

***United Nations Regional Centre of Expertise (RCE) Saskatchewan:
Building New Partner Opportunities and Capacity for Regional Sustainability***

**Funded by the *Go Green Fund (Green Initiatives Fund)*
Sustainable Communities Grants Program**

Final Report

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Background to the Final Report

The following is the final report to the Saskatchewan Ministry of Environment in fulfillment of the terms as set out in Schedule “3” (e) of contract # 1315 dated October 2, 2007, and amended January 27, 2009, for the project entitled “United Nations Regional Centre of Expertise Saskatchewan: Building New Partner Opportunities and Capacity for Regional Sustainability” between Luther College, Regina and the Province of Saskatchewan. The previous interim reports were submitted on February 28, 2009, and March 31, 2008. The final report follows the structure agreed to in Schedule “3” (e), namely:

1. *A summary* including activities during the progress period and achievements of the project.
2. *Project progress to date* indicating overall project progress and project activities taken since its initiation.
3. *Performance measures* and indicators of project impact as outlined in Schedule “3” (b) of the original contract.
4. *Project impact* outlining project impacts on the environment, community and economy.
5. *Financial reporting* comprised of an expenditure statement detailing how much of the Saskatchewan Environment funding has been spent, and how the funds have been spent to date.

Lastly, an additional final section (Section 6) lists the attachments accompanying the final report mentioned in the order they appear in the body of the text.

1. Summary

In March 2007, the *Regional Centre of Expertise on Education for Sustainable Development in Saskatchewan* (RCE Saskatchewan) was officially designated by the United Nations University (see www.saskrce.ca). The development of a proposal to the United Nations University was a two year collaborative process led by the province's three largest higher education institutions: the University of Regina (including its federated colleges), the University of Saskatchewan, and the Saskatchewan Institute of Applied Science and Technology. In October 2007, funding was received from the Green Initiatives Fund (now the Go Green Fund) *Sustainable Communities Grants* program for the the project entitled *United Nations Regional Centre of Expertise Saskatchewan: Building New Partner Opportunities and Capacity for Regional Sustainability*. This funding has been used to deliver capacity-building projects identified by RCE Saskatchewan's members in four areas:

- (1) student research support for a regional Education for Sustainable Development (ESD) capacity assessment
- (2) communications and networking materials
- (3) hosting of an international RCE conference in Saskatchewan
- (4) RCE Saskatchewan participation in global RCE meetings of the United Nations and the UN University

The following sets out progress towards milestones in each of these areas (as set out in Schedule "1" of the contract and given in *italics*) that has been reached during the final progress period (February 28 to September 15, 2009):

(1) Student Research Support

(a) an initial inventory of sustainable development education activities within the 6 issue areas occurring in the region

Two student researchers were rehired by RCE Saskatchewan during the last progress period (from February to August, 2009) to prepare the data previously gathered for each of RCE Saskatchewan's Theme Areas Working Groups. This data had been gathered by 9 student researchers from December 2007 to December 2008. The two students rehired documented the process used in creating the ESD inventory and developed inventory reports for ESD project in each of the six ESD theme areas along with a comprehensive report. Work continued over the summer with the student researcher of the RCE Technology Group to create an electronic mapping of ESD projects in the region making use of this data. Specific achievements include:

- An article co-authored by Peta White and Roger Petry documenting the process used in creating the ESD project inventory in RCE Saskatchewan. This article is currently being reviewed for publication in the *Journal of Education for Sustainable Development* (see attached article). Further documented elements of the process (including student researcher meeting minutes) are available at:
 - <http://www.saskrce.ca/esd-project-inventory>
- A comprehensive *RCE Saskatchewan Education for Sustainable Development Project Inventory Report* of the 226 ESD projects documented by the student researchers was presented at the RCE's *Spring Into Action* workshop on June 8, 2009. The report is in PDF format along with separate reports for each of the six ESD theme areas (see attached comprehensive report; note that only introductory pages and table of contents have been printed for the full paper report). These reports are all available electronically at:

- <http://www.saskrce.ca/?q=node/1140>
- Excel Spreadsheets containing all of the projects in the comprehensive report along with separate spreadsheets for each ESD theme area were developed. These are readily searchable and contain additional data not contained in the full report. These are available at:
 - <http://www.saskrce.ca/?q=node/1139>
- Work continued to develop a visual map of the ESD projects in Saskatchewan. Additional funding to advance the mapping project is currently being sought from the Saskatchewan Ministry of Education. The RCE Technology Group is currently experimenting with two types of mapping software for its website. A preliminary map providing a visual representation of select projects in the inventory is available at:
 - <http://www.saskrce.ca/?q=node/1021>

(b) an identification of complimentary sustainable development education activities occurring in other RCEs globally

RCE Saskatchewan did not need to engage in this work as a synthesis of ESD projects of RCEs globally by theme area is being undertaken by the United Nations University Global RCE Service Centre. In addition to its contributions to this work through the ESD project inventory, RCE Saskatchewan has contributed to this synthesis by providing annual reports on its activities to the United Nations University Institute of Advanced Studies (UNU-IAS) in August 2007, April 2008, and April 2009 (see <http://www.saskrce.ca/rce-documents> “RCE Saskatchewan UNU Reports”). The RCE has also participated in relevant questionnaires related to specific theme areas (e.g., health). During the reporting period, RCE Saskatchewan facilitated data gathering on museums engaged in ESD projects and affiliated with RCEs. A brief survey on this topic developed by a member of RCE Saskatchewan, Dr. Glenn Sutter of *WorldViews Consulting*, was distributed to the 62 RCEs globally through the Global RCE Service Centre in Japan in July and August of 2009 (see attached survey).

(c) a review of existing ESD research of regional relevance

The funding available to the RCE Student Researchers was used primarily for developing the inventory of ESD projects outlined above as this was the priority. As part of this inventory, however, specific questions were asked in relation to existing research that had been undertaken with the ESD projects being documented (52 projects provided responses in this area) along with research questions that might be of interest in relation to the project (61 responses were given in this regard). In addition, as part of the RCE Saskatchewan “Spring Into Action Workshop: At the Intersections of Education, Environment, and Aboriginal Perspectives” co-hosted with the College of Education at the University of Saskatchewan and its School of Environment and Sustainability on June 8-9, 2009, a preparatory background document was developed that included diverse ESD resources pertaining to the workshop topics (see attached reading pack table of contents). In addition, articles and reports that have been written by members of the RCE normally have lists of references relevant to the topic.

