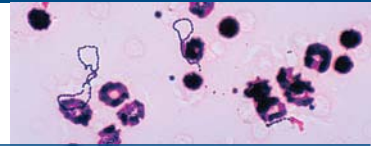


QUEEN'S GAZETTE



A nano surprise P4

Not all germs are bad P5



A new era for geology

QUEEN'S FINDINGS LEAD TO NAMING OF NEW AGE

By NANCY DORRANCE
News and Media Services
The first new geologic period in more than a century has been named as the result of discoveries by an international

team of researchers including Guy Narbonne (Geological Sciences and Geological Engineering).

Since 1891, the geological timescale has consisted of 11 named periods, including the Jurassic, Cretaceous, and Cambrian. The newest period, called the Ediacaran, received its official designation from the International Union of Geological

Sciences, and was announced July 30 in *Science* magazine.

Extending roughly from 620 to 540 million years ago, the Ediacaran Period ends at the beginning of the Cambrian Period. The newly-named period is the first to follow global ice ages, and is characterized by unusual, mostly soft-bodied fossils.

The distinctive character of

the Ediacaran interval has been recognized for decades. It encompasses the oldest animal embryos, the oldest calcified animals, and the beginning of animal diversification.

"Naming a new period is the geological equivalent of finding a new planet in our solar system in astronomy, or a couple of new elements to physics," says Dr. Narbonne, whose most

recent discovery is highlighted on Page 5. "In the long run it was the unique character of the rocks and fossils that spoke, not me, but I feel incredibly fortunate to have been a part of it."

Also on the team are researchers from Harvard University, the Australian Centre for Astrobiology, and Columbia University.

New centre a first in Canada

Queen's new Centre for Manufacturing of Advanced Ceramics and Nanomaterials (CMACN) will welcome international researchers and federal and provincial government officials to its grand opening and technical forum next week.

The unique, industry-led initiative is a first in Canada, spearheading innovative research and strategic skills training of technicians and materials scientists in nanotechnology, fuel cells, and smart structures. Other institutional partners are Niagara College, Royal Military College, U of T, McGill, and McMaster University.

The two-day event will showcase the recently completed \$2.42-million renovation of Nicol Hall and an \$8-million investment in equipment for research and development in advanced ceramics. Funding comes from the Canada Foundation for Innovation, Ontario Innovation Trust, Ontario Ministry of Economic Development and Trade Strategic Skills Investment Program, Materials and Manufacturing Ontario and many industrial partners.

Scheduled speakers at the opening ceremony on Tuesday Aug. 31 include new Queen's Principal Karen Hitchcock and Minister of Economic Development and Trade Joseph Córdiano. Technical presentations featuring researchers from China, Russia, Ukraine, Belarus, the U.S. and Canada will take place on Aug. 31 and Sept. 1.

For more information, please contact Vladimir Krstic or Karilene Montgomery at 533-2754.

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For news updates visit us online @ www.queensu.ca/newscentre



BAREFOOT IN THE PARK



CELIA RUSSELL

The Barefoot Players wrap up a show for another satisfied crowd. The troupe members, all Queen's students, performed near Carruthers Hall recently as part of Theatre Kingston's week-long workshops for children, presented in part by the Department of Drama. For more on the Barefoot Players, see www.queensu.ca/drama/BareFoot.html.

Outreach program opens young minds to science

By CELIA RUSSELL

When Peter Chenaux started the Let's Talk Science (LTS) program at Queen's, he had a surprising revelation.

Sharing his love and knowledge of science with local grade-school students reminded him why he chose to pursue graduate studies in the first place.

"In grad school, you can get into a rut," says Mr. Chenaux, a

biology master's student doing research into DNA. The repetitive nature of lab work is "not all sunshine and lollipops. In teaching science to kids, you recognize your own passion for science and the reason why you're here."

Recently, the School of Graduate Studies and Research (SGSR) led a campaign to raise awareness and funds for the three-

year-old program, run by graduate students. Let's Talk Science (LTS) now receives funding from SGSR and the faculties of Applied Science and Arts and Science.

A national, registered, not-for-profit organization, LTS is dedicated to improving science literacy (life and physical sciences, technology, engineering and mathematics) through inno-

vative educational programs, research and advocacy. The program's unique grass-roots approach aims to demonstrate the relevance of science in everyday life.

Founded in 1991 by Bonnie Schmidt during her physiology graduate studies at the University of Western Ontario, the program was first named Physiology

See OUTREACH PROGRAM: Page 2

In memoriam: Pullen, Hammond and Mitchell



Pullen

Professor Emeritus **Charles Pullen** died May 25 after extended treatments for cancer. A 28-year member of the Department of English, he came to Queen's in 1964. Prof. Pullen published widely, producing articles on Lord Chesterfield, Jonathan Swift and Samuel Beckett. His extensive service to the university included chairing the Archives advisory committee that guided the renovation of the present building, chairing the Senate Grievance Committee

and enriching the Charles Dickens holdings in Special Collections. Prof. Pullen was a popular and informed lecturer and dedicated himself to the education of his students. He believed that education should not just be the means to a job, but should be an experience that enriches one's whole life. His humour, intelligence, knowledge and impish wit will be sorely missed by his family, friends and by many grateful former students, whose lives are enriched by having known him.

Former Assistant Registrar (Systems and Records) **George Hammond** passed away July 10 after a short illness. Mr. Hammond received undergraduate

and graduate engineering degrees from Queen's, and returned to the university afterwards in his career to work in the Computing Centre and later in the Registrar's office. Among his many accomplishments, Mr. Hammond was a founding member and past president of the Computing Information Processing Society (CIPS). Working jointly with CIPS and PEO, he promoted understanding of the need for regulation of software engineering. He was instrumental in achieving legislative approval for the protected title of Information Systems Specialist of Canada. An open house celebrating Mr. Hammond's life took place earlier this month at the University Club.

Brian Mitchell, a 29-year member of the Department of Metallurgical Engineering, died July 28. Mr. Mitchell ran the machine shop until 1992 when he suffered a stroke. "Dad was especially interested in the international character of the department as he himself had immigrated from England," says his daughter Lynn Mitchell. "We used to have a 'United Nations' barbecue every year at the house, and he delighted in introducing his foreign students to such Canadian pastimes as duck hunting and bass fishing." Former students or friends who would like to contact the family can email lynnandandrew@cogeco.ca.

Outreach program continued from page 1

Outreach. It began as a small project with about 10 graduate student volunteers (MSc and PhD candidates) who wanted to raise awareness of science in local high school students and teachers.

Queen's graduate students now visit local schools and take part in a number of activities, says SGSR Project Officer Parveen Grewal.

"They help develop innovative methods for teaching science, provide hands-on demonstrations and activities in and out of classrooms and laboratories, engage students in the process of scientific inquiry, judge science fairs and competitions, and provide a point of contact with the expertise of the scientific community at Queen's."

Currently, the program consists of 19 volunteers. With the new funding, organizers hope to expand their volunteer base.

"The focus is on kindergarten through Grade 8," says Mr. Chenaux. "The aim is to do more curriculum-specific activities with students."

"We've had good support from profs, encouraging their

students to participate," says Ms. Grewal. "If we can get more graduate students involved, we can develop more projects and reach more students."

In addition to giving graduate students a renewed appreciation for their own research, the program helps to show students what scientists are really like – and helps plant the seed in some students, particularly girls, who might not otherwise consider science as a career.

