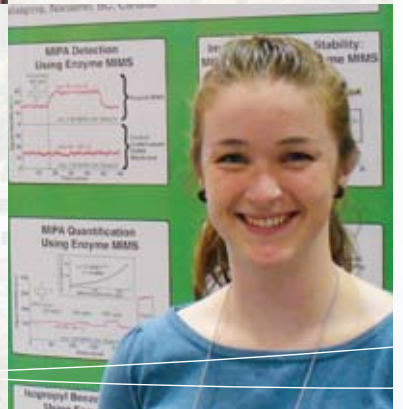
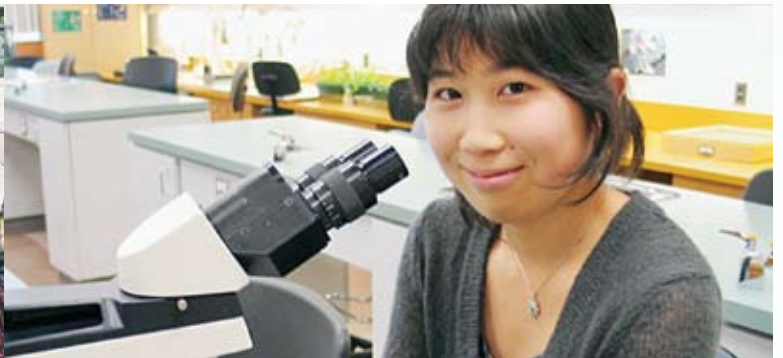


# Research & Scholarly Activity

2006-07  
mala.ca



MALASPINA  
UNIVERSITY-COLLEGE



Canada Foundation for Innovation  
Fondation canadienne pour l'innovation

**British Columbia Knowledge  
Development Fund**



## Malaspina University-College Key Funding Sources

Malaspina University-College faculty and students could not participate as actively as we do in research and scholarly activity without the support of our research grant funding agencies. We would like to publicly thank and acknowledge their continued support. Following are some of the key government groups which have funded projects in this fiscal year.

### BC Ministry of Agriculture and Lands

The Ministry is committed to providing the business climate for a competitive and profitable industry providing safe, high quality food for consumers and export markets.  
[www.gov.bc.ca/al](http://www.gov.bc.ca/al)

### AquaNet

AquaNet is one of 21 Network Centres of Excellence (NCE), Canada's science and technology program to mobilize Canada's research talent in universities, industry and government to create new economy jobs, stimulate growth and improve the quality of life for Canadians.  
[www.aquanet.ca](http://www.aquanet.ca)

### NSERC – Natural Sciences and Engineering Research Council

NSERC is the national instrument for making strategic investments in Canada's capability in science and technology. NSERC supports both basic university research through discovery grants and project research through partnerships among universities, governments and the private sector, as well as the advanced training of highly qualified people.  
[www.nserc-crsng.gc.ca](http://www.nserc-crsng.gc.ca)

### SSHRC – Social Sciences and Humanities Research Council

The Social Sciences and Humanities Research Council of Canada (SSHRC) is an arm's-length federal agency that promotes and supports university-based research and training in the social sciences and humanities. SSHRC-funded research fuels innovative thinking about real-life issues.  
[www.sshrc-crsh.gc.ca](http://www.sshrc-crsh.gc.ca)

### CIHR – Canadian Institutes of Health Research

CIHR's mandate is "To excel, according to internationally accepted standards of scientific excellence, in the creation of new knowledge and its translation into improved health for Canadians, more effective health services and products and a strengthened Canadian health care system."  
[www.cihr-irsc.gc.ca](http://www.cihr-irsc.gc.ca)

### CFI – Canada Foundation for Innovation

The Canada Foundation for Innovation (CFI) is an independent corporation created by the Government of Canada to fund research infrastructure. The CFI's mandate is to strengthen the capacity of Canadian universities, colleges, research hospitals and non-profit research institutions to carry out world-class research and technology development that benefits Canadians.  
[www.innovation.ca](http://www.innovation.ca)

### BCKDF – British Columbia Knowledge Development Fund

The British Columbia Knowledge Development Fund (BCKDF) permits public post-secondary institutions, teaching hospitals and affiliated non-profit research agencies to invest in research infrastructure.  
[www.aved.gov.bc.ca/research/bckdf](http://www.aved.gov.bc.ca/research/bckdf)

### BC Innovation Council

BCIC expands innovation by providing a one-stop point of access and support to high technology companies, educational institutions, technology industry awareness groups, federal science and technology agencies and university research labs.  
[www.bcinnovationcouncil.com](http://www.bcinnovationcouncil.com)

### CRC - Canada Research Chairs

The Canada Research Chairs Program is at the central to a national strategy to make Canada one of the world's top countries for research and development. In 2000, the Government of Canada created a new permanent program to establish 2,000 research professorships.  
[www.chairs.gc.ca](http://www.chairs.gc.ca)



# Message from Dr. Ralph Nilson, President



I am pleased to provide you with Malaspina’s 2006-2007 Annual Research Report. This report describes the dynamic and exciting research activities being undertaken at Malaspina University-College by our faculty and students.

As the new President of Malaspina, I am amazed at what we have achieved in the area of research and innovation under the leadership of now retired Vice President, Academic, Dr. David Thomas. It is my aim to continue to foster an innovative environment that supports research and discovery at Malaspina.

I am pleased to welcome and introduce you to Dr. Leslie King, our new Vice President, Academic, who will build upon the good work done by Dr. Thomas.

At Malaspina, students are our number one priority. I believe the student experience and overall quality of learning is enhanced through research and discovery. In the years ahead, Malaspina’s growing research capacity will better prepare our students to work in their field of study.

Malaspina is committed to supporting research of the highest national and international standards. We contribute to development in our region and around the world by encouraging integrated research and exploration that focuses on our regional and global economies.

Thank you for taking the time to review this publication. If you would like more information on research activities at Malaspina, please contact our research office at 250.740.6196.

**Ralph Nilson, Ph.D.**  
**President and CEO**  
**Malaspina University-College**

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# Message from Vice-President, Academic Dr. Leslie King

I am pleased to have this opportunity to congratulate Dr. David Thomas on both his retirement from the position of Vice-President Academic at Malaspina, and on the success achieved under his leadership in advancing the research and scholarly activity function at Malaspina.

As the incoming Vice-President Academic, I am indeed fortunate to have been given the opportunity to continue the work started by Dr. Thomas and the energetic team of professionals at Malaspina.

When I reviewed the successes profiled in this publication, I was truly astounded at what Malaspina has accomplished in the area of research and scholarly activity over the past twelve months. It is clear that the funds received by agencies and the investment made by the institution into research and scholarly endeavors were dollars well spent. It is also apparent that strong and vital connections have been forged between Malaspina's faculty and students, and communities, social agencies, business, industry, and government groups.

The need to support economic and social growth through research and innovation has never been more important. The forces driving change in our global economies are ideas, knowledge and innovation. It is these factors that will continue to influence and direct the research environment at Malaspina.

The accomplishments by Malaspina students and faculty in the area of aquaculture are outstanding and represent some of the best research findings in the country. Additionally, projects undertaken in the areas of psychology, human and animal health, geochemistry, teaching, environmental research, biology, physical education, and many other fields have positioned Malaspina as research leaders in our region and the province.

I would like to thank both our students and faculty for the work that has been done on Malaspina's behalf. It is through their efforts and ingenuity that Malaspina's research profile will continue to grow.

This is an exciting time, and I am honoured to be joining the Malaspina team. I look forward to many exciting and rewarding years ahead working with students, faculty, staff, and administrators at Malaspina.

Congratulations to all of those who have played a part in our research success over the past year.

**Leslie King, Ph.D.**  
**Vice-President, Academic**  
**Malaspina University-College**



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## On Research and Scholarly Activity



As Malaspina transitions from a university-college towards full university designation, efforts are underway to build the institution's research capacity.

"We're adding new space and equipment, establishing new centres and research institutes and hiring key people," said Liz Hammond-Kaarremaa, Director of Research Services. "A lot of the work in these foundational areas completed over the past seven years is now starting to come to fruition."

In terms of space and equipment, key facilities to support research are now established, said Hammond-Kaarremaa. Facilities funded by the Canada Foundation for Innovation and the BC Knowledge Development Fund include the Centre for Shellfish Research on the Nanaimo campus and the Deep Bay Field Site, the Institute for Coastal Research lounge, project room and meeting rooms, the Centre for Digitization for Humanities Innovation, the Research and Scholarly Activity office, and a suite of research offices. In addition, there is designated research space in Malaspina's new Faculty of Management building, and approval to start construction of the International Centre for Sturgeon Studies and the Centre for Coastal Health.

Opportunities for faculty to engage in interdisciplinary research has grown steadily with the creation of new research centres and institutes.

"This past year has been our fifth year of funding from the Social Sciences and Humanities Research Council to support the creation of the Institute for Coastal Research, and continued support for the Alexandro Malaspina Research Centre, the Centre for Digitization for Humanities Innovation, and the Centre for the Scholarship of Teaching and Learning," said Hammond-Kaarremaa.

To top this off, Malaspina has made tremendous progress this past year towards investing in people to lead research teams. Dr. Grant Murray joined Malaspina as the

Canada Research Chair in Coastal Resource Management. Working closely with the Institute for Coastal Research, Dr. Murray has already started to meet with coastal communities, and faculty and students from a wide range of disciplines.

This past year also brought Malaspina closer to its first research-related endowment, which will go towards funding a chair in Early Aboriginal Childhood Development. We'll be recruiting a nominee for this position," said Hammond-Kaarremaa. "We also received our first major funding of \$250,000 towards our \$1.25 million goal to fund the Endowed Chair for Tourism and Sustainable Rural Development."

Hammond-Kaarremaa also noted that this year brought an exciting project to Malaspina: the Carnegie Academy for the Scholarship of Teaching and Learning (CASTL), led by Nancy Randall and a team of faculty. "This will help us develop undergraduate research that contributes to the quality learning experience at Malaspina," she said.

Hammond-Kaarremaa pointed out several highlights of undergraduate research in the past year which involved over 20 students. This included the Psychology department, where students from one lab were involved with research, the production of two publications and seven conference presentations.

Other examples include students in Biology, Physical Education, Tourism Management, Liberal Studies, Media Studies and Chemistry who completed major research projects, many of which were showcased at year-end research symposiums.

