

SERG/GRÉS News

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Proposals for CSSE 2018

Following the success of last year's conference, we are eagerly awaiting proposals for SERG sessions at CSSE 2018 at the University of Regina. The call for presentations can be found at <https://csse-scee.ca/>. Note that the deadline for submissions is **October 1, 2017**. 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!

Todd Milford, Mickey Noble, Allison Gonsalves, Latika Raisinghani, Natacha Louis, Michel T. Léger, Dawn Wiseman, Christine Tippet
SERG Executive 2017-2018

Propositions pour la SCÉE 2016

Après le succès de la conférence de l'année dernière, nous attendons ardemment vos propositions pour les sessions du GRÉS à la SCÉE 2018 qui aura lieu dans à l'Université de Régina. 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, 2017**. N'oubliez pas de renouveler vos adhésions à la SCÉE et au GRÉS.

Cette année, nous accueillons encore des proposons 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!

Todd Milford, Mickey Noble, Allison Gonsalves, Latika Raisinghani, Natacha Louis, Michel T. Léger, Dawn Wiseman, Christine Tippet
Comité de direction du GRÉS 2017-2018

An introduction to the SERG Executive 2017-2018

Todd Milford, President, tmilford@uvic.ca

Please allow me to introduce myself to the SERG community. My name is Todd Milford and I work in the Faculty of Education at the University of Victoria. If you are a current member of SERG, thank you for your continued involvement and support as your presence adds much to our community. If you were a past member, please consider becoming a member once again and if you have not yet become a member, then please consider joining. As a small group, we currently work to support research and the exchange of ideas associated with science education. Additionally, we serve as a national voice concerning science education research in Canada. I feel fortunate, humbled, and a little bit nervous to serve as the SERG president this year (2017/2018) but am VERY well supported by the larger executive and most closely by the Past President, Dr. Christine Tippett.



The SERG executive committee for 2017/2018 this year is populated with both old and new members. We welcome Michael-Anne Noble as Vice-President and Conference Chair, Allison Gonsalves as Secretary, and Ellen Watson as the new Student Representative. The Student Representative position has been adjusted to two years in length. In addition to Christine and myself, returning to the executive are Michele Léger as the Francophone Representative, Natacha Louis as the Student Francophone Representative, Latika Raisinghani as the other Student Representative (this will be her second year in that role), and Dawn Wiseman as the Communications Officer. Dr. Wiseman is also serving on the executive for CACS, so we are well represented there.

Those of you that have attended our SERG sessions as part of CSSE over that last few years may have noticed both an increase in the number of sessions as well as some new additions to the conference. We will continue to hold space for the *methods and strategies in science teacher education* session as well as the Keynote presentation that has been so well received and attended. To learn more about these exciting additions, please review the Call for Submissions presented later in this issue as well as the brief overview of the 2018 Keynote speaker.

Lastly, thanks to Dr. Wiseman, the SERG website (<http://serg-gres.ca/>) is looking excellent and we encourage you to bookmark it to keep up with the latest goings on. Additionally, if you are unsure of your membership status please contact us by email at SERG.GRES.ca@gmail.com. We look forward to hearing from you and seeing you all in Regina next spring!

Mickie Noble, Vice-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 recently 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 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 Regina!





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

I am very happy to be serving as secretary this year – my first 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 Regina. Please send any questions or comments to me at the email address above. You can also find me on Twitter (@allisonjardim).



Latika Raisinghani, Graduate Student Representative latikarai@hotmail.com

I am a Ph.D. Candidate at the University of British Columbia. As a science and mathematics educator from India who has taught in multiple cultural contexts for more than fourteen years, I am passionate about bringing “education for life”. Motivated by my father’s vision towards education as the “greatest wealth in life,” and cross-cultural dialogues with my students, my Ph.D. research focuses on teachers’ perspectives on cultural diversity and culturally responsive teaching in their science and mathematics classrooms. During my Ph.D. program, I have published two articles in peer-reviewed journals and have earned various

academic and scholarly awards including the SERG Graduate Student Paper award at CSSE 2016. As a graduate student representative of SERG, I hope to continue bringing forth the relational dynamic perspective of science, education, and research by collaboratively connecting with you all to strive towards a shared goal of making this world a better and safe place to live and learn.



Ellen Watson, Graduate Student Representative
ellen.watson@ualberta.ca

Formerly a high school mathematics and physics teacher in Saskatchewan, I am currently a Ph.D. student in Science Education at the University of Alberta. My research interests lie in teacher experience, curriculum change, and teacher beliefs. 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).