(2) Communication and Networking

(a) enhancement of the RCE Saskatchewan website through adaptation of its content management system

Since the last reporting period, the RCE Technology Group's student researcher, Tim Maciag, performed a major upgrade of the RCE Saskatchewan website (www.saskrce.ca) moving to a newer version of the site's content management system (CMS) software. The site currently uses the Free/Open

Source Software CMS package *Drupal 6*. This builds on previous technical improvements to the site including development of the online ESD Research Survey, the RCE SK Website Survey, and two RCE event websites (see Section 2 below). In addition, Tim Maciag along with three members of the RCE Technology Group (Dr. Roger Petry, Curt Schroeder, and Dr. Daryl Hepting) wrote a paper outlining the development of the RCE Saskatchewan website. This paper was accepted without revision for presentation at the *International Symposium on Environmental Software Systems* in Venice, Italy (October 6-9, 2009; see attached paper with initial reviewer comments). Dr. Hepting will present the paper entitled “Experiences in Designing An Online Community to Facilitate Education for Sustainable Development” on behalf of the team in Venice this fall.

(b) initial production of communication materials needed for the RCE including elements such as logo and other material design, award design, and other RCE promotional items potentially including member certificates, T-shirts, banners, etc.

Most of these elements were achieved in the previous reporting period. This included the design of the RCE Saskatchewan Logo by *Go Giraffe Go, Inc.*, of Regina, Saskatchewan, the incorporation of the logo into the RCE SK website, RCE SK business cards, RCE SK banner, and souvenir items for those attending the *RCE Conference of the Americas 2008* (bags and napkins). Education for Sustainable Development (ESD) recognition certificates incorporating the logo were also presented at the RCE Saskatchewan Recognition Event in November, 2008, in Craik, Saskatchewan. Since the last reporting period, RCE Saskatchewan has ordered more business cards for coordinators RCE working groups, as needed. The RCE Saskatchewan logo has been prominently incorporated into the new RCE Saskatchewan website design along that includes the logo description (see <http://www.saskrce.ca/about-our-logo-and-image>). Finally, the logo is included as part of the RCE interpretive panel unveiled at the Craik Eco-Centre in June, 2009.

Celebration and networking has occurred through the events the RCE has hosted in Saskatchewan (see events listed immediately below in (3)). RCE Saskatchewan has also advanced networking globally by having material accepted for the UN University RCE website. In addition to the RCE Saskatchewan write-up of the *RCE Conference of the Americas 2008*, this now includes an article co-authored by Roger Petry and Lyle Benko entitled “RCE Saskatchewan: Building an RCE as a collaborative and engaged regionally distributed network” posted in April of 2009 on the UN University's “RCE Experiences” web page (see http://www.ias.unu.edu/sub_page.aspx?catID=108&ddlID=719 and attached document).

(3) International RCE Conference in Saskatchewan

RCE Saskatchewan will host an International RCE Conference in Saskatchewan tentatively set for May, 2008. The conference will allow RCE Saskatchewan to: present ESD research; showcase ESD activities; recognize volunteer contributions; present awards; and provide networking and knowledge-sharing opportunities between organizations engaged in ESD.

The RCE Conference of the Americas for 2008 entitled *Knowledge and Innovation for Sustainability Assessing and Adopting Beneficial Practices* was held from May 25-27, 2008, at the University of Regina. There were 45 presenters and 95 registered. It was preceded by pre-conference fieldtrips and included an evening public lecture on May 25 at the Royal Saskatchewan Museum featuring Severn Cullis-Suzuki attended by over 265 people. Conference information is available on the conference website: <http://www.saskrce.ca/conference2008/>. Originally envisioned to be part of the *RCE Conference of the Americas 2008*, the *RCE SK ESD Recognition Program* was subsequently held in

Craik, Saskatchewan, on November 20, 2008, with over 50 attendees and 28 projects recognized. See the event website at: <http://www.saskrce/RecognitionProgram/>.

As a follow-up to these events, RCE Saskatchewan held its “Spring Into Action Workshop: At the Intersections of Education, Environment, and Aboriginal Perspectives” held on June 8 and 9, 2009. The event featured Dr. Chuck Hopkins, holder of the United Nations University and UNESCO Chairs at York University, and Elder Walter Linklater. In addition, the event had significant participation from First Nations and Metis communities and the Saskatchewan Ministry of Education. 49 people attended this two-day workshop (see attached *Spring Into Action: Summary of Participant Input* prepared by M.J. Barrett (University of Saskatchewan), Brenda Green (Saskatchewan Ministry of Education), and Marcia McKenzie (University of Saskatchewan) with the support from graduate students Linda Dunkley and Nancy Peters. In addition, Roger Petry wrote an article about the workshop for the UN University's *RCE Bulletin*, Issue #9 (June 2009), p. 7 (see attached). This bulletin is distributed to the 62 RCEs globally. The event was followed by the successful unveiling of the RCE Saskatchewan Interpretive Panel in Craik, Saskatchewan, on June 10. On June 11, Dr. Hopkins presented a lecture at the University of Regina. The event was organized by Dr. Garth Pickard of the University of Regina Faculty of Education. This was followed in the afternoon by an event hosted at the SIAST Wascana Campus profiling ESD innovation on SIAST campuses. During the course of these four days, Dr. Chuck Hopkins and representatives of RCE Saskatchewan had meetings with the presidents of the University of Saskatchewan and SIAST and representatives of the University of Regina. Photos from this week of events can be found on the RCE Saskatchewan website at:

<http://www.saskrce.ca/image/tid/49>. As a follow-up to these “Spring Into Action” events, RCE Saskatchewan received formal applications from two new higher education organizations in Saskatchewan to become RCE partners: Campion College (a federated college of the University of Regina) and Cumberland College.

(4) Participation in UN University International RCE Meetings

Two members of RCE Saskatchewan will attend these three to four day events, which generally take place outside of Canada. The meetings will allow RCE Saskatchewan to showcase globally ESD work in the region as well as to network with other RCEs through the United Nations University (headquartered in Japan) and the United Nations in New York.