"We are moving into a new phase of research activity," said Hammond-Kaarremaa. "The solid foundation we've established will serve as building blocks for future research under the leadership of our new President Dr. Ralph Nilson and our new Vice-President Academic, Dr. Leslie King. We're looking forward to another exciting year of new developments at Malaspina!"

## First Nations students dive into shellfish aquaculture

First Nations students will have the opportunity to learn about shellfish aquaculture in Malaspina University-College's new shellfish aquaculture training program.

This certificate program provides shellfish aquaculture education and training for students hoping to work as production/farm labourers, technicians, crew supervisors and farm managers, and consists of 16 courses ranging from beach management to business management. While the emphasis on enrolment for this program is First Nations students, it is open to anyone interested in shellfish aquaculture training.

"There is no other formal training of this kind in the province," said Koren Bear, Malaspina's shellfish aquaculture program manager. "This program is very helpful for people who want to learn how to manage farms in a sustainable manner. We will be teaching students how to keep the shellfish aquaculture industry productive and healthy for years to come. Until now, the industry had to rely on consultants for training, so we are proud to make this program available and create such an opportunity for students."

This comprehensive training program emphasizes practical knowledge and skills development. With so much potential growth in the industry and so few training opportunities, this program has come just at the right time for First Nations groups, who are already heavily involved in the industry.

"There are almost 500 farms that harvest clams along the BC coast," said Randy Fred, who works in capacity building and economic development with Uu-a-thluk, a group dedicated to protecting natural resources while building an increasingly strong Nuu-chah-nulth culture. "Knowing how to efficiently manage shellfish farms is necessary for the survival of the industry, which has changed so much because of different factors like government regulations. This new program meets the needs that have been created by those changes."

More than 35 First Nations groups in British Columbia are already involved in, or are planning, shellfish aquaculture businesses. Initial interest in the training program is coast-wide from Sooke in the south to Prince Rupert in the north.

The economic and job creation potential for shellfish aquaculture as an activity supporting revitalization of coastal communities has been well documented. Most recently, the Central and North Coast Shellfish Aquaculture Development Initiative (2003) indicated the potential for 282 jobs with an annual payroll of \$7.5 million over a 5-10 year period. This study specifically identified the training program at Malaspina as essential to this outcome.

"We need a sustainable, environmentally-friendly industry," said Fred. "This program will teach people how to do things properly and how not to deplete the resources and the surrounding environment. In order to compete in the global marketplace, we need to have quality training that teaches sustainability and increased production. This program is a step in that direction."

In the past, studies have calculated that shellfish aquaculture has the potential to become a \$100 million industry that could create over 1,000 new jobs. The employment potential of sustainable shellfish aquaculture represents a significant opportunity to address North Coast First Nations' unemployment, which averages 60 percent.

Shellfish aquaculture provides permanent, year-round employment in rural and coastal areas where jobs are scarce and the percentage of displaced workers is high. Malaspina will work with First Nations groups to accommodate any educational needs that are required outside of the current shellfish aquaculture curriculum, including business training, management skills and strategic planning.



*Malaspina's shellfish aquaculture training manager – Koren Bear*

**"This program is very helpful for people who want to learn how to manage farms in a sustainable manner. We will be teaching student how to keep the shellfish aquaculture industry productive and healthy for years to come"**

## Malaspina leads national aquaculture initiative

Ten post-secondary education students – including five from Malaspina – are scouring the internet and mapping the virtual terrain of information about aquaculture.

The student researchers are collecting information for AquaPort, a unique Canada-wide initiative led by Dr. Tim DeJager, an adjunct professor in Malaspina's Fisheries and Aquaculture program.

"AquaPort will be a one-stop, web-based portal of information covering anything and everything about aquaculture," explained DeJager. "It will be a terrific resource for fish farmers, environmentalists, community groups, government policy makers, scientists, students, professors and basically anyone who wants information on aquaculture."

The idea for AquaPort was born two years ago when a national team of researchers, including DeJager, conducted a needs assessment for the BC Innovation Council and Fisheries and Oceans Canada. They identified "significant gaps" in the way information about aquaculture is shared and transferred.

**"AquaPort will be a one-stop, web-based portal of information covering anything and everything about aquaculture."**

"Online information about aquaculture is scattered in incoherent pockets," said DeJager. The question is: how do we move and transfer knowledge and information most efficiently amongst those who really need it?"

DeJager's research team secured \$300,000 in seed money from AquaNet, one of Canada's Network of Centres of Excellence in aquaculture, to develop the content side of AquaPort. Student researchers were hired at

Malaspina, the University of Victoria, University of Regina, University of Guelph, University of Quebec at Rimouski, Memorial University in Newfoundland and University of New Brunswick in October 2006 to begin collecting information.

"The students have sifted through thousands of online magazines, articles, newsletters, newspapers, government reports, websites, journals, etc. searching for relevant information about aquaculture," explained DeJager. "This effort not only brings the information to light, but also shows us where it is on the web, effectively allowing us to map the terrain and develop a dedicated aquaculture search engine."

A web-based portal such as AquaPort will disseminate and integrate information to the people who need it in a timely manner. For example, an oyster farmer in Malaspina Inlet could access up-to-date and accurate information about the industry without leaving his home. The mayor of a small west coast community could use AquaPort to assess whether the growth of the shellfish industry is economically or socially viable for her community.

"Under normal circumstances, the mayor would have to call many people, or visit 50 different websites and conduct her own research to find answers," said DeJager. "It would be a time-consuming and long, drawn out process because she's living in an isolated community. With AquaPort, she'll have immediate access to the latest economic, biological and social science studies right at her fingertips."

DeJager said one of the biggest challenges with the project is keeping up with emerging Internet technologies. "AquaPort is meant to

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last many years, so the structure of the site must be flexible to accommodate new ways of exchanging information,” he said.

AquaPort is a suite of web tools to enable multiple stakeholder groups in the Canadian aquaculture sector to access, create and share purposeful information in digital formats. These tools are to be integrated into a web-based “service platform” that will help users to get the information they need when they need it, then to use, re-use and share it.

“AquaPort will be able to deliver customized information to the user’s desktop or handheld computer. It will enable people to contribute and share information online, and create opportunities for people to interact and collaborate,” DeJager added.

The AquaPort team is working with researchers and educators to create effective online material such as workshop, conference, or seminar webcasts (“webinars”) and video-based learning “bites” from projects. Malaspina student, Ye Zhao, has been working with the project this summer to develop these techniques.

The development of AquaPort fits in well with the mandate of Malaspina’s Institute for Coastal Research (ICR), said Bill Pennell, Acting Director of the ICR and principal investigator for AquaPort.

“AquaPort is interdisciplinary in nature and has created many exciting opportunities for faculty and students,” added Pennell. “The project raises the national profile of the ICR and connects Malaspina to other institutions around the world.”

“The team covers the social, economic, technical and scientific side of aquaculture,” said DeJager. “These are all scientists and researchers who are very keen in promoting knowledge transfer.”

Other Malaspina faculty involved in the project include Dr. Rick Rollins (Tourism and Recreation), Barbara Thomas (Management) and Dr. Duane Barker (Fisheries and Aquaculture). The five Malaspina students are Amy Hoare and Chris Presslauer, both from Fisheries and Aquaculture, Catherine Han and Julie Woo, Master’s of Business Administration students, and Ye Zhao, Bachelor of Business Administration.

Two workshops have already been held at the Nanaimo campus to discuss knowledge mobilization and web transfer, with more sessions planned this coming year. The team is now working on development of the integrated web tools that will power AquaPort, with plans to launch the site by spring 2008.



*Fisheries and Aquaculture students Amy Hoare and Chris Presslauer assisted with the AquaPort project.*

## Deep Bay Field Station takes shellfish research into the future



*Brian Kingzett, Field Station Manager of the Deep Bay Facility, believes the new site will provide a unique training opportunity for students.*

**“We want to showcase responsible development while providing leading-edge research opportunities.”**

Malaspina University-College’s Deep Bay shellfish field station will set the pace for the future of aquaculture research facilities.

The Centre for Shellfish Research (CSR), established in 2002, is building an off-campus research and training field site in Deep Bay, BC to complement the existing 12,000 square foot research facility at the Nanaimo campus.

“We want to showcase responsible development while providing leading-edge research opportunities,” said Brian Kingzett, Field Station Manager for the Deep Bay site. “This facility will be unique, with the nearest similar facility being on the east coast of North America.”

The new training site will include an upland seawater tank farm, laboratory and demonstration shellfish farm, and it will act as a combination research facility for shellfish aquaculture, marine ecology and water quality studies.

The facility is located at the southern end of Baynes Sound, the body of water between Vancouver Island and Denman Island, in the small community of Deep Bay. Baynes Sound is the source of almost half of all the shellfish produced in British Columbia. The current timeline should see the Deep Bay site up and running by 2008.

“Shellfish aquaculture (which includes oysters, mussels, scallops and clam species) is important to BC because it occurs in rural coastal communities and provides local jobs,” said Kingzett. “It also provides economic opportunities for coastal First Nations in their traditional territories, has a wholesale value of approximately \$32 million and is dependant on a healthy, pristine marine environment, thus providing environmental sustainability. BC only accounts for a fraction of a percentage point of global production, but with our large pristine coastline, this industry has the potential to be a significant economic driver.”

The Deep Bay facility, which is situated on seven acres of donated waterfront property, is being constructed adjacent to the most productive shellfish growing area in the province. It will also serve as a public engagement facility – somewhere to bring local school children, tourists and members of the community to provide general or targeted education programs around coastal ecology, shellfish aquaculture, coastal developments and local food options.

“The site will provide a unique opportunity for students to learn about shellfish aquaculture and marine ecology and allow the public to watch research in action and learn about coastal issues. For undergrads and graduate students, it will provide an excellent opportunity to do research in a real world environment,” said Kingzett.

“The property itself is in an estuarine ecosystem with high riparian (the green, vegetated areas on each side of streams and rivers) and wildlife values and archaeological significance,” said Kingzett. “We are constructing the site in a way that protects important habitats and minimizes any intrusion from development. We want to show that shellfish aquaculture can be productive in a very sustainable manner, so the industry can move forward in a way that is efficient, environmentally friendly and accepted within the coastal community.”

Don Tillapaugh, the Director of the Centre for Shellfish Research said, “The Deep Bay expansion helps us move from shellfish research to an interdisciplinary approach to the shellfish industry. The site will engage scientists at the CSR, as well as faculty at Malaspina.”

