

SERG/GRÉS News

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Proposals for CSSE 2019

Following the success of last year's conference, we are eagerly awaiting proposals for SERG sessions at CSSE 2019 at the University of British Columbia. The call for presentations can be found at <https://csse-scee.ca/>. Note that the deadline for submissions is **October 1, 2018**. Don't forget to renew your CSSE and SERG memberships and to select SERG as the destination for your proposals.

This year we will again be welcoming presentations in the category - *Methods and Strategies in Science Teacher Education* - for people who would like to share innovative ideas related to science methods courses. More information about this category is available at <http://serg-gres.ca/> and later in this newsletter. Shortly, we will be emailing a call for proposal reviewers. Please consider volunteering since reviewing is an important factor in the success of our sessions. We look forward to receiving your proposals soon!

Mickie Noble, Lilian Pozzer, Allison Gonsalves, Roxane Gonzalez, Ellen Watson, Michel T. Léger, Dawn Wiseman, Todd Milford
SERG Executive 2018-2019

Propositions pour la SCÉE 2019

Après le succès de la conférence de l'année dernière, nous attendons ardemment vos propositions pour les sessions du GRÉS à la SCÉE 2019 qui aura lieu dans à l'Université de Regina. L'appel aux communications a été lancée sur le site Web de la SCÉE, à l'adresse suivante: <https://csse-scee.ca/>. La date limite pour vos soumissions est le **1 octobre, 2018**. N'oubliez pas de renouveler vos adhésions à la SCÉE et au GRÉS.

Cette année, nous accueillons encore des propositions dans la catégorie *Méthodes et stratégies en éducation de l'enseignement des sciences*, pour ceux et celles qui désirent partager des idées novatrices en lien avec les cours de méthodes en sciences. De plus amples informations au sujet de cette catégorie se trouvent à la fois au site du GRÉS (<http://serg-gres.ca/>) et dans le présent bulletin de nouvelles. Nous avons déjà envoyé par courrier électronique un appel pour des évaluateurs de proposition. Veuillez s'il vous plait considérer offrir de votre temps puisque le processus d'arbitrage contribue directement au succès de nos sessions. Nous attendons avec intérêt vos propositions!

Mickie Noble, Lilian Pozzer, Allison Gonsalves, Roxane Gonzalez, Ellen Watson, Michel T. Léger, Dawn Wiseman, Todd Milford
Comité de direction du GRÉS 2018-2019

An introduction to the SERG Executive 2018-2019

Mickie Noble, President, Mickie.Noble@RoyalRoads.ca

I am an assistant professor in the School of Environment and Sustainability at Royal Roads University (RRU), where I teach Applied Microbiology as well as Ecotoxicology. I completed my Ph.D. in Curriculum and Instruction at the University of Victoria. I enjoy teaching both the lab and lecture portions of my courses. I also run a K-5 elementary school outreach program that allows elementary school students to come to RRU for the day to experience both lab and field science, and allows my BSc students to experience working with children. According to the elementary teachers, the program is “corrupting” their students one class at a time by convincing them that science is actually fun! I have greatly enjoyed becoming involved with SERG, and look forward to meeting more of you in Vancouver!



Lilian Pozzer, Vice-President, lilian.pozzer@umanitoba.ca

I am an Assistant Professor in the Department of Curriculum, Teaching and Learning, at the University of Manitoba. My background is in Biology Teaching, and I hold a M.A. and a Ph.D. from the University of Victoria. I am also a former SSHRC Postdoctoral Fellow at McGill University. Currently, I teach at the post-degree B.Ed. Program, primarily at the Senior Years (Secondary Science) Stream, as well as at the Post-Baccalaurate Degree Program and Graduate program in the Faculty of Education. My research interests include the use and interpretation of inscriptions (that is, illustrations, graphs, pictures) in Science Education and multimodal

investigation of classroom interaction, communication, and discourse, focusing particularly on the integration of verbal and nonverbal resources. As Brazilian-Canadian and mother of an autistic child, I am personally interested and motivated to pursue issues related to classroom inclusion and Science Education in Brazil. This is my first year in the SERG executive and I look forward to welcome and meet SERG members at CSSE in Vancouver!

