

Laurentian  Laurentienne

spring/summer 2004

Magazine

for alumni and friends

**FEATURE STORY:
SNO SOLVES
LONG-STANDING
ENIGMA**

**LU RESEARCH CENTRES
PROFILED**

**TOP EMPLOYMENT RATES
FOR LU GRADS**

**Raising questions,
seeking answers**

The never-ending
quest of research

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Transcontinental LGM Graphics (Winnipeg, MB)

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Note: Only LU degrees are listed.

The views expressed in the *Magazine* do not necessarily reflect official positions of the Laurentian University Alumni Association (LUAA) or Laurentian University.

The Laurentian University *Magazine* is published three times yearly by Alumni Relations with input from the Advisory Council.
 Circulation: 25,800 • ISSN 1489-579X
 Publications Mail Agreement Number 40063502

Return undeliverable Canadian addresses to:
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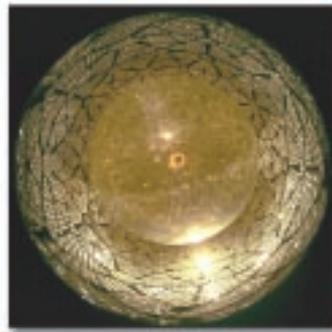
NOTE:

If you are the parent of a graduate who no longer maintains a permanent address at your home, or if you are a graduate who receives more than one copy of the *Magazine* at your address, please notify Alumni Relations.

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LU Research Centres: where questions are answered

Laurentian University professors from a variety of disciplines are busy solving problems and seeking answers to questions. Their often pioneering work is highly respected and much appreciated. Imagine how rewarding it is for LU students and alumni who have the opportunity to work with them.



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The ‘Famous Four’ celebrated on NSERC’s 25th

Since the inception, 25 years ago, of the Natural Science and Engineering Research Council (NSERC), four LU researchers have managed to secure research grants each and every year. LU celebrated this outstanding achievement.

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Hail to you all!

I am just one of the many new faces on campus. I am replacing Linda Buchowski as Communications Officers and as Editor of the Magazine for the duration of her maternity leave. I am pleased to report that Linda gave birth to a beautiful healthy girl on Sunday, April 4, at 6:23 a.m. She and her husband Mike, BCom 1991, have named their 6 lb. 10 oz. beauty Kathrin Agnes. Latest reports indicate that Linda is "getting used to and thoroughly enjoying [her] new little family life." Congratulations to the Buchowskis!

As far back as I can remember, I have always wanted to understand how things work and why they are done in such a way. There were times, I must admit, when this personality trait seemed to annoy my parents. I was even nicknamed "Mademoiselle Pourquoi" (Miss Why). Later on, in university, I was told that I had a "very inquisitive mind". What was I to make of that? At that time I decided, once and for all, that this curiosity, this search for understanding, was a quality, a positive attribute.

Imagine the thrill of putting together this issue of the Magazine which focuses on research. In the process, I discovered others who were interested in finding answers to their questions, some of them passionate enough about it to make it their living. Find out more about LU's celebrated researchers and research centres.

Our feature story, "Landmark Science from the Land of SNO," is about the world-renowned research activities of the Sudbury Neutrino Observatory (SNO). Dr. Clarence Virtue, Associate Professor and Graduate Coordinator at LU's Department of Physics and Astronomy – also one of the expert scientists of the SNO team – devoted much of his precious time trying to explain to all of non-experts, like me, what is the interest of neutrinos, these "zillion little ones."

Research activity has been going on at LU far before SNO was in operation in 1997. In fact, on May 20th, LU celebrated NSERC's 25th anniversary by honouring four of its professors who, during each of those 25 years, were awarded research and equipment grants for their work. Quite a feat, given the highly-rigorous selection process of these competitions!

In the Alumni Association News section, you will find that your Association has been quite busy, particularly with Spring Convocation, an Alumni reception in Vancouver, and its Annual Golf Tournament. LUAA is also seeking volunteers to become mentors and to host Student Send-Offs.

By the time you receive this issue, we will be well into summer. Many will be enjoying well-deserved holidays, others will long for them. Whether you find yourself traveling or work-bound, take the time to look around you and to re-discover the world and its marvels. And please, feel free to ask yourself a few whys and hows!

Pauline A. Ouellette, BEd 1991

readers' thoughts

Reader's comments

"I continue to receive the Alumni magazine and enjoy the read. Although, being a graduate in '66 – yes, I am getting on – I find most of the information is on more recent grads. This is not a criticism... it's just the way it is. I do enjoy seeing the odd bit about the older grads and at the same time am saddened to read the obits and see of old friends who have passed away. Keep up the great work. It is a worthy publication."

**Art Thompson, BA 1966,
Thornbury, Ontario**

Thank you, Art, for your relevant comment and for your words of encouragement; we always appreciate such input. Like Art, the editorial team would like to receive more news from those "long-term" alumni. Notice to the grads from the 1960s and 1970s. How are you getting on? Where are you now?

Alumni Success

"Pam and I have a home-based translation business that has been flourishing for the last 14 years or so. (Fingers crossed that it continues that way.) It's a great life and I owe it all to my translation program. Seriously, I likely wouldn't be where I am without a translation degree, and I never regret my choice of career. [...] We do get your magazine [...] and it's always fun to keep track of old faces."

**Terry Knowles, BTRN 1979,
Montréal, Québec**

Send us your thoughts on the Magazine or its contents! Forward your message by mail (see p. 1) or email to magazine@laurentian.ca.



EXTRA! EXTRA! READ ALL ABOUT IT!

Here is Kathrin Agnes, the pride and joy of the Buchowskis, ready to go through this issue of the Magazine.

ERRATA

In the last issue, the Editor referred to the Spring Solstice. Attentive readers noticed this and contacted us to point out that there is only the June solstice – known as the summer solstice – and the December solstice – known as the winter solstice. We apologize for the error but at the same time we are pleased to see how closely our publication is read from one cover to the other.

We also apologize to Stephanie Gregg, owner of SURFIT, profiled in our winter issue. Her name and degree information should have read Stephanie (Todd) Gregg, BPHE 1974, DFMT 1985.



president's message

Spring was a season for celebration as Laurentian conferred degrees upon over 1,000 graduates at eight convocation ceremonies: five in Sudbury, one at each of our affiliates, Algoma University College in Sault Ste Marie and Collège universitaire de Hearst, and our first-ever ceremony in Barrie for Laurentian students who completed their Bachelor of Arts at our partner institution, Georgian College.

Some people ask me how I manage to stand there, hand out all those degrees, shake all those hands, and still keep smiling. It is tiring, but it is a good tired. There were amusing moments – like when a big, burly male student embraced me and nearly knocked my presidential hat off my head. There were touching and moving ones, too, as our students made their way across the stage, glowing with pride or eyes brimming with tears.

I always enjoy meeting former students, which I continue to do at formal alumni gatherings in several locations, including the most recent one at the Vancouver Aquarium. I also run into Laurentian alumni by chance, as I have reported previously. What makes me particularly proud and happy is to learn about how well they have done and how satisfied they are with the quality of education they have received. A recent survey has confirmed this. Laurentian ranked first among the 18 Ontario universities in a recent study measuring employment rate of students: 97.3% are employed six months after graduation and 97.4% two years after graduation (compared with the provincial average of 93.6% and 95.8%, respectively).

We have worked hard, in the past year, to implement many of the ambitious goals set out in our strategic plan, *Building on Excellence*. We have attracted excellent students, from our region, from other parts of Ontario, from across the country, and from abroad. A record number, in fact, with total enrolment exceeding 8,000. For next year, we project an even greater number. We have also recruited outstanding new faculty and staff, including a new Vice-President, Academic (Anglophone Affairs), Dr. Susan Silverton.

We continue to carry out ground-breaking research that meets the needs of our community and captures the attention of our colleagues across the country and around the world. This is a very timely issue of the *Magazine* given that we have just launched our second PhD program, with three others having received internal approval this past year. These programs, associated with our areas of research strength, will attract the kind of faculty and students who will enable us to perform even better. In addition, we have created a new position: Associate Vice-President, Research, to be held by Dr. Liette Vasseur, a distinguished researcher herself.

Construction of a new building to house the Northern Ontario Medical School is underway and accreditation has been confirmed. As of this

continued on p.5 ►

Laurentian matters

Alumni Association news

ALUMNI RECEPTION IN VANCOUVER

Dr. Judith Woodsworth, President, and Lisa Demers-Brooks, Manager, Alumni Relations,

met with Laurentian alumni and friends in Vancouver this past May. Many thanks to Maurice Brillon, BA 1972, who helped organize a reception at the Vancouver Aquarium.

The Laurentian University Alumni Association looks forward to hosting future chapter events in British Columbia.



Vancouver Reception

WELCOME NEW GRADUATES

The Laurentian University Alumni Association welcomed over 1,000 new graduates to its growing family this past June.

Congratulations on reaching this important milestone! We look forward to your active participation in your alumni association.

4th row (from left) – Ron Orser, Charles Hamilton, SPAD 1980, Jeffrey Cummins, BCom 2002, Joel Wedgbury, BA 1998, Mary-Lee Johnston, BScN 1980, Brian McParland, BSW 1973
3rd row (from left) – Sherwin Lim, MBA 1986, Suzanne Brillon, Maurice Brillon, BA 1972, Dr. Judith Woodsworth, President, Victoria Lowrie, Lisa Demers-Brooks, BA 1990, BEd 1994, Manager, Alumni Relations, Colleen McParland, BA 1973
2nd row (same order) – Jane Orser, BSc 1990, Christine Wasylshyn, BScN 1980, Marissa Poratto, BA 1980, Judy Tredgett, SPAD 1977, Lynn Asselin, Jennifer Arthur, BCom 1985

Front row – Henri Poratto and Lindsay Cryslor
Missing from photo – Jim Goring, BSc 1973



A special thank you to the following alumni who helped officially welcome these new graduates: Louise Paquette, BTRN 1976, Suzanne Fortin, BCom 1994, Laurie Bissonette, BSc 1979, Brendan Ashcroft, BA 1999, and Tina Sartoretto, BPHE 1975.

HONORARY DEGREE RECIPIENTS

Laurentian University awarded honorary doctorates to the five following distinguished citizens: Kaireen Crichton, a long-time Sudbury activist who founded the Sudbury Soup Kitchen in 1982 received an honorary Doctor of Laws; Tomson Highway, a successful playwright, received an honorary Doctor of Letters; Nancy Ruth, the founding President of the Legal Education and Action Fund (LEAF) received an honorary Doctor of Laws; Laura Sky, one of Canada's most distinguished documentary filmmakers received an honorary Doctor of Letters; and Fernand Ouellet, an eminent Canadian historian received an honorary Doctor of Letters. Welcome to the LU family!

LAURENTIAN @ GEORGIAN CONVOCATION

History was made on May 31st as 27 Laurentian at Georgian students graduated with their Bachelor of Arts degrees. The celebration took place at Georgian College, in Barrie, with Laurentian President, Dr. Judith Woodsworth, and Georgian President Brian Tamblin conferring the degrees. This special Convocation ceremony was followed by a reception, where the Laurentian University Alumni Association hosted a special champagne toast for these new graduates.



The first class to graduate from the LU@Georgian program celebrates the historical moment by toasting champagne with Laurentian University President, Dr. Judith Woodsworth.

Standing, from left: Jessica Brandon, Cheryl Gronfors, Heather Moffatt, Erin Morris, Barb Moore, Andrea Orfanakos, Teresa Gilday, Corinne Sandham, Jill Archer, Jayde Giffen, Beverly Rowe, Laura Handy, George Nictopoulos, Donna Byers.

Seated, same order: Moira Hare, Hazel Rawn, LU President, Dr. Judith Woodsworth, Debbie Hadley, Ellen Holden, Cindy Koss

Also of this historical graduating class: Jason Douglas Antaya, Sabrina Greene, Mara Stephanie Gromacki, Sarah Ann Ledlow, Erica D. MacMillan, Jennifer McNenly, Nicole Lee-Anne Morrison, Sommer-Lynn Grinsven, Alison Marie Walton, Lisa M. Yorke, Jessica H. Zulak.

ANOTHER BUSY YEAR!

Members of the LU Student Alumni Association (LUSAA) wrapped up a busy year by toasting their success at an informal gathering this past March. The LUSAA continues to work towards bridging the gap between Laurentian students and alumni. Student Send-off receptions – hosted by alumni in August – have become a new tradition and the LUSAA looks forward to this opportunity to meet incoming students and recruit new members. The LUSAA Executive has also played a key role in welcoming high school students who visit Laurentian during March Break activities.