## Research team taps into study on groundwater quality

Population growth, rapid development, and industrial and commercial land use practices threaten the quality of drinking water on Vancouver Island.

That's why a team of researchers, including professors and students from Malaspina Chemistry, Geology and Geography departments, is devoting hundreds of hours to a multi-year study examining groundwater.

Their study, called the Vancouver Island Water Resource Vulnerability Mapping Project, is analyzing the susceptibility of water quality to hazards associated with human activities and land use. It's designed to support decision-makers in future land use planning, and the development of groundwater protection guidelines and policies.

"It's a collaborative, high profile project involving many partners, including Malaspina, the Ministry of Environment, Vancouver Island Health Authority, Natural Resources Canada, the Ministry of Health and Vancouver Island Regional Districts," said senior research assistant Regan Purdy.

According to Chemistry professor Dr. Erik Krogh, there are over 20,000 private wells that supply drinking water to individual homeowners and municipalities on Vancouver Island and the Gulf Islands.

Groundwater supplies exist in large, underground reservoirs known as aquifers, many of which were filled thousands of years ago. Once contaminated, aquifers are extremely difficult to remediate and alternate sources are often at great expense to the users.

"Our research project will provide a geographically-based predictive tool to prevent groundwater contamination by helping us to better understand the connectivity between activities on the surface and the underlying hydrology," Krogh said.

Over the next four to six years, the research team will study groundwater vulnerability on Vancouver Island with an initial focus on the regional districts of Cowichan Valley and Nanaimo. The team will acquire, compile and assess geological and hydro-geological data from a variety of public and private sources, and test and adapt mapping methodologies that are specific to Vancouver Island water resources.

The study will eventually result in intrinsic susceptibility maps for the entire Vancouver Island region using a GIS-based methodology called DRASTIC. The maps will categorize aquifers on Vancouver Island that are deemed vulnerable. "We'll have low, medium and high ratings on the map, which tell the user that a particular area is high risk for future development due to intrinsic factors associated with the underlying geology, hydrology and potential contaminants," added Purdy.

The maps and databases will provide a useful screening tool for city planners and other government decision-makers, aiding them in source protection initiatives, and providing a guide to areas that perhaps should be avoided for future development.

"We'll also identify and compile an inventory of potential hazards and sources of contamination to water resources for the region, including old gas stations and landfill sites," added Purdy. "We'll include any site where human activity is detrimental, or has been detrimental, to ground water supplies."

Malaspina faculty involved in the project include Krogh (Chemistry), Dr. Steve Earle (Geology) and Dr. Allan Gilchrist (Geography), a GIS mapping specialist.

Purdy, a graduate of Malaspina's Natural Resource Management program in June 2006, is thrilled to serve as senior research assistant for the project.



*Regan Purdy, Senior Research Assistant is part of a team of researchers studying and examining groundwater.*

**"Our research project will provide a geographically-based predictive tool to prevent groundwater contamination by helping us to better understand the connectivity between activities on the surface and the underlying hydrology."**

## Research on the road



*Dr. Grant Murray, Canada Research Chair in Coastal Resource Management*

Malaspina University-College's newest Canada Research Chair won't be just another name on a scientific report.

That's because Dr. Grant Murray, Canada Research Chair in Coastal Resource Management, plans to spend a lot of time meeting and talking to people in Vancouver Island coastal communities about environmental history.

"My research focus involves getting out there into the communities and talking to people," said Murray, who started his five-year term in January 2007.

"Science is a powerful tool, however, traditional and local knowledge and accumulated wisdom of communities is a valuable source of information. I look to the past for answers or potential solutions to current natural resource management issues, and I find ways to document that and integrate it with science and scientific information. I'll talk to people face-to-face to get a handle on what's happening along the BC West Coast," explained Murray, an interdisciplinary social scientist who takes both scientific and social data into account.

"Although environmental conflicts and issues can be site specific there are common themes that can be applied to other areas."

By interviewing people about their knowledge of the environmental history of an area, Murray hopes to gain a more complete picture of what has happened there and help prepare

for the future. Once he has heard the issues of a community and talked with a variety of stakeholders, he will transfer the information onto multi-layered maps, showing such things as where the fishing grounds are, or where tour operators go.

"Maps become a way of telling a story," he said. "This information can be useful in developing ideas on how to better manage natural resources alongside industries like tourism and shellfish aquaculture."

As a scientist, Murray takes a hypothesis and tests it against data to prove if the idea is right or wrong. But unlike a natural scientist, Murray obtains his data from biological science and the human experience.

"People are not numbers, graphs or readouts, but understanding the data they give you is really important," he said.

Murray's tools of the trade are a digital recorder, questionnaires and maps. To digest the data he will gather from people, he'll use a Geographical Information System. The mapping system will allow him to map out the environmental history a person has witnessed on the physical landscape. Then he can take the dozens of personal accounts and overlay them on top of one another to see the environmental trends.

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While research is a large part of Murray's job, so is teaching. He's hoping to work on multi-disciplinary research projects with students from a variety of departments including tourism, biology, ecology and aquaculture.

Murray's goal is to bridge the gaps between different academic disciplines and show students how interconnected everything is. He also hopes to strengthen ties between communities and the academic world of Malaspina.

Last summer, geography student Lynne Lawson assisted Murray with a project in Broughton Archipelago relating to the effects of contaminant sources such as logging operations, agricultural runoff and sewage outfalls.

Student Verna Jones worked with him on a health-related project examining health issues and traditional food resources in the Nuuchalnu First Nation on the southern part of the west coast of Vancouver Island. He hopes to hire more students as his research program unfolds.

Murray has conducted similar research in Mexico, the U.S. and Newfoundland. He is one of 121 Canada Research Chairs funded by the Government of Canada in 2006 to work in educational institutions across the nation. Murray has received a \$500,000 grant over five years to conduct his research, renewable for another five years.

"Dr. Murray's work will further develop Canada's reputation as a place where outstanding research is being conducted," said Dr. Eliot Phillipson, President and CEO of the Canada Foundation for Innovation. "We can all be proud that Canada has become a place where world-class researchers want to be."

Murray completed his undergraduate degree at Tufts University in Boston, a Masters in Environmental Management at Duke University in North Carolina, and a Ph.D. at the University of Michigan. He completed a post-doctorate fellowship at Memorial University in Newfoundland, and a post-doctorate at Rutgers University in New Jersey.

**"Maps become a way of telling a story," he said. "This information can be useful in developing ideas on how to better manage natural resources alongside industries like tourism and shellfish aquaculture."**

## Translation work builds bridges between cultures

Imagine rewriting every sentence in a novel 50 times before you finally get it right. While that may seem a bit daunting, Malaspina University-College professor Katharina Rout enjoys the challenge and often finds herself lost in translation work.

Rout recently translated *The Blue Sky* by Galsan Tschinag, the third book she has translated from German to English in the last ten years.

“Translating is very gratifying for me,” said Rout. “I love words and I love books. Translating these works allows me to build bridges between cultures.”

Rout, a professor in the English department at Malaspina, immigrated to Canada from Germany in 1987. Her first translation work took place in 1998 when she translated the novel *Seductions.* by Marlene Streeruwitz. That novel, a feminist portrait of a young woman who tries to live a self-determined, satisfying life despite many obstacles, was an enjoyable challenge for Rout.

“In *Seductions.*, sentence fragments were used to express a sense of breathlessness. The challenge when translating is making sure it doesn’t sound choppy. Every sentence you write is an interpretation because there are no equivalencies of language. In the end, it may be a different sentence, but the overall meaning will be there.”

Rout’s second translation work was *Love in a Time of Terror* (2005) by Ulla Berkewicz, a love story that is also a spy novel and a thriller that deals with political, religious and class issues. Unlike *Seductions.*, this novel used long, rambling sentences and had many other challenges for Rout as a translator.

“I had to make sense of that expanse of writing and found myself rewriting some sentences 40 or 50 times. It’s an incredibly layered novel with a theme of inclusiveness, so the language I used also had to be inclusive. It was a bigger challenge to translate from a syntactical point of view.”

There are many other challenges Rout faces when translating. Not only does she need a clear literary analysis of the book, she must consider each and every single word to make sure she has made the right choice.

“I write down a sentence, think of all the verbs that could be used, then write them all down, even if there are 12 or more (for example – run/sprint/dash/jog). There are usually a dozen or more sentence options for each sentence in the first draft and every one gets revised around 50 times. When I go back, I delete several options, refine them and go on to the next page. There’s no way to even guess how many drafts are involved. Even if I’m 200 pages into a book, I’ll realize that a certain word doesn’t work properly, so I’ll go back and change it.”

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Rout's recent translation of Galsan Tschinag's *The Blue Sky* beautifully describes the author's early childhood in the High Altai Mountains of Northern Mongolia.

In 2004, Rout spent the summer in Mongolia and travelled to the High Altai Mountains where Tschinag lives part of the year. That experience changed the translation considerably, as she came to understand and appreciate the finer details of his life in that part of the world. *The Blue Sky*, which came out in September 2006, is different from the other books Rout has translated because German is Tschinag's fourth language and because his use of language is shaped by the oral traditions of his people.

"No one else speaks German the way he does," said Rout. "When translating, I had to ask myself how to make it resonate in the English language, but still keep the differences in culture intact without losing the reader. The language he uses is a hybrid language shaped from those oral traditions."

**"As a translator, I have to love it or I don't want to touch it. Translating is very intimate - you live with that book for months or years. Sometimes, I think I'll never get it right and then one day, it happens."**

While Rout enjoyed the challenge of translating each of these books, she has come to realize her greatest strength in life is that of a bridge builder, someone who helps open doors and build bridges between cultures. That role is one that comes with a great deal of hard work and dedication.

"I just look for a book that I love," said Rout. "As a translator, I have to love it or I don't want to touch it. Translating is very intimate – you live with that book for months or years. Sometimes, I think I'll never get it right and then one day, it happens. Finding the right word, the perfect word is the most fun of all."

Katharina Rout is currently working on *The Grey Earth*, which is the second volume of Galsan Tschinag's trilogy.



*Katharina Rout with Galsan Tschinag at a reading at Malaspina in October 2006*

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## Malaspina undergrad co-authors research on the CSI Effect

It was more than the small class sizes at Malaspina University-College that helped Liz Harvey's academic career become so successful – it was the opportunity.