Allison Gonsalves, Secretary, allison.gonsalves@mcgill.ca

I am very happy to be serving as secretary again this year on the SERG Executive. I am currently an Assistant Professor with the Faculty of Education at McGill University. My area of research is around science identities, informal science education and teacher education. I'm very excited to meet members of the SERG community, and I look forward to connecting at CSSE in Vancouver. Please send any questions or comments to me at the email address above. You can also find me on Twitter (@allisonjardim).



Ellen Watson, Graduate Student Representative

ellen.watson@ualberta.ca

Ellen Watson is a Ph.D. candidate in Secondary Education at the University of Alberta. Ellen's dissertation research is investigating teachers' epistemic beliefs about physics and the connection (if any) to their concerns regarding the new Physics 30 curriculum in Saskatchewan. Ellen enjoys both math and science jokes as well as random animal facts. I am excited to serve SERG in my role as a Graduate Student Representative and encourage any of my fellow graduate students to reach out to me with concerns, ideas, etc. by email or through twitter (@sneakyfritz).





Roxana Yanez Gonzalez, Graduate Student Representative
ryane009@uottawa.ca

After working as a social studies teacher at the German School in Quito, I moved to Ottawa and got involved in the field of Early Childhood Education as an educator and college instructor. I am currently a Ph.D. student at the University of Ottawa under the inspiring supervision of Dr. Christine Tippett. My research interests include STEM and Education for Sustainability in the early years. I look forward to making myself useful as a Grad Representative!



Michel T. Léger, Représentant francophone/Francophone Representative,
michel.leger@umoncton.ca

Un très sincère bonjour à tous les membres du GRÉS! Je suis très content de me joindre au Comité de direction à titre de Représentant francophone, un nouveau poste qui vise un rapprochement des collègues francophones du GRÉS et une plus grande participation de leur part. Je travaillerai aussi pour assurer la disponibilité en français de toute information pertinente en provenance du GRÉS. À l'Université de Moncton, sur la côte Est, j'enseigne en didactique des sciences et en méthodes de recherche. Sur le plan de la recherche, je travaille essentiellement en Éducation relative à l'environnement,

notamment sur le développement d'une compétence d'action collective en contexte de famille. J'ai bien hâte de contribuer à l'évolution du GRÉS!

A very sincere « Bonjour » to all SERG members! I am very excited to serve on the Executive committee as the group's Francophone Representative, a position created to reach out to and encourage participation from French speaking SERG colleagues. Translation will also make up an important part of my responsibilities. In the Maritimes, at the Université de Moncton, I teach science didactics and research methods. My research program is essentially focused on issues of Environmental Education, more specifically on the development of a collective action competence in the context of family. I look forward to contributing to the evolution of SERG!

Dawn Wiseman, Communications, dawn.wiseman@mcgill.ca

Hi, everyone. Welcome to the 2018-2019 academic year. As we revamp the SERG web page and think about how to get information out in the most effective way, we welcome any and all feedback on what would work for you. Send ideas, announcements, etc to me at my email address above. All of our information can still be found on the SERG website at <http://serg-gres.ca/>. SERG updates are posted on the Facebook page (www.facebook.com/sergcanada) and through the listserv.



Check your membership status:

<http://www.mailman.srv.ualberta.ca/mailman/listinfo/csse-serg>

SERG Graduate Student Awards

There are three categories of Awards/Bursaries available for graduate students who are members of SERG:

- Graduate Student Paper Awards
- Graduate Student Travel Bursary
- Dissertation/Thesis Award

Graduate Student Paper Awards

SERG sponsors up to three graduate student paper awards to support registration for CSSE. The award will cover the CSSE and Congress registration costs for each of the winners. These one-time awards will be adjudicated on the basis of the comments and ranking generated by the SERG review process. All sole authors self-identified as graduate students, whose proposals are accepted for a SERG paper, roundtable, or poster presentation will be considered for the award. Proposals in either English or French are encouraged. Final decisions on paper awards will be adjudicated by the SERG executive and awards will be presented at the SERG AGM at CSSE 2019 in Vancouver

Graduate Student Travel Bursary

In addition, SERG will 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 <http://bit.ly/2vMQi8J>. The form must be submitted by **April 15, 2019**. The winner will be notified by email 4 weeks before the conference.

