



Office and Direct Reports of the Vice-President (Research)

Briefing Material 2009 - 2010

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A. OFFICE OF THE VICE-PRESIDENT (RESEARCH) (VPR)

1. Leadership

Vice-President (Research): David A. Gauthier

2. Roles and Responsibilities

The Office of the VPR serves to:

- Promote and expand research and scholarly initiatives across the University and build and enhance the University's international research agenda;
- Provide vision and support for a strategic approach to internationalization, graduate studies, research services, centres and institutes and industry liaison at the university;
- Advocate and encourage research excellence across campus and support new research related initiatives;
- Seek research funding opportunities;
- Liaise with Granting Councils, CFI, and provincial funders reinforcing existing support and seeking new areas of support;
- Collaborate with national and international partners in promoting student mobility, collaborative research and faculty, staff and student exchanges;
- Work with partners of the University to reinforce our collaboration and economic, social and cultural leadership;
- Advocate the research and international interests of the University by serving on boards and committees nationally, provincially and locally.

3. Strengths / Stories

The activities of individual scholars / researchers / artists and Faculty-based laboratories, centres and programs of research, CRC and CFI-funded research, and the University centres / institutes are the core foundational components advancing The University of Regina's research reputation. The thematic approach to research based on the University's strategic areas of emphasis (culture and heritage, energy and environment, health, informatics, social justice) is generally accepted. University laboratories, CRCs, CFI funding and centres / institutes serve as catalysts for thematic research and are linked in various ways to achieve greater synergies (e.g. initiative underway to co-locate a cluster of centres in the new SpringBoard Building).

Community partnerships and collaborations have been very helpful and supportive to the University (e.g. PTRC, Enterprise and Innovation, Western Economic Development, SpringBoard West, TRILabs, Communities of Tomorrow) and offer unique and significant opportunities to our UILO activities.

University research revenues have shown substantial growth in over the past decade. From a few million dollars of research revenue received in the mid-1990's, the University now receives over \$23 million annually from numerous funding sources. The University has a high and consistent rate of success in its natural science and engineering grants, with particular strength in environment and energy related research. The University has also shown substantial growth in health-related research as evidenced in its success with CIHR (the Canadian Institutes for Health Research). Partnerships with industry and government are major sources of research contract revenue. The University is also working diligently to

improve its SSHRC grants success rate. Another notable characteristic of research at the University is its substantial success in attracting large multi-disciplinary research grants and contracts, evidence of the University's strong focus on supporting cross-disciplinary research collaboration. The Federal Indirect Cost allocation (which is based upon a rolling average of federal granting council funding) has increased to over \$2 M.

The University has a strategic approach to internationalization based upon an attention priority focus that builds on existing relationships, the duplication of existing initiatives to other areas (ESL), historical connections (China) and new opportunity areas developed through research collaborations, internal faculty/staff champions, or are complementary to existing strengths (India, South America). The University supports almost 1,500 graduate students including over 200 PhD students of whom a third of that number are international students.

The University is also currently working on the development of its strategic research plan that will build upon current scholarship and research:

- To become the leading centre for energy and environment and climate change adaptation research in Canada.
- To become a leading provincial and national contributor to health-related research.
- To become the Western Canadian centre for research on justice, public safety and security.
- To build on the University's growing reputation in cultural and heritage research.
- To further advance the University's research strengths in informatics.
- To continue advancing research relevant to the First Peoples of Saskatchewan and Canada.
- To be recognized as a leading international student/research destination due to the nature of the programs and services we provide and as a result of established centres of excellence.
- To be a model for smaller and medium sized universities in Canada for the role we play in the economic, social, environmental and cultural development of the community we live in.

4. Programs

- President's SSHRC Research Fund Program
- General Research Fund Program
- VPR Matching Research Start-up Funds Program
- Special Research Initiatives Program
- University Research Trust Fund Program

5. Direct Reports and Staff

Executive Assistant – Wendy Gielis

Associate Vice-President (Research) – David Malloy

Faculty of Graduate Studies and Research - Rod Kelln (Dean)

Office of Energy and Environment - Malcolm Wilson (Director)

Office of Research Services – David Malloy (Director)

Senior Advisor for Special Projects - Bob Schad

University-Industry Liaison Office - Ian Bailey (Director)

Canadian Plains Research Center - Harry (Polo) Diaz (Executive Director)

Centre canadien de recherche sur les francophonies en milieu minoritaire - Peter Dorrington (Director)

Centre for Studies of Energy and Environment - Gordon Huang (Director)

Centre for Sustainable Communities - Raman Paranjape (Director)

Centre on Aging and Health - Thomas Hadjistavropoulos (Director)

Humanities Research Institute – Christian Riegel (Director)

Prairie Adaptation Research Collaborative – Norman Henderson (Director)

Prairie Particle Physics - George Lolos (Director)

6. Priorities for 2009-2010

- To complete an updated institutional strategic research plan for the UofR as part of the University's renewal of its strategic plan.
- To increase grant success rates among the Councils and advance industry / business / government partnerships in support of research through such means as: continuation of internal mentoring, internal reviews of applications, targeted research funding support, grantsmanship workshops, and hiring of technical writer to assist scholars in preparation of applications.
- To advance the development and use of appropriate measures of performance of research within the University through continued discussions with administrative offices and Faculties.
- To continue to advance graduate and undergraduate student research opportunities through targeted support from FGSR and pilot projects with appropriate Faculties.
- To contribute to an improved national and international identity for research at the UofR through improved communications about UofR Research.
- To significantly advance UofR interests in energy R&D through: (a) completion of the incorporation of IPAC-CO2; (b) development of a business case for NAISE and securing initial funding for its establishment; (c) establishing a program of support with SaskPower.
- To facilitate the development of core research clusters in health-related research and social justice, public safety and security within the UofR through: (a) development of a plan for co-location of health training and research associated with the proposed Faculty of Nursing and other health-related initiatives; and (b) facilitate the development of a plan for an Institute of Social Justice that integrates interests in social justice, public safety and security, policing and corrections.
- To continue restructuring of offices reporting to the VPR through: (a) potential transition of UILO to a new model for provision of technology transfer and commercialization services; and (b) transition of OEE to operations under NAISE and IPAC-CO2.