RCE Saskatchewan has been able to participate in two UN University International RCE meetings with the funding provided by the *Go Green Fund*. RCE Saskatchewan was formally invited and participated in the 3rd *International RCE Conference* hosted by the United Nations University on July 2-4, 2008, in Barcelona, Spain. Four people from RCE Saskatchewan attended the event (within the funding budgeted for 2 attendees). These participants represented the University of Regina, University of Saskatchewan, and Luther College at the University of Regina. At the Barcelona conference, RCE Saskatchewan led and reported on the Continental Meeting of RCEs in the Americas to the general assembly of RCEs.

During the last reporting period RCE Saskatchewan also actively participated in the planning for the 4th *International RCE Conference* hosted in Montreal at the Biosphere from May 13-15, 2009. Dr. Roger Petry served on the organizing committee for the conference and Lyle Benko served on its advisory committee. Due to the proximity of this global conference taking place in Montreal, flight costs were relatively less expensive than other international meetings. Additional funding was leveraged from organizations supporting their employees to attend. Based on these factors, RCE Saskatchewan was able to provide modest funding to enable eight individuals to attend the conference. At this conference

RCE Saskatchewan members chaired the Continental Meeting of RCEs in the Americas (see attached meeting minutes) and reported on the Americas' RCE meeting to the full conference. In addition, RCE Saskatchewan representatives served on several theme panels of the full conference (see attached final conference agenda). RCE Student Researchers also developed a poster for the poster presentation at the conference focusing on the ESD project inventory (see attached poster) and Dr. Bob Regnier of the University of Saskatchewan also presented a poster on the theme of *Learning as Valuing*. Finally, two RCE Saskatchewan members, Roger Petry and Lyle Benko, helped coordinate workshops on the themes of (1) *Sustainable Livelihoods and Sustainable Production and Consumption* (workshop #3360) and (2) *Reorienting Education towards a Sustainable Future: Examples from RCEs (School and Community; workshop # 3368)*. These were part of the *5th World Environmental Education Congress (5WEEC; May 10-13, 2009)* that immediately preceded the *4th International RCE Conference* and were coordinated by RCEs and the UNU-IAS. Photos of these events are available at: <http://www.saskrce.ca/image/tid/48>

Finally, at the invitation of the Canadian Commission of UNESCO, Lyle Benko, Co-coordinator of RCE Saskatchewan, attended the UNESCO World Conference on ESD from March 31 to April 2, 2009, in Bonn, Germany. This event was organized as the global mid-term evaluation of the U.N. *Decade of Education for Sustainable Development (2005-2014)*. Mr. Benko was able to be part of RCE activities at the Conference with 21 RCE representatives from around the world present. No funds from the *Go Green Fund* were used to supported him in this endeavour. See photos of this event at: <http://www.saskrce.ca/image/tid/46>

2. Project progress to date

The following provides additional details enhancing those provided in Section 1 (above). As Section 1 has already documented achievements and milestones in the most recent reporting period.(February to September 2009), this section outlines specific progress commencing with receipt of the *Go Green Funding* in October, 2007, and details progress primarily up to February 28, 2009. In a number of cases, Luther College, Regina, entered into contracts in relation to the various deliverables outlined below. Copies of these contracts are available upon request.

(1) Student Research Support

Nine students were hired to conduct an initial inventory of education for sustainable development initiatives in the region with one focusing on each of the 6 RCE theme areas and one focusing on the RCE's two overarching themes. In addition to the three students hired in December, 2007 and three hired in January, 2008, one student was hired in May, 2008, one in September 2008, and one in December, 2008. Two of these were subsequently rehired in 2009. In addition, the student working with the RCE Technology Group was hired in June, 2008. Three of these were doctoral students, 1 at the masters level, and 6 at the undergraduate level (see table of student hirings attached to Feb. 2009 Interim Report). During 2008, regular joint monthly meetings with student researchers and supervisors were held on April, 28, May 15, June 9, July 15, August 19, November 15, and October 20, with a wrap-up on December 2, 2008. Students also met individually with their respective supervisors. A standard template for documenting ESD projects was developed collectively. The RCE then implemented the survey using an Free/Open Source survey module available for *Drupal* (the content management system used for the RCE Saskatchewan website). This was in keeping with efforts to minimize costs and keep RCE information stored in a single location. The RCE Technology Group student researcher implemented the technology. The on-line survey tool is available at

<http://www.saskrce.ca/?q=node/532> . ESD project data was entered within the RCE theme areas of education for: (1) Climate Change, (2) Farming and Local Food Production, (3) Health and Healthy Lifestyles, (4) Reconnecting to Natural Prairie Ecosystems, (5) Sustaining and Bridging Cultures, and (6) Sustainable Infrastructure Including Water and Energy. The 8 student researchers working on the ESD inventory hired prior to October, 2008, each submitted final reports regarding their own project results and reflections and learnings from the project. Two of the students were subsequently rehired as of February 5, 2009, to prepare summary documents from the data for the RCE working groups, among other things (see Section 1(1) above).

(2) Communication and Networking

The finalization of the RCE Saskatchewan logo included the development by *Go Giraffe Go, Inc.*, of Regina of a range of logo templates (both vertical and horizontal and including the logo and title “RCE Saskatchewan” in short and long forms). Electronic versions of these in a variety of formats (.jpeg, .eps, and .pdf) are now held and owned by the RCE. In addition, electronic templates were developed for both electronic letters as well as business cards. 5000 pages of formal letterhead were also printed (see sample page with business card attached submitted with Feb. 2009 Interim Report). A vertical form of the logo was chosen for the development of a 31” X 78” banner that was unveiled at the *RCE Conference of the Americas* banquet on the evening of May 25, 2008. It was also presented at the *3rd International RCE Conference* in Barcelona as part of a poster presentation and was utilized at the *5th World Environmental Education Congress* in Montreal and the *UNESCO World Conference on ESD* in Bonn. The first poster developed by the RCE Student Researchers documenting their work was presented at both the RCE Conference of the Americas 2008 in Regina and in Barcelona. In addition, business cards incorporating the new RCE logo were created for the coordinators of each RCE working group and for the RCE student researchers. A further innovation was the silkscreening of the RCE logo on 75 natural cloth bags and 75 napkins made by the Saskatchewan Abilities Council and presented as souvenirs to the *RCE Conference of the Americas 2008* participants at the banquet.

