



Reveal

Northern Research in Action





Since Yukon College's inception in 1983, research has played a leading role in advancing its academic excellence. *Reveal* features the College's current and most prominent research programs and projects.

In cooperation with the Yukon Government and the Council of Yukon First Nations, the College is working to expand its research activities, specifically in areas related to climate change. In order to increase research funding opportunities, the College is working towards full Tri-Council eligibility and working with other national and international academic partners.

Reveal celebrates our continued growth towards excellence.

Dr. Terry Weninger
President, Yukon College

Northern Research Institute

Much of the research undertaken at Yukon College is supported by the Northern Research Institute (NRI) — the College's main research division. Establishing the NRI in 1992 allowed the College to formalize its institutional commitment to research. The Institute was conceived as a northern centre to promote, coordinate and undertake research activities that complement the College's goal to pursue excellence in all areas of Yukon and Northern Studies.

Several research entities exist under the umbrella of the Northern Research Institute, including: the Northern Climate ExChange, the Social Economy Research Network of Northern Canada and the Yukon Technology and Innovation Centre.

Northern Climate ExChange

The Northern Climate ExChange (NCE) was established in February 2000 to provide a credible independent source of information, develop shared understanding and promote action on climate change in northern Canada. NCE's mandate is to promote increased understanding of, and appropriate responses to, climate change.

NCE has initiated a community-based adaptation project that will assist three Yukon communities over the next 5 years in developing climate change adaptation plans and projects. NCE's adaptation planning will be integrated with an International Polar Year (IPY) project studying the vulnerability of Dawson City to a range of factors, including climate change.

NCE is also assisting researchers from the University of British Columbia on a similar IPY project in Whitehorse.

Jen Turner

Coordinator, Northern Climate ExChange, Yukon College
t: 867 668 8862 email: jturner@yukoncollege.yk.ca
www.taiga.net/nce

Social Economy Research Network of Northern Canada

The Social Economy Research Network of Northern Canada (SERNNNoCa) is part of a national research program funded by the Social Sciences and Humanities Research Council of Canada (SSHRC) involving six regional networks and a national centre and facilitator.

SERNNNoCa serves as the social economy research sector for Northern Canada. It is built around the three northern territorial colleges and their respective research institutions/departments. The main objective of the program is to create a network of university and college-based researchers and community-based organizations to conduct research relevant to the social economy in northern Canada. In addition to research seeking to conceptualize and inventory the social economy in the North, the network will investigate the particular relationships that exist between social economy and indigenous cultures, resource regimes, and the state.

Valoree Walker

Coordinator, Social Economy Research Network of Northern Canada (SERNNNoCa), Yukon College
t: 867 668 8857 email: vwalker@yukoncollege.yk.ca
<http://dl1.yukoncollege.yk.ca/sernnoca>

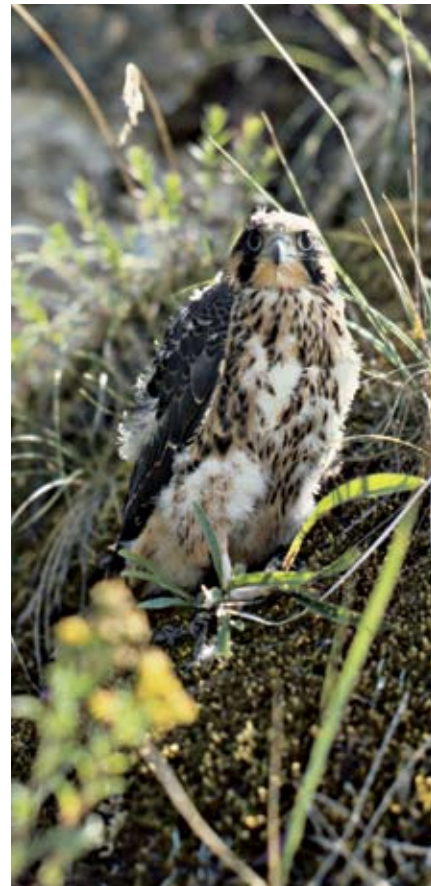
Yukon Technology Innovation Centre

The Yukon Technology Innovation Centre (YTIC) was established in 1999 to encourage the development of innovative technology applications and technology-based employment in the Yukon. YTIC promotes and stimulates innovative technology applications for the benefit of Yukon Society and economy in partnership with Yukon based educators, research bodies, entrepreneurs, and governments. Through this partnership, YTIC is able to offer a value-added matrix of information and financial resources. There are currently five new projects in process for 2008 which add to the total of 37 completed projects since 2000.