Several of the Queen's volunteers are female, which defies the typical image of a scientist as a solitary, disheveled man in a white lab coat juggling test tubes.

"We want to dispel that myth," says Mr. Chenaux.

Working with youngsters has been rewarding, says biology master's student Brenda Saunders. It has helped her to hone her skills as a future professor.

"When I signed up to volunteer for Let's Talk Science, it sounded like a lot of fun," she says. "I really enjoyed T.A.-ing and I had volunteered in schools before. There is nothing like seeing a child's face light up when they understand a concept."

Mr. Chenaux urges all graduate students in the sciences to consider volunteering.

"Because you have to T.A. a lot as a graduate student, it's an excellent way to get great teaching experience and learn to handle the variables. Students can ask the most amazing questions."

"We are looking for volun-

teers in all the sciences: biology, chemistry, geology, physics, engineering etc.," says incoming LTS coordinator Tristan Long. He can be contacted at the Department of Biology, room 4325, Bioscience Complex, ext. 75134, email longt@biology.queensu.ca. For more information see the Let's Talk Science website at biology.queensu.ca/~lts.

The long-term goals of Let's Talk Science are to

- Interest young people in science
- Improve the confidence and competence of teachers in teaching science
- Encourage all people to become life-long learners of science
- Understand science learning and develop effective teaching strategies through research

www.letstalkscience.ca

See the next
Queen's Alumni Review
on campus next week



The Changing Face of Queen's
with a profile of new principal
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For the full schedule, go to Queen's Gazette Online: qnc.queensu.ca/gaz_online.php

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The Queen's University Gazette is a newspaper published by the University's Department of Marketing and Communications ("Publisher") for the primary purpose of internal communication to its faculty and staff members.

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Experts in marketing, family law and federal policy in the news

QUEEN'S IN THE NEWS

Highlights of Queen's experts in the media

■ July 31 – Aug. 17

Michael Greenspan (Electrical and Computer Engineering) discusses in *The Globe and Mail* and *New Scientist* the pool-playing robot he created.

Alvaro Morales (Urology) comments in the *Globe and Mail* on sky rocketing sales of Viagra to men between 20 and 45 years old.

Douglas Reid (Business) comments in the *Globe and Mail* and on the front page of the *Calgary Herald* about Clive Beddoe's apology over a case of alleged corporate espionage involving rival Air Canada. He also comments in the *Montreal Gazette* and *Edmonton Journal* about Air Canada's return from bankruptcy protection and in the *Hamilton Spectator* about sales of operations to ensure survival of Stelco Inc.



Harvison Young

Alison Harvison Young (Law) is interviewed for a *National Post* story about a Saskatchewan legal battle between a mother of twins and her male friend who financed the in vitro fertilization of her twins and wants visitation rights. The story receives extensive national coverage including *The Ottawa Citizen* and *Calgary Herald*.

Ken Wong (Business) comments in the *Globe and Mail* about Scott paper's re-branding of Cottonelle and in a *Denver Post* story about the merger of Adolph Coors Co. and Molson Inc.

Mark Busch (Business) comments in the *Globe and Mail* on changes to supply management systems for Canadian agriculture.

Bruce Tufts (Physiology) comments in *The Globe and Mail* about the effect on fish from surfacing too quickly in catch-and-release tournaments.

An opinion piece by **Douglas Bland** (Policy Studies) about defence policy decisions is carried by the *National Post* and *The Ottawa Citizen*.

Queen's is highlighted in the *National Post*, *Ottawa Citizen* and *Kingston Whig-Standard* in connection with research by **Laurent Seroude** (Biology) that suggests early exposure to bacteria could increase longevity.



Kumar

Pradeep Kumar discusses permission for Quebec Wal-Mart workers to unionize in the *National Post*.

Pierre du Prey (Art) discusses the art exhibit 'Ah, Wilderness! Resort Architecture in the Thousand Islands' in the *National Post*.

Opinion pieces by **Thomas Axworthy** (Policy Studies) about how Paul Martin's recent cabinet shuffle will affect our cities, child-health policy and the need for a national housing policy

appear in *The Toronto Star*.

Thomas Courchene (Policy Studies) comments in a *Toronto Star* opinion piece about the need for a social policy debate within the federal government.

Jonathan Rose (Political Studies) discusses recent political advertising prepared for Alberta Progressive Conservative MLAs by the Public Affairs Bureau in an *Edmonton Journal* story.

Douglas Reid (Business) comments in a *Canadian Press* story about Air Canada's re-structuring plans. The story is covered in the *Regina Leader-Post*, *Kitchener, Cambridge and Waterloo Record* and *Welland Tribune*.

Howard Smith (Education) comments in an *Edmonton Sun* story about children's learning styles.



Johnson

Lew Johnson (Business) discusses the current perceived volatility of high tech stocks in the *Moncton Times & Transcript*.

Kathy Brock (Policy Studies) and professor emeritus **Hugh Thorburn** (Political Studies) discuss the state of the Liberal Party in *Maclean's* magazine.

The environmentally friendly bio-wall in The Integrated Learning Centre is highlighted in the August-September issue of *University Affairs*.

The discovery of **Guy Narbonne's** (Geological science) fossils of early life forms is highlighted on *CBC TV News and*

Current Affairs, *BBC News World Edition* and *New Scientist*.

Luis Melo (Physiology) is interviewed on *CKWS TV* about his recent discovery of gene therapy that prevents damage caused by heart attacks.

Marc Busch (Business) discusses the latest round of WTO trade talks on *CBC Radio's* national business program *The Business Network*.



Donald

Betsy Donald (Geography) is interviewed on *CBC Radio Ontario Morning* about the social effects of Wal-Mart on downtown cores.



Mosco

Vincent Mosco (Sociology) comments on *CBC Radio New Brunswick and Halifax* about the changing telecommunications industry and the strike of Aliant workers in the Maritimes.

Sharynn Aiken (Law) is interviewed on *CBC Radio* regional news about refugees in Canadian churches.

Sam Shortt (Centre for Health Services and Policy Research) is interviewed on *Chum Radio* in Windsor about the future of Canadian medicare.

Doug Bland (Policy Studies) is interviewed on *CHQR* radio in Calgary about the recent purchase of military helicopters.

IN BRIEF

New integrity commissioner

Law professor David Mullan has been appointed the City of Toronto's first integrity commissioner – the first position of its kind in Canada. Prof. Mullan will take up his duties Sept. 1. The integrity commissioner will deal with complaints related to the Code of Conduct for Toronto city council, and will provide advice respecting the code and other policies governing the ethical behaviour of council members.

Athletes shine

Queen's athletes have taken on the world this summer at several international championships.

Alumnus Tim Berrett is participating in an unprecedented fourth straight Olympics in race walking. He competes in the 50 km race Friday, Aug. 27. For details, see goldengaels.com. Former Queen's sailing coach John Curtis of Kingston is competing in the sailing Olympics with partner Oscar Johansson. Former Queen's competitive club sailor Bernard Luttmmer represents Canada in the Laser boat class.

Rowers Morgan Jarvis and Simon Gowdy each won bronze in the Under 23 World Championships in Poznan, Poland. Simon Gowdy raced in the lightweight men's four and Morgan Jarvis competed in the lightweight men's double representing Canada.