New initiatives in 2003-2004 included face-painting at varsity games, assisting with the 1st annual Sudbury Alumni Christmas gathering and officially thanking members of the “Pillars of the Community” panel, this past March.

The “Touch of Home” cake and gift basket program continues to be a success and helps fund LUSAA activities.



LU alumnae who take up great challenges.

From left, Gisèle Chrétien, BScN 1987, President, Collège Boréal; the Honourable Diane Marleau, BA 1975, Member of Parliament; Jo-Anne Palkovits, BScN 1992, MA 1999, President and CEO, St. Joseph's Health Centre; and Dr. Judith Woodsworth, LU President.

PILLARS OF THE COMMUNITY

Approximately one hundred Laurentian alumnae and friends gathered at Laurentian University on March 11, 2004 during International Women's Week to participate in the *Pillars of The Community* panel moderated by Laurentian President, Dr. Judith Woodsworth. The event featured three prominent Laurentian alumnae who have made significant contributions to the enhancement of the Greater Sudbury Region.

president's message continued

summer, we will be accepting applications for the fall of 2005. Now that this major milestone has been achieved, we can really say that we are open for business!

We continue to forge relations and partnerships, with industry, with government, and with education institutions here in Sudbury and further afield. At the Georgian College Convocation, Laurentian University was the recipient of a “Distinguished Partnership Award”. We have travelled to Kingston, Brockville and Cornwall to sign an agreement with St. Lawrence College to extend our collaborative nursing program to Eastern Ontario. In addition, we have signed a number of international agreements that will foster the exchange of ideas and flow of students and faculty across borders.

These are very exciting times at Laurentian University! Stick with us as we continue to meet the challenges and seize the opportunities that lie ahead. Your success is our success, just as our success is sure to have an impact on your own.

Dr. Judith Woodsworth



from the
LUAA
president

Spring is always an exciting time on campus, especially for the Alumni Association. This past June, over 1,000 students celebrated their personal accomplishments and success and were awarded their degrees during five Convocation ceremonies. A special thank you to Louise Paquette, BTRN 1976, Suzanne Fortin, BCom 1994, Laurie Bissonette, BSc 1979, Brendan Ashcroft, BA 1999 and Tina Sartoretto, BPHE 1975, who officially welcomed Laurentian's most recent graduates to our growing alumni family.

I am pleased to report that the LUAA has and continues to move aggressively on a number of fronts following the implementation of our Strategic Plan. We are working on ensuring that the Laurentian experience begins during Orientation Week and continues long after graduation.

More recently, the LUAA Board vetted and is about to formally launch a dynamic Chapter Program across the country. Chapters provide an excellent means of staying in touch with, or meeting new Laurentian alumni in your geographic area, and keeping abreast of what is happening at the University. This program is one of the major goals that emerged from our strategic planning over the last 12 months and we are elated at the support this program has received from the Alumni Relations Office and Laurentian President, Dr. Judith Woodsworth.

Dr. Woodsworth's efforts, over the last two years, to meet and rally our alumni, whenever and wherever possible, have made an indisputable impact in terms of renewing alumni interest in Laurentian University. This year alone, Dr. Woodsworth, the LUAA and the Alumni Relations Office have hosted – in addition to the regularly scheduled events – alumni receptions in New York, Vancouver and Ottawa. We are very happy to report that these initiatives are already bearing fruit and preliminary indications of interest have exceeded all our expectations. Our hope is that may see the announcement of new formal Chapters in London, Oakville, Toronto, Ottawa, Winnipeg and Barrie this year.

Claude Lacroix, BA 1991

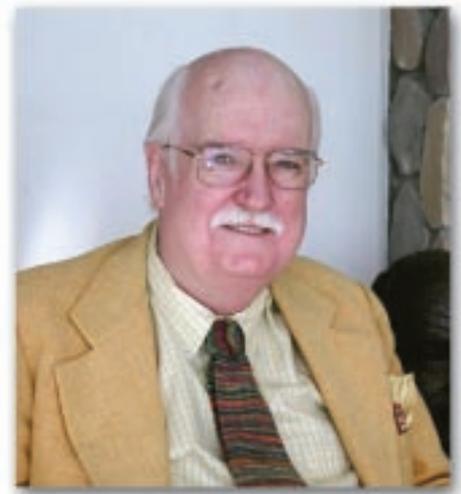


On campus

LU BIDS FAREWELL TO DR. BEST

On April 14, more than 300 friends and relatives gathered in the Fraser Auditorium to pay a last tribute to Henry Bruce Macleod Best, LU President from 1977 to 1984, and History professor until July 2000. Representatives of many sectors were in attendance, as were members from various political

levels and from the Franco-Ontarian community. Among the distinguished guests were Marie-P. Poulin, BA 1966, MDL 1995, Senator for Northern Ontario; the Honourable Diane Marleau, BA 1975, Sudbury MP, and Rick Bartolucci, BA 1973, Minister of Northern Development and Mines. During the ceremony, Bruce and Mairi, BSc 1990, the two children of Janna and Henry Best, addressed attendees, as did André Lacroix, past member of the Board, and LU President, Dr. Judith Woodsworth.



Dr. Woodsworth stressed that the purpose of the gathering was not only to mourn the loss of Dr. Best but to celebrate his life and achievements. She pointed out how frequently she saw Henry and his wife, how very visible they were, “out and about in the community, at the Farmers’ Market, at the Art Gallery, at events at the University, never faltering – despite Henry’s health – in their commitment to the social, economic, and cultural well-being of the city.”

She added that, in a way, she saw Dr. Best on a daily basis. “His portrait – a fine picture of him in his presidential garb – hangs right outside the door to my office. It is there, along with those of my other predecessors, to remind me that we never set out on uncharted waters – we use the maps drawn by those who have set sail before us.” Borrowing the words of John of Salisbury, a 12th century monk, she reminded all how much we owe to the experience and knowledge of those who have preceded us. “Dr. Henry Best led this University when it was relatively young. He helped to bridge the famous gap between town and gown; he and Janna brought life and culture to the house on John Street,” she added.

Attendees made generous contributions to the Dr. Henry B.M. Best Memorial Bursary. Thanks to the Ontario Student Opportunity Trust Fund (OSOTF), the provincial government will match every donation dollar for dollar.

APPOINTMENTS

Mr. Fernand Crépeau, Chair of the Board of Regents at the University of Sudbury, is proud to announce that **Dr. Andrii Krawchuk** has been appointed to succeed Dr. Kenneth-Roy Bonin as President of the University of Sudbury. Dr. Bonin is leaving his position July 31, 2004 after serving a term of five years.

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hats off!

DR. GAÉTAN GERVAIS HONOURED BY COLLÈGE BORÉAL

On May 29, during Collège Boréal's graduation ceremony, Dr. Gaétan Gervais, BA 1965, was presented with an honorary diploma for his outstanding work on the history of Franco-Ontarians. Gisèle Chrétien, BScN 1987, President, Collège Boréal, commented: "By his teaching, his writing, and his commitment, Gaétan Gervais has had a considerable impact on the lives of Francophones from this province. He illustrates perfectly the message I have conveyed to this year's graduates, which is to take their place in society, and to take their destiny in their own hands."

Dr. Gervais, who holds a Ph.D. from the University of Ottawa and who has been teaching at LU's History Department for nearly 30 years, is recognized by his peers as one of the leading historians on French Ontario. He has also been an active member of several organizations that promote Franco-Ontarians' historical, cultural, and intellectual heritage, such as the following: Société historique du Nouvel-Ontario, ACFO, Centre franco-ontarien de folklore, Institut franco-ontarien, and Société Charlevoix.

OFF TO SCOTLAND ON A FELLOWSHIP

Dr. Douglas Parker did not seek renewal of his mandate as Vice-President, Academic for Anglophone Affairs which ended on June 30, 2004. After five years of significant contributions in his VP capacity, he will be leaving for a one-year



sabbatical. The St. Andrews Reformation Studies Institute has awarded Dr. Parker the James K. Cameron Faculty Fellow for the

academic year 2004-2005. A distinguished scholar of Early Tudor Protestantism, he will dedicate his time at the University of St. Andrews to complete a critical edition of Robert Barnes's *A Supplycaycon unto Henry VIII*, a project also supported by the Social Sciences and Humanities Research Council of Canada (SSHRC). The University of St. Andrews, which was founded in 1413 and is located in the Kingdom of Fife, is Scotland's oldest university and third oldest in the U.K. Dr. Parker, who has been teaching in LU's Department of English since 1971, has served in a variety of challenging administrative positions at the University: Chair of the English Department (1983-1985), Dean of Humanities (1985-1987), and Dean of Université canadienne en France (1987-1992). He has helped launch a research institute for the Humanities and produce the first distance education course for the Department of English. Aside from this, he has served on MIRARCo's Board of Directors. In 1996-1997, he was the recipient of the University's Research Excellence Award due to his extraordinary publication

record, including five books on English Reformation.

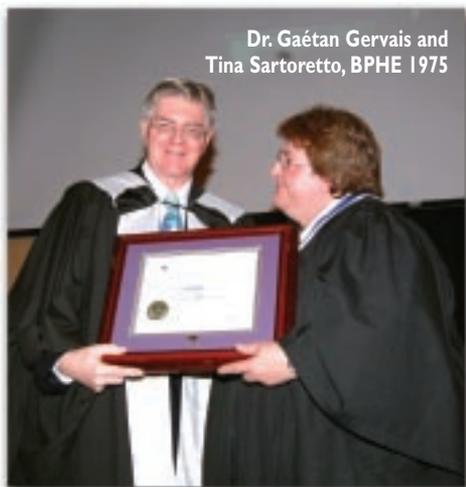
Thank you, Dr. Parker for all of your contributions to LU's development. Congratulations on your latest achievement. May you enjoy your year in Scotland!

TOP EMPLOYMENT RATES FOR LU GRADS

A recent survey sponsored by the Ministry of Training, Colleges and Universities indicates that Laurentian University graduates are the most successful students from Ontario's 18 universities in obtaining employment following the completion of their postsecondary studies. The 2003-2004 Ontario University Graduate Survey reveals that the overall employment rate for 2001 LU students holding an undergraduate degree was 97.3% six months after graduation and 97.4% two years after graduation.

The provincial employment rate for graduates of undergraduate degree programs who have been out of university for two years is 95.8% while the rate for university graduates six months after graduation is 93.6%. This province-wide survey shows that the skills and knowledge of students graduating in several areas are in high demand. It also indicates that Laurentian students are increasingly successful in securing employment.

"These results confirm that Laurentian students stand out and are highly valued by employers across the province. The University provides a quality education, which is well worth the investment, offering students the required tools and knowledge to succeed in life," said LU President, Dr. Judith Woodsworth. "This survey clearly demonstrates that our students make a significant contribution to the provincial economy."



Dr. Gaétan Gervais and
Tina Sartoretto, BPHE 1975

hats off!

(continued)

SIR JOHN DANIEL APPOINTED PRESIDENT AND CEO OF COMMONWEALTH OF LEARNING

Former LU President from 1984 to 1991, **Sir John Daniel**, a world-renowned authority in open and distance learning, was recently appointed President and CEO of the Vancouver-based Commonwealth of Learning. The latter is an intergovernmental organization created by Commonwealth Heads of Government to encourage the development and sharing of open learning and distance education knowledge, resources and technologies.

Knighted in 1994 by Queen Elizabeth II for his leading role played internationally, over three decades, in the development of distance learning in universities, Sir John Daniel went on to become Vice-Chancellor of the UK Open University (UKOU) after he left Laurentian. Since 2001, he has been Assistant Director-General for Education at UNESCO where he is responsible, in particular, for coordinating the global drive to achieve "Education for All." **Congratulations to Sir John who will take up his new post in Vancouver in June 2004.**

SENATOR POULIN APPOINTED TO ROYAL ORDER OF CHIVALRY

The Honourable **Marie-P. (Charette) Poulin, BA 1966, MDL 1995**, who represents Northern Ontario in the Senate of Canada, was invested on June 11 into the Most Venerable Order of The Hospitals of Saint John of Jerusalem. The senator's appointment to the royal order of chivalry was sanctioned by Governor General Adrienne Clarkson, Prior of the Order in Canada, through the authority of Queen Elizabeth. "I am privileged to be honoured by my admission to a world-

wide humanitarian, charitable organization that has been dedicated for centuries to the well-being of people," said Senator Poulin. The Order, today perhaps best identified by its signature service, St. John Ambulance, was founded in the Middle Ages and began operating in Canada 120 years ago when first aid instruction was given in Québec City. Senator Poulin was called to Parliament's upper chamber in 1995 after serving as Deputy Secretary, Communications and Consultations in the Privy Council Office and before that as a Vice-President of several portfolios at the CBC, where she spearheaded the creation of a Northern Ontario French-language radio network. A member of LU's Board of Governors and ACTRA Fraternal, she has served on a number of national and international organizations, including parliamentary associations. In addition to becoming a member of the Order of Saint John, her professional and volunteer work has been recognized through various other awards, including France's Legion of Honour, an honorary Doctor of Law, the "Ordre de la Pléiade" and the medal of the "Conseil de la vie française".