B. FACULTY OF GRADUATE STUDIES AND RESEARCH (FGSR)

1. Leadership

Dean: Rod A. Kelln, Ph.D.

Associate Dean, International and Interdisciplinary: Dongyan R. Blachford, PhD

Associate Dean, Professional Programs: Sylvain Charlebois, PhD

2. Roles and Responsibilities

The primary focus of the FGSR is to provide students with mastery of their subject. Doctoral programs are offered in Biology, Biochemistry, Chemistry, Computer Science, Education, Engineering, Mathematics, Physics, Psychology, and Statistics. Master's programs are offered through the faculties of Arts, Business Administration, Education, Engineering, Fine Arts, Johnson-Shoyama Graduate School of Public Policy, Kinesiology and Health Studies, Science, and Social Work.

3. Programs

All graduate programs are administered through the Faculty of Graduate Studies and Research (FGSR) and all graduate students are students registered through the FGSR. The UofR has formal doctoral programs in four of its faculties, offers over fifty master's programs plus several master's certificate programs. The Johnson-Shoyama Graduate School of Public Policy (JSGS) also reports to the Dean FGSR.

4. Staff

Faculty Administrator - Karen Wiome	Manager Scholarships and Awards – Wendy Machmer
Dean's Secretary - Lori Baiton	Thesis clerk - Marnie Jeworski
Receptionist – Wendy Roddy	Registration Clerk - Mary Catherine Litalien
Registration Clerk - Mandy Kiel	Administrator JSGS: Sarina Wowchuk
Receptionist JSGS: Stacy Gropp	

5. Accomplishments

Student support: Revitalization of the Graduate Students' Association (GSA) including the annual students' research conference and the GSA Student's Centre. Scholarship funding re: Dean's scholarships, Centennial merit scholarships; International awards; Enhancement awards.

Johnson-Shoyama Graduate School (JSGS) - Launched as the Graduate School of Public Policy (GSPP) in May 2005, it has seen a meteoric rise in student enrolments and has now become a provincial school.

Internationalization / Interdisciplinarity and Student Recruitment - Appointed an Associate Dean with this portfolio and position has recently become full-time. The FGSR recruits nationally and internationally for graduate students.

Professional Programs and student recruitment. Appointed an Associate Dean to this portfolio who also serves as the Director to the Johnson-Shoyama Graduate School at the UofR.

Administration - Converted paper files to e-files and working to establish e-theses.

6. Priorities for 2009-2010

- The FGSR will continue to work towards improving graduate student funding at the level of external agencies, the University, line faculties, targeted scholarships from donors, and individual faculty members. Increasing the financial support available to graduate students continues to be a top priority.
- FGSR will foster an environment for building programs and conducting research and scholarly activity that creates knowledge valued by the members of the University and the external community. FGSR will do so by encouraging innovation, risk-taking, interdisciplinarity and internationalization, and by fostering an environment for postdoctoral scholarship.
- FGSR will continue to work to foster improved educational opportunities for Aboriginal students.
- FGSR is committed to ensuring the existence of a highly qualified, well-motivated faculty and staff. Planning in this regard is especially important in a context of forthcoming retirements, coupled to the ever-increasing competition from other institutions in the hiring process.
- FGSR will work towards ensuring that its administrative procedures are effective and efficient in meeting the goals of the Faculty.
- The capacity to carry out web admissions and web registration is being actively sought given the distinct advantages over manual entry by staff. Implementation of a Graduate Student Information System (GSIS) would be a major asset both from the standpoints of administration and benefit at the level of student services.

C. OFFICE OF ENERGY AND ENVIRONMENT (OEE)

1. Leadership

Director –Malcolm Wilson, PhD

2. Roles and Responsibilities

The OEE manages the University theme area of Energy and Environment, including research-focused project development, project management, and project funding. In addition, the OEE manages industry and government liaison within the Energy and Environment area, commercialization of technology in close collaboration with the U of R UILO and the development of international relations with other institutions working in the same area (in collaboration with UR International). The OEE is also responsible for facilitating interaction between the various Energy and Environment Centres on campus.

3. Programs

- Support for the University Energy and Environment research thrust
- International Test Centre for CO₂ capture
- Board member for Petroleum Technology Research Centre
- Project and funding development
- Public, industry stakeholders and government outreach, and university in-reach program development

4. Staff

Manager, Communications and Marketing – Elsa Johnston

Business Administrator - Victoria Muzychuk

Administrative Assistant – Danielle Riemer

5. Accomplishments

- The University is a world leader in CO₂ capture technology (post combustion capture), and is working with government and industry to increase this recognition in Saskatchewan, Canada and abroad.
- In November 2008, the University through the OEE helped to establish the International Performance Assessment Centre for Geologic Storage of CO₂, which will create a network of international experts in the large-scale deployment and acceptance of carbon capture and storage (CCS) internationally.
- The OEE has mounted a significant effort to increase the profile and to generate government funds to demonstrate carbon capture and storage (CCS) technology patented by University engineers at the commercial scale.
- The OEE is working with the provincial government to establish financial support for the commercial demonstration of CCS technologies. In 2009, the Government of Saskatchewan announced its contribution of \$50 million in funding towards the Sask-Montana Project for the development of CCS demonstration at the commercial level. A capture unit would be attached to a coal fired power plant in southern Saskatchewan and transfer CO₂ from Saskatchewan for CCS and enhanced oil recovery in Montana. The OEE is committed to working with its government partners to secure support from the federal governments in Canada and the United States.
- Development of the International Performance Assessment Centre for CO₂ Geologic Storage.