The RCE Saskatchewan website received several technical upgrades including an upgrading of the version of *Drupal* prior to the most recent upgrade in the summer of 2009. The RCE Technology Group also met to develop a survey of the RCE's website users in order to further improve the site (see *RCE Saskatchewan RTG Survey Questionnaire* attached to the Feb. 2009 Interim Report or visit <http://www.saskrce.ca/?q=node/765>). The implementation of the web survey required an application to the Research Ethics Board of the University of Regina that was subsequently approved. The results of this survey were subsequently included in the article prepared by Tim Maciag, *et al.* (see Section 1(2)(a) above). RCE SK also had a number of articles published documenting funded activities by the *Go Green Fund* in addition to those mentioned in Section 1(3) above. These included a two page lead article in the United Nations University *RCE Bulletin* Issue #5 (July, 2008; see previously attached 2 pages of this issue in the Feb. 2009 Interim Report). The RCE SK *ESD Recognition Event* on November 20, 2009, was also mentioned in the *RCE Bulletin* Issue #7 (December, 2008, p. 2).

(3) International RCE Conference in Saskatchewan

Much of the preparation for the *RCE Conference of the Americas 2008 (Knowledge and Innovation for Sustainability Assessing and Adopting Beneficial Practices* from May 25-27, 2008, in Regina) is documented in the March 2008 interim report. The promotional poster for the event was completed by *Factor X Solutions* (see poster attached to the Feb. 2009 Interim Report or visit <http://www.saskrce.ca/conference2008/> go to “conference poster”). The website for the event was completed by Timothy Maciag and included most of the documentation for the event, specifically:

- The updated [conference program](#) listing the final schedule, including the list of presentors, workshops, and other activities that took place at the conference (see program previously attached to Feb. 2009 Interim Report).
- Most of the [delegate presentations](#) given during the *2008 RCE Conference of the Americas* (<http://www.saskrce.ca/conference2008/?q=node/24>)
- [Photos](#) taken during the *2008 RCE Conference of the Americas*: <http://www.saskrce.ca/?q=image/tid/41>
- [Conference evaluations and indicator reports](#) solicited from delegates attending the *2008 RCE Conference of the Americas* (see conference evaluation attached to Feb. 2009 Interim Report or visit: <http://www.saskrce.ca/conference2008/?q=node/29>)
- A short video prepared by two students, Charene Claude and Peta White, asking conference delegates about their experience at the conference and involvement with the RCE network: <http://www.saskrce.ca/?q=node/649>

The conference officially commenced on the evening of Sunday, May 25, 2008, with Keynote Speaker, Severn Cullis-Suzuki on “Reconciling our inheritance: Finding opportunity in the challenges of the 21st century”. In this call for citizen education and civic engagement, Cullis-Suzuki identified the need to uphold a vision for human living through recovering connections with the world around us. A champion for sustainable development since her famous speech on behalf of future generations at the *Rio Earth Summit* in 1992, she has been a member of Kofi Annan's Special Advisory Panel for the World Summit on Sustainable Development in Johannesburg in 2002 and recently edited “Notes from Canada's young activists: A generation stands up for Change” published in 2007. This public event boasted a theatre near its three hundred person capacity and was held at the Royal Saskatchewan Museum. The talk was followed by an organic wine and cheese reception and a chance to view displays showcasing Saskatchewan's natural history, aboriginal culture, human ecology, and natural resources.

Over the course of the conference delegates were able to hear from approximately 50 presenters and panellists, including speakers from RCE Montreal, RCE North Texas, RCE Curitiba-Parana (Brazil), RCE Greater Sudbury (Canada), and RCE Toronto. The presenters included Bob Willard, a leading expert on the business value of corporate sustainability strategies, who joined a panel session via live web conferencing from Toronto, Ontario. There were a number of participants in the poster and display session which gave delegates a chance to learn more about initiatives and organizations working on education for sustainable development in Saskatchewan and elsewhere in the Americas.

An evening networking event was held on Monday, May 26 2008, at SoHo, a contemporary gourmet restaurant in Regina's revitalized Warehouse District featuring local and regional dishes. The event was a perfect time for conference delegates to unwind as they listened to a live performance by Glenn Sutter. There were also brief presentations on the significance of revitalizing the old warehouse district for urban sustainability, and the RCE Saskatchewan logo was unveiled.

Delegates were also able to register for exciting pre-conference tours that included:

- A two-day regional trip on Saturday & Sunday, May 24-25, that included a visit of the Last Mountain Lake Bird Sanctuary (www.econet.sk.ca/sk_enviro_champions/last_mountain_lake.html), the first bird sanctuary in

North America, established in 1887, the internationally known Manitou Springs mineral spa (www.manitousprings.ca/), and the Craik EcoCentre (<http://www.craikecovillage.ca/>) a straw bale community centre with composting toilets and geothermal heating.

- An urban ecotour on Sunday, May 25, that included visiting several sites in Regina, Saskatchewan, that demonstrated principles of sustainability, including stops at the Saskatchewan Science Centre, the Saskatchewan Institute of Applied Science and Technology, the Trans Canada Trail Pavilion, and First Nations University of Canada, among others.

In the spirit of sustainability we endeavoured to provide as much local, fair trade and organic food and beverages as possible throughout the conference. Conference delegates were encouraged to bring their travel mugs and use conference shuttle services to minimize transportation emissions. Conference package printing was kept to a minimum and any necessary printing was double-sided on recycled paper.

Sponsors of the *RCE Conference of the Americas 2008* included:

- Government of Saskatchewan Ministry of the Environment *Green Initiatives Fund*
- University of Regina Faculty of Education
- Centre for Sustainable Communities at the University of Regina
- Saskatchewan Outdoor and Environmental Education Association
- University of Regina VP (Academic) Conference Fund
- Luther College at the University of Regina
- University of Saskatchewan
- Saskatchewan Institute of Applied Science and Technology
- Evil Twin Booking Agency
- Saskatchewan Lotteries
- The Royal Saskatchewan Museum
- Saskatchewan Education for Sustainable Development Network.

A further major activity was the planning and holding of an *RCE Saskatchewan Education for Sustainable Development Recognition Event* on November 20, 2008, in Craik Saskatchewan. A 5 member committee held meetings on September 17, October 29, November 6, November 12, and November 26, 2008, to plan the event (agendas and minutes are documented on the RCE SK cite for other RCEs; search “RCE Recognition Event Planning Meeting”). A contract was developed and Carla Ballman was hired as the event coordinator. Possible recognition criteria were initially summarized from the November 2007 RCE Gathering. These were then revised by the committee and final evaluation criteria, an application form, and backgrounder were developed (see *RCE Recognition Event Application and Program Background* attached to the Feb. 2009 Interim Report). The recognition certificate was designed by Tania Wolk of *Go Giraffe Go, Inc.* (see sample certificate attached to the Feb. 2009 Interim Report). There were a total of 28 Education for Sustainable Development (ESD) projects that received recognition certificates and, of these, 27 were able to send representatives to the Craik Eco-centre to receive their awards. Over 50 participants attended. Information on each recognition award recipient and photos from the event are available on the RCE Saskatchewan website at <http://www.saskrce.ca/RecognitionProgram/>.