While completing her Bachelor of Arts degree at Malaspina, Harvey undertook a project most undergraduates never get to do. She and Malaspina sociology professor Dr. Linda Derksen co-authored a research paper entitled: "The CSI Effect: Science Fiction or Social Fact? A content analysis of popular press reports on the CSI Effect."

**"A motivated student can do work of publishable quality and, with a published article, they can really improve their chances of getting into a good graduate school."**

The CSI Effect is defined as a belief in the near-infallibility of forensic science and its ability to solve crimes. It is a belief inspired by popular TV shows like CSI: Crime Scene Investigation, F2: Forensic Factor, Crossing Jordan and Cold Squad.

If Harvey had been going to a larger university, it is unlikely that a professor would have had the time to work with an undergraduate on such a large project, said Derksen, but at Malaspina, that wasn't a problem.

"Undergrads absolutely can do this," said Derksen. "A motivated student can do work of publishable quality and, with a published article, they can really improve their chances of getting into a good graduate school."

Harvey said even though she hadn't finished her research paper by the time she applied for graduate school, the fact she was working on one gave her an advantage.

"It's unusual for an undergrad to have anything in the process of submission for publication," said Derksen. Harvey is now taking her Masters degree in Integrated Studies online through the University of Athabasca.

"Without Linda I couldn't have done this. I'm so grateful she offered me the opportunity and pushed me to do it," said Harvey.

Harvey's CSI Effect research started in 2004 while Harvey was still a student at Malaspina. While taking a sociology minor and an anthropology major, Harvey read a lot of newspapers and found the CSI Effect phenomenon kept coming up over and over again.

"It was just something I found so interesting, I couldn't let it go," said Harvey. "I was fascinated with the effect media can have on people."

Harvey set out to determine if there was any empirical evidence about whether the CSI Effect is a phenomenon having an effect on the

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criminal justice system, or whether it is created by the media. It's the first time anyone has examined the effect from this angle.

With no budget, Harvey and Derksen used two different methods of data collection. First, in 2005 they used the internet to do an e-mail survey of criminal justice experts and real-life CSI technicians that had been quoted in media reports. Second, they gathered all media reports they could find and conducted a content analysis of 70 unique English print media sources, published between 2002 and August 2005 in North America. In the end, Harvey and Derksen concluded that there is no evidence to support the belief that CSI or other shows have any influence on the criminal justice system.

"It may be a real effect, but from the evidence we examined, we concluded the CSI Effect is generated by the media, not from the show," said Harvey.

"I think the important thing Liz's data showed was that all the media hype came from only one or two people, who were quoted over and over again. She also found that media reports of the CSI Effect cluster around major celebrity trials, and that there is a long history of the media saying that television shows have affected the criminal justice system – like Perry Mason and Quincy," said Derksen. "As much talk as there is about the CSI Effect, the current evidence shows that it is media-generated. To determine whether there is an

effect in the criminal justice system, we would need to study real life jurors and criminal justice personnel."

Now in the final editing stages, Harvey and Derksen's paper will be published in a peer-reviewed collection being edited by Michele Byers and Val Johnson from the department of Sociology and Criminology at St. Mary's University in Halifax, to be published by Lexington Books. The book is tentatively called *The CSI Effect: Television, Crime and Critical Theory*.



*Malaspina University-College sociology professor Linda Derksen, left, worked with graduate Liz Harvey to co-author a study called "The CSI Effect: Science Fiction or Social Fact? A content analysis of popular press reports on the CSI Effect".*

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## Psychology students shine at Vancouver Island poster session

A select group of advanced, undergraduate psychology majors presented their research to faculty, classmates and the wider Vancouver Island community at the first annual Psychology Students of Vancouver Island Poster Session (PSOVIPS) in April.

The 25-plus presenters included students who completed independent studies courses at Malaspina University-College and the University of Victoria, and students in UVic's Honours Psychology program.

**“Thanks to the research experience they gain here, our students are very successful at gaining admission to graduate schools across the country. Some of our most recent graduates have been admitted to the University of Western Ontario, the University of Alberta and all four major universities in British Columbia.”**

A major aim of PSOVIPS is to promote public awareness of the cutting-edge scientific psychological research being conducted by Vancouver Island undergraduate students.

Students' projects explored areas including human memory, children's cognitive development, interpersonal social interaction, and electrophysiological analyses of brain processes.

“Malaspina is a primarily undergraduate institution, therefore, our students have many opportunities to participate in research activities which might otherwise be provided only to graduate students at larger institutions,” said Debbie Matheson, Chair of Malaspina's Department of Psychology.

“Thanks to the research experience they gain here, our students are very successful at gaining admission to graduate schools across the country. Some of our most recent graduates have been admitted to the University of Western Ontario, the University of Alberta and all four major universities in British Columbia.”

Malaspina psychology grad Arlene Simpson received a \$10,000 scholarship to begin the Master's of Counselling program at the University of Victoria in September. Simpson worked on a major senior research project during her final year at Malaspina, where she investigated the relationship between concealment and obsessive-compulsive disorder (OCD).

“Concealment is the deliberate hiding of one's thoughts and behaviours from others,” explained Simpson. “People with OCD often feel the need to conceal in order to avoid negative evaluation from others. They view their thoughts and behaviours as shameful or reflective of negative personal character and therefore do not want others to know about them.”

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Simpson surveyed 850 students who experienced some of the thoughts and behaviours common to OCD, but who did not meet criteria for an official diagnosis.

“Students were explicitly informed that they were a part of the general population and were not viewed as being abnormal in any way,” she explained. “The experience of thoughts and behaviours common to OCD is common in the general population and does not mean that a person has a disorder.”

Simpson’s research is important to the study of OCD “because it shows that concealment in itself contributes to the distress experienced by sufferers,” she said. “It supports the clinical assumption that patients should be encouraged to reveal their unwanted thoughts or impulses to trustworthy loved ones. Also, while concealment has been assumed to be a significant factor in OCD, it has not been examined experimentally.”

Meanwhile, Malaspina psychology graduate Mary Nenzel presented the findings of her directed studies course which examined the nature and frequency of unwanted or intrusive thoughts and/or impulses among the prison population as compared to the general population.

Nenzel and other students, working with psychology professor Dr. Melanie O’Neill, interviewed 71 undergraduate students and 68 inmates at Nanaimo Correctional Facility. Their project was part of a larger study on OCD.

“Intrusive thoughts may include things like physically punishing a loved one, driving into oncoming traffic or harming one’s pet,” explained Nenzel. “Although similar in form

and content to obsessions, intrusive thoughts are shorter in duration, less intense, less distressing and more easily controlled.”

According to Nenzel, the study supports the idea that intrusive thoughts and impulses are normal cognitive phenomenon that are nearly universally experienced.

“Understanding that intrusive thoughts and impulses are commonly experienced by people in general can alleviate some of the guilt, shame and anxiety that individuals with obsessive-compulsive disorder often experience,” she said.

However, unwanted intrusive thoughts may act as precipitating and maintaining factors in a number of different psychological disorders, including OCD, Nenzel said.

Ongoing research into this area adds valuable information to society’s understanding of the psychopathology and treatment of many disorders, including OCD, she said. “Having a clear understanding of these individuals is critical to the development of OCD prevention programs and streamlining current treatments.”

Nenzel, who graduated from Malaspina with a Bachelor’s degree (Psychology) in June 2006, is completing her final year in the Bachelor of Social Work degree program at the University of Victoria.



*Mary Nenzel, Psychology Graduate*

## Institute for Coastal Research helps communities become resilient

Faculty, students, scholars and graduates from many disciplines at Malaspina University-College are teaming up to conduct broad-based interdisciplinary research through Malaspina's Institute for Coastal Research (ICR).

Established in 2004, the ICR "seeks to further our understanding of the physical, ecological and social dynamics of the BC and Pacific northwest coast through research, creative exploration and education," said Acting Director Bill Pennell.

**"Our goal is to promote and stimulate internationally respected research and education involving the natural sciences, the social sciences and the humanities at Malaspina and with partner organizations."**

"Our goal is to promote and stimulate internationally respected research and education involving the natural sciences, the social sciences and the humanities at Malaspina and with partner organizations," he added. "Hopefully our work will help guide activities to bring the greatest good to human communities and the least harm to coastal ecosystems. Ultimately, we're looking for ways to help communities become more resilient, meet modern day challenges such as population growth and rapid development, and protect human and natural resources."

According to Pennell, the ICR began as an idea in 2001 as several new research centres were being developed at Malaspina in sciences and humanities. "Initially, the Institute was seen as a way to knit various research centres together, seeking opportunities for collaboration within Malaspina and with research partners from other institutions, and facilitating interdisciplinary research," he said. "The ICR builds on our strengths as a regional university and our history of applied research."

Through the efforts of Malaspina's Research & Scholarly Activity Office, funding for ICR infrastructure came from the Canada Foundation for Innovation, the BC Knowledge Development Fund and the Malaspina University-College Foundation.

In 2004, Pennell was appointed Acting Director and a Steering Committee was formed to guide the ICR's activities. A year later, dedicated space for the ICR was provided in Malaspina's new \$14.1-million library. Today, the ICR consists of meeting and study rooms and a reception area adjacent to the Research & Scholarly Activity Office and the Teaching and Learning Centre.

A newly formed Advisory Committee organized the ICR's first public event in 2006 – a day long symposium focusing on resource issues and approaches researchers have taken to deal with coastal issues.

A key development for the ICR was the appointment of Dr. Grant Murray as Malaspina's newest Canada Research Chair in Coastal Resource Management in early 2007.

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“Dr. Murray’s research program is based on an interdisciplinary approach to coastal resource management and decision-making,” said Pennell. “He is a wonderful addition to Malaspina. As a sociologist, he is used to working with a wide variety of people from other disciplines and with a variety of coastal communities.”

The ICR’s second major priority involves publications and establishing its role in publishing. “We’ve now published our first two volumes, the chapbooks from the Gustafson Trust poetry lectures,” explained Pennell. “These booklets were designed by Robert Bringhurst, one of the authors and a well-known poet, linguist, writer, and world leader in typography.” Bringhurst worked with four students from English professor Rhonda Bailey’s publishing “490” class to create the chapbooks.

“This is a perfect example of including students in scholarly activities at the ICR,” said Pennell. “We expect to publish more chapbooks with the Gustafson Trust. Currently, we have two other volumes in the planning process. We also have commissioned a review of publishing options for the ICR and formed a publishing subcommittee.”