- Concept development and implementation of Springboard West Innovations, a university initiative to help commercialize innovations.
- Initiation of Phase 2 of the International Test Centre along with development of several specialised contract projects.
- Development and implementation of Canada-Ukraine Science Internship Program and UR Students' Mobility Program.
- Represented the University and gave presentations at various high-level international conferences, such as the United Nations Convention Conference on Climate Change in Poznan, December 2008.
- Participated in the development and implementation of the IEA GHG International Summer School for CCS, increasing the University's international CCS profile and building leadership capacity.
- Participated as advisor on numerous CCS projects, such as CO₂ GeoNet, Co2Sink, ASAP.

6. Priorities for 2009-2010

- The University is a world leader in CO₂ capture technology (post combustion capture), but is not recognised as such, particularly in Canada, therefore the University is working vigorously to advance research and development opportunities for clean energy solutions and advancing carbon capture and storage initiatives.
- In cooperation with the Crown Investments Corporations and Royal Shell, leading the development of the International Performance Assessment Centre for CO₂.
- Frequent meetings on an on-going basis with federal and provincial politicians, civil servants and industry representatives to create an environment for capacity building.
- With the establishment of the MOU, the OEE is working collaboratively with SaskPower and CIC to develop the design proposal for the Saskatchewan Reference Plant (SRP).
- OEE is currently developing a University energy communications plan for 2009-10 and is profiling University energy and environment research and technology through numerous communications channels: media, advertising, CCS conferences, public lectures, OEE website, tours and collaborations with industry and government partners.
- OEE is working to establish international networks of excellence for the International Performance Assessment Centre for Geologic Storage of Carbon Dioxide (IPAC-CO₂). MOUs are planned with South Africa, China, India and Brazil in the summer of 2009. With an administrative centre at the University of Regina, IPAC-CO₂ is a key part of developing a cluster of expertise in CCS and is an important part of the CCS value chain in Saskatchewan.
- The OEE is currently working with the Saskatchewan government to establish a North American Institute for Sustainable Energy (NAISE), which would include many of the institutes being developed by the University, such as ITC and IPAC-CO₂. NAISE could become a neutral meeting place members working in CCS, helping to bring together industry, academia and government, thereby developing synergies that will benefit all partners.
- Enhance the University's and province's international image as a world-class centre focused on greenhouse gas emissions reduction and mitigation options for climate change.
- The OEE facilitates research-focused student exchange programs and student internships campus-wide, which can help to build a cohort of qualified CCS practitioners for SaskPower and within the province.

- The University has mounted a significant effort to increase profile and to generate industry and government funds to demonstrate carbon capture and storage (CCS) technology at the commercial scale. To that end, the University is working with the Crown Investments Corporation and its agent SaskPower on the business case for a CCS Reference Plant, and with CIC on the development of the business case for the North American Institute for Sustainable Energy (NAISE).

D. OFFICE OF RESEARCH SERVICES (ORS)

1. Leadership

Associate Vice-President Research and Director of ORS, Dr. David Malloy

2. Roles and Responsibilities

The ORS plays a key leadership and managerial role at the University in supporting the continued growth and development of the University's research and scholarly activities. As the office of record for research activity, the ORS fosters an environment of pro-active support and development for the research interests of the University with the aim of increasing research activity. The ORS also leads the continued creation, documentation, implementation and improvement of the University's systems for managing research.

3. Programs

- Research Administration – Internal and external research grants, agreements and contracts
- Research Ethics Board
- President's Committee on Animal Care
- Institutional Programs – Indirect Costs, Canada Research Chairs and Canada Foundation for Innovation

4. Staff

Jocelyn Crivea, Research & Ethics Officer; Lucille Legare, CUPE; Kevin O'Fee, Grant Development Officer; Sarah Savage, Grants Facilitator; Meigen Schmidt, Senior Research Officer; Helen Yum, Legal Counsel

5. Accomplishments

- Development of Research Database – Access database that holds all external research funding with increased flexibility for assembling research statistics.
- Development of Research Manual – a comprehensive web-based manual to assist researchers in the pre- and post-award administration of research-related activities.
- Updated ORS Web Site.
- Enhancement of the Mentorship/Internal Review Process.
- Greater exposure and outreach of the ORS to the research community.
- Leadership in the development of the University's Strategic Research Plan.
- Movement toward a more positive working climate among ORS staff and scholarly community.

6. Priorities for 2009-2010

- Managing on behalf of the VPR the development of the institutional strategic research plan for the University (due March 2010).
- Improve grant success – grant writer has been hired; doing content analysis on SSHRC awards or non-awards; holding strategic workshops; promoting ORS work in assisting grant success, promote change in research culture; managing mentoring programs to increase SSHRC success rates.
- Conducting review of use of and access to research space within the University.
- Expanding ORS service and outreach on campus.

- Improve administrative efficiencies, create or revise policies related to institutional research and post-award management.

E. SENIOR ADVISOR FOR SPECIAL PROJECTS

1. Leadership

Bob Schad

2. Roles and Responsibilities

- Administrative and budgetary oversight for special institutional research related initiatives and projects.
- Undertakes a diverse range of strategic initiatives and projects.
- Reports to the VP Research. The position of Senior Advisor for Special Projects is designed to support new activities that arise in the interest of the university's strategic plans and in support of the President and the offices of all the Vice Presidents. New projects that are deemed by the senior executive team to need leadership and coordination are accepted as capacity permits.

3. Programs

N/A

4. Staff

None. Currently administrative/secretarial support provided by President's Office.