Second-year Arts and Science student David Clinkard of Toronto competed with the men's triathlon team representing Canada at the 7th annual World University Triathlon Championships in Spain, in July. Law grad and award-winning pitcher Daniel Nauth of Brampton was a member of the Canadian men's baseball team that placed sixth at the recent 2nd World Baseball Championships in Chinese Taipei.

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IN BRIEF

Drivers with dementia on the rise

Changes to driver testing and assessment are urgently needed to prevent elderly people with dementia from being licensed to drive in Ontario, say Queen's and Providence Continuing Care Centre (PCCC) researchers.

A study headed by Robert Hopkins (Psychiatry and Psychology) projects that there will be nearly 100,000 drivers with dementia in Ontario by 2028 – up from about 34,000 in 2000. Crash studies have shown that such drivers are two to five times more likely to be involved in a collision than drivers with no dementia.

"Current Ontario Ministry of Transportation driving assessment procedures do not effectively screen for deficits relevant to dementia and driving, nor do they include the nearly 37,000 drivers with potential dementia aged under 80 years," the report states. Similar trends can be seen in national statistics, both in Canada and the U.S.

A road test, vision test and written test were part of Ontario's annual re-licensing process prior to 1996, but now the road test is no longer mandatory and testing occurs every two years instead of yearly. The researchers looked at data from the Ontario Ministry of Transportation, census data from 1986 and 2000, and studies on the prevalence of dementia.

Also on the research team are Queen's neuropsychologists Lindy Killik and Duncan Day, psychology student Heidi Tseng and PCCC research assistant Catherine Rows.

These Discovery@Queen's pages highlighting Queen's research news and developments are electronically distributed to our major research funding agencies and others upon request.

NEWS
and
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SERVICES

To inform us of your latest research findings or upcoming journal publications, call News and Media Services Writer Nancy Dorrance, 533-2869, or Communications Officer Lorinda Peterson, 533-3234.

Student's nano discovery could boost semiconductor industry

By NANCY DORRANCE

News and Media Services
Surprising findings from a student's PhD project on nanoscale structures may lead to new methods for preparing high quality silicon surfaces for semiconductor device applications.

Jen MacLeod (Physics) made her discovery while studying the electronic properties of nanolines (lines of atoms) "growing" on the same type of silicon surfaces as those used in microprocessors. It is expected that nanolines will eventually be used as interconnects in microchips.

When she pulled back her microscope and set it to a slightly larger scale – still only 1/1000th of a millimetre – Ms MacLeod could see that introduction of the nanolines had changed the large-scale structure of the silicon surface. The silicon surface normally exhibits two perpendicular patterns, but growth of the nanolines had eliminated one of them.

"This was a complete surprise to us. It demonstrated that it is possible to control the large-scale structure of surfaces using nanoscale features," says Ms. MacLeod, who carried out the research under the supervision of Alastair McLean (Physics).

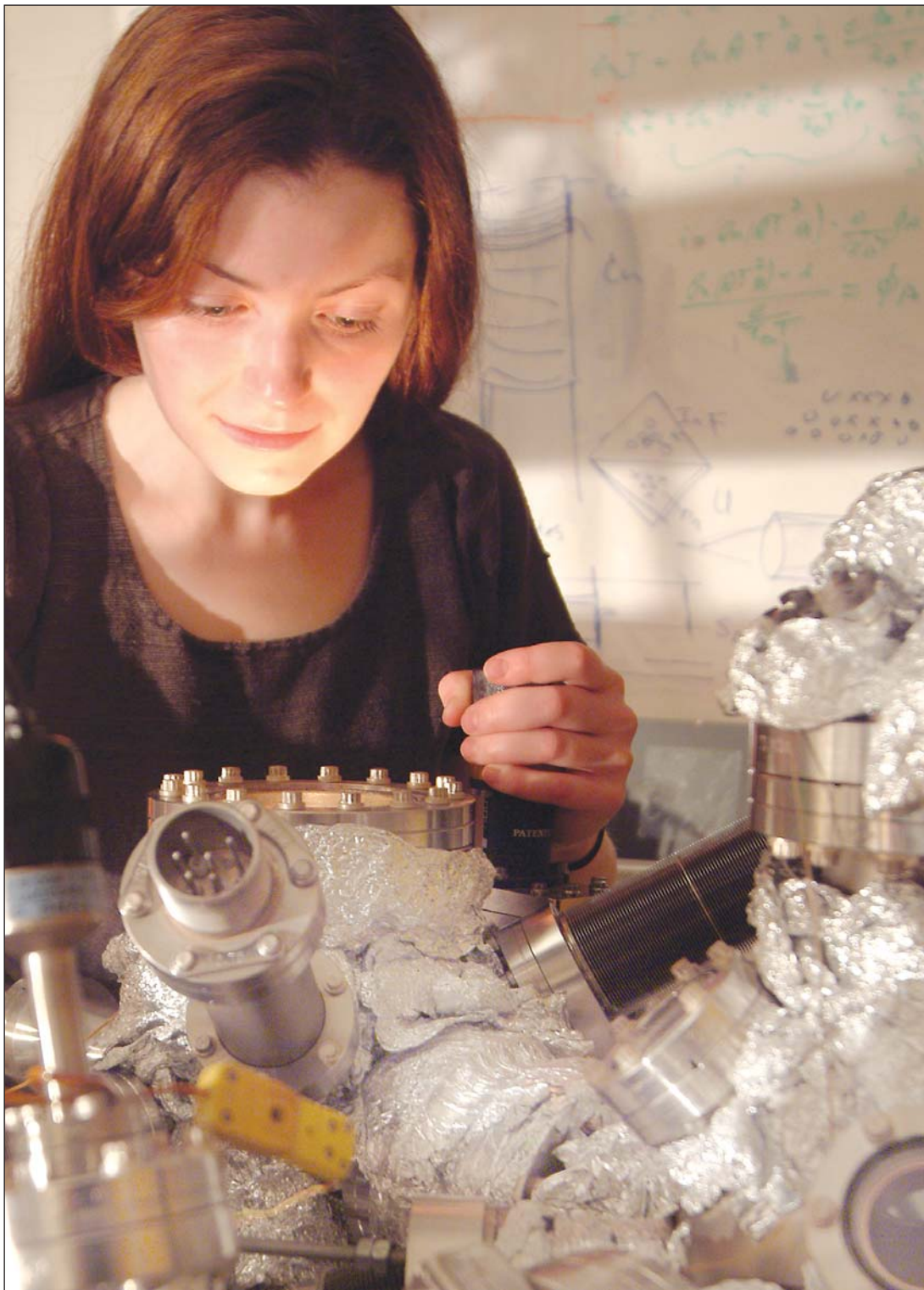
Also collaborating on the study were theoretical physicists Hiroki Miwa in Brazil, and G.P. Srivastava at the University of Exeter, UK.

Only two atoms wide, the nanolines are "grown" by depositing bismuth, a semi-metallic element, to a silicon surface. When this is done at the proper temperature, "The lines self-organize: they basically put themselves together," says Ms MacLeod.

This is much different from the "top-down" methodology used in current micro technology applications, she explains. "When you build from the bottom up, as we're doing, it's much easier to create atomically-precise structures," she says.

"This discovery raises all sorts of possibilities for new methods of growing nanolines with other materials and tailoring their properties," notes Dr. McLean.