Richard Steele

Technology Innovation Officer
t: 867 668 8792 email: ytic@yukoncollege.yk.ca





Arctic Wildlife Observatories Linking Vulnerable EcoSystems (WOLVES)

The goal of this international collaboration is to examine the links between climate change and basic ecosystem functions at a variety of sites across the Arctic. The first step is to assemble a working model of how energy moves through tundra food chains from primary producers to herbivores (e.g. lemmings) and eventually carnivores (e.g. fox, least weasels, snowy owls). This detailed work will help reveal the direct and indirect impacts of climate change on terrestrial animal biodiversity (e.g. birds, mammals and insects).

A large number of collaborators are involved in the Yukon work led by conservation biologist Don Reid and UBC Emeritus Professor Charles Krebs, including two members of Yukon College, listed below. This three year project studies animals along the Yukon North Slope (ptarmigan, raptors and lemmings.)

Scott Gilbert

Coordinator/ Instructor

Renewable Resources Management Program, Yukon College
t: 867 668 8776 email: sgilbert@yukoncollege.yk.ca

Dave Mossop

Biology Instructor/ Biodiversity Research, Yukon College
t: 867 668 8736 email: dmossop@yukoncollege.yk.ca

CircumArctic Rangifer Monitoring and Assessment Network (CARMA)

CARMA is an international and multi-disciplinary network whose mission is to monitor and assess the impacts of global change on the world's wild reindeer and caribou herds.

Through the support of International Polar Year, much of the CARMA Network monitoring activity over the next 3 years will be focused on health and body condition, population trends, and habitat changes of caribou in selected herds across the North.

The CARMA Network will be focusing on herds for which sound baseline data has been collected. CARMA will partner with institutes, agencies, councils and boards committed to cooperate and collect more information in the future.

Don Russell

Research Associate, Yukon College

Scientist Emeritus, Environment Canada

t: 867 456 2695 email: don.russell@ec.gc.ca

Biodiversity Assessment and Monitoring Partnership

Yukon College has been a leader in biodiversity assessment and monitoring of Yukon bird species for over a decade. The partnership between the College and the Yukon Government recognizes how comprehensive population and ecosystem data are critical to the management of bird populations. Yukon College provides this data to the Yukon Government to assist with wildlife management—Yukon's contribution to the Canadian Biodiversity Strategy since 1992.

Field research is largely performed by students at Yukon College under the supervision of Dave Mossop, the 2008 recipient of the Yukon's Biodiversity Awareness Award. This project also coordinates the Biodiversity Working Group (BWG) that organizes two annual public meetings designed to bring public attention to current research. Abstracts of ongoing research and an annual summary report are published regularly.

Dave Mossop

Biology Instructor/ Biodiversity Research, Yukon College
t: 867 668 8736 email: dmossop@yukoncollege.yk.ca

Biodiversity Monitoring Protocols for the Yukon Wildlife Preserve

This project has established a suite of environmental monitoring protocols and stations at the Yukon Wildlife Preserve near Whitehorse. These efforts serve to create long-term databases to monitor the progress of various indicator species on site.

Kawina Robichaud

Research Associate, Yukon College
t: 867 333-9243 email: kiwienfers@hotmail.com



McIntyre Creek Salmon Incubation Project

The McIntyre Creek Salmon Incubation Project has provided research, education and management of Chinook salmon since 2002. This site is operated by the Northern Research Institute with the assistance of Yukon College Renewable Resource Management students who work closely with Fisheries and Oceans Canada and other partner organizations. The hatchery hosts a variety of public events and is involved in the development and testing of a variety of techniques used in hatchery programs.

Clint Sawicki

Coordinator, Northern Research Institute, Yukon College
t: 867 668 8772 email: csawicki@yukoncollege.yk.ca



Scottie Creek Culture History Project

The Beringian landscape of the Yukon-Alaska borderlands contains some of the earliest archaeological sites of the Americas. The Little John archaeological site contains a rich assemblage of artifacts and fauna representing aboriginal occupation from the most recent historic past to the late Pleistocene, about 14,000 years ago.

Working in collaboration with the White River First Nation of Beaver Creek since 1992, this project has integrated archaeology, ethnohistory, linguistics, and ethnography to better understand the social and cultural history of the Upper Tanana Athapaskans of the Yukon-Alaska borderland.

In April 2008 Yukon College was granted SSHRC eligibility status. The first SSHRC grant received by the College was for Norm Easton's research. The \$40,000 grant will facilitate the continued research in the Upper Tanana River basin tributaries of Mirror and Scottie Creeks and the Chisana and Nabesna Rivers.