5. Accomplishments

- Led Steering committee for development of Springboard West Innovations and currently serve on the Board of Directors for Springboard West Innovations, Inc.
- Represented University in development of community proposal for Canadian Police Research Centre move to Regina.
- Supported team developing proposal for provincial funding for Engineering's biodegradable container project.
- Supported Engineering team in developing proposal for Unmanned Aerial Vehicle project.
- Developed proposal for "star optical network" which now connects the University's two campuses with a fibre network connection as well as science centre, sound stage and Sask. Museum of Natural History.
- Led Council of Ministers of Education Canada digital rights copyright subcommittee and successfully lobbied for inclusion of an Education Use of the Internet Amendment in copyright bill C-61.

6. Priorities for 2009-2010

- On behalf of the VPR, the SASP is leading the development of the planning for the business case for the North American Institute for Sustainable Development (NAISE).
- *IPAC* – The SASP assists in negotiations for the development of world-wide IPAC nodes, e.g. Brazil, China, India and South Africa. Successfully obtaining federal funding support for this organizational work.

- *China* - Working with Hunan University for research collaboration. Negotiated MOU with Hunan University for the establishment of joint research plan and will continue to support the development and implementation of the joint research plan. Facilitating the University involvement in organizing an international conference with the China National Petroleum Corporation (CNPC).
- Ongoing support to graduate research development and international research development.
- Support to faculties to implement an institutional strategic research plan as required.
- Support the development of strategic research projects in energy, environment, health related, policing, public safety, security and social justice.

F. UNIVERSITY-INDUSTRY LIAISON OFFICE (UILO)

1. Leadership

Ian Bailey, Director

2. Roles and Responsibilities

- To identify and protect intellectual property
- To catalyze collaborative research projects and develop industrial partnerships
- To license university developed technologies, software, and know-how
- To promote local economic development through the creation of university spin-off companies

The UILO specifically serves by:

- Evaluating technical, intellectual property (IP) and market potential
- Seeking appropriate IP protection (i.e. patent, trademark, copyright, etcetera)
- Drafting patent applications
- Stimulating further research on the invention
- Marketing inventive concepts to industry
- Formulating development plans
- Negotiating various agreements with partners
- Monitoring progress on agreements and royalty revenues

3. Programs: N/A

4. Staff

Janet Berriman, Technical Transfer Officer

Amanda Evans, Technology Transfer Coordinator

5. Accomplishments

- Increased the industry liaison function and formed collaborative partnerships with various industry partners focusing on the Environment, Energy and Informatics Industries.
 - Coordinated technology transfer and commercialization technology initiatives by faculty, staff and students. Encouraged greater involvement of faculty and students in applied research to foster local economic development.
 - Protected intellectual property and supported entrepreneurial development on campus.
 - Liaised with public and private sector communities to encourage collaborative research.
- In 2008-2009, the UILO targeted support to the following high priority initiatives:
- Carbon Capture and Sequestration (CCS) Technology
 - NAISE – North American Institute for Sustainable Energy
 - IPAC-CO₂ - International Performance Assessment Centre for the Geologic Storage of CO₂
 - Climate Ventures Inc
 - HOTMAP Technology and Domain-Specific Search Project
 - NetSecure Technologies Ltd
 - BioRefinery Value Chain
 - HTC - Hydrogen Production
 - Wind Turbines

- Prairie BioGas - Gasification

6. Priorities for 2009-2010

- UILO has strong current focus on advancing University energy commercialization priorities through industry and government contacts. The UILO primary goal is to increase research dollars to be leveraged from other sources.
- In 2009-2010, UILO will examine different delivery models for UILO service – UR has limited assets, patents and licenses so UILO focuses on getting industry dollars. For Intellectual Property (IP), UR has patents but have very few commercializable assets to date. Potential models that could maximize opportunities for the University be more effective for the UR could include not-for-profit, independent to do services for contract with UR that is amenable to the UR.

G. CENTRES / INSTITUTES

Canadian Plains Research Center (CPRC)

1. Leadership

Dr. Harry (Polo) Diaz, Executive Director

2. Roles and Responsibilities

The Canadian Plains Research Center is the longest-serving research institute at the University of Regina with a broad mandate to improve understanding and appreciation of the Canadian Plains region, its people, and its resources. It does so through contributing to the development of a broad community of scholars of the region using interdisciplinary approaches that initiate and support scholarly research on all aspects of prairie life.

3. Programs

1. Research Program
2. Canadian Plains Studies Graduate Program
3. CPRC Press
4. Research Fellowship Program
5. Conferences, Workshops and Seminars

4. Staff

CPRC has six permanent staff occupying four full-time positions and two part-time positions covered through the operating budget: publications manager (Brian Mlazar), senior editor (Donna Grant), art coordinator (Duncan Campbell), office manager (Lorraine Nelson), storekeeper (Jeff Morman), clerk (Diane Perrick). In addition, CPRC is served by an editorial assistant (David McLennan), a project administrator (Pat Barrett-Deibert), and student assistants.

5. Accomplishments

- Between 2003 and 2009 CPRC has administered research projects valued at \$5 million. CPRC research projects and initiatives during the period include: Great Sand Hills Regional Environmental Study; the SSHRC Institutional Adaptations to Climate Change Project; the SSHRC Strategic Theme Grant in Social Cohesion Project; the Rural Community Water Conservation–Chile Project, and the Rural Community and Adaptation to Drought Project.
- In 2005 CPRC published the Encyclopedia of Saskatchewan, the single largest educational publishing project in the history of the province. The publication features 2,300 individual entries covering all aspects of life in the province.
- Between 2003 and 2008 CPRC Press has been the winner of fifteen publishing awards.

6. Priorities for 2009-2010

- To facilitate the development of interdisciplinary collaborative research proposals in order to expand CPRC's overall research program and to contribute to the sustainability of the Canadian Plains and its people.
- To continue fostering scholarly communications and public dialogue through the publication of scholarly work relevant to the Canadian Plains.