A recent article about the Queen's research in the Ottawa-based magazine *Silicon Valley North*, quotes Dick James, senior technical analyst with the engi-



STEPHEN WILD

PhD student Jen MacLeod (Physics) prepares samples of nanolines using the scanning tunneling microscope system that she helped to design and build.

neering services firm Chipworks: "Someone in one of the larger field labs – say an IBM or Intel – may take this research and apply it towards manipulating other material with the same tech-

niques, like gold."

Her presentation of the discovery at a recent national conference organized by the Division of Surface Science won Ms. MacLeod the Peter Hobson

Prize for best oral student presentation describing PhD research.

Research funding came from the Natural Sciences and Engineering Research Council (NSERC).



COURTESY OF BOB MONTGOMERIE

Biologist Bob Montgomery eye-to-eye with rock ptarmigan during field research in Newfoundland.

Arctic bird populations at risk

By NANCY DORRANCE
News and Media Services

A Queen's researcher is calling upon the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) to add a well-known arctic bird to Canada's list of species at risk.

Two populations of rock ptarmigan from opposite ends of North America are in danger of disappearing permanently if conservation and management practices aren't changed, says Bob Montgomery (Biology).

His research team uses DNA analysis to show that both populations – one in Newfoundland's highland ranges and the other in Alaska's Aleutian Island chain – are genetically distinct from all other rock ptarmigan and should be considered separate species.

"Traditional classifications often fail to capture the diversity

and evolutionary history of organisms below the level of species," Dr. Montgomerie explains. "If we consider these populations to be distinct species, they would deserve immediate preservation under the Species at Risk Act, changing management policy on both islands and hunting practices on Newfoundland."

Currently there are 19 "endangered" and seven "threatened" bird species in Canada. Three distinct bird species are known to have become extinct in North America since 1900.

Also on the team, from the Biology Department, are researchers Karen Holder and Vickie Friesen.

Although not endangered in other arctic regions, the rock ptarmigan populations identified in this study are definitely at risk, say the researchers. In the Aleut-

ian Islands this is due to foxes that were introduced in the 18th century for fur farming, while in Newfoundland the birds are hunted by people as small game.

"Reclassification of these two populations should immediately move them into the 'species at risk' category, and thus afford them the protection they need," says Dr. Montgomerie.

Another rock ptarmigan study conducted with Drs. Holder and Bruce Lyon of the University of California is resolving the mystery of why male ptarmigans delay molting from their winter plumage each spring: an unusual pattern in birds.

Dr. Montgomerie's arctic research is funded by the Natural Sciences and Engineering Research Council of Canada (NSERC), the Arctic Institute of North America, and a Canada Council Killam Research Fellowship.

The "building blocks of life"

WORLD'S EARLIEST
EXPERIMENT IN
ANIMAL COMPLEXITY
TOOK PLACE 560
MILLION YEARS AGO

By NANCY DORRANCE
News and Media Services
Paleontologist Guy Narbonne has discovered perfectly preserved fossil evidence of the world's earliest experiment in animal complexity.

"What we are looking at is 'lost architecture': an entirely different way of putting together animals that no longer exists," says Dr. Narbonne, an expert in the evolution of animals and their ecosystems.

In 2002, he found the world's oldest complex life form between layers of sandstone on the south-eastern coast of Newfoundland. This pushed back the age of Earth's earliest known complex life to more than 570 million years ago, soon after the melting of the massive "snowball" glaciers.

"This allows us to understand how life first became complex."

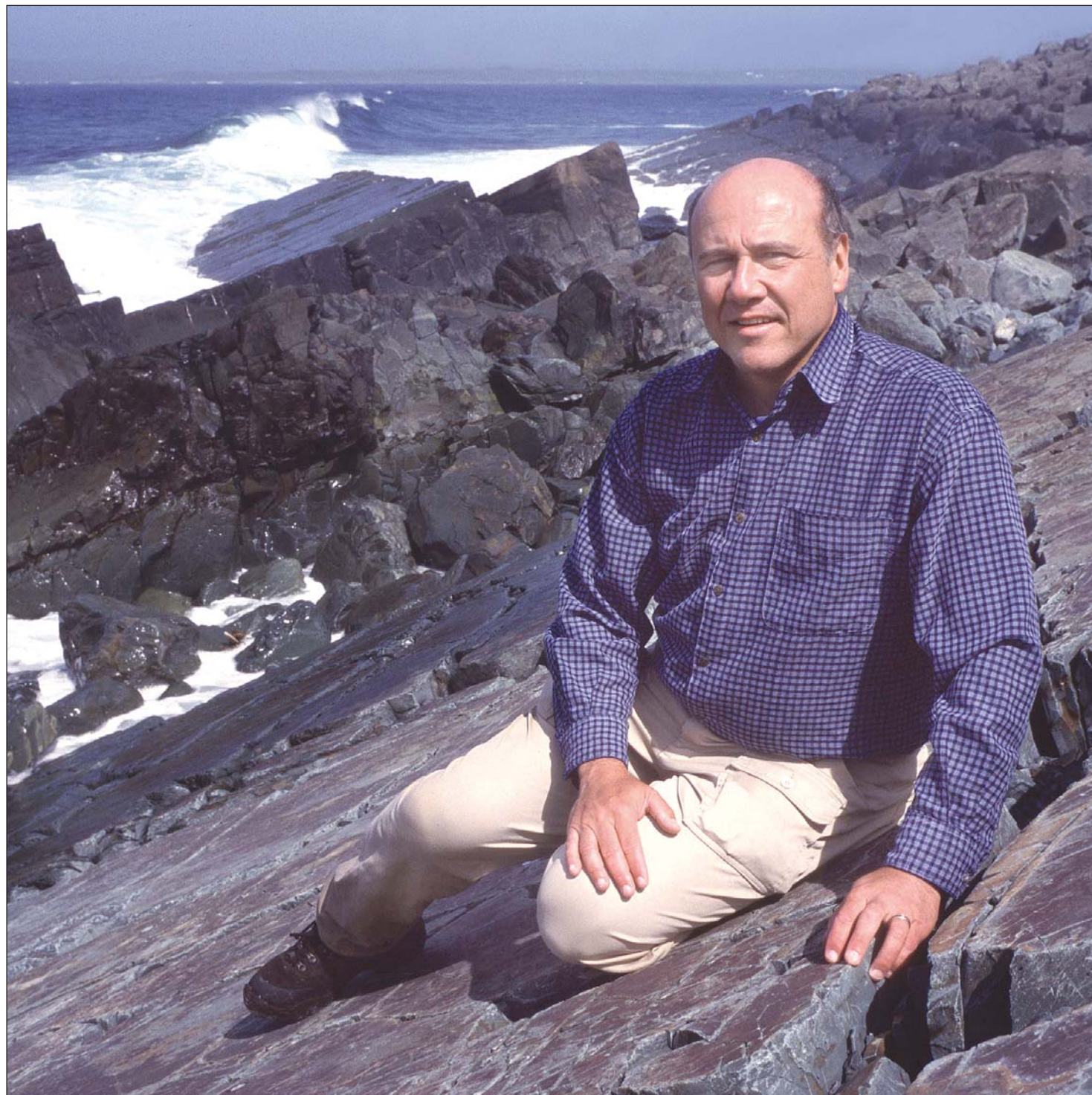
Guy Narbonne

The new discovery, on Newfoundland's northeast coast near Spaniard's Bay, is dated at about 560 million years.

These fossils are part of the Ediacara biota: soft-bodied organisms that flourished 575 to 542 million years ago. They provided the root stock for the Cambrian explosion of shelly animals 540 million years ago.