Senator Poulin

LU GRAD AWARDED MELOCHE MONNEX FELLOWSHIP AT HALIFAX CCAE CONFERENCE



For he's a Meloche Monnex Fellow...

From left: Chris Daniel, Chairman, Affinity Marketing Group - Meloche Monnex Inc.; Brian Soucie, Meloche Monnex Fellow in Advancement - Laurentian University; Jean Lachance, Executive Chairman, Affinity Market - Meloche Monnex Inc.

Brian Soucie, BA Media and Rhetoric Studies 2003, was awarded a Meloche Monnex Fellowship in Advancement during the 2004 Canadian Council for the Advancement of Education (CCAE) Conference that was held in Halifax from June 12 to 15. Valued at \$25,000, this fellowship was created to encourage the recruitment and training of advancement officers in Canadian universities and colleges.

Brian will support the University's Strategic Plan in the area of "image and reputation." He will work with Public Affairs staff to review and implement Laurentian's new Integrated Marketing Communications plan. He will also assist the LUAA and Alumni Relations in the implementation of a strategic plan and adoption of the new vision statement "Students First * Alumni Forever." During the final term of his fellowship, Brian will collaborate with Liaison Services to provide leadership in developing a marketing strategy to enhance the role of alumni in recruitment initiatives.

continued on p. 9 ►



hats off!

(continued)

This is not the first time Brian's work and tremendous potential have been recognized by the CCAE. In 2003, his video *Life at Laurentian* received two silver Prix d'Excellence Awards; one for Best Audio, Video or Multimedia Presentation, the other for Best New Idea - Creativity on a Shoestring. Brian has also won two awards for his filmmaking skills. Again in 2003, he was part of two groups that were awarded the MCTV Community Media Prize (best written proposal) and the MCTV Broadcast Prize (best video production). His team's entry was a finalist at the 2002 Cinéfest Videomakers Competition.

Brian, a Sudbury resident, is one of only three Canadian recipients of this highly-coveted fellowship. As for Laurentian, it was awarded a Meloche Monnex Fellowship in Advancement in 2001 and is the only university in Canada to receive this honour on more than one occasion.

SPAD GRAD BRINGS HOME STANLEY CUP!

Ryan Belec, SPAD 2000, assistant to the general manager for the Tampa Bay Lightning, is living every Canadian hockey fans' dream: his team won the Stanley Cup! He got a chance to hold the highly-coveted Cup over his head, on the ice, and later, in the changing room, got to drink champagne out of it. In 2000, after an internship in public relations with the franchise and upon completion of his degree, Ryan landed a position in the hockey operations department. As liaison between the GM's office and all the players, Ryan helps coordinate special events involving the players. Rumour has it that Ryan was instrumental in having Stompin' Tom Connor's *Hockey Song* played.

Note from the Editor – At time of going to press, Ryan was planning on bringing the Cup to Sudbury, on July 8.

LU GRAD PRESENTED WITH \$5,000 AWARD

On May 29, in Toronto, during a special gala event celebrating the 20th anniversary of L'Association des théâtres francophones du Canada (ATFC), **Miriam Cusson, BA History 2001, BA Arts d'expression 2003**, was presented with one of three Prix d'excellence awards of the Fondation pour l'avancement du théâtre francophone au Canada (FATFC). These awards, valued at \$5,000 each, recognize the contribution of young pro-fessionals involved in theatre and are meant to encourage them to pursue their career. The gala event was under the honorary presidency of the Honourable Adrienne Clarkson, Governor General of Canada, and His Excellency John Ralston Saul. Miriam, who has already worked as author, director, actor, wardrobe mistress, stage manager, assistant director, and choreographer, will shortly launch her project, an exploratory workshop for her production entitled *Tranquillité*.

Congratulations Miriam and good luck! Or shall we say "Break a leg!"?

IN THE NEXT ISSUE

Education: *The lighting of a fire*

As C.W.B. Yeats once put it, "Education is not the filling of a pail, but the lighting of a fire." Lighting a fire; for the past 30 years, that is precisely what professors at LU's École des sciences de l'éducation have been teaching their students to do. Lighting a fire; that is exactly what those involved in LU's new English B.Ed. program are all excited about. Lighting a fire; that is also what numerous of our alumni have set out to do. In the next issue of the *Magazine*, find out more about how, for decades, LU has

shaped – and is still shaping – the world of education.

Are you – or any alumni you know – involved in interesting ways in the field of education? Have you taught in remote locations with challenging work conditions? Have you worked closely with the Ministry or its agencies? Have you developed innovative strategies or products? Please let us know so we can share your story with our readers.

2003-2004 VOYAGEURS: YEAR-END REVIEW

WOMEN'S BASKETBALL

- 2nd – OUA East (18 wins – 6 losses)
- Most valuable player: **Tierney Hoo**
- Rookie of the year: **Cassandra Carpenter**
- Most improved player: **Lindsay Malott**

MEN'S BASKETBALL

- Most valuable player: **Andrew Greig**
- Rookie of the year: **Mike Raskevicius**
- Most improved player: **Jesse Adjei**
- Most inspirational (within this sport): **Ryan Done**
- Highest academic average (within this sport): **Ryan Done**

WOMEN'S CROSS-COUNTRY

- 5th – OUA Championships
- 11th – CIS Championships
- Most valuable player: **Leila Angrand**
- Rookie of the year: **Leila Angrand**
- Most improved player: **Melanie Muise**

WOMEN'S NORDIC SKI

- 5th – OUA Championships
- Most valuable player: **Emily Morel**
- Rookie of the year: **Carley Kenwell**

MEN'S NORDIC SKI

- 4th – OUA Championships
- Most valuable player: **Rob Bewick**
- Rookie of the year: **Phil Wood**

WOMEN'S SOCCER

- 4th – OUA North Division
- Most valuable player: **Susan Wiseman**
- Rookie of the year: **Marissa Izma**
- Most improved player: **Rebecca Franklin**

MEN'S SOCCER

- 1st – OUA North Division
- Most valuable player: **Dan Falcioni**
- Most improved player: **Andrew Baker**

WOMEN'S SWIMMING

- Most valuable player: **Stephanie Kuhn**
- Rookie of the year: **Stephanie Kuhn**
- Most improved player: **Tiffany Paul**

MEN'S SWIMMING

- Most valuable player: **William Paul**
- Rookie of the year: **Marshall Bonner**
- Most improved player: **Brent Poulsen**

CONGRATULATIONS TO ALL GRADUATING VOYAGEURS AND LADY VEEES!

- **Andrew Baker** – Soccer
- **Kristie Bale** – Cross-country Running
- **Deanna Byck** – Soccer
- **Cara Dodsley** – Basketball
- **Karine Duval** – Cross-country Running
- **Dan Falcioni** – Soccer
- **Greg Janveau** – Soccer
- **Jim Jefferson** – Basketball
- **Jason Lane** – Nordic Ski
- **Natalie LeFort** – Cross-country Running
- **Vanessa Mehes** – Soccer
- **Melanie Muise** – Cross-country Running
- **Carolyn Plummer** – Basketball
- **Stephanie Ratz** – Cross-country Running
- **Wellesley Robertson** – Soccer
- **Susan Wiseman** – Nordic Ski & Soccer

LU SWIM COACH HONOURED BY COC

LU's history of pride, tradition and athletic accolades continued on April 16, 2004, with the Canadian Olympic Committee (COC) bestowing another honour on former swimming Head Coach, Dr. Jenő Tihanyi. On that date, he was inducted to the Canadian Olympic Committee Hall of Fame for coaching, making him the fourth coach ever inducted. Tihanyi, who has been involved in Canadian swimming for 44 years, is decidedly modest about his success. His interests in child development and physiology were what introduced him to swimming. He joined LU as Head Coach, starting the LU Aqua Vees Varsity Swim Team, which ballooned from five swimmers to near 50. Dr. Jenő Tihanyi was also professor in Child Physiology and Development at LU's School of Human Kinetics. He was the director of the division of Physical Education from 1993-1996, now known as the School of Human Kinetics. Since the seventies, his coaching achievements include 16 world records and two Olympic gold medals, both won by LU alumni and athlete, Alex Bauman.

APPOINTMENTS (continued)

Lise Dutrisac-Dillabough, BA 1991 has been appointed as the first Community Rights Advisor. This is a full-time position that replaces the existing Sexual Harassment Officer, a position that she has held on an interim basis for the past several months. Her role will be to assist in the implementation of the University's new Policy for the Promotion of a Healthy Learning and Work Environment, once that policy has been approved.

Josée Forest-Niesing, BA 1985, has been appointed to the Board of Regents at the University of Sudbury. A respected lawyer with the well-known Sudbury firm Lacroix Forest LLP/s.r.l. since 1990, Ms. Forest-Niesing is very actively involved in numerous professional and community activities. In addition, she has taught law on a part-time basis at both Cambrian College and Collège Boréal.



Tracy MacLeod

On June 1st, **Tracy MacLeod, BA 1995**, became LU's new Director of Development. An alumna, Tracy

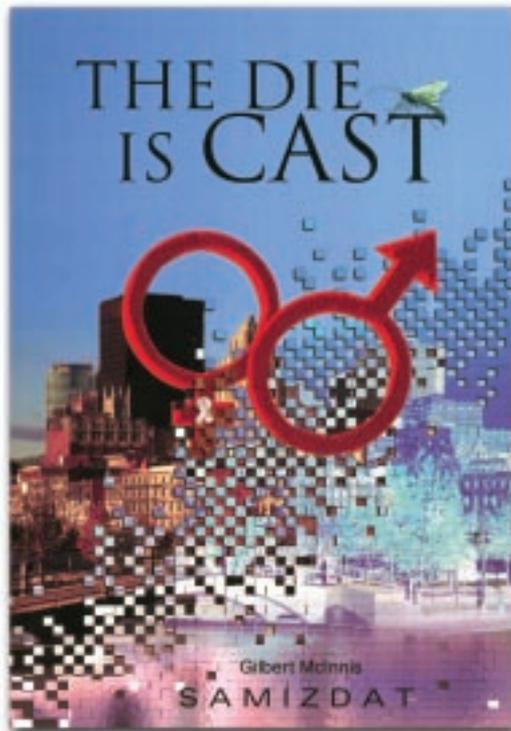
got her start in development at Laurentian, has worked at Queen's, and then Nipissing University. Welcome back!

Dr. Susan Silvertown was appointed VP Academic and Research (Anglophone Affairs), effective July 1, 2004. She also holds a position as Professor in the Department of Biology. Dr. Silvertown, who has earned a BSc in Chemistry from MIT, a Fulbright Scholarship at the University of Paris, a PhD in Experimental Medicine and an MD from McGill, has an extensive research, publication and funding record.

Spotlight

ON BOOKS BY ALUMNI...

Gilbert McInnis,
BA Political Science 1990, MA, PhD (in progress),

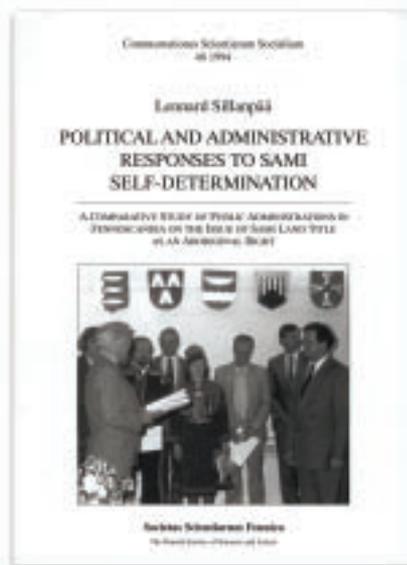


The Die is Cast (Alea Jacta Est).
 Sainte-Foy, Québec: Samizdat, 2004,
 108 p.