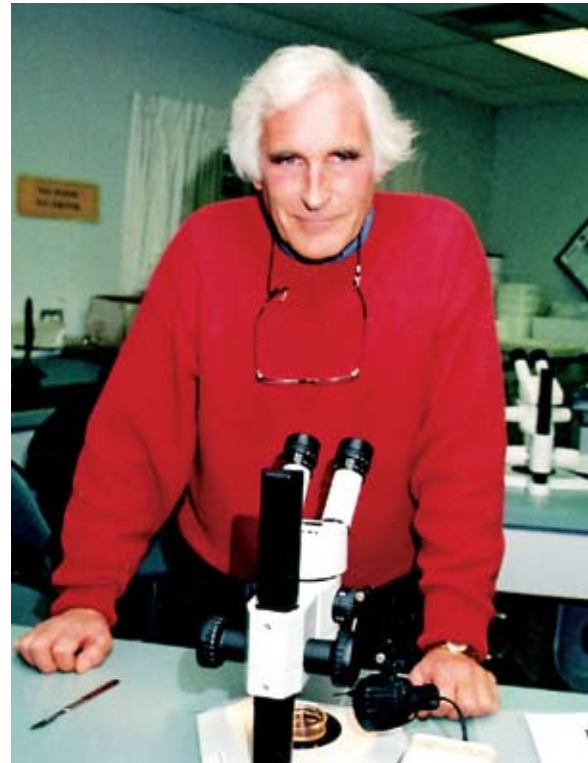
The ICR is also spearheading development of AquaPort, a project funded through AquaNet. “We’re compiling a broad base of information related to Canadian aquaculture organized in a sophisticated software system,” said Pennell. “It will create streamlined access to a broad

spectrum of users including industry people, regulators, educators and students, and interested citizens.”

Dr. Tim DeJager, a Malaspina faculty member in Fisheries & Aquaculture, is project manager, while other participants represent various post-secondary institutions across Canada.

Pennell added that the ICR team is currently surveying BC coastal research centres at other institutions, and visiting research field sites where Malaspina researchers and their students may wish to work. Two of these, the Tofino Botanical Garden Foundation and the Boat Basin Foundation, have already indicated an interest in establishing a relationship with the ICR and Malaspina. The ICR is also creating an endowment for fellowships to encourage scholars and students from other institutions to work at the ICR.

ICR activities thus far have been funded by a three-year grant from the Social Sciences and Humanities Research Council. “The ICR is still fairly new and has many possible contributions to make to Malaspina University-College’s intellectual and academic life,” said Pennell. “Our goal all along has been to involve undergraduate students in ICR research to the fullest extent possible.”



*Dr. Bill Pennell, Acting Director of the Institute for Coastal Research*

## Linking students, faculty and communities



*Recreation & Tourism professors (left to right) Dave Robinson, Rick Rollins, and Nicole Vaugeois.*

A unique research institute at the Nanaimo campus of Malaspina University-College supports and promotes leisure research that benefits faculty, students and professionals.

The Recreation and Tourism Research Institute (RTRI), developed in 1996, operates as an arm's-length body to Malaspina's Department of Recreation and Tourism Management.

"The Institute creates alliances between faculty researchers, practitioners, students and communities," explained Tourism professor Nicole Vaugeois. "Collaboratively, they work on applied research projects that result in improved decision-making, community based inquiry, increased public awareness, educational opportunities, and enhanced research capacity."

"Malaspina faculty and undergraduate students have been involved in projects that are regional, national and international in scope," added Vaugeois.

Initially, faculty in Malaspina's Tourism and Recreation Management program linked their own research projects through the Institute, but it has evolved to the point where communities contact the Institute directly and seek help with specific research questions or inquiries. "We've literally got communities knocking down our doors for research assistance," said Vaugeois. "It's wonderful because the whole point of the Institute is to link our students and faculty with real-life research needs of communities."

The types of requests coming to the Institute are varied. Some community groups or organizations request help writing research proposals, or more detailed assistance answering specific research questions.

"Sometimes an organization or community group has obtained outside funding for a specific research project and we assist with that, but if they don't have outside funding, we try our best to embed their research needs into our classroom teaching."

Recently, the Institute developed an interdisciplinary team on campus consisting of Dr. Nicole Vaugeois (lead researcher), Dr. Ken Hammer and Joanne Schroeder in Tourism and Recreation Management, Zoe Dams in Nursing and John Neville in Child and Youth Care. Together with students from the various programs, the group worked with the Alberni Valley Safety Net, a Port Alberni non-profit organization funded by the National Crime Prevention Council to conduct a study on the quality of life in the Alberni Valley.

"The Alberni Valley Safety Net had a research need and funding, but not the capacity – people or skills – to conduct the research themselves," explained Vaugeois. "They called our Institute and tapped into our skills, expertise and resources."

Malaspina's interdisciplinary team worked closely with Alberni Valley Safety Net to design and implement a mail survey for 1,500 households. "Our students assisted with choosing the method of the survey, the design,

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literature and ethics proposal,” said Vaugeois. “They tabulated and analyzed the survey results, and presented their findings to the Alberni Safety Committee Network recently. Our students also assisted in writing a final report, and the Alberni Valley Safety Net is now working on communicating the results to the community.”

Faculty also benefit from opportunities to connect with the practitioners in the field and pursue professional development. “It’s a win-win model for everyone,” said Tourism professor Rick Rollins.

In addition to the Quality of Life survey, the Recreation and Tourism Research Institute has several other projects underway, including the

## “Malaspina faculty and undergraduate students have been involved in projects that are regional, national and international in scope.”

“This example is really the essence of community-based research – it’s not done for the community; it’s done with the community.”

“Projects like these provide Malaspina students with valuable hands-on learning experiences and opportunities to respond to real-life research requests and inquiries. Our students don’t just sit in classrooms learning theory. They’re out in the field, conducting research that helps with community-based decision making.”

Tourism Research Innovation Project (TRIP), the Malaspina-Ucluelet Research Alliance, Leadership BC, the Costa Rica Heart of Gold project, and a community development project in Ghana.

## Student-made chapbooks surpass expectations



*Bill Pennell, Acting Director of the ICR, Deborah Torkko, English Professor/Chair of Gustafson Trust, Rhonda Bailey, Publishing Professor are thrilled with the first two chapbooks.*

**“The Gustafson Trust wants to broaden the exposure to wonderful work being done in poetry and poetics and provide a larger focus for Canadian poetry. These books help us to do that.”**

Malaspina University-College, The Institute for Coastal Research (ICR) and the Gustafson Chair of Poetry have combined their efforts to produce two student-made chapbooks (small, self-published books) based on lectures by recent poetry chairs Robert Bringhurst and Don Domanski.

The process of creating these chapbooks started with the Ralph and Betty Gustafson Trust, which was established at Malaspina in 1998 from the estate of the late Ralph Gustafson, one of Canada’s pre-eminent poets. The Trust endows an annual Chair of Poetry at Malaspina devoted to advancing Canadian poetry and supporting deserving poets. When poetry chairs Robert Bringhurst and Don Domanski gave lectures at Malaspina, these lectures were transcribed and became the basis of the chapbooks, entitled *Wild Language* by Robert Bringhurst, and *Poetry and the Sacred* by Don Domanski.

“These chapbooks are exquisite,” said Deborah Torkko, an English professor at Malaspina and Chair of the Gustafson Trust. “The Gustafson Trust wants to broaden the exposure to wonderful work being done in poetry and poetics and provide a larger focus for Canadian poetry. These books help us to do that.”

Torkko and Publishing professor Rhonda Bailey convinced Bill Pennell, Acting Director of the Institute for Coastal Research (ICR), that the publication of these chapbooks would be a good idea. The ICR is an interdisciplinary research organization at Malaspina which brings together scholars and students from many disciplines to focus on coastal issues.

“They convinced me this was a publishing opportunity of great potential waiting to be realized,” said Pennell. “We conducted campus-wide interviews about the best actions of the ICR and a lot of people suggested publishing, so it seemed like a natural fit.”

From there, Rhonda Bailey convinced Robert Bringhurst, who is known worldwide for his expertise in design and typography, as well as poetry and linguistics, to work with her directed studies publishing students in the design of these books from start to finish.

“Working with Robert Bringhurst on these chapbooks created an excellent learning opportunity for students,” said Bailey. “Students were awed to work with him. They learned things a master class of designers would learn.”

The directed studies students working on the chapbooks included Carra Simpson, Matt Carter, Nikki Dykema and Dave Woods. They met once a week in the ICR and even had the luxury of a two-day workshop with Robert Bringhurst on typography. He brought chapbook samples and guided students in selecting fonts, typefaces, paper and other details. The students chose to hand bind the books, so they researched and ordered the materials (such as a special needle and thread) and spent one long evening hand binding 300 copies of Don Domanski’s chapbook.

“The students surpassed my expectations in every way,” said Bailey. “They took on more challenges than I imagined, but it all paid off in the end. The students loved the experience and one even told me it changed her life.”

Such a learning experience fit right in with the ICR’s vision and Pennell was thrilled with the outcome.

“These handmade books came back as masterpieces. The whole process encapsulated the values of the ICR – bringing great people into contact with faculty and students to create something new within a coastal theme. Wherever possible, the students are integral in what we plan to do. Creating amazing, vivid and profound educational experiences is a pleasure and a big part of Malaspina and the ICR’s goals.”

## Mal-U considers Community-Based Research Institute

Community groups on Vancouver Island may soon have greater access to the research skills and expertise of Malaspina students and faculty.

Dr. Anne Leavitt, Dean of Social Sciences and Laureen Styles, Dean of Health and Human Services, have partnered on an exciting new initiative to establish a community-based research institute at Malaspina.

“While community-based research is not new to Malaspina, developing an institute is,” said Styles. “The concept has already received Board approval. Now we’re seeking funding to move forward.”

According to Leavitt, community organizations in the region often have specific planning, research and development needs, but not necessarily the expertise or resources to conduct research themselves to meet those needs.

“A community-based research institute would provide a one-stop service for organizations, agencies or community groups looking for assistance with research,” she explained. “They could define their own research interest, come to us for assistance and we could match them with Malaspina faculty and students who could help write and develop proposals, and collaborate on the necessary research.”

Styles added that “there are various ways that community-based research can be undertaken, yet what is a central highlight is that there is mutual benefit – students learn about research and community process while organizations or agencies benefit by having some of their key questions answered.”

Leavitt said students would benefit directly by working on real-life interdisciplinary research projects. “The learning process would be phenomenal,” she said. “Students would learn how a research question emerges and how to

work with community groups to find answers. The knowledge they would gain could be used elsewhere.”