Norman Alexander Easton

Instructor, Anthropology and Northern Studies,
Yukon College
t: 867 393 8012 email: northeaston@gmail.com

Yukon Bat Research

Yukon College, through the Northern Research Institute, has supported extensive research on bats in the Yukon Territory since 1997. The primary objective of this project is to determine bat species diversity and distribution in the Yukon as well as investigate their biological and ecological requirements.

Brian Slough

Independent Researcher, Consultant
t: 867 668 3295
email: slough@northwestel.net



Yukon College Scholar in Residence — Doug Clark

Dr. Doug Clark was appointed Scholar-in-Residence at Yukon College in 2008. Clark is currently a post-doctoral fellow in the University of Alberta's Department of Renewable Resources and is visiting the college under a research focused MOU between the University of Alberta and Yukon College. He is also a Research Affiliate at the Yale School of Forestry and Environmental Studies. Clark's research interests include policy processes and governance for wildlife and protected areas.

Dr. Clark's research focuses on co-management and decision-making processes for northern wildlife such as grizzly bears, polar bears, and bison.

He is also assisting with the development of new courses at Yukon College which may lead to the creation of a bachelor's degree program in Environmental Studies.

Doug Clark

Scholar-in-Residence, Yukon College
Research Affiliate at the Yale School of Forestry and
Environmental Studies,
Postdoctoral Fellow, University of Alberta's Department
of Renewable Resources
t: 867 668 8711 email: dclark@yukoncollege.yk.ca



Yukon Council History Project

A history of the Yukon Legislative Assembly will be published in 2009 to commemorate the 100th anniversary of the first wholly elected Yukon Council, as a jointly sponsored project between the Yukon Legislative Assembly and Yukon College. The research will include oral histories with key contributors to the development of the Assembly, and brief biographies of all the members from the past hundred years.

Linda Johnson

Director of Archives, Records Management and Library Services, Yukon College
t: 867 668 8806 email: ljohnson@yukoncollege.yk.ca

The Northern Review



The Northern Review is the only peer-reviewed journal in Canada devoted exclusively to northern issues and published "North of 60."

Watch for the Summer 2008 edition, focused on NRI research.

email: review@yukoncollege.yk.ca
www.yukoncollege.yk.ca/review

Aboriginal Knowledge Exchange Project

The Aboriginal Knowledge Exchange Project will examine the innovative academic and cultural aspects of the Aboriginal Teacher Education Program (ATEP) in Saskatchewan, British Columbia and the three territories. This research project is based out of the Saskatchewan Instructional Development and Research Unit with the University of Regina.

The purpose of this project is to establish a network of continued communication within the community of teacher education programs. Through self study, each ATEP participant will examine how aboriginal ways of knowing are understood and reflected in their courses, programs and practices. Goals for future cultural programming will be explored, as well as how student successes are supported.

The results of these self studies will be presented at a Symposium in the spring of 2008. This event will allow for ATEP participants to interact, exchange knowledge and build relationships. Further support and collaboration will take place through an interactive website that will be developed by the completion of this project.

Lori Eastmure

Coordinator, Yukon Native Teacher Education Program, Yukon College,
Research Associate, Aboriginal Knowledge Exchange Project
t: 867 668 8833 email: leastmure@yukoncollege.yk.ca

Research Funders

Association of Canadian Universities for Northern Studies
Canadian Parks and Wilderness Society, Yukon Chapter
Canadian Wildlife Service, Whitehorse
Dawson District Renewable Resource Council
Dorothy Cooley and the Qikiqtaruk Territorial Park Rangers
Environment Canada
Fisheries and Oceans Canada
Friends of the Dempster Country
Government of British Columbia
Indian and Northern Affairs Canada
International Polar Year
National Science Foundation
Natural Resources Canada
Oceans Management Research Network
Saskatchewan Instructional Research Unit, University of Regina
Selwyn Resources LTD.
Social Sciences and Humanities Research Council of Canada
Ta'an Kwach'an First Nation
Teslin Resource Council
University of Alaska, Fairbanks
University of Alberta
University of Calgary
White River First Nation
Yale School of Forestry and Environmental Studies
Yukon River Panel
Yukon Territorial Government



500 College Drive P.O. Box 2799
Whitehorse, Yukon Canada Y1A 5K4
1 867 668 8800
www.yukoncollege.yk.ca

Spring 2008

Printed on 100% post-consumer fibre. Chlorine free.