The Die is Cast is a meta-narrative about a new phenomenon of fear that takes on mythic power, and is based loosely on a violent event or assassination of 13 Montreal female students in 1989 by Mark Lepine, who, according to one female student survivor, “is really a problem, not an individual.” *The Die is Cast* also entertains reasons for the psychological violence which motivated that tragic event. Moreover this psychological violence or power is a myth about an “outside” male violence, when in fact, this myth is a mask to hide an “inside” psychological violence operating in our society, and perhaps far more damaging than what happened on December 6, 1989. ■

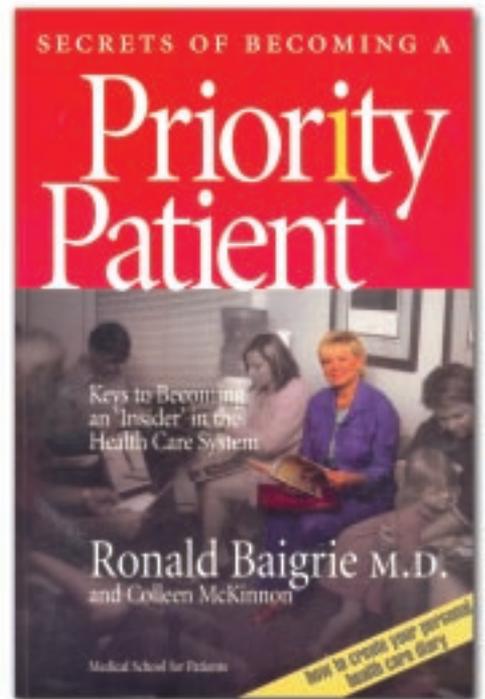
Lennard Sillanpää,
BA Political Science 1968,
Political and Administrative Responses to Sami Self-determination. Helsinki, Finland: Societas Scientiarum Fennica, 1994, 258 p.

The historic claim of the Sami minority to lands they have traditionally used and occupied – an issue that has long been dormant – is emerging as a significant public issue in Finland, Sweden and Norway, perhaps the most important public policy issue political decision-makers and administrators from these three countries have to make. In this study, the author has developed a control-consociationalism typology to analyze how



each of the three states respond to Sami claims to their historic rights. This typology is used, first to trace more than two centuries of administrative control of Sami minority by the three states and, then, to examine present situations that have been created to deal with the Sami minority. ■

Dr. Ronald S. Baigrie, M.D., F.R.C.P.(C)
 and **Colleen McKinnon,**
BA Anthropology 2002,
BA English 2004,



Secrets of becoming a priority patient: Keys to becoming an ‘insider’ in the health care system

This title was recently released by the Medical School for Patients to help the general public find their way through the intricacies of the health care system and to become empowered, priority patients. This one-of-a-kind book brings stimulating, sometimes highly-troubling, but always valuable information about health care. In a fast-paced society where doctors are scarce, where hospital-based doctors handle ‘cases’ for the duration of an illness, and where walk-in clinics spring up, we are a far cry away from the unquestioned physician who attended to the health of more than one generation of family

members. In such a context, it is critical for patients to be well-informed participants who create partnerships with their attending physicians so as to become equal partners in the decision-making process. To quote Dr. Baigrie: "I have found that ignorance and misinformation can be more disabling than disease itself.[...] This book is designed to create Priority Patients

who will not only survive, but who will master this environment and become less vulnerable." A must-read. ■

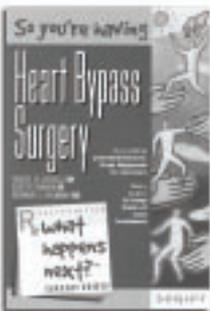
For more information, visit the following websites:
 Personal Health System™:
www.personalhealthsystem.com
 Medical School for Patients:
www.medicalschoolforpatients.com

Are you an alumnus with a new book, CD or business you would like to SPOTLIGHT?
 Whatever your achievement, we would love to SPOTLIGHT it in our next issue.
 Send us an email to magazine@laurentian.ca or give us a call at 705.675.4818.

ON BOOKS BY LU FACULTY

Henry B.M. Best † (past president of Laurentian University). *Margaret and Charlie: The Personal Story of Dr. Charles Best, Co-Discoverer of Insulin*. Dundurn Press, 2002.

Patricia Brace (English). *Elizabeth Tyrwhit (Volume I, Series 3), in The Early Modern Englishwoman: A Facsimile Library of Essential Works*. Gen Eds. Travitsky, Betty S. and Prescott, Anne L. Aldershot, Ashgate/Scolar Press, 2003.

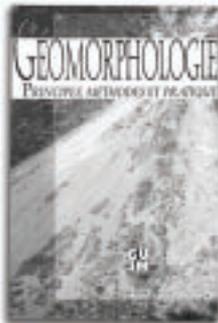


Tracy Colella (Nursing), S. Turner and B. Goldman. *So You're Having Heart Bypass Surgery: What Happens Next?* Toronto, Script Medical Press, 2003.

Rand Dyck (Political Science) *Canadian Politics: Critical Approaches*. 4th edition. Scarborough, Thomson Nelson, 2003.

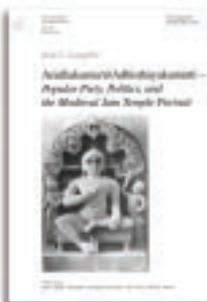
André Émond (Droit et justice) et L. Lauzière, *Introduction à l'étude du droit*, Montréal, Wilson et Lafleur, 2003.

John Gunn (Biology and Cooperative Freshwater Ecology Unit), R.J. Steedman, and R.A. Ryder. *Boreal Shield Watersheds*, Lewis Publication, 2003, 528 p.



Raoul Etongué Mayer (Géographie), *Géomorphologie, principes, méthodes et pratique*, Montréal, Guérin, 2003.

Raoul Etongué Mayer, Y. Roche et D. Mouafo, *Dictionnaire des termes géographiques contemporains*, Montréal: Guérin, 2003, 352 p.



Jack Laughlin (Religious Studies). *Aadhakamurti/ Adhishthayakamurti: Popular Piety, Politics, and the Medieval Jain Temple Portrait*. Bern, Peter Lang, 2003.

Melchior Mbonimpa (Sciences religieuses), *Le dernier roi faiseur de pluie*, Sudbury, Prise de Parole, 2003.

Graeme Mount (History) with Andre Laferriere. *The Diplomacy of War: The Case of Korea*. Montreal, Black Rose Press, 2003.

Henri Pallard (Law and Justice). *Déontologie juridique (Collection Common law en poche)*, Bruxelles, Éditions Bruylant / Montréal, Éditions Yvon Blais, 2003.

Yves Robichaud (Commerce) et Egbert McGraw, *Analyse comparative entre l'entrepreneurship féminin et l'entrepreneurship masculin : le cas des entreprises de services et de détail chez les francophones du Nouveau-Brunswick*, Moncton, Institut canadien de recherche sur le développement régional, 2003.

Micheline Tremblay (Études françaises et traduction), Éd., *Amour vainqueur*, Ottawa, Les Éditions David, 2003.

(† – deceased)

Conducting experiments, collecting and analyzing data is all part of research.



On the left is an archive picture of a group of LU students in a biology lab (circa 1960s). Do you know more about this picture? Do you recognize anyone? Please tell us and we will let our readers know in the next issue.

On the right is a more recent picture of LU students conducting an experiment in a biology lab.



Technological advances and continued fundraising provide current students with better lab equipment.

Calendar of events

August 2004 to November 2004

Aug 23 to 26	Laurentian Women's Elite Basketball Camps, ages 13 - 17
Aug 23 to 27	Laurentian Basketball Camps, COED ages 9 - 14 – 1/2 Day Camp
Aug 30 to Sept 2	Laurentian Men's Elite Basketball Camps, ages 13 - 17
Aug 30 to Sept 3	Laurentian Basketball Camps, COED ages 9 - 15 – Day Camp
Sept 1	CKLU Open House
Sept 3 to 5	Orientation Week : Move in dates Student Info Fair in the Great Hall, Sept 4 and 5 (12pm - 4pm)
Sept 11	Voyageurs Soccer Home Opener
Sept 15	SGA Beach Day for students
Sept 16	SGA Student Concert
Sept 25	Blue & Gold Alumni Swim Meet (9am - 11am)
Oct 15	Alumni Voyageurs Hall of Fame Induction Ceremony
Oct 16	Alumni Basketball Weekend (Games at 1pm and 3pm; Dinner at 7pm)
Oct 29 to 30	Voyageurs invitational (Basketball)
Nov 6	Fall Convocation
Nov 19	Voyageurs Basketball Home Opener

NOMS update...

\$2M CFI GRANT AWARDED TO NOMS

In early March, the Canadian Foundation for Innovation (CFI) had some very exciting news for NOMS; they had approved a \$2M grant to the Medical School to help develop the Lakehead University Virtual Centre for Advanced Research in Teaching and Training (LUV CARTT). This funding will be used to provide hardware and software to facilitate a series of research projects which explore innovations in teaching and training. This will further provide NOMS with the opportunity to undertake world-leading research in the use of virtual reality in various aspects of medical education.

DOORS TO OPEN IN LESS THAN 18 MONTHS

Canada's first new medical school in over 30 years will open its doors to students in less than 18 months. Significant advances were made in preparation for the event. On April 29, Dr. Roger Strasser and his team presented a symposium in which they reviewed developments to date and introduced plans for the future. Among the topics discussed were: developing partnerships with NOMP and NOMECC; appointment of faculty; preparation to recruit students; and delivery of faculty development programs. These monthly NOMS symposia discuss topics of interest to health professionals, educators, potential students, and Northern Ontario communities.

FOCUS ON FACULTY RECRUITMENT

Faculty selection for both campuses has begun. While waiting for the accreditation report, NOMS is in the process of confirming the appointment of about 150 faculty members who will teach across a range of disciplines. These include the five themes around which the Medical School curriculum is organized: northern and rural health, personal and professional aspects of medical practice, social and population health, the foundations of medicine, and clinical skills in health care. Recruiting qualified faculty is a very difficult and challenging task given the current shortage of physicians in Northern Ontario. Despite this,

NOMS is recruiting outstanding candidates from universities and medical schools across North America, not to mention some born and raised in Sudbury. Recently, nine non-clinical positions attracted over 200 applications, all with a tremendous amount of skill and experience. The new hires were chosen through a tough, fair and competitive selection process based on their background and expertise, and with the expectation that they could support the NOMS' patient-centered learning program, focusing on people in both the family and community context.

CURRICULUM - STUDENT PILOT PROJECT

In the midst of finalizing its four-year curriculum, NOMS held a month-long student pilot project from May 3-28. This second pilot project tested the content of the Year I curriculum and enabled student assessment of the curriculum. It also allowed the School and its faculty to conduct tutor training. Thirty-four students participated in this second pilot project, two groups of students in Sudbury and two groups of students in Thunder Bay. All were recruited with the help of Lakehead and Laurentian universities. Like the first student pilot, this event carried significant meaning for the School. It provided an opportunity to welcome students and faculty, and to find out what it is like to be a functioning medical school.

MAY SYMPOSIUM

The NOMS' May 20th symposium featured guest speaker Dr. May Cohen. A McMaster University professor, she addressed "The Impact of Gender on Health". Gender is an important but rarely addressed determinant of health and illness. Dr. Cohen outlined why it is essential to incorporate the concept of gender into the new curriculum for the School. The symposium was broadcasted from the East Campus, Sudbury, from noon to 1:30 pm (Eastern Time) through videoconferencing. This symposium met the accreditation criteria of the College of Family Physicians of Canada and has been accredited for 1.5 MAINPRO-MI credits.



ADMISSIONS

Beginning in early July, on-line applications for the School were made available on the Ontario Medical School Application Service (OMSAS) website at www.ouac.on.ca. Further details on Northern Ontario Medical School Admissions, including Aboriginal and Franco-Ontario student recruitment efforts, are available on the School's website at www.normed.ca. Anyone seeking admissions information is welcome to visit either campus in person. East campus offices are located on the 8th floor of the Willet Green Miller Centre in Sudbury. In Thunder Bay, the medical school offices were recently moved to a new location on the Lakehead University campus, on the 6th floor of the new ATAC building. A new, three-storey learning facility for the medical school will be constructed by the summer of 2005. The new facility will be located next to the ATAC building.