Natacha Louis, Représentante étudiante francophone
nloui090@uottawa.ca

Un grand Bonjour à tous les membres de GRÉS/SERG! Je suis très heureuse de me joindre au comité de direction GRÉS/SERG pour une première année à titre de représentante étudiante francophone. Ce rôle que je partage avec Amy sera pour nous une occasion d'accroître la visibilité et l'accessibilité de GRÉS/SERG auprès de la communauté étudiante francophone et anglophone. Doctorante en didactique des sciences à l'Université d'Ottawa, j'entame ma quatrième année d'études avec un projet de recherche qui s'articule autour des pratiques

enseignantes et de l'enseignement des sciences au primaire. Je m'intéresse particulièrement à l'intégration des arts à l'enseignement scientifique en tant que stratégie au développement de la créativité et de l'innovation. Au plaisir de vous rencontrer en grand nombre à Regina.

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 2017-2018 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>

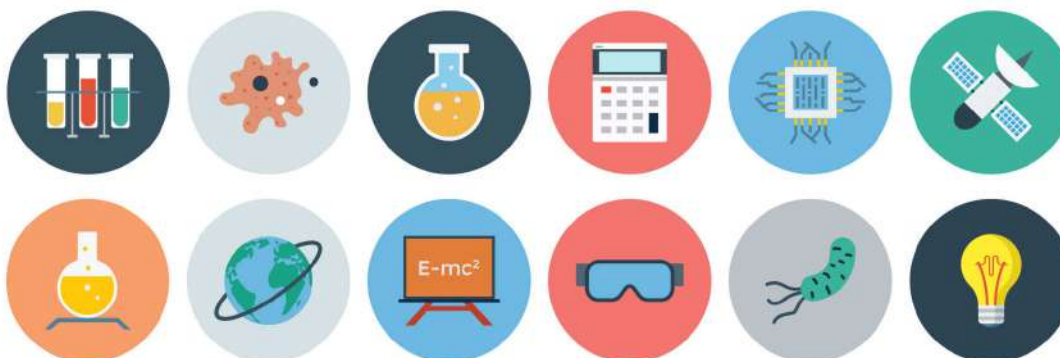


Image credit: <http://www.imperial.ac.uk/languages/degrees-with-language-for-science/life-sciences-spanish/>

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 first 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 2018 in Regina.

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, 2018**. 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, 2018 in Regina, SK. Conference expenses will be covered, in part, by SERG.

Eligibility

To be considered for the 2018 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, 2016 and November 30, 2017.

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 15, 2017:

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, 2018 and will be required to submit their full dissertation / thesis by January 31, 2018.

Please send all applications electronically to:

Todd Milford, tmilford@uvic.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 2018 à Regina, en Saskatchewan. Les frais associés au le congrès seront partiellement assumés par le GRÉS.

Admissibilité

Seront pris en considération pour le Prix 2018 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 2016 et le 30 novembre 2017.

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 15 décembre 2017 :

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 2018 et devront faire leur parvenir leur thèse de doctorat/mémoire de maîtrise d'ici le 31 janvier 2018.