- To strengthen and expand the Canadian Plains Studies program, an interdisciplinary graduate program focused on topics relevant to the Canadian Plains.
- Engagement Opportunities:

CPRC is home to Saskatchewan's largest, non-fiction, and only university press. CPRC Press has been publishing books about the prairie region in general, and Saskatchewan in particular, for 35 years. In 2005 CPRC Press published *The Encyclopedia of Saskatchewan*—the single largest repository of information about this province. The *Encyclopedia* is now online (www.esask.uregina.ca). As such, the Press has access to a wealth of information about Saskatchewan which can be readily accessed by the government. An example of a recent co-operative endeavour between the CPRC Press and the Government of Saskatchewan is the arrangement whereby SaskLearning will adapt the material from 18 communities contained in the CPRC publication *Our Towns: Saskatchewan Communities from Abbey to Zenon Park*. This material will be used for Social Studies classes in the English, Core French, and French Immersion programs. CPRC is currently developing a study guide template based on the *Our Towns* material for use by educators. As well, in 2010 the Press will launch its Discover Saskatchewan series, which will include a minimum of ten books dealing with various aspects of life in this province. The Press is open to suggestions from the Government of Saskatchewan for books to be included in this series. Finally, the Press has a well-established publishing team that can provide editing and design services for individual Government of Saskatchewan publishing projects.

For many years, CPRC has facilitated the development and administration of interdisciplinary team research projects with a focus on environmental and social issues relevant to Prairie life. These projects have contributed to a better understanding of the complexity of the sustainability processes and dynamics of the Canadian Plains. An example of this contribution is the Great Sand Hills Regional Environmental Study, a project commissioned by Saskatchewan Environment that focused on a strategic assessment of human activities affecting the ecological integrity of this globally significant regional ecosystem of Saskatchewan. More recently, CPRC has embarked on a new project focused on rural residents' exposure and adaptation to drought impacts in rural Saskatchewan. The project—supported by the Social Sciences and Humanities Research Council of Canada and implemented in partnership with the Agri-Environment Services Branch/Agriculture and Agri-Food Canada, a leading federal agency in the area of drought adaptation, and with the Saskatchewan Research Council—seeks to facilitate policy-oriented research on the impacts of drought on different types of rural community residents, producers, and organizations, their capacities to reduce these impacts, and their assessments and expectations of existing drought risk-reducing programs and policies. CPRC is open to collaborating with researchers from both government and non-government organizations in all aspects of research that could contribute to the improvement of Prairie life.

Centre Canadien de Recherche sur les Francophonies en Milieu Minoritaire (CRFM)

1. Leadership – Dr. Peter Dorrington, Associate Director, Institut français

2. Mandate and Strategic Research Areas

Using a multidisciplinary and inter-institutional approach, the **Centre canadien de recherche sur les francophonies en milieu minoritaire (CRFM)** of the Institut français directs a research program with a special focus on the experience of the Fransaskois community. It also examines the experience of other Canadian and international francophone communities seeking to survive and flourish in minority settings. The Centre also promotes research comparing the francophone experience with that of other peoples in minority situations.

The CRFM research program gives priority to the following key themes:

- Inclusion and cultural diversity
- Alternative community development strategies
- Issues facing young adults within the Canadian Francophonie

The CRFM also contributes to and participates in research examining other aspects of the francophone experience in minority settings.

3. Programs and Partnerships

- **Francophone and Métis Program of Comparative Research**
This program promotes a better understanding of francophone and Métis communities in minority settings and encourages the comparison of their respective experiences, in order to offer the people of these two communities mutually beneficial tools for community development and intercultural cooperation.
- **Terroir and Rural Development** - "*Terroir et développement rural*" is a joint initiative of the Institut français and the Assemblée communautaire fransaskoise (ACF) serving to support development of identity and community via the definition of a concept of "terroir" adapted to minority situations.
- **Encyclopédie du patrimoine culturel** - The CRFM is a partner for the "Encyclopédie du patrimoine culturel de l'Amérique française," a publication by Laurier Turgeon, Director of the *Institut du patrimoine culturel*.
- **Observatoire Jeunes et Société** - The CRFM partnered with the *Observatoire Jeunes et Société* on a project entitled "Developing Research and Ensuring the Transfer of Knowledge about Youth within the Canadian Francophonie,".
- **Conférences de l'Institut**, a series of academic lectures .
- **Annual Research Grant Competition**: The CRFM offers grants to individual researchers and research teams in the following six categories: academic research, research-related teaching releases, graduate student research, academic publication, community-based research, and publication of community-based research.

4. Staff

Sophie Bouffard, CRFM Coordinator

5. Accomplishments

- Commission on Inclusion in the Fransaskois Community
- Health in a Minority Context - The CRFM is a formal collaborator on a research program studying the social and cultural aspects of the health of francophones in a minority setting.
- Organized the conference “Resistance and Convergence: Francophone and Métis Strategies of Identity in Western Canada”.
- Over the course of the 200-2008 year, the CRFM sponsored research contributing to the Caron Case (Alberta) on the status of French in Western Canada.
- Creation of a Research Team - The creation of the first research team in the framework of the CRFM’s Francophone and Métis research program was directed by Pierre Foucher (Université d’Ottawa) and Paul Chartrand (University of Winnipeg).
- A research professional joined the Institut français team in order to conceive, develop and oversee the beginnings of a *Centre de développement et d’interprétation des terroirs or CDIT* (Land Development and Interpretation Centre) in Saskatchewan.

6. Priorities for 2009-2010

- Symposium on the Status of French in Western Canada - In partnership with the *Association des juristes d’expression française de la Saskatchewan* (AJEFS) and the *Assemblée communautaire fransaskoise* (ACF), the CRFM is organizing a symposium on language rights in Canada, which will be held at the Institut français on Feb. 19 and 20, 2010.
- *Équipe Foucher-Chartrand* - Follow-up on the project entitled “Examination of the Influence of Francophone and Métis Cultural Perceptions on the Interpretation and Practice of Canadian Common Law”.
- *Terroir* and Rural Development - Continued work on this initiative includes a trip to the region of Charlevoix (Quebec), a strategic visit in the Aubrac (France) to revitalize partnerships with different organizations and key participants in the concept of *terroir* (i.e. land use and development), as well as the pursuit of community-based research opportunities.
- Publication of the first edition of *Les Cahiers du CRFM*.
- Continuing with the project “*Développer la recherche et assurer le transfert des connaissances sur la jeunesse dans la francophonie canadienne*” with the *Observatoire Jeunes et Société*.