PROVISIONAL ACCREDITATION GRANTED TO NOMS

NOMS has been granted a provisional Accreditation status for Year I by the Liaison Committee of Medical Education (LCME) and the Committee on Accreditation of Canadian Medical School (CACMS). "We are very pleased to hear the news, which was confirmed to us by the Committee," says Dr. Roger Strasser, the School's Founding Dean. "This is a critical milestone for us. It has been a demanding process, well accomplished by faculty and staff. It confirms we are ready to welcome the charter class of students in August 2005." Dr. Judith Woodsworth, President of Laurentian University and Vice Chair Board of Directors of the School comments "We take pride in our Medical School's achievement and the progress it has made in such a short time. Accreditation is a stamp of approval that declares the School will offer quality medical education that compares with the best in Canada." ■

Where are they now?

Thanks to all alumni who sent us an update. Submissions received after May 31, 2004 will appear in the next issue. Messages are received by mail, email and fax. Some information is drawn from published sources such as newspapers and newsletters.

Your name has not appeared in this section in a few years? Ever? Take a few minutes and update us on what is going on in your life. You can send us a photo to print as well; we will return it promptly. Please specify if you wish to have your email address printed or not.

YOUR INFORMATION:

Last name: _____ First name: _____ Maiden name: _____
 Complete name at graduation (if different): _____
 DEGREE (i.e. BSc): _____ Program (i.e. Biology): _____ Year: _____
 HOME ADDRESS: _____
 City: _____ Province: _____ Postal code: _____
 Email: _____ Phone: (_____) _____
 OCCUPATION: _____ Employer: _____
 Business address: _____
 _____ Phone: (_____) _____
 Please send all correspondence: to the office to my home Language of preference: English French

SPOUSE'S INFORMATION:

Last name: _____ First name: _____ Maiden name: _____
 Complete name at graduation (if different): _____
 DEGREE (i.e. BSc): _____ Program (i.e. Biology): _____ Year: _____ Institution: _____
 OCCUPATION: _____ Employer: _____

Where are YOU now?

Send us information about your career, family and other interests and we'll update our files, then include your information in the next issue of the alumni Magazine. (We reserve the right to edit all submissions.) Should we also print your email address? yes no

Magazine makers

If you'd like to support this publication by becoming a Magazine Maker, check here

Cheque enclosed (payable to Laurentian University) Visa or M/C # _____ Expiry ____/____

Donations help offset the high cost of production and distribution. Please send your volunteer one-year subscription of \$10 or more (tax receipts issued for donations of \$35+) to: Alumni Relations, Laurentian University, 935 Ramsey Lake Road, Sudbury ON P3E 2C6 (RE: Magazine Makers). All Magazine Makers' names appear in print (see page 24). Thank you in advance for your generous support.



1960s

Art Thompson, BA 1966,

works for the Royal Bank of Canada, and resides in Collingwood, Ontario. He would love to hear more from older grads. art.thompson@rbc.com

1970s

Susan Mawhiney, BPHE 1972,

has retired from her principalship (elementary) with the Upper Grand District School Board in June 2003. She enjoys golfing and is an avid Guelph Royals baseball fan in the summer. Her husband Terry plans to join her in her life of leisure in 2005.

David Mulcaster, BA Economics 1972,

enjoyed a 27-year career with the federal government in various executive/management positions in economics and industrial development (IT, software, communications, satellites). He has travelled extensively in South Africa, Eastern Europe and Asia. Since leaving civil service in 1999, David has turned to entrepreneurship and does contract work for a research and development company, GINI University Services Inc., owned by Dalhousie University, in Halifax, Nova Scotia. He has helped establish six start-up software companies. In addition, David mentors students on work and career.

dhmulcaster@ns.sympatico.ca

John McLarty, BA English/Sociology 1974,

went on to earn a B.Ed. from Acadia University in 1976, followed by a MBA from Wake Forest University in 1988. Currently employed by the North Carolina Department of Correction,

Division of Prisons, John lives in Danville, Virginia, with his wife Melanie Ann. He would love to hear from his old football buddies who played for the LU Voyageurs in the Northern Football Conference, from 1972 to 1974.

mja02@doc.state.nc.us

Wayne William Etches, BCOM 1975,

was honoured by the Institute of Chartered Accountants of Alberta (ICAA) on June 12, 2004, at the Merit Awards Gala. Wayne was selected by his peers to receive a Distinguished Service Award in recognition for his outstanding accomplishments within the past three years.

Tony Spires, MSc Biology 1975,

who was hospitalized for 18 months after a car accident in 1992, now works part-time for the Ministry of Environment. He lives in Sudbury and has a daughter, Erin, 17, and a son, James, 14.

Susanne (Cheyne) Thiessen, BA 1975,

is currently teaching E.S.L. (English as a Second Language) to immigrants and international students at various language schools in Winnipeg, Manitoba. Over the years, she has also enjoyed working abroad, in Kenya, in the Czech Republic, in Japan, and in Brazil.

We want YOU!

The LU Alumni Career Mentorship Program brings students and alumni together for an exchange of information on education and career markets. Now in its third year, the program has about 70 mentors in a variety of industries.

Communication with a mentor can provide a student with truthful information about career options, employment conditions and job responsibilities. In addition to sharing information about their careers, mentors may give insight or advice on the city in which they live and refer students to other contacts in the industry.

We are presently looking for mentors in the following fields:

- Dietetics
- Entrepreneurship
- Nursing
- Psychology
- Radiation Therapy
- Social Work
- Speech Pathology

Bilingual mentors are needed as well.

Also, this fall, look out for a new mentoring program designed for international students. We are also looking for alumni to share their experiences with groups of students and to participate in our alumni conference series.

**Become a mentor and make a difference
in a Laurentian student's life!**

Contact Alumni Relations at alumni@laurentian.ca or 705.675.4818.

Where are they now?

Terry Knowles, BTRN 1979,

lives in Montréal, where he has a home-based translation business. He and his wife Pam Ireland, BTRN 1978, who have a 13-year-old daughter and three cats, enjoy many extra-curricular activities to get them out of the house after a hard day at the office.

Margitta (Laurish) Kulczycki, BCom 1979,

who also received a MBA Magna Cum Laude from the University of Ottawa, has been appointed Vice-President (Administration) at The University of Western Ontario following a unanimous recommendation from the Search Committee. A chartered accountant, fluent in German, Margitta began her career as a Tax Specialist with Thorne Riddell, now KPMG. She has been a senior administrator in the health care sector at several leading institutions across Canada as well as holding leadership roles in the private sector. She has also worked as the Corporate Controller for LSI Logic of Canada Inc., in Calgary, and was a Manager of Financial Services and Taxation for Bell-Northern Research Ltd., in Ottawa. Before her VP appointment, Margitta was Vice President and Chief Financial Officer with the Grand River Hospital in Kitchener.

1980s

Pauline Rochefort, BCom 1980,

was appointed President of the Canadian Wood Council (CWC) in February. Pauline, who was previously VP, Eastern and Northern Ontario at the Business Development Bank of Canada (BDC), holds an Executive MBA from the University of Ottawa. Congratulations on this important promotion!

John Onofrio, BCOM 1982 and his wife Cindy (Donnelly), BSW 1981,

have made Sault Ste. Marie their home. Founder and owner of Eternal Monuments, John was recently featured in the business section of the *Sault Star Outlook*. Cindy works as a counsellor for Sault College.

eternalmonuments@shaw.ca

1990s

Rose Fleury, BA ScRel 1991, BBA 1996,

a nun at the Monastère des Augustines, in Chicoutimi, Québec, manages the community's as well as the lay personnel's business. She is currently taking a course on faith and media.

Constance Stack, SPAD 1991,

is VP of Client Services at Optas Inc., a leading provider of direct-to-customers (DTC) marketing solutions in the healthcare field. Her main task is to manage the service delivery teams to ensure client satisfaction.

Tuyen T. Ha, BSc Computer Science and Economics 1992,

presently works for the Department of Public Works and Government Services Canada, in Ottawa.

Bryan Parkinson, MBA 1992,

is currently employed as Project manager by J.L. Richards & Associates. He is responsible for the new North Bay Regional Health Centre project which will begin construction in 2004.
bparkinson@nbrhc.com

Conway Fraser, BA Political Science 1994,

is now working for the CBC in Winnipeg, Manitoba. He was recently

nominated for the following investigative journalism honours with the Canadian Association of Journalists (CAJ): Open Radio News/Current Affairs; and Regional Television. In 2003, he was recognized with two Manitoba journalism awards, one for "Best News Story", the other for "Best Reportage". Conway and his wife Angie (Peddie) enjoy living in Winnipeg with their four children Faith (10), Kane (9), Lachlan (6), and Jensen (5).

Conway_Fraser@cbc.ca



Conway Fraser and Dr. Woodsworth share a moment of pride and joy at the CAJ Gala Dinner held in Vancouver in May 2004

Jonathan Cole, BCom SPAD 1995,

was promoted, in January, to the position of General Manager of Imperial Services with the CIBC, in Sudbury. Congratulations!

Natalie Delorme, BA Geography 1995,

recently returned from a tour of duty in Bosnia with the Canadian Forces Personnel Support Agency. She is currently looking for work in Quebec, where she resides.

Lost Alumni

We've lost their trail!

Our databank is no longer up to date for these "lost" alumni who don't receive the Magazine or any of our mailings!

- Lucie Denise Abalain, BA 1987
- John R. Adams, BA 1981
- Gloria Rose Akroyd, BSW 1974
- Jeffrey Orville Awrey, BSc 1999
- Edward Joseph Baginski, BPHE 1980
- Diane Balanyk-McNeil, BA 1970
- Fariba Behzadpour, BSL 1988
- Lyn Champagne-Scratch, BEPS 1992
- Robert Frank Cinotti, BCom 1985
- Katherine B. Cudmore, MA 1987
- Rose D'Elia-Schnabel, MA 1988
- Paul W. Delparte, SPAD 1979
- Cécile M. Des Coeurs, BEd 1989
- Jill E. Durnford, BSN 1984
- Tahar El Hadj Kacem, BEd 2002
- Linda T.Y. Emms, BScN 2001
- David A. Evans, BPHE 1976
- Afekwo F. Ezikpe, BA 1982
- Shirley J. Farquhar, BSW 1977
- Robert J. Fry, BCom 1997
- Pauline Gagné, BPHE 1979
- Bertha A. Gava-Albu, BTran 1975
- Walter Hanych, BSc 1978
- Mala Iyer, MBA 1990
- Michelle A. Jolicoeur, BCom 1993
- George K. Katsandris, BCom 1995
- Stephen LaRocque, BTran 1976
- Kwan Wa R. Ma, BA 1986
- Nora McQuaid, BA 1970
- David M. Ne Ville, BA 1973
- Roger A. Niemi, BEng 1984
- Remigius Oumo, MSc 1978
- Helen Paul-Martin, BA 1998
- Peggy Ann Quinn, BA 1999
- Carole V. Restoule, BA 1993
- Karl W. Scholz, BA 1990
- Hisamuddin Termidi, BEng 1986
- Teresa Van Del Ezen, BScN 1993
- Janine Verhenne, BEd 1991
- Michael H. Whittaker, BPHE 1975
- Asma Ziauddin, BSc 1977

Please call or email us (alumni@laurentian.ca), if you know the whereabouts of any of these people (check with them first!) and help us get our records straight. Thanks!

Wylie Rogers, BA English 1995,

moved onto short, colourful stints in politics and newspapers after finishing post-graduate journalism studies. Landing a corporate communications job in Zurich, Switzerland, he took up marathons and off-piste skiing. Wylie is now living and working in Beijing, China, on special assignment for an international technology company, where he is trying to pioneer ice hockey. His side pursuits include travel, writing and learning to speak German and Mandarin. He is looking forward to hearing from old friends.