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

SERG Dissertation / Thesis Award

SERG annually sponsors the SERG Dissertation/Thesis Award for the best doctoral dissertation or master's thesis on science education in Canada. The winner of the SERG Dissertation/Thesis Award will receive a certificate of recognition and be invited to present their paper at the CSSE conference in June, 2019 in Vancouver, BC. Conference expenses will be covered, in part, by SERG.

Eligibility

To be considered for the 2019 SERG Dissertation/Thesis award the dissertation/thesis must be in the area of science education, and must be defended at a Canadian university between December 1, 2017 and November 30, 2018.

Criteria

A panel of three experienced researchers in science education at Canadian universities, who are members of SERG, will adjudicate the submissions. General criteria for evaluation will include overall quality, substance, distinctiveness, and significance of the work. Specifically, reviewers will use the following criteria to identify outstanding dissertations/theses:

- Significance of the research problem,
- Conceptualization, design, and execution of the study,
- Potential for theory development, further research, and improved practice, and
- Relevance to the field of science education in Canada.

Submission Requirements and Process

Interested applicants or their supervisors should submit the following, via email, as separate Word files by December 14, 2018:

1. A cover page providing the following information:
 - applicant's name, current address, phone, and e-mail,
 - the name of the university where the study was completed,
 - the name of the supervisor(s) and the external examiner,
 - the defense date
2. A summary of the dissertation/thesis, between 1500 – 2000 words, which includes the full title and a brief description of the intent, design, and results of the inquiry, conforming with the criteria listed above.
3. A letter of support from the Faculty Supervisor, which includes a statement regarding the outcome of the defense.

The top three applicants will be notified by mid-January, 2019 and will be required to submit their full dissertation / thesis by January 31, 2019.

Please send all applications electronically to:

Mickie Noble, Mickie.Noble@RoyalRoads.ca

Incomplete submissions and hard copies will not be considered.

Prix du GRÉS pour les étudiants de 2^e ou 3^e cycle

Il existe trois catégories de prix/bourses du GRÉS pour les étudiantes et étudiants du 2^e ou 3^e cycle:

- Prix pour article soumis par une étudiante ou un étudiant du 2^e ou 3^e cycle
- Bourse de voyage pour une étudiante ou un étudiant du 2^e ou 3^e cycle
- Prix pour la meilleure thèse ou dissertation

Prix pour article soumis par une étudiante ou un étudiant de 3^e cycle

Le GRÉS offre jusqu'à trois prix pour articles, soumis par des étudiantes ou étudiants au 2^e ou 3^e cycle, afin d'encourager la participation étudiante à la SCÉÉ. Le prix sert à aider à défrayer les coûts associés à l'inscription au congrès et à la SCÉÉ pour chacun des gagnants. L'attribution de ces prix est décidée à la suite des commentaires issus du processus d'arbitrage mené par le GRÉS. Seront considérés tous les premiers auteurs qui ont toujours le statut d'étudiante ou d'étudiant, qui sont membres du GRÉS et qui se font acceptés pour une présentation en formats papier, table ronde ou affiche. Les soumissions dans les deux langues officielles du Canada sont encouragées. Les décisions (sans appel) concernant les prix seront présentées à l'AGM du GRÉS, à la SCÉÉ de Régina.

Bourse de voyage pour une étudiante ou un étudiant de 2^e ou 3^e cycle

De plus, le GRÉS offre à une bourse de voyage pour une étudiante ou un étudiant du 2^e ou 3^e cycle, membre du GRES, qui se présente à la SCÉÉ pour la première fois. Ce prix permet de payer les frais associés à la SCÉÉ et au congrès. Toute personne qui participe à la conférence pour la première fois et qui est membre du GRÉS est admissible à cette bourse, qu'elle présente une communication à la conférence ou non. Une étudiante ou un étudiant peut se proposer ou se faire proposer par son superviseur. Une nomination peut être soumise en utilisant le formulaire du GRÉS, disponible à: <http://bit.ly/2vMQi8J> Le formulaire doit être soumis avant le 15 avril 2018. La gagnante ou le gagnant sera informé par courrier électronique 4 semaines avant la conférence.