Centre for Studies in Energy and Environment (CSEE)

1. Leadership

Dr. Gordon Huang, Director

2. Roles and Responsibilities

CSEE focuses research in the area of energy and environment, including research into the province's energy resources, and with a particular focus on the effects of climate change and the meeting of emissions targets on the energy sector. It is built on a foundation of the engineering, science and social science components of energy and environment, providing a comprehensive base for interdisciplinary research.

CSEE will work closely with other Centres on campus to ensure optimization of activities undertaken by these different groups and an effective delivery of interdisciplinary research and training. It also pursues interactions with the international community in areas of research relevant to the province and Canada. CSEE also targets on providing training to improve capacity building in energy and environmental studies, particularly as it relates to climate change and the effects of all environmental issues on the energy sector.

3. Programs

- Research Program
- Collaborations with Ontario Ministry of Environment
- Partnerships with Environment Canada
- Conferences, Workshops and Seminars

4. Staff

Director of CSEE

Research fellows from various Faculties within U of R

Visiting research fellows from Environment Canada, Saskatchewan Government, and international organizations

5. Accomplishments

Most of the activities under the CSEE are related to issues of energy and environment, which well fit the goals, targets and strategic priorities of the university. CSEE's strategic plan is to enhance interdisciplinary collaborations, which have been well reflected in the generated research accomplishments. The following are the details:

CSEE has developed and maintained Canada's first energy model. Our target is to develop models for all provinces and major cities all over the country, and eventually build an integrated Canadian Energy Model. This model is critically important for supporting policy making related to energy structure, climate change adaptation and mitigation, socio-economic development, and regional environmental management. We are also extending our model to Beijing, as supported by Environment Canada and China Ministry of Science and Technology.

CSEE is one of the parties in developing and maintaining the Canadian Climate Scenarios Network (CCCSN). Researchers in the field of climate change impact assessment and adaptation planning over the country have been relying on information from this network for their advanced studies.

CSEE is operating one of the only two regional climate models (RCM) in Canada. These outputs are essential for further impact assessment, vulnerability study, downscaling, and adaptation and mitigation studies.

Supported by Environment Canada, an integrated interpolation-cluster-inference approach was developed by CSEE for the estimation of regional intensity-duration-frequency (IDF) curves in southern Ontario. This research provided technical and methodological supports for sound design, planning and management of stormwater infrastructures in the region.

The partnership with Environment Canada has been established, with many co-operations and collaborations being well developed.

The partnership with Saskatchewan Ministry of Environment has been established. The first two funded projects are (a) development of a mobile air quality monitoring system, and (b) sustainable water use study.

6. Priorities for 2009-2010

- Promote the exchange of faculty members, visiting scholars, post-doctoral fellows and students with other institutions and agencies nationally and internationally.
- Pursue international collaborations with the China Environmental Protection Administration and the China Agricultural University under the framework of the China-Canada Center of Desertification Research; enhance international collaborations with the North China Electric Power University, the Hunan University and the Beijing Normal University under the frameworks of the China-Canada Center of Energy and Environmental Research.
- Initiate the collaboration with the Ontario Ministry of Environment in developing regional climate model (RCM) for the Province of Ontario.
- Coordinate the collaborations among Saskatchewan Ministry of Energy and Resources, CNPC and CSEE.

Centre for Sustainable Communities (CSC)

1. Leadership

Director: Dr. Raman Paranjape

2. Roles and Responsibilities

CSC serves as the primary interface between the University of Regina and the Communities of Tomorrow Cluster. The CSC also strongly interacts with the NRC Centre for Sustainable Infrastructure Research (CSIR), Springboard West, City of Regina and NRC Industrial Research Assistance Program (IRAP). CSC is a strong advocate for university research in projects and funding opportunities within the CT cluster.

3. Programs

- Development of a Simulation and Modeling Faculty – through CFI application
- Development of a Chair in Infrastructure Research – through Industrial partnership
- Development of a Multi-Use Infrastructure Laboratory – in partnership with NRC/CSIR and Local Industry

4. Staff

Mr. Mike Hegedus - ¼ time staff researcher

5. Accomplishments

- Strong partnerships with all institutions on CT Cluster.
- Helped University Researchers obtain over 1 million dollars in research grants from CT.
- Helped to create University awareness about Municipal Infrastructure Issues/Opportunities.
- Developed relationship with Regina Police Services.
- Developed relationship with Canadian Police Research Centre.

6. Priorities for 2009-2010

- Foster collaborations with research partners.
- Provide guidance in sustainability to the University community.
- Provide a unified interface to the City of Regina, and outreach to the local community.
- Facilitate the development of a Sustainable Urban Infrastructure Laboratory (SUIL) which will provide a mechanism for University researchers, NRC-CSIR researchers, and Industry partners to come together to work out and work on problems of Sustainable Urban Infrastructure.
- Facilitate the development of a simulation and modeling facility that will allow testing of scenarios, policy and planning to be done in the confines of a software simulation. This facility speaks to some of the inherent strengths of the University of Regina's Faculties of Science, Engineering and Arts.
- Facilitate the development of a research chair in Infrastructure research.