(4) Participation in UN University International RCE Meetings

A total of four members of RCE Saskatchewan attended the *3rd International RCE Conference* in Barcelona, Spain, from July 2-4, 2008. These included Dr. Daryl Hepting in the Department of Computer Science at the University of Regina, Dr. Roger Petry a philosophy professor at Luther

College at the University of Regina, and Dr. Bob Regnier, a professor in the Department of Educational Foundations at the University of Saskatchewan. Dr. Regnier's wife Sylvia Regnier, a high school teacher from Saskatoon, also attended bringing a valuable perspective. Bob and Sylvia Regnier shared a third of the funding made available while Roger Petry and Daryl Hepting each had a third. RCE Saskatchewan was profiled on the four member Final Reflections Panel by Dr. Petry on behalf of the RCEs in the Americas (alongside panelists representing RCEs in Europe, Africa, and Asia; see meeting summary of the continental meeting of the Americas at the conference prepared by Dr. Petry, the conference program, and the *Report on the 3rd International RCE Conference*—all attached to the Feb. 2009 Interim Report). Dr. Regnier also provided a summary of his observations regarding the value of participating in the conference (attached to Feb. 2009 Interim Report). As the only Canadian RCE represented at the Conference, RCE SK was instrumental in helping arrange that the 4th International RCE Conference to be held in Canada in 2009 (through e-mail dialogue with RCE Montreal during the conference). RCE Saskatchewan's expertise in developing the *RCE Conference of the Americas 2008* fed into the planning for the 4th International RCE Conference in Montreal through RCE Saskatchewan's formal invitation and participation on the organizing committee (Dr. Petry) and advisory committee (Lyle Benko). Details and successes of the 4th International RCE Conference have been outlined in Section 1(4) above.

3. Performance Measures

The following indicators (in *italics*) were set out in Schedule “3” section (b) of the Sustainable Communities Grants contract between the Saskatchewan Ministry of Environment and Luther College, Regina. Information available to the final reporting date is provided

- *Research data collected by students and written reports developed from student research activity*

226 ESD projects were entered into the RCE Saskatchewan online ESD project survey. 8 final reports were prepared by the RCE Student Researchers whose contracts ended on December 15, 2008 (see attached *RCE Saskatchewan Education for Sustainable Development Project Inventory: Student Researcher Final Reports*). 2 Student researchers have subsequently reviewed and synthesized these reports into an article as well as compiled the survey data into 7 useful documents and corresponding spreadsheets for the RCE working groups and RCE website users (see Section 1(1)).

- *Number and composition of participants in International RCE Saskatchewan Conference held in Saskatchewan (includes specific groups represented at the conference e.g. students, attendance from representatives of other RCEs, and attendance from those outside Regina but within region)*

-Total conference registrants: 95

-Total speakers/panelists: 45

-Total attendance of students: 21 students attended, 9 as presenters/moderators

-RCEs represented: 6 RCEs of 8 possible: RCE Curitiba-Parana (Brazil) (1 participant), RCE Montreal (2 participants), RCE North Texas (2 participants), RCE Greater Sudbury (3 participants), RCE Toronto/UN University (1 participant), RCE SK (77 participants)

-Breakdown of attendance from RCE SK region: Regina & surrounding area (53), Saskatoon (11), Moose Jaw (3), Borden (1), Davidson (1), Craik (2), Estevan (1), Humboldt (1),

Lipton (1), Outlook (1). Wadena (1), Prince Albert (1)

- *Indicators of volunteer activity quantifying in-kind contributions of RCE Saskatchewan stakeholders in developing RCE Saskatchewan Conference*

In-kind value of time contributions: over \$16,000 (including participation in conference planning committee (303 hours!), planning sub-committees, volunteer hours, international participation in conference planning calls).

- *Number of organizations involved in International RCE Saskatchewan Conference*

46 organizations representatives attended the conference, many of which participated in the poster/display session and/or presented during the conference.

- *Number of media reports related to the International RCE Conference in Saskatchewan*

Media coverage of the RCE Conference (5 official media stories and additional coverage):

- one *LeaderPost* article, the University of Regina also featured the conference twice on the feature page in the *LeaderPost* (see previously attached articles to the Feb. 2009 Interim Report)
- Carla Ballman spoke about the RCE and the RCE Conference as a guest on the CJTR program “the Green Report” with host Sheri Florizone on Monday, March 17, 2008, and replayed on Thursday, March 20
- The conference was featured on *Newstalk Radio* on Sunday, May 25th, 2008.
- Roger Petry delivered a 10 minute presentation on Access Communications’ program “Talk of the Town” on Friday May 9th, 2008, that aired on Monday, May 12th.
- Event announcements emailed through list servers: University of Regina (and posters), SIAST (posters at all campuses), University of Saskatchewan (and posters), Sask ESD Network, SOEEA, SCIC, NESDEC, SES (180 posters in total were widely distributed around Saskatchewan)
- A lead article about the conference appeared in the UN University *RCE Bulletin*, Issue #5, pp. 1-2, circulated to all of the 55 RCEs globally that existed at the time; note currently there are 62 RCEs as of August, 2009
- Following the conference, Lyle Benko and Roger Petry were invited to present at Saskatchewan Agriculture
- media coverage for the RCE SK ESD Recognition Event occurred through publications in the Craik newspaper (December 2) and through SOEEA and SaskPower news releases.

- *Usage and number of members registered on RCE Saskatchewan website leading up to conference*

The conference website had 2,639 visits with 1606 unique visitors (60.89% new visits) that came from 71 countries/territories. See analysis from April 1 to June 9, 2008, previously attached to Feb. 2009 Interim Report.

- *Estimates of numbers of general public attending public events organized as part of International RCE Conference*

Over 265 people attended the public keynote address at the Royal Saskatchewan Museum in Regina; subtracting the 95 conference attendees this suggests over 175 people from the general

public attended the keynote address.