Chaque année, une même personne est admissible à soit le prix ou la bourse.

Le Prix du GRÉS pour la meilleure thèse

Le Groupe de recherche sur l'enseignement de la science (GRÉS) parraine chaque année le Prix du GRÉS pour la meilleure thèse de doctorat ou le meilleur mémoire de maîtrise dans le domaine de l'enseignement de la science au Canada. Le lauréat recevra un certificat de reconnaissance et sera invité à présenter son exposé au congrès de la SCÉÉ en juin 2019 à Vancouver, en Saskatchewan. Les frais associés au le congrès seront partiellement assumés par le GRÉS.

Admissibilité

Seront pris en considération pour le Prix 2019 du GRÉS les thèses de doctorat ou les mémoires de maîtrise s'inscrivant dans le domaine de l'enseignement des sciences et ayant été défendus dans une université canadienne entre le 1^{er} décembre 2017 et le 30 novembre 2018.

Critères

Un jury de trois personnes, membres du GRÉS et chercheurs chevronnés en enseignement des sciences dans des universités canadiennes, évaluera les thèses de doctorat et les mémoires de maîtrise qu'il aura reçus. Les critères d'évaluation généraux sont la qualité d'ensemble, la solidité de l'argumentation, l'originalité et l'importance de la recherche menée. En outre, les membres du jury utiliseront les critères suivants pour identifier les thèses de doctorat /mémoires de maîtrise de nature exceptionnelle :

- l'intérêt que présente le problème analysé dans la recherche;
- la conceptualisation, le protocole et la mise en œuvre de l'étude;
- le potentiel quant à l'élaboration d'une théorie, à la poursuite d'autres recherches et à l'amélioration des pratiques;
- la pertinence pour le domaine de l'enseignement de la science au Canada.

Marche à suivre et description du processus :

Les candidats intéressés ou leurs superviseurs doivent soumettre ce qui suit, par courriel et sous la forme de fichiers Word distincts, d'ici le 14 décembre 2018 :

1. une page de couverture réunissant les renseignements suivants :
 - *le nom du candidat, son adresse actuelle, son numéro de téléphone et son adresse de courriel;*
 - *le nom de l'université où la recherche a été menée à bien;*
 - *le nom du/des superviseur(s) et de l'évaluateur externe;*
 - *la date à laquelle l'étude a été défendue;*
2. un résumé de la thèse de doctorat/du mémoire de maîtrise de 1 500 à 2 000 mots, incluant le titre au complet et une brève description du but, du protocole et des résultats de la recherche conformément aux critères énumérés ci-dessus;
3. une lettre de soutien de la part du superviseur de la thèse ou du mémoire, incluant des observations sur le résultat du processus de défense.

Les trois meilleurs candidats seront avisés d'ici la mi-janvier 2019 et devront faire leur parvenir leur thèse de doctorat/mémoire de maîtrise d'ici le 31 janvier 2019.

Veuillez soumettre tous les dossiers de candidature par courriel à :

Mickie Noble, Mickie.Noble@RoyalRoads.ca

Les dossiers incomplets et les copies papier ne seront pas considérés.

Conference Report 2018

We want to send a note of thanks to everyone who attended the highly successful SERG conference in Regina this year. There were 9 SERG sessions at Regina this year and each session was well attended (we even had a fair representation for the final session on the last day). Many thanks to the presenters and reviewers who supported the conference process so enthusiastically.

At the conference, we formally congratulated the winners of this year's graduate student awards. The winner of the 2018 SERG Dissertation Award is **Ana Maria Navas-Iannini (Ph.D., University of Toronto, OISE)** for her dissertation *Public engagement with critical exhibitions: Insights from a Canadian and a Brazilian science museum*.