Janice (Morsink) Zekorn, BA Sociology 1995 and Martin Zekorn, BA Philosophy 1995,

met on B3rd (SSR Residence) in 1992 and married in 1999. They live in Mississauga where Martin has been working at Source Medical since graduation. Janice is a stay-at-home mom to Jacob (2), and Emma (5 months). They would both love to hear from any graduates of B3rd!
zekornj@hotmail.com

Tracy Bergeron, BA Psychology 1996,

just completed Law School and is finishing her MA in Human Development thesis. She began her Bar Admissions Program on May 3, and will start her articling rotation at the McTague Law Firm in Windsor, in September. Tracy is also currently employed part time as a fitness instructor for the Windsor Essex Cardiac Rehabilitation Program. After her call to the bar, and her wedding with her partner of over two years, she plans to seek employment and to reside in the United States with him and their baby... a three year old Norwegian cat named Boo!
berger9@uwindsor.ca

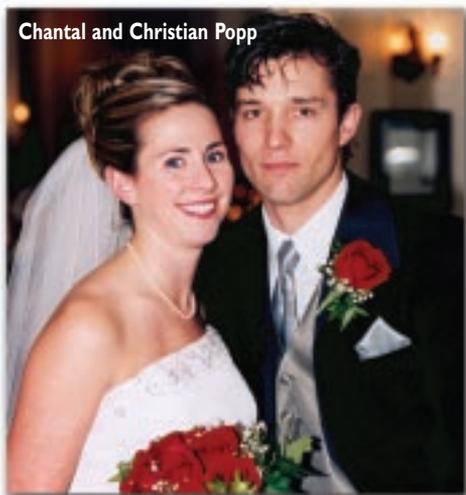
Nadia De Santi, BA Geography 1997,

is an Urban Planner with Fotenn Consultants Inc., in Ottawa. Nadia obtained a Masters' degree in Urban and Regional Planning from Queen's University. She recently received Full Membership status in the Canadian Institute of Planners and in the Ontario Professional Planners Institute. Prior to joining Fotenn, Nadia worked for the federal government, Delcan Corporation, and in Trinidad.
nadia_desanti@yahoo.com or desanti@fotenn.com

Chris Jackel, BA Psychology/Sociology 1997,

is employed as a Correctional Officer with the Ministry of Correctional Services. He is also a Provincial "Use of Force" Instructor, and a member of both the ICIT (Institutional Crisis Intervention Team) and the Provincial "Ceremonial Unit". He and his wife Laurie, from Chicago, reside in Chelmsford with their two sons, Michael, 5, and Daniel, 2.

2000s



Chantal and Christian Popp

Chantal Chirgwin-Popp, BPHE Health Promotion 1998, received a BEd from Nipissing in 2001. She now teaches English at École secondaire catholique Algonquin, in North Bay, and coaches both volleyball and soccer. Chantal married Christian Popp on December 27th, 2003. She would like to hear from a fellow classmate, Tracy Anderson, who graduated the same year as she did. chan_telli@hotmail.com

Jocelyn (Outhouse) Beach, BA Psychology 1999, and her husband Alvin Beach, BSc Computer Science 2003, moved to Nova Scotia where Alvin pursues a career in his field. After graduating from LU, Jocelyn supplemented her degree with a diploma in Social services from Cambrian College and worked in the field of child welfare for over two years. She and Alvin are expecting their first child. Jocelyn plans “to be a stay-at-home mom for as long as possible to give [their] child the best start in life.”

Carolina Orrego, BSc Biology 2002, is currently a student at Los Angeles College of Chiropractic, University of California.
orrego_carolina@hotmail.com

Peter Lind, B Engineering 2002, is currently working as an engineer-in-training at Noranda’s Horne smelter in Rouyn-Noranda, Québec. Peter has spent the past two years at various operations within the Noranda/Falconbridge group of companies.

Open letter from the Ton-That family...



LU recently received an open letter from the family of the late Dr. Tuan Ton-That, professor of Economics. In accordance with the family’s wish, the Magazine is publishing excerpts of the document.

“We seem to have existed in a time warp since our brother Tuan Ton-That, your Mr. T., left suddenly for his final journal on that cold January day. (...) Tuan’s sudden departure left us in a shock, but as we emerge from this grief thick as fog, his legacy naturally leads us back to you, the friends that surrounded him during his tenure at Laurentian. We would like to thank you very much for all that you meant to him, especially all of you who came from near and far for the memorial service, last January 19. We regret not being able to meet personally with all those who came, we could have used a bit more time, but we were over-whelmed and deeply touched by the outpouring of love for your teacher and colleague. That evening’s subzero temperature was easily overcome by your warmth and kind remembrance for our loved one. We were honoured to talk to Dr. Judith Woodsworth and to many faculty members (...) of the department of Economics. The booklet of student memories that Dr. Robinson so thoughtfully put together has become a treasure in our family. Our mother has been poring over it line by line, (...), taking great comfort in knowing her son had inspired such love and good will.

(...) We believe that, when he strode into that classroom in his jeans and sweatshirt, he was happiest in the exchange of ideas and knowledge. He was supportive of your efforts and truly glad with every one of your successes. Like a true educator, he wanted you to do your best at anything worth doing, to make the most of whatever gifts you were given so that you could become productive citizens, able to give back to your community.

(...) A modest person, Tuan would probably scoff at us for putting the spotlight on him, but we would like to share our memories of him with you, remembering how a kind and humble man could find fun, gentle ways to touch so many lives. He is resting now in the South of France with our father, brother and sister, on a sunny hillside among tall pines and vineyards.”

To honour the memory of their beloved Tuan, his family has established the Dr. Ton-That Memorial Busary. Donation inquiries: development@laurentian.ca or 705.675.1151, ext. 3443.

To read the full version of this letter, go to the following address: <http://laurentian.ca/alumni/english/TonThat.html>



In Memoriam

Best, Dr. Henry Bruce Macleod – LU President from 1977 to 1984, history professor thereafter until July 2000. Dr. Best died on April 9, at the age of 69. Henry Best, who is survived by his beloved wife, Janna, and two children, Bruce and Mairi, BSc 1990, will be remembered for his unfaltering commitment to the well-fare of the community as well as for bridging the famous gap between town and gown. LU has set up the Dr. Henry B.M. Best Memorial Bursary. Thanks to the Ontario Student Opportunity Trust Fund (OSOTF), the government will match every donation dollar for dollar. (see p. 6)

Cameron, Dr. Robert Alan – A former professor in LU's Department of Earth Sciences, Dr. Cameron passed away on April 20, at the Sudbury Regional Hospital - St. Joseph's Health Center, at the age of 77. He leaves behind his beloved wife Joan, and three children, Alan, Dan, and Janet. Dr. Cameron, who had been chronically ill with Multiple sclerosis, will be remembered for his positive attitude, cheerful smile, constant whistling and his love for the outdoors. Donations to the LU Geology Library would be appreciated.

Cook, Barney – Thorneloe's Treasurer and Board Secretary passed away on April 10, 2004, at the age of 72. Barney Cook became a member of the Board in 1984, and was appointed Treasurer in 1992, the year after he retired as a partner with KPMG. Last October, Barney was made an Honorary Fellow of Thorneloe University. He was a most devoted member of Thorneloe's Executive Committee, and under his prudent financial care the University more than doubled its physical size and signed its first collective agreements with faculty members. His grasp of the financial complexities of the University, his ready availability to the Thorneloe administration, and his sense of humour will be greatly missed. Barney is survived by his wife Sheila (Miller) and his daughter Jane.

Davies, Neil Alexander, BCom 1987 – Neil died as a result of a traffic accident while working in Malawi, Africa. He leaves behind his wife **Alison (Cameron), BA Sociology 1987**, Claire, 2, and Alexandra, a newborn.

Davis, s.j., Father Simon – Former professor of Religious Studies at the University of Sudbury (1960-1985), Father Simon Davis, s.j., passed away on June 3, 2004, at the age of 81. Born and raised in Sudbury, he was the son of the late Charles and Rose Davis.

After studying at Sacred Heart College, Simon entered the Jesuit order in 1943 and was ordained priest in 1957. He earned degrees in philosophy, theology, and a MA in English. In 1960, he joined the staff at the University of Sudbury and taught there for 25 years. In 1987, after three years in Edmonton, he became the chaplain responsible for the University of Sudbury parish. In 1994, he joined the staff at Villa Loyola as facilitator of workshops on spiritual growth.

To honour his memory, donations to the Father Simon Davis S.J. Bursary at University of Sudbury would be appreciated.

Jewiss, Thomas Craig, BA Native Studies 1987 – Tom Craig passed away peacefully on March 2nd, 2004, in Saskatoon, Saskatchewan, at the age of 57. After graduating from the University of Sudbury in 1987, he obtained a M.Sc. in Environmental Science, and a Law degree from Osgoode Hall. A lawyer with Jewiss, Young & Associates, in Prince Albert, Saskatchewan, Tom was working on his Masters' in Law when he became ill. His passions were his family, Aboriginal Law, and running. He worked internationally and at home for the cause of social justice.

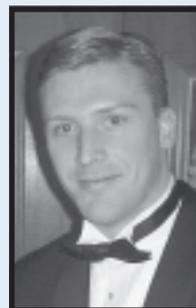
Tom is survived by his wife, Colleen Youngs; daughters Spring and Adene, and sons, Shane, Kipp, Mehta, and Rory.

Madden, Shelley, 2nd year BA Sociology and Religious Studies – Shelley passed away unexpectedly on February 21, in Sudbury, at the age of 23. Originally from South Porcupine, she will be sadly missed by her mother Sue Labelle, her stepfather Burt Labelle, her father John Madden and her stepmother Lise Picard-Madden, as well as her sister, Christine, her stepsisters Renée and Angie, and stepbrothers Derek, Arnel and Chris. Shelley's radiant beauty and contagious humour won hearts and forced a smile on the sternest lips. In her short life, she has touched her loved ones profoundly, leaving them wishing they had her for a little while longer.

Manninen, Sheila Darlene (Kautiainen), BA History 1978 – Sheila Manninen passed away on May 7, 2004, at St. Joseph's Health Centre, in Sudbury. A passionate educator, Sheila had recently retired from her teaching career at R.H. Murray Public School, in Whitefish. She was actively involved in the Whitefish Lions Club and tirelessly served and mentored her neighbours and family. Sheila leaves behind her husband, Kauko, her daughter, Melissa, her son, Jason, and her two grandchildren.

Morin, Richard – Richard Morin passed away at his home, on May 12, 2004, at the age of 59. He was the manager of the LU Bookstore for over 35 years. He is survived by his wife, Charlene, a daughter, Lorissa, both from Sudbury, and by a son, Sean, from Florida. Richard had a good sense of humour, was a great storyteller, and loved to have a good time. He was well appreciated and respected by faculty, colleagues, and the University community in general.

Rayner, Wayne, BA 1967 – Wayne passed away on December 2, 2003.



Sutherland, Kenneth J., BSc Engineering 1998 – Kenneth, 30, died tragically in Cambridge, England, on May 26, victim of a street attack. He had arrived there in January 2003 to pursue a PhD in Geotechnical Engineering at Cambridge University.

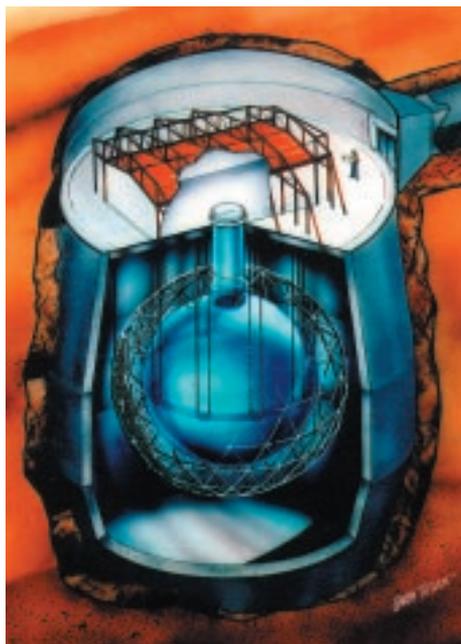
After graduating from LU with a BSc, Kenneth earned an MASc in Civil Engineering from the University of Toronto. He is survived by his mother, Kaarina, and two sisters, Nancy, from Shearwater, Nova Scotia, and Heather, from Val Caron, Ontario.

Errata... In the last issue of the Magazine, Ingrid Ryan's age, BA History 1991, should have read 37, not 47. Our apologies and renewed sympathy to the family.

Donation inquiries: development@laurentian.ca or 705.675.1151, ext. 3443.

Landmark Science from the Land of SNO

Special contributor: Dr. Clarence Virtue, professor of Physics



Every June, the Canadian Association of Physicists (CAP) holds its annual congress. In 2001, it was in Victoria, B.C., and the much anticipated “headliner” was a plenary talk by Tony Noble, a friend and colleague of mine for the last twenty years. Tony had entitled his talk “SNO in Summer” and it announced, to much fanfare, the first scientific results of the Sudbury Neutrino Observatory (SNO). My challenge, in this article, is to convey something of the excitement and significance of this event and to explain the incredible and continuing story of SNO, an international success story in which Laurentian University and Sudbury figure large. Indeed, we can be very proud of our roles.