What makes the new discovery unique is that the soft-bodied organisms were entombed within deep sea mud which preserved them in three dimensions, in contrast with all other reports of early animals that are preserved as flattened impressions on sandstone beds.

Since the mud took a long time to harden, some of the organisms became partially rotted on the outside, providing researchers their first view inside



Paleontologist Guy Narbonne at his Mistaken Point exploration site on the Newfoundland coast.

GREG LOCKE

a fossil from this era. And because the mud was very fine, the fossils' resolution is "truly exquisite," says Dr. Narbonne, whose research is partially funded by the Natural Sciences and Engineering Research Council (NSERC).

This discovery shows that highly subdivided, frond-like elements about one to two centimetres, long were the "fundamental building blocks" used to make all complex life forms.

"These building blocks were

combined as modules, much like a child building a structure from Lego blocks," he says. "The modules constructed bush-, feather-, and frond-shaped colonies that filled all ecological roles of animals in this early marine ecosystem.

"This allows us to understand how life first became complex. Although the experiment ultimately failed, it shows us another pathway that life might have followed – and actually did for about 20 million years."

Gene therapy prevents heart attack damage

By LORINDA PETERSON
News and Media Services

A Queen's physiologist and a research team at Harvard Medical School have developed a novel gene therapy expected to prevent the damage caused by heart attacks and increase survival rates.

In an earlier study, Luis Melo (Physiology and Medicine) showed that a gene known as

heme oxygenase-1 (HO-1) exerts very dramatic protective effects in the heart. In the new study, investigators used a harmless virus to deliver the gene to the heart in rats.

The protective gene was equipped with several small DNA molecules that are sensitive to small changes in oxygen in the body. When oxygen decreases in the heart, such as during

a heart attack, the molecules function like a switch that turns on the protective gene. The advantage of this new system is that it allows protective protein to be rapidly produced, providing instant defence against the damage caused by a heart attack.

"The results were dramatic indeed," says Dr. Melo, Canada Research Chair in Molecular Car-

diology. "Twenty-four hours after the heart attack, the injury to the heart was reduced by more than 60 per cent. Even more importantly, the study showed that the method was equally effective in protecting other organs from damage."

This new strategy may ultimately not only lessen damage but increase survival rates for heart attack patients.

"In one way, we see this almost like a vaccine so that when patients suffer a heart attack, their hearts are sufficiently protected until other treatments can be administered," says Dr. Melo.

The research was jointly funded by the National Institutes of Health, the Edna Mandel Foundation and the Canadian Institutes of Health Research.

Not all germs are bad, new fruit fly study shows

By NANCY DORRANCE
News and Media Services

Early exposure to bacteria may actually increase people's lifespan, a research team including Queen's biologist Laurent Seroude has discovered.

Their findings show that the presence of bacteria during the first week of adult life in fruit flies – similar in genetic makeup to humans – enhances longevity by

up to 35 per cent. Later in life the effect is reversed, and lifespan is reduced when bacteria are present.

The research also questions the increased use of anti-bacterial soap, air purifiers and masks, as well as the common assumption (especially in Canada and the U.S.) that all germs are bad.

"Our study reveals dramatic beneficial and detrimental effects of microorganisms on aging,"

says Dr. Seroude. "I think the most exciting outcome of this research is the possibility to isolate from bacteria anti-aging or longevity-enhancement substances."

The digestive system, which is the most exposed to bacteria, forms a complex ecosystem affected by diet and environmental factors. To date there has been little study of the relations

between food composition, resident fauna, and gut function in fruit flies.

"Antibiotics are routinely used in human and animal populations, and there is growing concern about such practices," the researchers state in their report. "Model organisms such as *Drosophila* [fruit flies] may help to discern their effects on longevity and general well

being." The study was conducted by researchers from the California Institute of Technology, the University of California at Los Angeles, and Queen's.

Funding for Dr. Seroude's work came from the Natural Sciences and Engineering Research Council (NSERC) and the Canadian Institutes of Health Research (CIHR).

Appointments

Submission information

Please note that appointments will be edited to address style considerations and length. Submissions should be a maximum of 200 words.

As announced by Principal Karen Hitchcock of Queen's and Carol Mackillop and Ed Zarichny, chairs of the respective hospital boards:

Sherif El-Defrawy appointed head, Ophthalmology

Sherif El-Defrawy has been appointed head of Ophthalmology and associate professor with tenure at Queen's, and as Ophthalmologist-in-Chief at Kingston General and Hotel Dieu hospitals from Sept. 13, 2004 to June 30, 2009. A graduate of Queen's with a BSc (Hons) in life sciences and a PhD in pharmacology, Dr. El-Defrawy received his MD from the University of Calgary. He has served as program director for the Residency Training Program in Ophthalmology since 1999 and is the recipient of two Resident Teaching Merit Awards for Surgical Teaching. He chaired the Council on Continuing Medical Education for the Canadian Ophthalmological Society and served as a member of the Executive Committee from 1997 to 2000. He has served as Secretary for the Royal College of Physicians and Surgeons Examination Committee in Ophthalmology since 2000 and since 2003 as a member of the Sub-Committee to Examine Accreditation of Ophthalmology Sub-Specialties for the College. He is also an expert consultant in Ophthalmology to the Canadian Institute for Health Information and the Health Protection Branch of the federal government of Canada. Dr. El-Defrawy has recently been appointed as president of the Canadian Ophthalmological Society. Principal Hitchcock expresses appreciation for the outstanding leadership provided by Dr. Martin ten Hove as acting head of Ophthalmology.

Julio Arboleda-Florez reappointed head of Psychiatry

Julio Arboleda-Florez has been reappointed as head of Psychiatry at Queen's and as Psychiatrist-in-Chief at Kingston General Hospital, Hotel Dieu Hospital and Providence Continuing Care Centre Mental Health Services from

July 1, 2004 to June 30, 2007. A graduate of the Universidad Nacional in Colombia (MD 1964), Dr. Arboleda-Florez joined the Queen's faculty as professor and head of Psychiatry in 1998. He previously held positions at the University of Ottawa and the University of Calgary and completed a PhD in Epidemiology at the University of Calgary. He holds a cross-appointment in Psychology at Queen's, an adjunct appointment at the University of Ottawa, and visiting professorships at universities in Chile and Colombia. He is a reviewer for research councils in Alberta and Quebec and he is the President of the Canadian Academy of Psychiatric Epidemiology. He holds major positions in the World Psychiatric Association and the International Academy of Law and Mental Health. He has published extensively in the areas of psychiatric ethics, forensic psychiatry and psychiatric epidemiology, most specifically on the ethics of research among vulnerable populations, mental illness and violence, and the epidemiology of depression and the stigma of mental illness. Dr. Arboleda-Florez is a Distinguished Fellow of the American Psychiatric Association, Member Emeritus of the Psychiatric Association of Brazil, and Honorary Member of the World Psychiatric Association. In 1998, he was the recipient of the Bruno Cormier Award, the highest national recognition in Forensic Psychiatry, and in 2003 he was awarded the Recortor Medal, the highest award at the Universidad Nacional of Chile.