Styles said the types of organizations that could benefit from partnerships with the Community-Based Research Institute include service providers; community-based agencies and other non-governmental agencies; informal community groups and associations; hospitals and schools; local and provincial agencies; public housing; museums and cultural centres; universities; ethnic and national groups; public and private funding agencies and the media.

Initially, the Institute would strive to support projects with a regional focus in areas such as community health, well-being and development, and family, community or social issues. The Institute would eventually expand to support projects across all departments, and include activities with national and international relevance.

Malaspina’s model for its Community-Based Research Institute is Trent University’s Centre for Community-Based Education, Styles said.

In time, it is hoped that the Institute will work with agencies, groups, and organizations to secure funding for long-term community-based research initiatives from such agencies as the Social Sciences and Humanities Research Council (SSHRC) Community-University Research Alliance (CURA) program, other federal and provincial funding streams and various private, philanthropic foundations.

Leavitt said many undergraduate students at Malaspina, especially those involved in Recreation and Tourism Management courses and Science and Technology programs, are already involved in community-based research projects. “We’re not trying to re-invent the wheel,” she said. “We’re simply proposing a way to enhance what we’re doing and provide greater support to communities.”



*Laureen Styles and Anne Leavitt*

**“A community-based research institute would provide a one-stop service for organizations, agencies or community groups looking for assistance with research.”**

# Our Graduates

## Governor General Award



*Owen Stechishin*

Malaspina University-College graduate Owen Stechishin received the Governor General's Academic Silver Medal for earning a Grade Point Average (GPA) of 9.95 out of a possible 10. Stechishin graduated with a Bachelor of Science Degree with a Major in Biology at the June 2006 Convocation ceremonies.

"I am very happy and grateful to receive such a prestigious award," said Stechishin.

"Maintaining my GPA was really a matter of maintaining my focus and dedication in order to achieve the best marks that I could on assignments and exams. The fact that I greatly enjoyed my classes made attending university much more of a pleasure than a chore."

In September 2007, Stechishin began his Ph.D. in neuroscience at the Hotchkiss Brain Institute at the University of Calgary. His research thesis will be on glioblastoma, a highly invasive and aggressive type of brain cancer.

## Biology grad remembers his Malaspina roots

Dr. Aaron Jex has gone a step further than most graduates to honour his home-town university-college. He named an animal in honour of Malaspina University-College and three of his former professors.

Jex, a graduate of Malaspina's Biology degree program, is now a post-doctoral researcher at the University of Melbourne in Australia. "He's highly regarded as a leader in his field dealing with the ecology, molecular genetics and evolutionary relationships of nematode parasites of insects," said Malaspina Biology professor Dr. Tim Goater.

Jex has discovered an amazing 21 new species of parasites, and published their descriptions in several scientific journal papers. He named some of the parasites after Malaspina and his former professors.

"I called one of them *Malaspinanema goateri*," explained Jex. "The genus name honours Malaspina, and the species name honours Dr. Tim Goater. Two other species are named *Cordonical gibsoni* and *Hammerschmidtella hochi* after Dr. Allan Gibson and Dr. Matthew Hoch. I thought all three were excellent professors."

Having an animal species named after him is flattering, said Goater, "even if it's an obscure worm parasite living in the intestines of cockroaches."

"Seriously, it's great to see that Aaron hasn't forgotten his academic roots, or his home town," added Goater. "I've known Aaron for about 10 years, and watched him achieve great things. Since graduating from Malaspina, he's

one of five Biology grads to obtain the Doctor of Philosophy degree, a remarkable achievement, indeed. I'm very proud of him."

Malaspina awarded Jex the 2007 Alumni Horizon Award in recognition of his outstanding achievements since graduation. He's Malaspina's third Biology graduate to win this award.

Jex grew up in Nanaimo and attended John Barsby Secondary School. He graduated with distinction from Malaspina's Bachelor of Science degree program (Biology) in 2000. Goater and other faculty encouraged him to apply for graduate school and for major scholarships.

Jex was awarded the prestigious Queen Elizabeth II Centennial Commonwealth Scholarship to study in the Department of Parasitology and Microbiology at the University of Queensland in Australia. He was also offered a scholarship to complete his Ph.D. at the University of Victoria.



*Dr. Aaron Jex*

Only 22 at the time, Jex faced a major decision – play it safe and continue his education on Vancouver Island, or travel to a different hemisphere thousands of miles from home. Jex sought Goater’s advice, one of the many Malaspina professors whom he considered a close friend and mentor. “For Tim, there was no decision to make,” said Jex. “He said studying parasitology at the University of Queensland is like studying law at Harvard.”

Jex left family and friends and headed ‘down under’ where he excelled at his studies. In a few short years, he has authored twelve scientific papers – eight from his Ph.D. and four from his post-doctoral research. His Ph.D thesis, approved in August 2006, focussed on parasite ecology and biodiversity in Australian insects.

“Aaron’s productive research record is remarkable for someone so early in his career,” said Goater. “His work is multidisciplinary and he’s mastered many essential technical skills enabling him to be at the forefront of his field, including modern molecular genetics techniques and the complex statistical analyses and computer software used in deciphering evolutionary relationships among animals.”

Jex was awarded the prestigious Linkage International Australian Postdoctoral Fellowship by the Australia Research Council to study at the University of Melbourne. He’s now conducting collaborative research with colleagues from around the world.

“My research primarily involves water and food borne diseases in humans and animals,” Jex explained. “One project focuses on a parasite called *Cryptosporidium*, which causes problems in the gastrointestinal tract of humans. It’s a massive problem in undeveloped countries, and there have

been outbreaks in Kelowna, Milwaukee, and Walkerton. I’m monitoring levels of *Cryptosporidium* in deer populations in urban water catchment areas around Melbourne, because the parasite presents a potential risk to the city’s drinking water due to the parasite’s ability to resist chlorination.”

Jex’s second area of research involves trying to develop better molecular methods to test for and identify the parasite.

In his work, Jex travels all over the world, attending and presenting at scientific conferences. “I often tell others about the quality of undergraduate education I received at Malaspina, mostly due to the diverse hands-on research experiences and personal contact with faculty,” he said.

“It wasn’t until I was actually at Malaspina, and even more so in the years since leaving Malaspina, that I realized what a unique opportunity this university has to offer. I have received tremendous mentorship and friendship from my MUC professors, and continue to be amazed by the encouragement and support they still give me today.”

### **Biology grad inspires students**

Malaspina University-College Biology graduate Dr. Tanya Griffiths (class of 2000), a post-doctoral research fellow at the University of Calgary (Gastrointestinal Research Group), was guest lecturer for one of Malaspina’s Science and Technology free public lecture series in March 2006. Her talk focused on “Bacteria in the Human Gut: the Good, the Bad and the Ugly.” She also spoke to third-year Biology students about her experiences in graduate school and as a post-doctoral researcher.



#### *Dr. Tanya Griffiths*

“Tanya is a perfect example of what someone can achieve with an undergraduate degree from Malaspina University-College,” said Dr. Allan Gibson, one of her former professors.

Griffiths, who grew up in Duncan had virtually no interest in sciences when she graduated from high school. She upgraded her education through Malaspina’s Adult Basic Education (ABE) program, and then enrolled in first-year sciences at Malaspina’s Nanaimo campus. Four years later, she was co-winner of the Biology department’s Outstanding Student Award, and was accepted straight into the Ph.D. program at the University of British Columbia (UBC), with a full fellowship to fund her graduate studies.

“It’s rare for an undergraduate student to skip the Master’s degree and go directly into a doctoral program,” said her UBC Ph.D. supervisor, professor Dr. Ross MacGillivray. “Fellowships are highly competitive scholarships. Tanya competed against national and international students. She rose to the top.”

## International Research

While working with Dr. MacGillivray in the Department of Biochemistry and Molecular Biology, Griffiths' dissertation research involved the study of iron absorption by the small intestine. She graduated with a Ph.D. in January 2006, and remained in Vancouver working for Dr. MacGillivray until she moved to the University of Calgary in September.

As an undergraduate student at Malaspina, Griffith carried out research on a cancer-causing gene under the supervision of Dr. Allan Gibson, and worked in a lab for a year as a student assistant with Rob Wager, molecular biology lab demonstrator.

"All undergraduate Biology students at Malaspina conduct a year-long directed research project (Biology 491) and present their scientific findings in a public setting at the end of the school year," said Griffiths. "These public presentations of scientific data and knowledge set me on the proper footing and gave me confidence for my future academic and work career. Not only did I gain a strong theoretical background in my field, but due to both upper-level courses and from working in the labs at Malaspina, I gained valuable hands-on experience. As an undergraduate at a larger institution, I wouldn't have had the same opportunity."

### Mal-U graduate receives prestigious award

Soleil Switzer, a 2004 graduate of Malaspina's Biology Department, received a post-graduate scholarship from the Natural Sciences and Engineering Research Council of Canada (NSERC).

"It is a huge privilege for me to receive this award – my interest and enthusiasm for science and research have been sparked here at Malaspina" said Switzer.

The two-year NSERC Industrial Post-graduate Scholarship will fund Soleil's Master of Science research, which she commenced in September 2006 at the University of British Columbia and Malaspina's Centre for Shellfish Research (CSR). These scholarships provide financial support for highly qualified science and engineering graduates, allowing them to gain research experience in industry while undertaking advanced studies in Canada.

"We're all very proud that Soleil received this prestigious national award," said Dr. David Drakeford, Dean, Science and Technology. "Soleil's success demonstrates that Malaspina students can compete with Canada's most promising."

Prior to beginning her M.Sc., Soleil worked on a number of research projects for Dr. Penny Barnes, Head of the Environmental Interactions Research Program at the CSR.

"Receiving an NSERC scholarship is a great honour and Soleil is very deserving of this award." said Dr. Barnes. "Soleil has an excellent and broad background in biology which she combines with dedication and hard work. She has been a highly valued member of my research team here at the CSR."

Soleil's M.Sc. research project is a natural extension of her work in Dr. Barnes' programs – she will be examining the naturally occurring invertebrates that live on Pacific oyster aquaculture production systems. As the industry partner for her research, Evening Cove Oysters Ltd. is providing Soleil with an aquaculture study site and assistance with field logistics. Soleil's research project is under the supervision of Dr. Barnes and Dr. Scott McKinley (Faculty of Land and Food Systems, UBC).