This being a story in the realm of fundamental scientific research, I offer a couple of tangible measures to illustrate the impact of SNO’s results on the scientific community and the tremendous reaction they brought about. SNO maintains a website. Over the two weeks leading up to the announcement of these first results, the web site had an average of about 4000 hits per day; a respectable traffic for a totally academic and narrowly-focused website. On June 18th, the day of Tony’s talk, the traffic jumped to 115,000 hits and then peaked on the 19th with 285,000 hits. SNO’s news, whatever it was, spread like wildfire within the scientific community and thousands upon thousands sought out more details on the website literally within 24 hours of the release of the results!

In parallel with the talk, the preprint of the paper, which was submitted that day, was released on SNO’s website. By mid-day on the 20th, 6300 copies of it had been downloaded! Astounding! But even more astounding still was SNO’s ability to retain this level of world-wide interest. By 2003, two other papers had been published and *Science Watch*, an organization that compiles and publishes statistics on citations in basic research, announced in their November-December 2003 issue that the three SNO papers were the top three cited papers, in all of physics, for the two-year period ending June 2003.

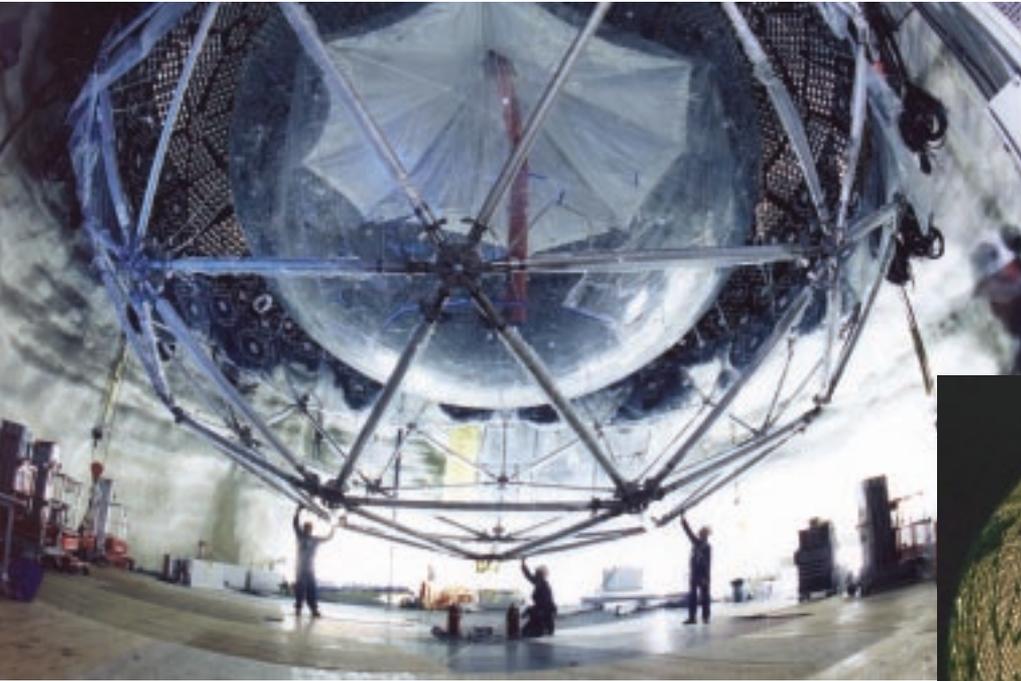
As of May 2004, SNO’s first paper has been cited by other authors, in published works, 868 times.

Clearly SNO did something that caught the attention of the scientific world. What could possibly be so fundamentally important? And why did it happen in our backyard (actually two kilometers underground in Inco’s Creighton Mine)? To properly tell the story I must introduce you to neutrinos and a bit of their history that has become known as the “solar neutrino problem.”

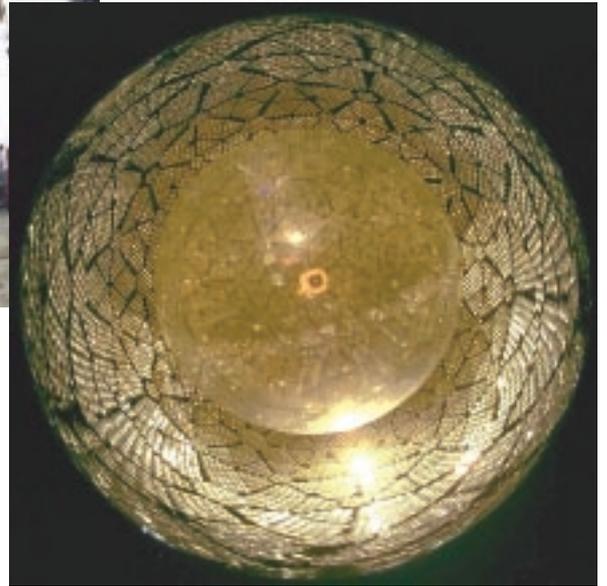
Neutrinos are fundamental particles in the same sense that electrons and the quarks that are inside of protons and neutrons are fundamental particles. Neutrinos have no electric charge, about one ten millionth the mass of an electron, and interact only very, very weakly with matter, which makes them notoriously difficult to detect. We use the term “fundamental” to

“SNO’s news, whatever it was, spread like wildfire within the scientific community...”

signify that, as far as we know, they are not composed of other particles yet more fundamental and are, in this sense, one of the building blocks of the universe. Initially the neutrino seemed curiously insignificant and yet a necessary particle.



was that we had in fact solved this long-standing enigma. Space doesn't permit a description of how SNO was able to convincingly lay this question to rest but the beauty of SNO's result was that it was consistent with all previous experimental results and with the theoretical calculations. The puzzle hadn't persisted for three decades because someone had made an error;



It is now understood to be a part of the cosmic fabric and to have played essential roles in the shaping of the universe.

Our universe is clumpy on several different distance scales. There are clumps of matter called planets, stars, solar systems, galaxies, and there are even clumps of galaxies. However, if we could take all of this matter and spread it out uniformly in space, the density of the universe would be about one proton per cubic meter. On the other hand there are about 30 million neutrinos per cubic meter. The universe is filled with neutrinos! Most of them are so-called relic neutrinos from the big bang, some come from supernova explosions which occur throughout the visible universe at a rate of about one per second, others come from the nuclear fusion reactions that power the stars, and yet others from terrestrial nuclear reactors, from the earth's natural radioactivity, or from the interaction of energetic cosmic rays in the earth's atmosphere.

On earth the dominant source of neutrinos is our sun. The observation of these solar neutrinos, in 1967, by Raymond Davis, Jr., provided experimental evidence that the sun was indeed powered by nuclear reactions, but it also raised serious questions. For thirty years, Davis' and several other experiments showed that, the number of neutrinos detected on earth was only about a third of the number predicted by detailed calculations. This persistent discrepancy became known as the "solar neutrino

everyone had done their work carefully and correctly, and SNO's unique capabilities demonstrated this and explained why.

It takes an exceedingly sensitive detector to observe solar neutrinos. Both high energy radiation from cosmic rays and low energy radiation

"It is now understood [that neutrinos are] a part of the cosmic fabric and [that they] have played essential roles in the shaping of the universe."

problem" and for decades it was listed as one of the top ten puzzles at the frontier of physics. SNO's contribution to physics – and the reason for the level of anticipation and excitement surrounding the announcement of our first results –

from the natural environment that surrounds us would tend to obscure the subtle and rare interactions of neutrinos with a detector such as SNO. So rare are those interactions that even when the number of neutrinos coming from the sun is as

high as six million per square cm per second; and even when the detector is as large as 1,000 tonnes, a neutrino interaction occurs less than once per hour. To escape the cosmic ray background, the detector was built



deep underground, beyond the reach of all but a few cosmic rays. To reduce the level of low energy background radiation many extraordinary measures were taken that pushed the technological envelope in the field of extremely pure materials. For nearly 20 years, the Laurentian SNO group has played key roles in materials selection, construction, and the scientific program of the SNO detector. Physics professor Dr. Doug Hallman, Laurentian's founding member of the SNO Collaboration, developed a materials monitoring facility, and contributed to the clean-room design and construction of the SNO laboratory. He still oversees materials and cleanliness monitoring. Extraordinary care in this area prevented the "building in" of dust with natural radioactive contaminants; as a result, the experiment was so clean from day one that high quality data was obtained much sooner than anyone expected.

Dr. Jacques Farine's overwhelming concern and significant contribution to SNO has been in the area of determining the low energy background contribution to the signals that SNO measures. He oversees a large effort to measure the ultra-low levels of natural radio-contaminants in the materials that compose the bulk of

the detector. The radio-assay techniques employed have a sensitivity of one atom per tonne. Monitoring these as a function of time, and translating them into a measure of the background to the neutrino signal, is painstaking and precision work which feeds directly into the final results that SNO publishes; another essential contribution that Laurentian University has made to the overall success of SNO. This is also a fundamental area of expertise for the next generation of ultra-sensitive "Underground Science" experiments which, like SNO, will take advantage of one of Sudbury's unique assets: *its deep mines*.

A part of SNO's scientific mission belongs almost exclusively to Laurentian. As a neutrino-sensitive detector, SNO would see hundreds of neutrino interactions in the event of a supernova in our galaxy. Supernovae emit astronomical numbers of neutrinos, around 10^{55} to be a bit more precise. While a supernova may glow as bright as 10 billion stars for several months following the explosion, this visible display represents less than 1% of the energy released. Ninety-nine percent (99%) of the energy is given off as neutrinos... in less than one minute. Though neutrinos travel at the speed of light they are emitted up to 10 hours before the explosion, which starts at the core, reaches the surface of the star. This offers the possibility to detect these supernova neutrinos and to alert the astrono-

mical community of the start of the visible supernova, before it happens! Since 1998, I have had the pleasure of leading SNO's Supernova Trigger Group and being the architect of SNO's participation in the international Supernova Early Warning System (SNEWS). It's been great fun... and although, so far, we have no supernova to tell the world about, we are ready for one.

Back to that day in June 2001, a historic day in physics. Where were the members of the Laurentian group? As SNO's Director of Communications, Doug Hallman was in Victoria, proud of SNO's recognition by colleagues from across Canada, and handling the media like a professional. Jacques Farine was in Dubna, Russia, at a major international conference in non-accelerator particle physics. A few hours after Tony Noble's talk, he also presented SNO's results to the other side of the world. Vodka flowed like champagne in celebration; everyone there was enormously pleased to be a part of the world-wide announcement. I was supposed to be in Victoria too but had just broken my ankle while white-water canoeing and was in a cast and on crutches, in Sudbury. My compensation, it seemed, was to do the CBC "As It Happens" interview with Mary Lou Finley. A couple of days later, Doug and I presented the SNO results to Sudbury audiences in the Governor's Lounge and to a packed Inco Cavern at Science North.

The SNO Collaboration

There are currently 141 physicists forming the SNO Collaboration. The 10-member Laurentian group has three faculty members, three post-docs, plus graduate students and other professionals.

University of British Columbia,
Vancouver, BC

Brookhaven National Laboratory,
Long Island, Upton, NY

Carleton University, Ottawa, ON

University of Guelph, Guelph, ON

Laurentian University, Sudbury, ON

Lawrence Berkeley Laboratory,
Berkeley, CA, USA

Los Alamos National Laboratory,
Los Alamos, NM, USA

University of Oxford, Oxford, UK

University of Pennsylvania, Philadelphia, PA, USA

Queen's University, Kingston, ON

University of Texas, Austin, TX, USA

TRIUMF, Vancouver, BC

University of Washington, Seattle, WA, USA

Even later, once I was walking again, I presented the results to the Physics Department at Yale University.

Where does SNO go from here? How can we follow this resounding success story? Enter SNOLAB, an International Facility for Underground Science. With significant momentum from the success of SNO we have received over \$49M from federal and provincial sources for the creation of SNOLAB. This new international facility will house up to four next generation experiments. A queue of 14 proposed experiments, for the four locations, has already formed. Competition ensures that the best science will eventually happen in Sudbury's new laboratory. Construction of SNOLAB has already started. Deep under the Canadian Shield, history continues to be made. ■

Dr. Raymond Davis Jr.