On the unanimous recommendation of the advisory committee Vice-Principal (Research), Kerry Rowe announces:

Lorna Jean Edmonds appointed director, Research Services

Lorna Jean Edmonds has been appointed as director of Research Services for a five-year term effective Aug. 9, 2004. Dr. Edmonds currently serves as director of the International Centre for the Advancement of Community Based Rehabilitation (ICACBR). Dr. Edmonds has been involved in undergraduate and graduate courses in Community-based Rehabilitation, Management and Health Policy for the School of Rehabilitation Therapy in the Faculty of Health Sciences. She holds a PhD from the School of Development Studies of East Anglia, UK and a Master of Health Administration from the University of Ottawa. In making this announce-

ment, Dr. Rowe expresses his appreciation to Sandra Crocker for her outstanding contributions to the university during her term as director of Research Services.

New Faculty Appointments

Faculty of Health Sciences:

Anne Croy, Anatomy and Cell Biology (July 1/04)

Scott Duggan, Anesthesiology (Aug. 1/04)

Dale Engen, Anesthesiology (July 1/04)

Michael Boffa, Biochemistry (July 1/04)

Colin Funk, Biochemistry and Physiology (July 1/04)

Ian Janssen, Community Health and Epidemiology/Physical Health and Education (July 01/04)

Harriet Richardson, Community Health and Epidemiology (Aug. 15/04)

Kieran Moore, Emergency Medicine (July 1/04)

Paula James, Medicine, Division of Haematology/Oncology (July 1/04)

Cynthia Baker, Nursing (July 1/04)

Robert Liao, Pathology and Molecular Medicine (July 26/04)

Department of Mechanical and Materials Engineering

Il-Yong Kim (July 1/04)

Awards and Grants

Exhibition assistance grants

The Agnes Etherington Art Centre invites visual artists and craft artists in eastern Ontario to apply for grants of \$500 to \$1000 to cover costs related to confirmed upcoming exhibitions. Deadlines for submissions are Sept. 15, 2004 and Jan. 15, 2005. Contact Jan Allen at 533-2190.

Committees

Advisory Committee, Centre for Manufacturing of Advanced Ceramics and Nanomaterials (CMACN)

In accordance with procedures adopted by Senate for the establishment of university centres, Tom Harris, Dean, Applied Science has established an advisory committee to advise him on a proposal for the formal establishment of the Centre for Manufacturing of Advanced Ceramics and Nanoma-

terials (CMACN) as a faculty centre. Members are: Geoffrey Lockwood, Physics; Andrew Pollard, Mechanical Engineering; Carlos Saavedra, Electrical and Computer Engineering; Bill Thompson, Chemical Engineering (RMC); Markus Timusk, Graduate Student, Mechanical Engineering; Dave Turcke, Civil Engineering (Chair); Dave Pardy, Applied Science (Secretary). Members of the university community are invited to submit comments on the establishment of the centre. They should be directed to the chair of the committee, in care of Ann Messenger, Office of the Faculty of Applied Science, by Friday, Sept. 3. To obtain a copy of the complete proposal phone 533-2056.

Principal's Advisory Committee, Dean of Student Affairs

Principal Karen Hitchcock announces the membership of the committee to advise her on the responsibilities and structure of the Student Affairs portfolio and on the selection of the dean. Robert Crawford has indicated that he does not wish to be considered for another term. Members: Kathy Beers, Assistant to the Dean of Student Affairs; Jo-Anne Brady, University Registrar; Mary Margaret Dauphine, University Advisor on Equity; Janice Deakin, Director, Physical and Health Education; Suzanne Fortier, Vice-Principal (Academic) Chair; Tom Harris, Dean, Applied Science; Sam Hosseini, President, Society of Graduate and Professional Students; Ahmed Kayssi, Rector; Greg Lessard, Acting Associate Dean, Arts and Science; Catherine MacNeill, Director, Alumni and Donor Relations; Patrick McNeil, Executive Assistant to the Vice-Principal (Operations and Finance); Merrilee Muir, Executive Assistant to the Vice-Principal (Academic), Secretary; John Pierce, Associate Dean (Studies), Arts and Science; Tyler Turnbull, President, Alma Mater Society. Members of the university community who still wish to comment on the responsibilities and structure of the Student Affairs portfolio and on the selection of the dean should submit letters to Dr. Fortier. Respondents should indicate whether they wish to have their letters shown, *in confidence*, to advisory committee members.

Principal's Advisory Committee, Vice-Principal (Academic)

Suzanne Fortier's appointment as Vice-Principal (Academic) ends June 30, 2005. Dr. Fortier has indicated that she does not wish to seek reappointment. In accordance with established practice, Principal Karen Hitchcock will convene a committee to advise her on the present state and future prospects of the Office of the Vice-Principal (Academic) and on the appointment of a Vice-Principal. Members of the university community are invited to submit suggestions for the membership of the committee. Respondents are asked to submit their nominations, in writing, to the principal by Sept. 10.

Principal's Advisory Committee, Vice-Principal (Research)

Principal Karen Hitchcock announces the membership of the committee to advise her on the Vice-Principalship (Research). Members are: Julian Barling, Business; Stan Brown, Chemistry; Mary

Margaret Dauphinee, University Advisor on Equity; Martin Duncan, Associate Dean (Research), Arts and Science; Suzanne Fortier, Vice-Principal (Academic); Karen Hitchcock, Principal and Vice-Chancellor (Chair); Sam Hosseini, President SGPS; Samuel Ludwin, Associate Dean (Research), Health Sciences; Douglas Mewhort, Psychology; Leslie Monkman, Special Advisor to the Principal (Secretary); Mary Purcell, Manager, EQUIP; Uli Scheck, Dean of Graduate Studies and Research; Sebastian Schütze, Art History. Members of the university community are invited to submit their views to the principal on the Office of the Vice-Principal (Research) and on the possible reappointment of Kerry Rowe as Vice-Principal (Research). Dr. Rowe has agreed to consider reappointment should this be the wish of the university community. Respondents are asked to state whether they wish to have their letters shown, in confidence, advisory committee members. Letters should be received by Friday, Sept. 10.

Other Positions

Coordinator, Tailored English Language Programs, School of English

This is a one-year renewable contract. **Responsibilities:** develop programs, procedures and policies for tailored English language programs; develop and negotiate budgets; investigate market demand for short-term internship programs for international students; organize tailored program details such as registration, accommodation and orientation; liaise with other university departments. **Requirements:** three-year post-secondary program with extensive ESL teaching experience; experience in program planning and supervision, budgeting, financial administration and curriculum development; ability to communicate effectively with people of different generations and varied cultural and linguistic backgrounds; knowledge of Japanese educational systems, language and culture; supervisory skills and ability to promote a team environment; analytical, interpretive, and problem-solving skills, including excellent research skills; resourcefulness, creativity, and initiative. **Hiring Salary:** Grade 7, \$41,550 minimum. Apply by Sept. 1 to Andy Curtis, Executive Director, School of English, 96 Lower Albert Street, ext 77192, curtisa@post.queensu.ca.