- *Documentation of planning for International RCE Conference to be available for other RCEs seeking to organize similar events.*

All of the agendas and meeting minutes for the planning of the *RCE Conference of the Americas 2008* and the *RCE SK ESD Recognition Event* are available on the RCE Saskatchewan website (www.saskrce.ca) by selecting the appropriate date on the event calendar or using the website search functions. The conference program and final evaluation results are available on the RCE Conference website (and were attached to the Feb. 2009 Interim Report).

- *Number of participants attending in-person meetings of Theme Area Working Groups and RCE Technology Group*

A number of the Theme Area Working Groups (TAWGs) did not meet leading up to the *RCE Conference of the Americas 2008* as their members were heavily involved in preparing for the Conference. This involvement included acting on conference planning committees and acting as moderators, presenters, workshop leaders, and pre-conference event organizers. Specific portions of the conference were dedicated to each theme area for which the working groups were responsible. Theme Area Working Group coordinators and members also actively identified projects for recognition at the *RCE SK ESD Recognition Event* in November of 2008 as well as participating in the RCE Facilitation Group meetings during this period. In addition, meeting time was spent with coordinators working individually with their respective RCE Student Researchers as well as participating in the monthly meetings with these researchers (see below). Now that the capacity assessment of ESD projects in the RCE SK region has been completed, these groups will be able to identify individuals and organizations to participate in their working groups as well as have material from which to analyze and advance possible ESD research and other projects. Much communication of the Theme Area Working Groups occurs through the RCE Saskatchewan website. The number of current subscribed members for each TAWG on the RCE website are as follows (with the previous number from the Feb. 2009 Interim Report in parenthesis):

Climate Change	103 (91)
Farming and Local Food Production, Consumption, and Waste Minimization	98 (83)
Health and Healthy Lifestyles	87 (74)
RCE Facilitation Group (RFG)	26 (26)
RCE Technology Group (RTG)	8 (8)
Reconnecting to Natural Prairie Ecosystems	85 (71)
Sustaining and Bridging Cultures	114 (93)
Sustainable Infrastructure Including Water and Energy	98 (80)
Building Sustainable Communities (newly launched in November, 2008)	41 (8)

Note: Information about each working group is available under the “Theme Area Working Groups” tab at the top of the RCE Saskatchewan website (www.saskrce.ca).

A total of 26 in-person meetings with a total of 277 attendees were held as follows (in addition to the networking at the RCE events listed above and planning meetings associated with each RCE event). Working group meetings are listed as of the start of the GIF funding.

- 3 Health and Healthy Lifestyle TAWG meetings (6 attendees on average): January 24, 2008, May 21, 2008, November 26, 2008
- 2 Farming and Local Food Production Public Events on November 18, 2008: Afternoon Panel Discussion “Replenishing, Repairing, and Revaluing Water in Rural and Urban Settings” with Joel Salatin and invited guests (20 attendees) and “How to Eat Well AND Save Our Planet” talk by Joel Salatin (held at the Education Auditorium, University of Regina; approximately 175 attendees—not counted in meeting attendee total)
- 2 Reconnecting to Natural Prairie Ecosystems Meetings (8 attendees on average): Spring, 2008
- 1 Sustaining and Bridging Cultures Working Group Event (49 attendees at the two-day “Spring Into Action” event, June 8-9, 2009, University of Saskatchewan); 2 follow-up events: 16 attendees at the SIAST follow-up event on June 11, 2009; over 60 attendees at the University of Regina Charles Hopkins follow-up lecture on June 11, 2009 (not counted in attendee total)
- 1 RCE Technology Group Meeting: September 24, 2008 (4 attendees; note that most activities of this committee are mediated electronically)
- 12 RCE Student Researcher Meetings (6 to 8 attendees on average): December 14, 2007, January 23, 2008, February 27, 2008, March 26, 2008, April, 28 2008, May 15, 2008, June 9, 2008, July 15, 2008, August 19, 2008, November 15, 2008, October 20, 2008, December 2, 2008. Additional meetings were held with the remaining 3 rehired RCE Student Researchers on Feb. 13, Mar. 6, Mar. 26, Apr. 15, Apr. 30, and June 1, 2009 (not counted in number of attendees due to small meeting size).
- 3 RCE Facilitation Group Meetings: July 15, 2009 (13 attendees), January 22, 2009 (18 attendees), June 12, 2009 (12 attendees)
- 2 RCE Gatherings (involve all members of the RCE): November 23, 2007 (27 attendees), November 20, 2008 (20 attendees)
- *Number of initiatives and new partnerships identified by RCE working groups*

Substantial partnerships will become possible now that the RCE Student Researchers have completed documenting ESD projects in each of the RCE thematic areas. 15 specific initiatives and/or new partnerships that RCE working groups have been engaged in are as follows:

Health and Healthy Lifestyles TAWG:

- This TAWG is engaged in sustainable health discussions world-wide through completion of the UN University's Sustainable Health Thematic Group questionnaire developed by RCE Penang (Malaysia) that fed into a short background paper for RCE participants on this theme.
- TAWG Co-coordinator, Dr. Tanya Dahms, is an applicant for an NSERC grant being led by the Farming and Local Food Production TAWG. She will make contributions related to her knowledge of food and metabolism.
- Initial discussions occurred with RCE Greater Sudbury in the area of health, particularly

as it relates to the RCE Saskatchewan ESD survey tool and possible areas for collaboration with RCE Saskatchewan.

- The RCE Health and Healthy Lifestyles TAWG led the creation of the RCE Saskatchewan written response to the Uranium Development Partnership public hearings and subsequently presented at these hearings in Regina in June, 2009.

Reconnecting to Natural Prairie Ecosystems TAWG:

- This TAWG through its members and TAWG activities (such as organizing the *RCE Conference of the Americas* pre-conference field trip and conference workshops) is forming partnerships between the University of Regina, University of Saskatchewan, First Nations University of Canada, the Saskatchewan Watershed Authority, the Native Plant Society of Saskatchewan, Friends of Wascana Marsh, Nature Regina, Saskatchewan Outdoor and Environment Education Association, Brightwater Science and Environmental Program, Saskatchewan Ministry of Agriculture, and the Craik Sustainable Living Project.
- Workshops were held by Dr. Malin Hansen (TAWG coordinator) and Dr. Fidji Gendron (TAWG member) during the summer and fall of 2008 and spring of 2009 on how to grow native plant species. These were held at the native prairie area outside First Nations University of Canada. The workshops had about 25 participants and were given in May (in conjunction with the RCE conference), June, July, August, September, and October, 2008, and in March 2009.