Centre on Aging and Health (CAH)

1. Leadership

Director: Thomas Hadjistavropoulos, Ph.D., Professor of Psychology and RBC
Senior Research Fellow (reporting to the Vice President Research and International)

2. Roles and Responsibilities

The Centre on Aging and Health has three primary mandates: a) To enhance research in the area of aging and health; b) to enhance graduate education; and c) to engage in community outreach. The CAH coordinates (and initially developed) the only graduate gerontology degree program in the prairies, brings together clusters of highly successful aging and health researchers (with collective funding successes of several million dollars over the past few years), operates a small grants program, produces a newsletter and other communications, operates a pool of research participants and organises public lectures.

3. Programs

N / A

4. Staff

Scott Wilson, Assistant Director

5. Accomplishments

- SHRF Team Grant for \$2.4 million.
- Multiple Grants from CIHR, SSHRC and other sources.
- Private Donations to the CAH (announced: \$600,000; pending announcement \$250,000).
- Developed the only gerontology graduate program in the prairies.
- World renowned research clusters (with tremendous research outputs) have been created through the CAH.
- Successful Unit review completed.

6. Priorities for 2009-2010

- Continue and expand ongoing research activity.
- Fundraising (pursue possible donations [e.g., for named chairs and/or professorships] from outside agencies such as disability and life insurance companies).
- Continue work on the development of our newly established interdisciplinary graduate program in gerontology.
- Broaden the reputation of the Centre by fostering research teams and clusters capable of attracting external funding for the University.
- Encourage grant applications by providing start-up funds to suitably qualified individuals.
- Provide funding for graduate students working within the area of aging and health following the establishment of the graduate program in gerontology.
- Enhance communication among health and aging researchers (e.g., newsletter, webpage etc).

- Continue with outreach activities such as participation in the city's Brain Awareness Week, public lectures, newsletter etc.
- Offer an undergraduate student internship.
- Continue to facilitate faculty and graduate student research with initiatives such as the database of Regina seniors interested in research participation.
- Develop more projects focused on community outreach. The CAH Fact Sheet project as well as joint projects with community and health organizations will be critical to our success as a leader in gerontological research.
- Continue to work with the SEC on research relating to aging and health.
- Foster stronger ties with the Saskatchewan Seniors Mechanism and Alzheimer's Saskatchewan as well as other organizations.

Humanities Research Institute (HRI)

1. Leadership:

Director: Dr. Christian Riegel

2. Roles and Responsibilities

- The Humanities Research Institute, founded in January 2002, aims to establish an intellectual community linking scholars from diverse areas of the University of Regina in common conversations. The HRI will create opportunities for new scholarly initiatives in the humanities at the U of R.
- Through the development of partnerships with arts and cultural organizations in Regina and southern Saskatchewan, the HRI will promote and support the humanities in the University and in the general community.
- The HRI will promote the development of a research culture amongst humanities scholars that promotes the acquisition of external funding to support humanities research at the University of Regina.

3. Programs:

- Two annual funding competitions in up to seven programs (Spring and Fall)
- Barbara Powell Lecture (annual flagship event)
- Profiling Scholarship series of talks (four or five p.a.)
- Conference and Symposium support program
- Visiting Research Fellow program
- Heritage Lecture series (with Centre for Continuing Education) (two or three p.a.)
- Annual \$500 Student Essay Prize
- E-mail Newsletter (monthly, 600+ subscribers)

4. Staff

HRI administrative assistant (one-quarter time)

5. Accomplishments

In the past five years the HRI:

- Has granted 28 research awards, 10 teaching fellowships, given awards to bring in 28 visiting speakers at U of R conferences and symposia, supported 18 U of R conferences, supported 6 Visiting Research Fellows, awarded subventions to aid the publication of 31 books, films and CDs, and assisted in funding the travel costs of 16 elected board members to attend board meetings of scholarly organizations, and of 38 students to present papers at refereed humanities conferences.
- Has hosted or co-hosted lectures and seminars on campus by Michael Ignatieff, Gwynne Dyer, Romeo Dallaire, Linda Hutcheon, Margaret Macmillan, Nelofer Pazira, Biruto Galdikas, and many other notable guest speakers.
- Has helped to disseminate the scholarship of 23 of the leading humanities scholars at the U of R by hosting talks, book launches, and receptions, and publicizing these events online and in the community.

6. Priorities for 2009-2010

- The HRI will aim to promote a research culture amongst humanities researchers at the U of Regina that includes applying for and obtaining external funding.
- The HRI aims to establish a fundraising campaign in the Fall of 2009 to support and grow its programs and offerings. It is expected that the Office of External Relations will be an important ally in the development of this campaign.
- The HRI will aim to increase its collaboration and partnerships with strategic provincial and federal government organizations, such as the Saskatchewan Arts Board, the City of Regina, and the Canada Council. In addition, the HRI will seek to establish relationships with corporations and other entities in order to expose U of Regina humanities work to a broader audience as well as to benefit from sponsorship and promotional opportunities that the business community offers.

Prairie Adaptation Research Collaborative (PARC-UR)

1. Leadership

Executive Director: Dr. Norm Henderson

2. Roles and Responsibilities

PARC-UR is mandated to be the focal point in the Prairie Provinces for the administration, undertaking, facilitating and dissemination of research related to climate change impacts on the Prairie Provinces, and to aid in the development and dissemination of adaptation options to deal with these impacts. PARC-UR publishes research, maintains an active website, organises and participates in workshops, and is a first point of call for many public media. PARC-UR liaises with many external stakeholders, including the governments of Canada, Alberta, Saskatchewan, and Manitoba, as well as entities such as Manitoba Hydro, forestry companies, First Nations, and rural and urban municipalities. PARC-UR also has a mandate to train new highly qualified personnel in the emerging science of impacts and adaptation.