Laboratory Technologist, Microbiology and Immunology

This is a full-time one-year contract position in molecular virology starting Oct. 15, 2004 with the possibility of renewal. **Responsibilities:** study the mechanisms of DNA replication, gene regulation and host range determination of baculovirus; maintain cell cultures and media; purchase materials and supplies; perform experiments in molecular virology under the direction of the principal investigator; maintain inventory records and equipment; and ensure proper adherence to laboratory safety regulations by all lab personnel. **Requirements:** post-secondary degree in biotechnology or biological science; experience working with cell cultures; experience work-



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ing with viruses and recombinant DNA including cloning, gene expression and protein purification an asset; ability to perform multiple tasks at the same time, to keep accurate records of experimental procedures, and a willingness to assist undergraduate and graduate students in their research programs. **Salary:** Grade 4, \$30,824 plus benefits

Apply in writing with the names and contact addresses of three references to: Dr. Eric Carstens, Department of Microbiology and Immunology, Botterell Hall, Queen's University, Kingston, ON K7L 3N6. Fax: 613 5336796

Research Technologist, Physiology

This is a full-time one-year contract with a probationary period of 3 months, and the possibility of renewal for up to 5 years.

Responsibilities: assist in the optimal function and day-to-day operations of a research lab studying the mechanisms of cardiovascular disease; prepare stock solutions, buffers and cell culture media; maintain basic lab equipment; maintain inventory and replenish supplies as necessary; manage a transgenic mouse colony including genotyping, isolation of tissues and preparation of sections; monitor and dispose of radioactive and other hazardous chemicals, in accordance with health and safety regulations; maintain precise and accurate laboratory notebooks; participate in experimental work independently and in close connection with a research associate in the laboratory.

Requirements: BSc or three-year community college diploma in the biochemical/biological sciences; experience in the areas of physiology and molecular biology; experience working with mice; a familiarity with computers and the internet; excellent interpersonal and communication skills.

Salary: \$32,311 plus benefits. Apply in writing or by fax with three letters of reference to: Dr. Colin Funk, Department of Physiology, Queen's University, funkcc@post.queensu.ca. Fax: 533-6880 by Aug. 31. The university thanks all who express an interest and advises that only those selected for an interview will be contacted.

Notices

Employee Assistance Program

For off-campus professional counselling call toll free: 1-800-387-4765 (français 1-800-361-5676) 24 hours a day, seven days a week. Further information is available at www.queensu.ca/eap/.

Tuition Support Plan on-line application system available

In late Aug. or early Sept. the on-line application form will be available for all eligible employees for the Tuition Support Plan. The Tuition Support Plan benefit has specific terms and conditions as to eligibility and entitlement and submission periods for each employee group. We recommend each person review those terms and condi-

tions prior to using the on-line system. A link to the terms and conditions will also be on-line. To use the on-line system go to: <https://appster.its.queensu.ca/apps/tuitionsupport/> For assistance, please contact Susann Gauthier, Human Resources ext. 78859.

Milestones

Compiled by Faye Baudoux

If you have a milestone of 5, 10, 15, 20, 25, 30, 35, 40 years or more of continuous service coming up and you do NOT wish your name to be included in the listing, please contact Faye in Human Resources at 77791.

Congratulations to those who reached the following milestones in:

June 2004

25 years: Audrey Hunt, Emergency Medicine

20 years: Peter Lewis, Education Library; Donna Sly, Campus Security

15 years: Hugh Flemington, School of Business; Maureen Freedman, Chaplain's Office; Stephen Hartley, PPS; Gordon Maxwell, Parking and Grounds; Rose Silva, School of Graduate Studies

10 years: Roland Dupras, Psychology
Five years: Mary Halligan, Clinical Trials; Denise Michaud, Biology; Henry Pardoel, Athletics and Administration; Stanly Prunster, Civil Engineering; Julie Wimmer, Obstetrics and Gynaecology

BULLETIN BOARD

Notices

Physical Education Centre

Building hours to Sept. 3, 2004 Monday to Friday, 7 am to 7 pm Saturday and Sunday, Closed Sept. 4 to 6, 2004 Saturday and Sunday, 10 am to 4:30 pm Monday Closed

Rental Listings Needed

The International Housing Office seeks rental listings for incoming international students and scholars for the Fall and Fall/Winter terms. To submit listings for houses, apartments, rooms in either a landlord's home or in shared accommodations with other students, please visit www.queensu.ca/quic/housing and access "Rental Property Submission Form" or call 533-2604 ext. 74650.

PhD Examinations

Regular university staff may attend PhD oral thesis examinations.

Monday, Aug. 23

Ayse Karaman, Computing. QoS-routing for group communication. Supervisor: H.S. Hassanein, 524 Goodwin, 10 am.

Wednesday, Aug. 25

Suzanne Goldbaum, Psychology. Understanding participation in harassment – a social cognitive approach to understanding harassment behavior among younger

HELP LINES

Campus Security Emergency Report Centre:

533-6111

Human Rights Office
533-6886

Irène Bujara, Director

Sexual Harassment Complainant Advisors:

Margot Coulter, Coordinator
533-6629

Chuck Vetere – Student Counselling
533-2893 ext. 77978

Anti-Racism Complainant Advisors:

Stephanie Simpson, Coordinator
533-6886

Audrey Kobayashi – Geography,
533-3035

Anti-Heterosexism/Transphobia Complainant Advisors:

Julie Darke, Coordinator
533-6886

Eleanor MacDonald, Politics
533-6631

Coordinator of Dispute Resolution Mechanisms:

Please contact the Coordinator of Dispute Resolution Mechanisms, at 533-6495 for assistance or referral to a Grievance Advisor.

Sexual Harassment Respondent Advisors:

Paul Banfield – Archives
533-6000 ext. 74460

Mike Stefano – Purchasing
533-6000 ext. 74232

Greg Wanless – Drama
533-6000 ext. 74330

Anti-Racism Respondent Advisor:

Ellie Deir – Education
533-6000 ext. 77673

Internal Dispute Resolution
SGPS Student Advisor Program
533-3169

University Dispute Resolution Advisors – Students:

Please contact the Coordinator of Dispute Resolution Mechanisms, at 533-6495 for assistance or referral to a Grievance Advisor.

University Grievance Advisors – Staff:

Kathy Beers – Student Affairs
533-6944

Bob Burge – JDUC
533-6000 ext. 78775

Gary Racine – Telecommunications
533-3037

Freedom of Information and Privacy Protection

Information Officer
533-2211

Commissioner
533-6095

Employee Assistance Program

1 800 387-4765

University Chaplain:

Brian Yealland
533-2186

Rector
Ahmed Kayssi
533-2733

Student Counselling Service

533-2893

*Internal numbers may be accessed from a touch-tone phone off-campus by dialling 533-6000 + extension number.



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and older adolescents. Supervisor: W.M. Craig, 228 Humphrey, 1:30 pm.

Jalia Kangave, Law. Improving tax administration: Uganda as a case study. Supervisor: K. Brooks, 515 MacDonald, 10:30 am.

Friday, Aug. 27

Stella Spriet, French. Para-doxa: Regards sur les pièces <<classiques>> du XVIIe siècle et re-positionnement de la notion d'unité. Supervisor: A. Conacher, 318 Kingston, 1:30 pm.

Wednesday, Sept. 1

Marie-Louise Tougas, Law. Transnational corporations and international law: liability or impunity? Supervisor: S.J. Aiken, 515 MacDonald, 1 pm.

Thursday, Sept. 2

Eleanor Frith, History. Pseudonuns: Anglican sisterhoods and the politics of Victorian identity. Supervisor: M. Van Die, 521 Jeffrey, 9:30 am.

Wednesday, Sept. 8

Kimberly Zelonka, Physics. Sol-gel composite hydrothermal process-

ing of barium strontium titanate films for microwave frequency applications. Supervisor: M. Sayer, A.P. Freundorfer, 201 Stirling, 1 pm.

