher is Elite <i>Mark Louis Wernikowsski (University of Regina)</i></p> <p>Weighting on Time: Finding New Metaphors in the Emergence of Equitable Assessment Communities in Support of Inquiry in Science <i>Kevin Riffel (University of Saskatchewan)</i></p> <p>Mobile Survey App for Children’s Interpretive Design at Museums and Science Centres <i>Michael Andrew Hammond-Todd (University of Victoria)</i></p>
<p>Wednesday, June 1 mercredi 1 juin</p> <p>TIMESLOT 26 PÉRIODE 26</p> <p>1:30 – 2:45 pm 13h30 – 14h45</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 26 Outdoor Education and Sustainability</p> <p>Science Education in Canada: Toward a New Orientation to the Sustainability Sciences <i>John James Murray (Brandon University)</i></p> <p>Place-based Pedagogies in Science Teacher Education <i>Kevin Barry O'Connor (Mount Royal University)</i></p> <p>Exploring Practice-linked Identities Construction in Culturally Diverse Urban Youth Through an Intergenerational Garden-based Learning Project <i>Tathali Urueta-Ortiz (University of British Columbia)</i></p>
<p>Wednesday, June 1 mercredi 1 juin</p> <p>TIMESLOT 27 PÉRIODE 27</p> <p>3:00 – 4:15 pm 15h – 16h15</p> <p>SERG/GRÉS Multi-paper Plusieurs communications</p>	<p>Session/Séance 27 Issues of Diversity in Science Education</p> <p>Exploring the Influence of Stereotype Threat for Women in the Physical Sciences and Engineering <i>Kaitlin Town (University of Ottawa)</i></p> <p>Tackling Culture-imposed Biases in Science and Mathematics Classrooms: A Case of Vancouver Teachers <i>Latika Raisinghani (University of British Columbia)</i></p> <p>Black Women in the Physics Academy: Sociocultural Theorizing of Learning and Black Canadian Feminist Thought <i>Thelma Akyea (University of Toronto)</i></p>

Please check your membership details for this year! If they do not include SERG as a Special Interest Group, please contact Barb Ford at mmb_services@csse.ca so that she can make the necessary changes.

Keynote Address: A BRIEF HISTORY OF SERG - ITS RAISON D'ÊTRE AND FORMATION

As we move through the second decade of the Science Education Research Group (SERG), it is now time to ensure that the formation and early years of SERG are documented. This presentation will take you from the period before SERG existed, through the three years of formation for SERG, and up to our current state.



Tony Bartley is an associate professor of science education at Lakehead University, Thunder Bay, Ontario, Canada. His career steps in science education began in England as a teacher of physics and chemistry in Staffordshire, Richmond-upon-Thames and Kent, and upon immigration to Canada in Victoria, BC. Moving to Lakehead University in 1994, he has been actively involved in a range of Ontario Ministry of Education initiatives, most recently as a member of the Ontario Education Research Panel. Currently taking sabbatical leave, Tony represented CSSE with a presentation at the 2015 New Zealand Association for Research in Science Education Conference in Whakatane, and has spent time with science education researchers from Waikato University (New Zealand), Wollongong University (Australia), Shizuoka University (Japan) and Chiba University (Japan). A keen traveler and photographer, Tony enjoys time with his wife, Jan and son, Ian on their boat sailing out of Ganges, BC. Their 2015 trip saw them reach the Homathko River...and return.

Noteworthy Items

Journal - Special Issue

Emerging Conceptions of Science, Technology, Engineering, and Mathematics (STEM) Education in the *Canadian Journal of Science, Mathematics and Technology Education*, 16(2).

Release date: June, 2016

Book

MacLeod, K. A., & Ryan, T. G. (Eds.). (in press). *The physics educator: Tacit praxes and untold stories*. Champaign, IL: Common Ground.

Release date: May 1, 2016

SERG Researchers in the News

Dr. Karen Goodnough empowering educators teaching science, technology, engineering and mathematics
<https://gazette.mun.ca/research/confidence-builders/>

NARST New Research Interest Group (RIG)

A new RIG is being proposed for NARST to bring the voices of Indigenous peoples (from across the world) into science education, research, and policy. Those interested can contact Pauline Chinn

chinn@hawaii.edu to be added to the mailing list.

Jobs

Memorial Math Ed and STEAM:

http://www.csse-scee.ca/docs/employment/employment_2016_04Apr_MUN_STEM.pdf

Let's Talk Science Vice President, Programs:

http://www.csse-scee.ca/docs/employment/employment_2016_03Mar_LTS_VP.pdf

Senior Years Science position at the University of Winnipeg

<http://www.uwinnipeg.ca/hr/employment-faculty.html>