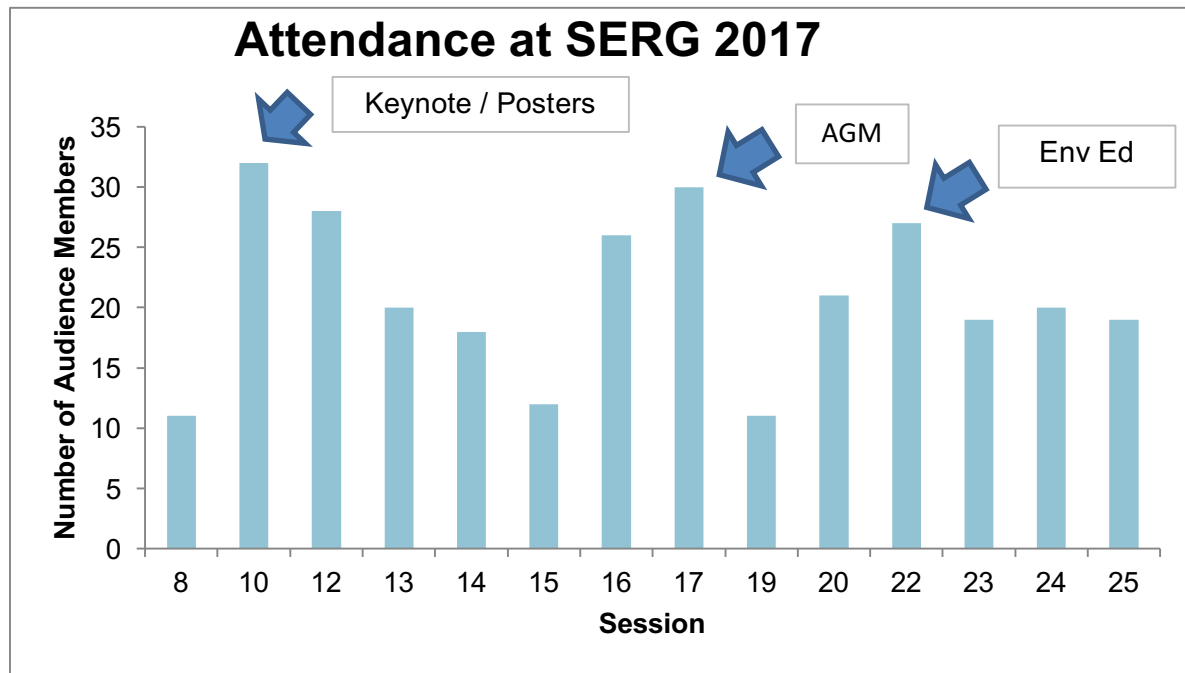
Veuillez soumettre tous les dossiers de candidature par courriel à :

Todd Milford, tmilford@uvic.ca

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

Conference Report 2017

We want to send a note of thanks to everyone who attended the highly successful SERG conference in Toronto this year. There were 14 SERG sessions at Ryerson this year and each session was attended by an average of 21 people (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 2017 SERG Dissertation Award is **Dawn Wiseman, McGill University (Ph.D., University of Alberta)** for her dissertation *Acts of living with: Being, doing, and coming to understand Indigenous perspectives alongside science curricula*.

The winners of the Graduate Student Paper Award were **Julieta Delos Santos (University of Alberta)** for her paper *A discourse of biology teachers who use the outdoors* and **Michael-Anne Noble (University of Victoria)**, for her submission *Undergraduate science learners report assembly approaches to problem-based learning online discussions*.

The winners for the SERG graduate student bursary this year were **Francis Nguyen (OISE)** and **Ellen Watson (University of Alberta)**.

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.

2017 Graduate Student Award Winners



Dawn Wiseman, 2017 recipient of the Dissertation Award, with **Christine Tippett**, 2016-2017 SERG President.



Julieta Delos Santos, 2017 recipient of the Graduate Student Paper Award, with **Christine Tippett**



Michael-Anne Noble, 2017 recipient of the Graduate Student Paper Award, with **Christine Tippett**



Francis Nguyen and Ellen Watson, 2017 recipients of the Graduate Student Bursary, with **Christine Tippett**, 2016-2017 SERG President.

A Message from the Past President



Christine Tippett, Past President, ctippett@uottawa.ca

This is my 4th and final year on the SERG executive, and I've really enjoyed being actively involved with our Special Interest Group, beyond simply attending its annual conference. The opportunity to get to know members of Canada's science education research community better has been a highlight of my formal involvement! SERG has been growing steadily since its formation; we continue working to strengthen our francophone membership and we've established connections with two international organizations, the International Council of Associations for Science Education [ICASE] and the Commonwealth

Association of Science, Technology and Mathematics Educators [CASTME]. We've also collaborated with the Canadian Engineering Education Association [CEEA] to develop joint symposia. My final year will be bittersweet: I'm sad to be reaching the end of my term, but happy to be working with the current executive members. SERG is in good hands.

Keynote Announcement



SERG is very pleased to announce that **Dr. Karen Goodnough** (B.Sc., B.Ed., M.Ed., Memorial University of Newfoundland, 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 May in Regina, SK. Professor Goodnough has been a faculty member at Memorial University since December 2003. Prior to her current position, she was a faculty member at the University of New Brunswick in Fredericton (2001-2003).

Karen is actively engaged in research that focuses on collaborative action research, pre-service teacher education, problem-based learning, and science teacher development. More information on Karen's research can be found at www.mun.ca/tia.

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

See you in Regina May/June 2018!

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 Mickie Noble at Mickie.Noble@RoyalRoads.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.

Important Dates and Deadlines

CSSE/SERG proposal deadline	September 30
Dissertation Award application deadline	December 15
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 Regina	May 28 - June 1

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 Regina is lovely in the Spring.