Sustainable Infrastructure Including Water and Energy TAWG

- This TAWG through its structure and members is facilitating linkages related to its sustainable infrastructure theme between the following organizations: the University of Regina, First Nations University of Canada, the University of Saskatchewan (School of Environment and Sustainability, Facilities Management, and Division of Environmental Engineering), the National Research Council Centre for Sustainable Infrastructure Research (CSIR), Communities of Tomorrow (CT), RREDA, SREDA, SK Advanced Technology Association (SATA), SK Trade and Export Partnership, ECOCanada, Roadmap 20/20, Low Energy Design, DGMercer Inc., Youth Build Saskatchewan, Craik Ecocentre, City of Regina, City of Saskatoon, SIAST, Saskatchewan Research Council, PTRC, Saskatchewan Advanced Education and Employment, Sask Property Management, Saskatchewan Industry and Resources, Saskatchewan Environment, Saskatchewan Watershed Authority, Saskatchewan Highways, SaskWater, SaskPower, SaskEnergy, Environment Canada, Association of Professional Engineers and Geoscientists of Saskatchewan, Consulting Engineers of Saskatchewan, Saskatchewan Association of Science Technologists and Technicians, Wascana Centre Authority, Meewasin Valley Authority, Regina Airport Authority, Saskatoon Airport Authority, CP Rail, and CN Rail
- Some members of the TAWG are part of the *Re-Engineering Research and Learning for Sustainability* project, a flagship project of RCE Saskatchewan. The goal of this project is to continue to build on education and research related to sustainable physical technologies (in this case wind energy in the RCE Saskatchewan region) through the collaboration of Shamrock Energy Systems/Cleanfield Energy Corporation, the University of Regina, RCE Saskatchewan, and the Centre for Study in Energy and Environment. In addition, this project is working with the communities of Melfort, Craik, and Regina to focus on sustainable infrastructure needed to promote physical literacy and awareness and adoption of healthy activities and lifestyles.

Farming and Local Food Production TAWG

- Dr. Daryl Hepting, Co-coordinator of the Farming and Local Food Production TAWG, created an electronic SOLE food map (Sustainable, Organic, Local and Ethical) for the province with the help of the RCE Student Researcher hired by RCE Saskatchewan for this TAWG and support of the Saskatchewan Organic Directorate (SOD).
- This TAWG is currently participating in a project with RCEs from the European Union on education about global trade in food entitled “Education for Sustainable Development: Community-based research on Local-International Production Systems” (ESD-CLIPS). RCE Saskatchewan is the only North American RCE participating in this project. This research opportunity emerged directly as a result of the participation of RCE SK in the 3rd *International RCE Conference* in Barcelona in July, 2008.

RCE Facilitation Group (RFG)

- As a result of participation in the 3rd International RCE Conference in Barcelona, RCE Saskatchewan was invited to participate in two global UN University working groups, an RCE Marketing and Communications Group (involving two RCE SK members, Curt Schroeder and Roger Petry) as well as an RCE Strategy Group (involving two RCE SK members, Robert Regnier, and Roger Petry)
 - RCE Saskatchewan was the only RCE outside of RCE Montreal formally invited to have a member participate on the organizing committee of the 4th International RCE Conference in Montreal (May 13-15, 2009).
 - RCE Saskatchewan was requested to lead two of 6 RCE Workshops at the 5th *World Environmental Education Congress* that preceded the 4th *International RCE Conference* in Montreal. These were workshops #3360: *Sustainable Livelihoods and Sustainable Consumption and Production* led by Roger Petry and workshop #3368: *Reorienting Education towards a Sustainable Future: Examples from RCEs (School and Community)* led by Lyle Benko.
 - RCE Saskatchewan was one of 3 ESD projects in Canada invited to be part of the Canadian Commission of UNESCO's submission on behalf of Canada to the 2009 *World Conference on Education for Sustainable Development* held in Bonn, Germany, from March 29 to April 2, 2009. While RCE Saskatchewan did not make the final selection (in part as the UN University already had an RCE presence at the conference), our RCE Saskatchewan Co-coordinator, Lyle Benko, secured a formal invitation to this conference that focused on the mid-decade evaluation of the U.N. Decade of Education for Sustainable Development (2005-2014).
 - Carlton Trail Regional College formally applied and became a higher education partner of RCE Saskatchewan on July 30, 2008, following its participation in the *RCE Conference of the Americas 2008*. Champion College and Cumberland College subsequently became higher education partners of RCE Saskatchewan following the *Spring Into Action* events in June, 2009.
- *Number of participants attending UN University international meetings and number of RCEs represented at these meetings*

4 members of RCE Saskatchewan attended the 3rd *International RCE Conference* in Barcelona from July 2-4, 2009. At the conference there were 49 established RCEs represented and 15 candidate RCEs (i.e. regions applying for RCE status through the United Nations University). 8 members of RCE Saskatchewan attended the 4th *International RCE Conference* in Montreal

from May 13-15, 2009. At this conference, 38 established RCEs were represented along with 17 candidate RCEs. Note that some RCEs were not able to attend this conference due to concerns of their countries related to H1N1.

4. Impact

The following outlines general impacts of the project on (1) the environment, (2) the community, and (3) the economy over and above the more specific project impacts measured in Section 3 above. Each impact area will be discussed in turn.

(1) Environmental Impact

Within the original six theme areas of RCE Saskatchewan, most of the positive environmental impacts fall under the theme areas of: (1) creating sustainable infrastructure (particularly as it relates to water and energy), (2) reconnecting to natural prairie ecosystems, (3) climate change, and (4) sustainable farming and local food production. RCE Saskatchewan provides a focus for regional and global networking around these themes. These are now significantly enhanced by the inventory of ESD projects it has conducted. Specific impacts will increasingly be realized as each theme area working group focus's on specific tasks (such as those listed in Section 3 above) making use of the regional social capital advanced through the RCE's networking structures. RCE Saskatchewan also enables its higher education partners to connect with local ESD initiatives while allowing for an efficient mechanism for and legitimation of inter-organizational ESD research collaboration in our region. Environment Canada is now making use of the Canadian RCE network to advance its research and educational interests (e.g., as these relate to biodiversity and to climate change). With the RCEs operating under the auspices of the UN University, the RCEs are also in a position to readily engage in environmental research in areas of international concern expressed through the United Nations. The 4th *International RCE Conference* had specific presentations on biodiversity as well as opportunities for theme networking related to: (1) *biodiversity, ecosystems & ESD*, (2) *poverty & environment*, and (3) *climate change* (with RCE Saskatchewan facilitating the third theme area under the direction of Lyle Benko).