### Malaspina spearheads project to reduce poverty in Ghana



*Malaspina Tourism and Recreation Management professor Dr. David Robinson (back left), and Tourism students Heather Richards (front) and Richard Crowley, played an important role in helping the District of Ucluelet win three prestigious international awards sponsored by the United Nations for sustainable community planning.*

Malaspina University-College is entering the second year of a five-year project aimed at reducing poverty in the Brong Ahafo Region of Ghana, Africa.

Spearheaded by Malaspina's International Education department, the project is funded by the Canadian International Development Agency (CIDA) through the Association of Canadian Community Colleges (ACCC).

"Our primary objective is to work with two post-secondary institutions in Ghana and facilitate environmental education," Sheila Swanson, Director of English-as-a-Second

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Language programs and International Education at Malaspina. “Specifically, we’ll target waste management (plastic waste), the spread of HIV/AIDS, and control and reduction of wildfire.”

Malaspina faculty in Tourism, Forestry, Health and Human Services and International Education will work with the Sunyani Polytechnic and the Faculty of Forest Resources Technology at Kwame Nkrumah University of Science, to develop new curricula in Educational Stewardship, Community Development, Environmental Communication and Health Promotion and Prevention.

“The new curricula will be offered by our institutional partners in Sunyani, Ghana, a municipality of about 61,000 people,” explained Swanson. “Malaspina will also work with the partner institutions to develop effective teaching and learning strategies for the new courses, and build awareness of international and cross-cultural issues, in particular a better understanding of these issues in Ghana. The Ghanaian institutions want to involve their students in building environmental awareness in the community.”

“The project is really about sharing knowledge and expertise between institutions, and connecting with the community and with leaders in Ghana to affect positive change,” added Dr. Rick Rollins, Tourism professor at Malaspina.

Over the next five years, Canadian faculty and students will work in Ghana, and Ghanaian faculty will visit Malaspina.

## **Malaspina hosts international conference on new reproductive and genetic technologies**

About 300 delegates from around the world attended an international conference on new reproductive and genetic technologies at Malaspina University-College in Nanaimo in May 2007.

Nobody’s Child, Everybody’s Children: An International Conference on New Reproductive and Genetic Technologies was an opportunity for speakers and delegates to critically consider legal, legislative, and medical issues related to the development and implementation of new reproductive and genetic technologies (NRGTs), said Beverly Revin, conference chair and professor in Malaspina’s Early Child Education and Care department.

“Our goal was to bring together as many different perspectives and philosophies as possible to discuss this controversial topic that affects all of us, either directly or indirectly,” said Revin. “The conference was a lively, informative dialogue and debate, and allowed delegates to learn about the latest research and how Canada compares to other countries in dealing with vitally important issues concerning NRGTs.”

Prominent speakers included Ms. Maureen McTeer of the Faculty of Common Law, University of Ottawa; and national and international experts such as Dr. Louise Vandelac, of the Department of Sociology, Université du Québec à Montréal; Dr. Jeffrey Nisker, of the Schulich School of Medicine, University of Western Ontario and Dr. Eric Blyth of the Department of Health & Social Studies, Huddersfield, United Kingdom.

A multi-disciplinary team including community representatives and faculty from Malaspina’s Nursing, History, International

Education, Philosophy, and Early Childhood Education and Care departments planned the conference for two years.

## **Malaspina students tackle multi-faceted research around the world**

More than 40 Malaspina University-College students traveled to Belize, Central America, in May 2007 working on research projects related to tourism, geography, and biology.

Biology professor Dr. Tim Goater said 19 students visited Belize to learn about ecosystems and past and present cultures of Belize, a central American/Caribbean country with a population of 270,000.

A group of Geography students are participating in Malaspina’s first ever field school to Belize with part-time faculty members Larry Wolfe and Pam Shaw, both professional planners. The students are helping the town of Orange Walk, population 16,000, examine and resolve community planning issues.

“Our students are immersed in the culture and geography of Belize,” said Wolfe. “Students stayed for three days in Bermudian Landing, a Belizean community in the Community Baboon Sanctuary, learning about tropical ecosystems and Caribbean creole culture. They also visited the University of Belize and heard lectures on the social, political, and cultural life of Belize.”

Meanwhile, 10 tourism students also visited Belize to assist the town of Orange Walk assess the potential for tourism development in the region. The field school gave students the opportunity to apply tourism and recreation management perspectives, methods and techniques in a field-based research setting.

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## Malaspina-Ucluelet research alliance called “world’s best practice”

A community-university research alliance between Malaspina University-College in Nanaimo and the District of Ucluelet was singled out as an “example of the world’s best practice” at an international competition in Hangzhou, China.

Ucluelet won three prestigious awards for its “grassroots approach” to community planning at the United Nations Livable Communities (LivCom), Environmentally Sustainable Community Awards competition in November 2006.

The District received a gold award for its Official Community Plan (OCP), silver in the Most Livable Community category (population under 20,000), and top prize for Most Sustainable Community, beating out contending countries from around the world.

Felice Mazzoni, Director of Planning Services for Ucluelet, says Malaspina’s Tourism Management students played a key role in helping the District write, develop and implement its OCP. “The quality and professionalism of the students’ work has been nothing less than outstanding since we started this partnership,” said Mazzoni. “Their work has resulted in positive changes to local government policies.”

Mazzoni invited two Tourism students, Heather Richards and Richard Crowley, and professor Dr. Dave Robinson, to accompany him to the competition and awards ceremony.

Ucluelet was selected as the only finalist in North America to be invited to the final stage for the Sustainable Awards competition.

In addition to these latest awards, Ucluelet received other planning awards from the Federation of Canadian Municipalities, Planning Institute of BC and Union of BC Municipalities.

The provincial, national and now international recognition is “the ultimate validation” for the work done so far under the Malaspina-Ucluelet community-university research alliance, said Robinson. “The alliance will serve as a model for other communities facing economic transition.”

## Malaspina coordinates international study

Malaspina University-College is coordinating an international study on the impact of undergraduate research.

The three-year study is part of a prestigious leadership program organized by The Carnegie Foundation for the Advancement of Teaching and Learning (CASTL), an independent policy and research centre based in Stanford, California which encourages best practices in teaching and learning.

“CASTL is examining 12 themes related to the scholarship of teaching and learning,” explained Nancy Randall, head of Malaspina’s Teaching and Learning Centre established in 2003.

“Post-secondary institutions from around the world were invited to participate, and 90 institutions from seven countries were selected as leadership sites, including Malaspina. We’ve been asked to coordinate a group of international institutions and centres studying undergraduate research. It’s quite an honour.”

The group will focus on the intersection of undergraduate research and the scholarship of teaching and learning, Randall said. Other members include the University of Gloucestershire, The University of Akron, University of Alberta, University of South Florida, University of Maryland-Baltimore County, University of Notre Dame, University of Illinois at Urbana-Champaign, and University of Waterloo.

“The study will allow Malaspina faculty to share their work and learning with national and international colleagues, and to learn from other undergraduate research leadership sites,” Randall said.

Malaspina students will also benefit. “We already know that early involvement in research helps students cope with complexity in a challenging world, and enables them to grapple with significant disciplinary questions,” Randall added. “The study will lead to new opportunities and make learning outcomes more meaningful.”

Undergraduate students at Malaspina already lead or co-lead successful disciplinary or interdisciplinary research in many departments and programs.

“The type and amount of undergraduate research taking place at Malaspina is really quite remarkable,” Randall said.

“As one example, students in Biology, Chemistry and Nursing programs have secured 11 national awards totalling more than \$100,000 for research.”

Psychology students at Malaspina conduct innovative studies in the Fear and Anxiety Lab, Sleep and Neuroscience Lab, Resilience Lab, Behavioural Medicine Lab, Community Lab, Immunocyto Chemistry Lab and an Electrophysiology Lab. “Many of our students

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are learning research skills that others might not encounter until graduate school,” Randall said.

Fourth-year Biology students advance their training in field and laboratory research skills through mandatory one-year research projects. Students interact with their peers and with scientists affiliated with various local agencies, organizations, or institutions, in addition to Malaspina faculties. Projects generally address topics of interest to people in the community, and cover a broad range of scientific interest, including molecular biology, cell biology, ecology, parasitology, microbiology and botany.

Malaspina’s Chemistry department also encourages significant undergraduate research, especially in Environmental Chemistry through the multi-million dollar Applied Environmental Research Lab (AERL).

Faculty of Management students, particularly in Tourism and Recreation, have also engaged in innovative award-winning research through Malaspina’s Recreation and Tourism Research Institute.

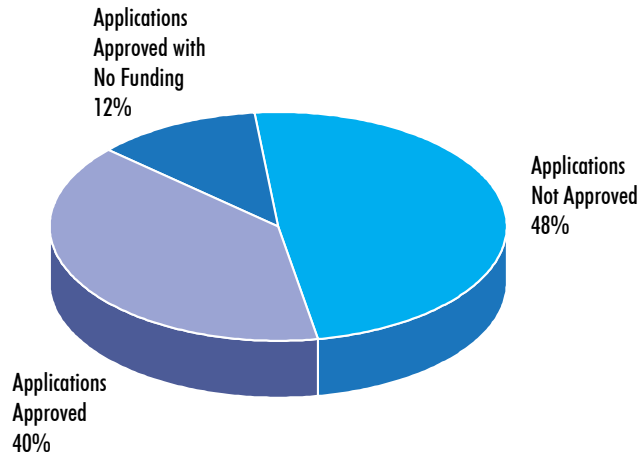
Malaspina began its association with The Carnegie Foundation five years ago. From 2003- 2006, Malaspina provided leadership, with the University of Portland, for a cluster of international institutions in a campus leadership program. In 2005, Malaspina co-hosted the second annual conference of the International Society for the Scholarship of Teaching and Learning (ISSOTL) with the University of British Columbia and The Carnegie Foundation. The Nanaimo campus of Malaspina also hosted an international conference in May 2006 on Teaching and Learning.

Recently, representatives of the 10 CASTL undergraduate research leadership sites met in Edmonton for a productive meeting, facilitated by Randall, where they mapped initiatives over the three-year study. Significant components include studies of student and faculty perceptions of the outcomes and benefits of involvement in undergraduate research; an examination of the tensions inherent in undergraduate research projects, and a featured session at the Council on Undergraduate Research 2008 national conference.