Jan Baker Wilson, Psychology. Determinants of female physical attractiveness and body image: the role of waist-to-hip ratio and body mass index. Supervisor: F.J. Boland, D.A. Tripp, 228 Humphrey, 2:15 pm.

Dianne Ford, Management. Knowledge sharing: seeking to understand intentions and actual sharing. Supervisor: D.S. Staples, 402B Goodes, 9 am.

Thursday, Sept. 9

Jason Pither, Biology. Distribution, abundance, and diversity: novel insights at continental and regional scales. Supervisor: L.W. Aarssen, 3110 Biosciences Complex, 1:30 pm.

Friday, Sept. 10

Elizabeth Elliott, History. "Keep the flag flying", medical outposts and the Red Cross in Northern Ontario 1922 - 1984. Supervisor: J.M. Duffin, 222 Watson, 10 am.

Lee Ann O'Brien, Pathology and

Molecular Medicine. Identification and characterization of mutations in the von Willebrand Factor gene that affect von Willebrand Factor multimer size. Supervisor: D.P. Lillcrap, 107 Richardson Laboratory, 9 am.

Nyelisani Tshitereke, Political Studies. Gear and labour in post apartheid South Africa - a study of the gold mining industry 1987 - 2004. Supervisor: B.J. Berman, C326, Mackintosh-Corry, 1:30 pm.

CALENDAR

Art

The Agnes Etherington Art Centre

University Avenue
Samuel J. Zacks Gallery, *Baroque Flourishes, Première Series* Aug. 29 to Nov. 28; Contemporary Feature Gallery, Erik Edson, *fable* to Aug. 29; *Ah, Wilderness! Resort Architecture in the Thousand Islands* to Sept. 29; Bader Gallery; The Davies Foundation Gallery, Arnaud Maggs, *Orford String Quartet* to Sept. 6; Frances K. Smith Gallery, *The Nature of Work* to Dec. 19; Etherington House, *Agnes Etherington, A Legacy*, ongoing; African Gallery, *Metal Work of West Africa: a selection from the Justin and Elizabeth Lang Collection* to July 31, 2005. www.queensu.ca/ageth/

Union Gallery

Surface Detail, Laurena Nash, Bethany Jo Mikelaït and Wilmar Kam, Sept. 10 to Oct. 5.

Reception Saturday, Sept. 25, 6 pm in the gallery. www.uniongallery.queensu.ca/

Music

Saturday, Sept. 18

School of Music
A Concert of Chamber Music by "Trio Chanteclair" (Thomas Davidson piano, Tracy Davidson soprano, Gordon Craig clarinet). Dunning Hall Auditorium, 7:30 pm. adults \$12, students and seniors \$6. Tickets are available at the door.

Departmental Seminar Schedules

Biochemistry
meds.queensu.ca/biochem/index.php/seminar_series

Biology
biology.queensu.ca/seminars/dss.html

Business
business.queensu.ca/research/conferences/index.html

Centre for Neuroscience Studies
<http://queensu.ca/neurosci/seminar.html>

Chemistry
<http://chem.queensu.ca/NEWSAN/DEVENTS/Seminars/Seminar02W.PDF>

Computing
<http://cs.queensu.ca/seminars/>

Economics
<http://qed.econ.queensu.ca/pub/ca>

lendar/week.html

GeoEngineering Centre at Queen's - RMC
www.geoeng.ca/GENG840_Schedule.htm

Human Mobility Research Centre
www.hmrc.ca

Pharmacology/Toxicology
meds.queensu.ca/medicine/pharm/

Physiology
meds.queensu.ca/medicine/physiol/physiol.sem.html

Policy Studies
localendar.com/public/spscal

Special Events

Wednesday, Sept. 15

Queen's Women's Association
Membership reception and tea at Summerhill for members, prospective members and guests. 10:30 am to 3 pm. Information, Lynn Nolan, 389-8747.

Submission Information

To ensure we run your information correctly, Calendar items must appear in this format:
date, department, speaker's name and affiliation, title of lecture, place, time, and cost if appropriate.
Please submit your information in the body of an email message to: gazette@post.queensu.ca
The next *Gazette* deadline is Friday, Sept. 3 at noon.

University Job Postings

As of July 1, Human Resources has discontinued posting job advertisements for general staff, CUPE Local 229 and CUPE Local 254 positions in the *Gazette*. Jobs will continue to be posted on the Human Resources website at www.hr.queensu.ca and have moved to a weekly advertising schedule. This will allow departments to fill jobs faster and employees to have a consistent weekly date to check for postings on the web. Jobs will be posted on the HR website every Friday morning, and will be removed from the site the following Thursday afternoon. The deadline for submitting an employment requisition form for posting a job will be Wednesday at 4:30 pm. To post a General Staff or CUPE Local 229 and 254 position on the website, Employment Requisition forms (blue sheets) must be submitted to the appropriate employment coordinators accompanied by a position summary/description that has been approved and evaluated by the Compensation Unit. If the Compensation Unit has not approved the position summary, there may be a delay in posting the job. To ensure that there are no delays in posting a job, Human Resources recommends that the position summary is sent to the Compensation Unit at least 7 days in advance of the posting cut-off date. In the summer, some departments may wish to leave a posting on the website for longer than one week. Details should be confirmed with the employment coordinator.

Research and contract job postings

Research and contract job postings formerly posted in the *Gazette* (Other Positions) are also moving to the Web. As of Sept. 1, 2004, researchers will be able to post research and contract jobs on the Human Resources website free of charge. Research jobs will follow the same weekly posting cycle as staff jobs. Postings may be left on the system for more than one week. This new optional job posting service will assist both research staff and researchers in ensuring that research jobs are posted quickly and efficiently to the whole community. As of the Sept. 13, 2004 issue, the *Gazette* will no longer publish research and contract job ads as a free service. Researchers will continue to have the option of advertising job postings in the *Gazette* using paid display (box) advertising. Details are available at qnc.queensu.ca/gaz_online.php or by calling 533-6000 ext. 75464. Human Resources has been testing this self-serve job posting service over the past several weeks and is finalizing the system over the summer. To post research positions using this service, the researcher must first ensure that a position summary is evaluated and approved by the Compensation Unit. A copy of the approved position summary will be linked to the advertisement. To ensure that there are no delays in posting a job, Human Resources recommends that the position summary is sent to the Compensation Unit at least 7 days in advance of the posting cut-off date. Researchers or departmental administrative designates must have a university NETID to use the service. More detailed information about the new service will be sent to departments in August.

Access to postings

While most employees have computer access in the workplace or at home, public computer sites are also available across campus, including: Stauffer, Douglas, Bracken (Botterell Hall), Education (McArthur Hall, West Campus) and William R. Lederman Law libraries; Mackintosh-Corry Hall main thoroughfare near the cafeteria; B109 and B111 Mackintosh-Corry and 155 Jeffery Hall. CUPE Local 229 jobs will also be posted on bulletin boards in work areas in Physical Plant Services (PPS), Residences and Athletics. Jobs details for staff job postings will continue to be available in the Human Resources department in Richardson Hall. Hours are 8:30 am to 4:30 pm weekdays. (During July and August, the office will be closed noon - 1 pm). For questions about these changes, please contact Employment Coordinators Pat Eaton (ext. 74176) or Susan Goodfellow (ext. 74183) or Manager, Employment, Planning and Development Julie Mekarski (ext. 74803).

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