Some negative environmental impacts of the RCE's activities (e.g. greenhouse gases associated with travel to and from the *RCE Conference of the Americas 2008*) were minimized (e.g. through carbon-offsetting), The RCE also experimented with web conferencing and technology mediated meetings. Much of RCE Saskatchewan's technological innovation aims at enabling regional networking that minimizes the need for travel. At the same time, RCE Saskatchewan acknowledges the benefits of in-person meetings at a regional scale that enable tacit knowledge sharing. The size of the RCE Saskatchewan region is designed to reduce the need for extensive travel while including a good cross-section of rural and urban communities of various sizes and a diversity of educational organizations (including higher education).

(2) Community Impact

RCE Saskatchewan's vision that emphasizes improvements in quality of life while sustaining healthy ecosystems promotes integrated, problem-based approaches that simultaneously encourage active environmental stewardship, social justice, and intergenerational equity. As our region becomes more aware and defined by sustainable lifestyles, it is believed that it will also become more just, equitable, and healthy.

The indicators provided in Section 3 document how RCE Saskatchewan has encouraged networking among members of diverse communities (e.g. academic institutions, First Nations and Metis, the public sector, private sector, and not-for-profit sector). Additional networking and social capital formation is documented through RCE Saskatchewan's interactive website that provides regional and global exposure for ESD projects and opportunities for collaboration. As the material available on the RCE website increases, the RCE's Content Management System becomes an increasingly valuable means for advancing ESD and its capacity to connect individuals becomes even more robust. In addition, significant global impacts of the RCE's work are being advanced through the formal documentation of its projects and activities in published articles and material submitted to UNU-IAS communication vehicles along with regular participation in global and continental RCE conferences and inter-regional theme area networking.

(3) Economic Impact

RCE Saskatchewan has placed sustainable livelihoods and sustaining rural communities as central to its mandate. An economic development model grounded in the sustainable livelihoods approach is able to take advantage of local ecological and social opportunities while, at the same time, recognizing their constraints. A livelihoods model is also able to transform local sustainability challenges into positive employment opportunities. Finally, focusing on these local opportunities and constraints while learning from those of other regions globally provides a regional source for innovation, a key concern of the Knowledge-Based Economy.

RCE Saskatchewan has actively worked on specific theme areas affecting the regional economy through, for example, its emphasis on (1) sustainable infrastructure and (2) farming and local food production. At the same time it is actively networking with other RCEs globally in the areas of Sustainable Consumption and Production (SCP) and Sustainable Livelihoods (SL) (for example, through the 4th *International RCE Conference*). Finally, projects such as the RCE's *Re-Engineering Research and Learning for Sustainability* flagship project have sustainable technologies at their centre. Education supporting new sustainable technologies that are locally and regionally appropriate will also have relevance to regions in the global RCE network sharing similar ecological, economic, and social features to our region. This potentially allows for rapid and targeted transfer, sale, and implementation of new technologies. With the support of our higher education institutions in RCE Saskatchewan, these local sustainability challenges can lead to new human and physical capital technological innovations that accompany broad transformations to sustainable lifestyles.

Given the RCE focus on education for sustainable development – and the increase in environmental awareness and sustainable lifestyles which follow from it – a transformation in what consumers demand in our region will also likely lead to changes in the economy. Changes in market preferences create new market opportunities. Regional transformation in consumer demand through ESD can lead to the development of cutting-edge sustainable practices and products that will accelerate Saskatchewan's role in the global market evolution towards sustainability. RCE Saskatchewan's participation in the global RCE network has provided an important vehicle for promoting awareness of Saskatchewan among key global decisions makers crossing many organizations with a minimal expenditure of resources. In addition, with the expenditures of RCE Saskatchewan made possible with the support of the *Go Green Fund*, RCE Saskatchewan has demonstrated a consistent capacity to leverage significant financial and in-kind resources from other sources. Value is also evident from the quality and quantity of the resulting RCE outputs in proportion to these expenditures.

5. Financial Reporting

Appendix A provides an expenditure statement detailing how much of the funding from the Saskatchewan Ministry of Environment was spent and how the funds were spent. The reporting format follows the breakdown of reporting requested in the earlier development of a project budget for the *Sustainable Communities Grant* application in September, 2007. The expenditures to September 15, 2009, from the *Go Green Funding* total \$70,300, the full amount awarded to this project. As such, there are no outstanding funds in relation to this project.

6. Additional Attachments

The following additional attachments are provided in the order they have been mentioned in this final report.

- *Building Regional Capacity for Sustainable Development through an ESD Project Inventory in RCE Saskatchewan (Canada)*, paper by Peta White and Roger Petry
- *RCE Saskatchewan Education for Sustainable Development Project Inventory Report (All Projects)*, Introduction and table of contents for paper format
- *Museums and Education for Sustainable Development*, Survey by WorldViews Consulting
- *Spring Into Action Workshop: At the Intersections of Education, Environment, and Aboriginal Perspectives*, Readings Pack Table of Contents
- *Experiences in Designing An Online Community to Facilitate Education for Sustainable Development*, paper by Tim Maciag, Roger Petry, Curt Schroeder, and Daryl Hepting
- *Spring into Action: At the Intersections of Education, Environment, and Aboriginal Perspectives (June 8-9, 2009): Summary of Participant Input* by M.J. Barrett, Brenda Green, and Marcia McKenzie, with support from Linda Dunkley and Nancy Peters
- *UNU RCE Bulletin* Issue 9, pp. 1, 7.
- *RCEs of the Americas Continental Meeting: Meeting Minutes. 4th International RCE Meeting in Montreal*, May 13, 2009.
- Final Conference Agenda, *4th International RCE Conference*, Montreal.
- “ESD Project Inventory in the RCE Saskatchewan Region”, RCE Student Researcher poster developed for poster presentation at *4th International RCE Conference* in Montreal
- *RCE Saskatchewan Education for Sustainable Development Project Inventory: Student Researcher Final Reports*, December, 2008