3. Programs

- Scholarship program for graduate students in impacts and adaptation science
- Grant program for impacts and adaptation research
- Extensive research program, with a current focus on climate scenarios, impacts and adaptation in water systems, and impacts and adaptation in forest systems and the forest / grassland ecotone
- Development of a web-based Saskatchewan climate change adaptation tool
- Extensive project hosting program
- Extensive dissemination program, including the *Summary Documents* series of publications on key impacts and adaptation issues, and an active website
- Training of graduate students and interns
- Conferences, workshops, media engagement program

4. Staff

Dr. David Sauchyn, Research Coordinator and Principal Scientist
Ted Morris, Project Manager
Bonnie Pfeifer, Office Manager (40% time)

5. Accomplishments

PARC-UR created and released *Climate Change Impacts on Canada's Prairie Provinces: A Summary of our State of Knowledge*. The summary document was individually distributed to all Prairie Provinces MPs, MLAs, DMs, mayors, city managers, and to a wide range of stakeholders. This document set the scene for future climate change impacts adaptation in the Prairie Provinces. Building on this, PARC-UR organized and researched two major 2008-09 studies specific to Saskatchewan's needs:

Climate Scenarios for Saskatchewan (131pp)

Saskatchewan's Natural Capital in a Changing Climate: an assessment of impacts and adaptation (162pp)

In the 2008-09 fiscal the federal government (Natural Resources Canada) announced its intention to return to re-fund climate change impacts and adaptation research in Canada, by

funding Regional Adaptation Collaboratives. On behalf of and in cooperation with the governments of the three Prairie Provinces, PARC-UR submitted an LOI to Natural Resources Canada proposing that the proposed Prairies Regional Adaptation Collaborative be housed and managed out of PARC-UR. The LOI was successful, and PARC-UR is now putting together a complete proposal, in close partnership with the three Prairie Provinces governments. The process is now “non-competitive” and we expect to see a three-year contribution agreement signed with NRCan sometime in August 2009. This would involve a \$4,000,000 contribution from NRCan, with the great majority of the moneys remaining in Saskatchewan for the advancement of impacts and adaptation work.

Other significant 2008-09 accomplishments include:

- *Saskatchewan Climate Change Impacts and Potential Adaptations*, a report on the likely costs and benefits of current and future climate impacts in the Province, prepared for Saskatchewan Environment
- An extensive Prairies hydro-climate workshop
- An interim report including Climate Range Maps for native and non-native trees and comparative growth rates of native and non-native species
- Continued development of the Saskatchewan climate change adaptation web tool
- Summary document: *Protected Area Policies and Climate Change: the case of the Prairie Ecozone, Saskatchewan*
- Summary document: *Exotic Tree Species as an Adaptation Option to Climate Change in the Western Canadian Boreal Forest*

6. Priorities for 2009-2010

- Two annual funding competitions in up to seven programs (Spring and Fall).
- Develop and launch Saskatchewan climate change impacts and adaptation web tool.
- Launch the Prairies Regional Adaptation Collaborative (in partnership with the three Prairie Provinces governments).
- Undertake and deliver key climate change scenarios work, particularly on the question of climate variability and extreme events.
- If the funding application successful, launch of the Prairies Centre of Excellence (housed at PARC-UR) of the Canadian Water Security and Community Solutions Network.
- Engagement Opportunities:
 - PARC-UR is heavily engaged with governments, including the Saskatchewan provincial government, on an on-going basis. PARC-UR negotiates and agrees on impacts and adaptation work plans with Alberta, Saskatchewan and Canada on an annual basis, and primary funding to meet these work plans comes from government.
 - From PARC-UR’s perspective, the key desirable is multi-year funding agreements, as these provide much greater stability and the opportunity to complete larger and on-going projects.
 - Currently Saskatchewan lacks a research and policy centre encompassing both impacts and adaptation issues, and greenhouse gas mitigation issues. As mitigation issues and options will be a billion-dollar issue for the province for many years to come, the lack of an outside of government body examining the options for Saskatchewan is an opportunity that PARC-UR and the University would be pleased to explore.

Prairie Particle Physics (P³I)

1. Leadership

Director: Dr. George Lolos

2. Roles and Responsibilities

P³I serves to focus and organize, to enhance and expand the research activities and reputation of the particle physics research of the Department of Physics at the University of Regina, while maintaining a certain autonomy of action and planning and assuming a separate resource management structure from that of the Department to better allow it to respond to new opportunities and changing demands. A key goal is to provide education and training for highly qualified personnel: students and postdoctoral fellows.

3. Programs

- The GlueX Project
- Regional particle physics

4. Staff

Research Scientist Hardware.

Research Scientist Software.

Part-time Secretary.

5. Accomplishments

The members of P³I were active in publishing and actively promoting the field of SAP according to the institute's objectives. The number of publications in refereed journals appearing in 2008 with authors/co-authors members of P³I was eight and a significant number of technical reports were also completed. Specifically, Dr. Papandreou gave a series of seminars at the UofA, the UofS and UofC on the topic of particle physics. Dr. Huber served as a member of the NSERC GSC19 and Dr. Lolos served as the external examiner to a Ph.D. thesis defence at the UofA and also presented a seminar there on particle physics.

The close contacts and scientific collaboration with the members of the Centre for Particle Physics (CPP) at the UofA have been further enhanced with the partnership in the construction of the BCAL for the GlueX experiment at JLab. This has provided a renewed impetus to form the nucleus of a regional particle physics institute, one of the main reasons for the formation of P³I.

6. Priorities for 2009-2010

- Expansion of the P³I to include ATLAS members in order to enhance the research base and open new opportunities for collaboration with other university based institutes and IPP.
- A major project (GlueX) has been approved for construction funding by the U.S. and GlueX-Canada consists of UofR and UofA faculty and researchers and it's a significant part of P³I membership and activity. The UofA administration has shown very strong interest in providing space and resources for the construction of the BCAL, a key and major detector component of GlueX, and for using this close research collaboration

between UofR and UofA groups in GlueX to renew the effort to form the core of a regional particle physics institute.

- P³I plans to host one distinguished speaker in 2009 on a topic of interest to P³I's mandate.