The winners of the Graduate Student Paper Award was **Josefina Rueter Veiga (York University)** for her paper *Climate change education in Nunavut*.

The winners for the SERG graduate student bursary this year were **Michael Lukie** (University of Manitoba) and **Roxanna Yanez Gonzalez** (University of Ottawa)

A reminder that supervisors are encouraged to refer to the SERG website (<http://serg-gres.ca/>) for the SERG bursary nomination form which can be completed for any graduate student who will be attending the SERG conference. We encourage our graduate student members to continue to submit proposals for the SERG conference. All submissions where graduate students are first authors are considered for the graduate student paper award. Both doctoral and masters dissertations/theses are considered for the dissertation/thesis award.

2018 Graduate Student Award Winners



Ana Maria Navas-Iannini, 2018 recipient of the Dissertation Award, with **Todd Milford**, 2017-2018 SERG President.



Josefina Rueter Veiga, 2018 recipient of the Graduate Student Paper Award, with **Todd Milford**, 2017-2018 SERG President.



Michael Lukie, 2018 recipient of the Graduate Student Bursary, with **Todd Milford**, 2017-2018 SERG President.

A Message from the Past President

Todd Milford, President, tmilford@uvic.ca

It has been a genuine honour and pleasure to work with the SERG executive as well as the larger Science Education community in Canada over the past few years (has it really been 4!). During that time, I have been fortunate to have had the opportunity to get to know much of the excellent research and service activities SERG members are involved with. SERG is a truly exceptional Special Interest Group and the turnout at CSSE this past spring in Regina attests to this fact. The overall numbers for CSSE in Regina were down relative to Toronto in 2017. However, attendance at SERG sessions in Regina were consistently high and the AGM was standing room only. This is a wonderful time to be a member of SERG and I believe that with the ongoing work of the current executive and support from the larger community, it will only get better. Thank you to the executive and membership for their unwavering support and particularly Dr Tippett for her sage-like guidance as past president. I look forward to seeing you all again in Vancouver.



Call for Reviewers

Dear SERG members,

We are strongly encouraging members to review for SERG CSSE this year in the hope of keeping the number of proposals each person is asked to review to a minimum. If you are interested in reviewing, please contact Lilian Pozzer at lilian.pozzer@umanitoba.ca and let her know (1) how many proposals you would be willing to review, (2) if you can review proposals in English, French or both, and (3) your areas of interest so that you can be matched with related proposals where possible. The deadline for submitting reviews is yet to be finalized, but usually falls in early January. This year we will once again be using the CSSE online system for reviews.

Keynote Announcement



SERG is very pleased to announce that **Dr. Astrid Steele** (B.A., B.P.H.E., B.Ed., *Queen's University*, M.Ed., Ph.D., *Ontario Institute for Studies in Education of the University of Toronto*) has graciously accepted our invitation to deliver the keynote address at CSSE this coming June 2019 in Vancouver, B.C. Professor Steele has been a faculty member in the Schulich School of Education at Nipissing University since August, 2009. Her 30+ year teaching career, spent in and out of formal classrooms, has been a rich source of inspiration and reflection.

Dr. Steele's research continues to focus on the many intersections of environmental education with other school disciplines, and how these are enacted by educators.

Please look for more information on the date, time, and location of Dr. Steele's keynote as the conference gets closer.

See you in Vancouver June 2019!

Important Dates and Deadlines

CSSE/SERG proposal deadline	October 1
Dissertation Award application deadline	December 14
CSSE/SERG review deadline	January (date TBA)
CSSE/SERG proposal decisions	February 8 (tentative)
CSSE early registration deadline	March 31 (tentative)
Draft CSSE/SERG program published	April 4 (tentative-+)
SERG Graduate Student Travel Bursary nominations due (submit through SERG website)	April 15
CSSE/SERG Vancouver	June 1 - 5

Did you know that your CSSE dues are primarily used to support graduate student participation in CSSE? When you submit your proposal for CSSE, please be sure to pay your SERG dues. Also, consider co-authoring with someone who has never been to SERG. We have a great little community, we welcome others warmly, and Vancouver is lovely in the Spring.