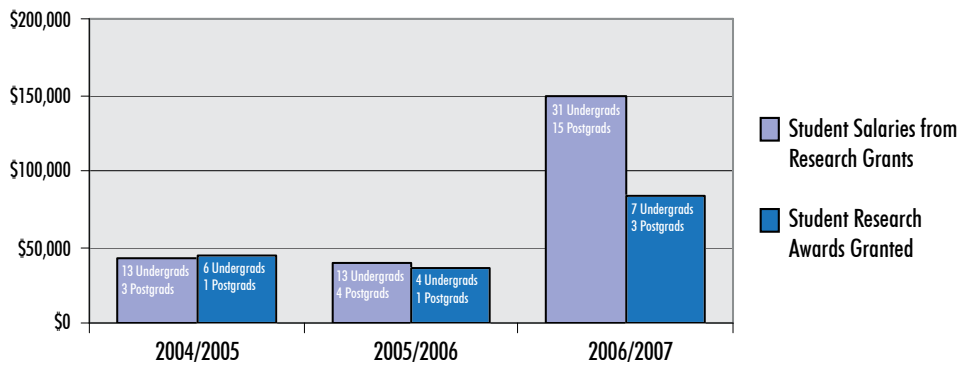
Malaspina and other participating institutions in the CASTL study will submit a final report by 2009.

# Research Statistics

## 2006-2007 External Application Results



## Student Impact from Research Funding



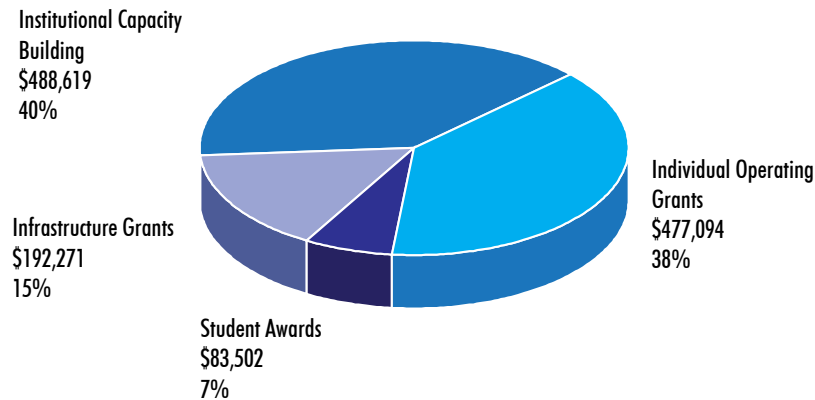
## Infrastructure Funds

Grant Agency	MU-C Investigator	Department	Amount Received	Project Title
Canada Foundation for Innovation (CFI)	Dr. Grant Murray	Institute For Coastal Research	\$73,302	CRC Infrastructure Application
Canada Foundation for Innovation (CFI)	Dr. Craig Stephen	Centre for Coastal Health	\$29,018	CFI/CRC Chair Infrastructure – Integrating Human and Animal Health
Canada Foundation for Innovation (CFI)	Malaspina University-College	Research & Scholarly Activity	\$89,951	Infrastructure Operating Funds (IOF) 2004-2008
<b>Total</b>			<b>\$192,271</b>	

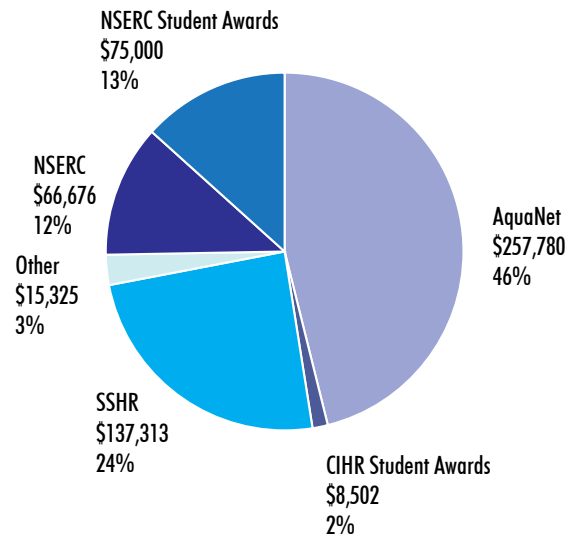
## Operating Grants

Grant Agency	MU-C Investigators	Department	Amount Received	Project Title
Natural Sciences & Engineering Research Council (NSERC)	Dr. Todd Barsby	Chemistry	\$29,756	A metabonomics approach to rationally identifying natural products with commercial potential
Natural Sciences & Engineering Research Council (NSERC)	Dr. Lev Idels	Mathematics	\$4,000	Delay Models in Mathematical Biology
Natural Sciences & Engineering Research Council (NSERC)	Dr. Stefanie Duff	Fisheries & Aquaculture	\$6,140	Rockfish Bycatch Reduction in Prawn Traps
Natural Sciences & Engineering Research Council (NSERC)	Dr. Christopher Pearce	Fisheries & Aquaculture	\$26,780	Culture of Pacific Geoduck Clams, <i>Panopea abrupta</i>
American Society of Pharmacognosy	Dr. Todd Barsby	Chemistry	\$325	Isolation and Structure Elucidation of Induced Antibiotics and Anthelmintics
AquaNet Network Centre of Excellence	Dr. Bill Pennell Dr. Tim DeJager, Barbara Thomas, Dr. Rick Rollins, Dr. Duane Barker,	Fisheries & Aquaculture/Acting Director, Institute for Coastal Research	\$257,780	Mobilizing Aquaculture Knowledge: AquaPort.ca as Semantic Web
Canadian Institutes for Health Research/The International Development Research Centre/Canadian International Development Agency	Dr. Craig Stephen (Resigned)	Centre for Coastal Health	\$15,000	Developing and Evolving Veterinary Public Health Capacity in Low and Middle Income Countries in South and South East Asia: A Critical Need for Emerging Zoonotic Disease Preparedness LOI
Social Sciences & Humanities Research Council (SSHRC)	Dr. Marshall Soules	Media Studies/English	\$24,065	Canada-Cuba image dialogue: social commentary in the public sphere
Social Sciences & Humanities Research Council (SSHRC)	Dr. Laurie Meijer-Drees	First Nations Studies	\$5,000	Canadian Nursing History in the Cultures of Colonialism and Nationalism
Social Sciences & Humanities Research Council (SSHRC)	Dr. Nicole Vaugeois Dr. Daniel McDonald, Dr. Rick Rollins	Recreation and Tourism Management	\$100,000	Reaching out to Rural Communities: Tourism Research Innovation Partnership
Social Sciences & Humanities Research Council (SSHRC)	Dr. Cheryl Warsh	History	\$8,248	Canadian Bulletin of Medical History
<b>Total</b>			<b>\$477,094</b>	

## 2006-2007 External Funds Received by Type of Grant



## 2006-2007 Funds Received for Operating & Student Awards by Funding Agency



## Capacity Building

Grant Agency	MU-C Investigator	Department	Amount Received	Project Title
Natural Sciences & Engineering Research Council (NSERC)	Dr. Chris Foote	Fisheries & Aquaculture	\$5,000	NSERC Representative
BC Innovation Council	Malaspina University-College	Research & Scholarly Activity Office	\$84,125	Science and Technology Capacity Development 2006/07
Canada Research Chair Secretariat	Dr. Grant Murray	Institute for Coastal Research	\$100,000	Canada Research Chair in Coastal Resource Management
Canada Research Chairs Secretariat	Dr. Craig Stephen	Centre for Coastal Health	\$66,051	Canada Research Chair – Integrating Human and Animal Health
Canada Research Chairs Secretariat	Dr. Penny Barnes	Fisheries & Aquaculture/Centre for Shellfish Research	\$100,000	Canada Research Chair – Ecologically Sustainable Shellfish Aquaculture
Indirect Costs Secretariat	Malaspina University-College	Research & Scholarly Activity Office	\$96,905	Indirect Costs (2006/2007)
Social Sciences & Humanities Research Council (SSHRC)	Malaspina University-College	Research & Scholarly Activity Office	\$6,538	SSHRC Institutional Grant (SIG) (2002/03-2006/07)
Social Sciences & Humanities Research Council (SSHRC)	Malaspina University-College	Research & Scholarly Activity Office	\$30,000	(ASU) Building Capacity: Phase Two (2005/06-2007/08)
		<b>Total</b>	<b>\$488,619</b>	

## Student Awards/Scholarships

Grant Agency	Students	Department	Amount Received	Project Title
<b>UNDERGRADUATE AWARDS</b>				
Canadian Institute for Health Research	Alisha Bonte Gelok	Nursing	\$4,251	Looking Deeper than the Addiction: Lived Experience, Applied Meaning, and Life Impact
Canadian Institute for Health Research	Theresa Monkman	Nursing	\$4,251	Prevalence of Hypertension and Sociodemographic Determinants of Cardiovascular Health in a Pulp and Paper Mill
Natural Sciences & Engineering Research Council (NSERC)	Derek van Pel	Biology	\$4,500	Direct Measurement of Environmental Partition and Diffusion Coefficients by MIMS
Natural Sciences & Engineering Research Council (NSERC)	Jason Devlin	Chemistry & Biology	\$4,500	Condensed Phase Membrane Introduction Mass Spectrometry
Natural Sciences & Engineering Research Council (NSERC)	Dara Barker	Biology & Chemistry	\$4,500	Manila clam farming in BC: the effects of netting on infaunal communities
Natural Sciences & Engineering Research Council (NSERC)	Owen Stechishin	Biology	\$4,500	In-situ Reaction Monitoring of Dis-infection By-product Formation by MIMS
Natural Sciences & Engineering Research Council (NSERC)	Skye Creba	Biology & Chemistry	\$4,500	Evolution of a Novel MIMS Interface based upon Coaxial Thermal Cycling
<b>POSTGRADUATE SCHOLARSHIPS</b>				
Natural Sciences & Engineering Research Council (NSERC)	Derek van Pel	Biology	\$17,500	An investigation of the mechanisms of action of drugs used to treat bipolar disorder on intracellular signaling pathways
Natural Sciences & Engineering Research Council (NSERC)	Skye Creba	Biology	\$17,500	Development of Non-Invasive Fluorescence Based Protease Detection Techniques for Biological Systems
Natural Sciences & Engineering Research Council (NSERC)	Owen Stechishin	Biology	\$17,500	Optimization of Media for the Establishment of Long Term Sea Urchin Cell Cultures
		<b>Total</b>	<b>\$83,502</b>	

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