Dr. Raymond Davis Jr., a Professor Emeritus at the University of Pennsylvania's Department of Physics and Astronomy and a research emeritus scientist at Brookhaven National Laboratory, was one of three co-recipients to be awarded the 2002 Nobel Prize in Physics. He was recognized "for pioneering contributions to astrophysics, in particular for the detection of cosmic neutrinos."

SNO Ties:

A strong supporter of SNO, the "father of neutrino research", visited the nearly-completed laboratory during his 1997 visit to Sudbury and gave a much-appreciated seminar.

LU Ties:

In 1997 – five years before the Royal Swedish Academy of Sciences awarded him his Nobel Prize – LU presented Dr. Davis with an Honorary Ph.D. in Science. Talk about vision!

Magazine makers

Our list of supporters just keeps growing! A special thanks to our very latest Magazine Makers. Like many other generous alumni and friends, they help make this publication possible.

Andrew Bell

Anne Holub

Angela Humphrey and Jeff Rouse

John and Cynthia Onofrio

Jerald E Pinto

Gilles Renault

Ronald S. Zinkie

We appreciate the support of all of our Magazine Makers, since the initiative was launched:

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Steve Pageau

Phil Parker

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Bill Sanders

Dara Shaw Brachman

Jacques Tremblay

Leanne and Mike Whitehouse

Bob Yeamans and Tannys Laughren

See page 15 to find out how you too can become a Magazine Maker.

(† – deceased)

Laurentian: Tops in Awarded Research Grants and Chairs

In our PROF-File section, we have highlighted the research accomplishments of four faculty members who have secured NSERC funding for 25 years in a row. In another section, we have briefly profiled a number of Laurentian's research centres. But there is more. Numerous other very worthy research projects are conducted by LU faculty. As a sample, here is a list of the latest winners of NSERC for 2004-2005. In addition to this, LU has been allocated nine prestigious Canada Research Chairs; Chairpersons have been appointed to five of these.

Research and Equipment Grant Awards for 2004-2005

For the 2004-2005 academic year, Laurentian University will receive a total of \$1,447,647 in operating, equipment, and project grants from the Natural Sciences and Engineering Research Council of Canada (NSERC).

Research Awards - \$1,367,880

Alarie, Y. (Biologie)

4 of 4 – \$22,000

Systematics, evolution and larval morphology of world Hydradephaga (Coleoptera)

Amaratunga, L.M. (Engineering)

2 of 4 – \$23,000

Development and processing of mine fill as an engineered composite using waste and its environmental benefits

Anand, M. (Biology)

4 of 4 – \$15,000

Dynamics of ecological complexity

Aouni, B. (Commerce et administration)

1 of 5 – \$12,000

Modélisation des préférences du décideur dans le modèle du Goal Programming dans un contexte d'information imparfaite

Arteca, G.A. (Chemistry and Biochemistry)

3 of 4 – \$57,000

Molecular shape and conformational transitions in biomolecules. Theory and simulations

Azzouz, M. (Physics and Astronomy)

1 of 2 – \$11,000

Application of the concept of rotating antiferromagnetism to high-temperature superconductors

Baiden, G.R. (Engineering)

2 of 4 – \$19,000

Telemining Research Laboratory – Technology change and its impact on production systems

Belzile, N. (Chimie et biochimie)

4 of 4 – \$25,280

Biogeochemistry of trace elements in aquatic systems

Boudjellaba, H.

(Mathématique et informatique)

3 of 4 – \$8,000

Étude de modèles biologiques avec plusieurs échelles de temps

Boudreau-Larivière, Céline

(Activité physique)

2 of 4 – \$27,000

Cytoarchitectural organization and mitochondrial distribution and respiratory functions of Bpag1-deficient skeletal muscle

Caron, F. (Chimie et biochimie)

2 of 2 – \$21,300

Method development for the mobility and speciation of radionuclides from nuclear wastes

Copper, P. (Earth Sciences)

4 of 4 – \$71,700

Global reef expansion and collapse: radiation, evolution, mass extinction of mid-Paleozoic reef and peri-reef biotas

Czapor, S.R.

(Mathematics and Computer Science)

1 of 3 – \$8,200

Applications of symbolic algebraic computation in applied mathematics

Ferroni, G.D. & L.G. Leduc (Biology)

3 of 4 – \$33,000

Activities of A. ferrooxidans and other acidophiles in acid mine drainage and bioleaching

Gauthier, É. (Chimie et biochimie)

2 of 4 – \$29,300

Molecular control of apoptosis in mammalian cells

Gibson, H.L. (Earth Sciences)

3 of 4 – \$42,120

Volcanic processes, environments and controls on the formation and location of volcanic-associated massive sulphide deposits

Gong, M.

(Mathematics and Computer Science)

1 of 3 – \$14,000

Dynamic image-based scene modeling and rendering

Hajdasinski, M. (Engineering)

3 of 5 – n/a

Optimisation of the size and production schedule of an underground hard-rock mine (Deferred 2004-2005 instalment)

Henda, R. (Engineering)

1 of 4 – \$19,000

Numerical analysis of the nonlinear dynamics of complex chemical systems using wavelets

Johnson, J.

(Mathematics and Computer Science)

2 of 4 – \$10,500

Reverse rough set method

Joly, H. (Chimie et biochimie)

4 of 5 – n/a

Metal-atom mediated chemical transformations (deferred 2004-05 instalment)

Kaiser, P.K. (Engineering)

1 of 5 – \$69,000

Advanced geomechanics design of underground structures

Kazakidis, V.N. (Engineering)

3 of 4 – \$18,000

Flexibility assessment in mine planning and design: applications for flexible technologies and methods

Lafrance, B. (Sciences de la terre)

4 of 4 – \$20,500

Structural controls on gold mineralization in transpressive deformation zones

Leclair, R. (Physique et astronomie)

4 of 4 – \$23,500

A systematic approach for determining whether a low-angle x-ray scatter detection system could improve the detection of breast cancers

Lee, H. (Chemistry and Biochemistry)

3 of 4 – \$25,000

Determining the hamster Cdc7 and Dbf4 amino acid residues that are required for kinase activity

Leshner, M. (Earth Sciences)

3 of 4 – \$41,560

Dynamic processes in magmatic Ni-Cu-(PGE) deposits

Long, D.G.F. (Earth Sciences)

1 of 5 – \$26,690

Precambrian and early Paleozoic rivers

McDonald, A.M. (Earth Sciences)

3 of 4 – \$27,000

Applied crystal chemistry

Mercier, L. (Chimie et biochimie)

3 of 4 – \$44,580

Functional nanoporous materials: synthesis, inclusion properties and environmental applications

Michel, R.N. (Human Kinetics)

2 of 5 – \$56,180

Nerve trophic control of skeletal muscle properties

Nkongolo, K.K. (Biology)

2 of 4 – \$20,000

Genome organization and physical mapping of repeated DNA sequences in black and red spruces

Passi, K.

(Mathematics and Computer Science)

4 of 4 – \$10,000

Integrating XML schema

Piercey, S. (Earth Sciences)

3 of 4 – \$28,120

Petrology, tectonic and metallogenic history of paleozoic magmatic rocks in Yukon-Tanana Terrane, Yukon

Ramcharan, C. (Biology)

1 of 5 – \$16,000

New directions in lake food webs

Robidoux, N. (Mathématique et informatique)

1 of 3 – \$8,000

Cochain-based numerical models

Ryser, P. (Biology)

3 of 4 – \$31,000

Ecological significance of plant biomass turnover

Sawyer, P. (Mathématique et informatique)

3 of 4 – \$13,000

Spherical functions on symmetric spaces and their applications

Schulte-Hostedde, A. (Biology)

1 of 5 – \$22,000

Evolutionary and behavioral ecology of mammals: individual and genetic approaches

Shang, H. (Engineering)

2 of 4 – \$19,000

Identification of distributed parameter systems by means of the combination of partial least square with Karhunen Loeve decomposition

Shorthouse, J.D. (Biology)

3 of 4 – \$15,000

Biology of insect galls, ecology and systematics of inhabitants, gall developmental morphology

Spiers, G.A. (Chemistry and Biochemistry)

4 of 4 – \$18,280

Pedological impacts of metals in the Sudbury Basin

Subramanian, R. (Engineering)

2 of 4 – \$18,000

Development of novel synthetic water-based polymers

Thurston, P.C. (Earth Sciences)

4 of 4 – \$25,000

Greenstone Belt development

Vagenas, N. (Engineering)

2 of 4 – \$20,070

Reliability assessment of mining equipment using genetic algorithms with probability distribution based fitness function

Virtue, C.J. (Physics and Astronomy)

1 of 1 – \$220,000

Sudbury Neutrino Observatory Research at Laurentian University (Application each year)

Westaway, K.C. (Chemistry and Biochemistry)

3 of 4 – \$45,000

Using kinetic isotope effects to model the S_N2 transition state

Yalcin, T. (Engineering)

1 of 3 – \$19,000

Dissolved gas applications in mineral processing

Schulte-Hostedde, A. (Biology)

\$10,099

Equipment for genetic analyses in molecular ecology

Virtue, C.J. (Physics and Astronomy)

\$50,000

Sudbury Neutrino Observatory – Data Center ■

Five Canada Research Chairholders at LU

Currently, five LU faculty members have been nominated to some of the nine Canada Research Chairs (CRC) allocated to the establishment.

To fully understand the scope of this, one must bear in mind the program's high standards and the broadened research possibilities this kind of funding creates. There are two types of CRCs: Tier 1 Chairs and Tier 2 Chairs. The first are valid for seven years, renewable, and accompanied with an annual \$200,000; they are for those acknowledged as outstanding researchers by their peers and recognized as world leaders in their fields. The second are tenable for five years, renewable once, and worth \$100,000 annually; they are for emerging and promising researchers. Here are LU's five current Chairholders.

Dr. Madhur Anand (Biology)

Tier 2 CRC in Biocomplexity of the Environment

Dr. Gustavo A. Arteca

(Chemistry and Biochemistry)
Tier 1 CRC in Biophysical Computational Chemistry

Dr. Gregory R. Baiden (Engineering)

Tier 1 CRC in Robotics and Mine Automation

Dr. John Gunn (Biology)

Tier 1 CRC in Stressed Aquatic Systems

Dr. Aseem Kumar (Chemistry)

Tier 2 CRC in Biomolecular Science ■

SSHRC Grants

From the Editor – At time of going to press, SSHRC competition results had not been made public. Nonetheless, year after year, numerous LU professors are awarded research grants in social sciences and humanities for outstanding research projects.

Seeking answers: LU research centres

From the editor – Individual profiles are usually featured in this section of the Magazine. Although countless alumni have done extremely well in the field of research, we have chosen to take a more collective approach in this issue and to focus on research that is done at selected LU centres, located on and off campus. We will return to the regular format in the next issue, featuring alumni who have an outstanding track record in the field of education.

LU boasts highly-respected and well-renowned research centres. Each of these had made fundamental advances in its areas of specialization. Here is a brief outline of what is going on at some of them.

Centre for Research in Human Development (CRHD)

Dr. John H. Lewko, Executive Director

http://laurentian.ca/admn/GRAD_STUDY/RESEARCH/CRHD.HTML

This interdisciplinary research centre supports a range of basic and applied research activities across several academic units (Psychology, Sociology, Human Kinetics, Social Work, Native Studies, Commerce and Administration, Nursing). Major research initiatives within the Centre include injury prevention and risk decision making, costing of accidents,

young workers and safety, youth and risky behaviours, well-being of seniors, factors affecting healthcare choices, school to work transition, ergonomic risk factors, emotional development, neuropsychological development, social-relational development, family and socialization, and science career choices. The Centre offers infrastructure support to students

enrolled in the MA and MSc in Human Development programs. The CRHD has become an applied research framework within three major sectors of human services: health, education and social services. This provides students with the opportunity to pursue policy-oriented research during their degree.

Centre for Research in Rural and Northern Health Research (CRaNHR)

Dr. Raymond W. Pong, Research Director

<http://cranhr.laurentian.ca/>

Established in 1992, CRaNHR is a nationally-recognized academic and applied research centre and one of very few Canadian research institutes to focus on rural health issues. A conjoint research center, CRaNHR is based at Laurentian and Lakehead universities. Working in partnership with the healthcare community (i.e., the Northeastern Ontario Regional Cancer Centre, Sudbury Regional Hospital, Northeastern Ontario

Medical Education Corporation and Group Health Centre of Sault Ste. Marie) and the Ontario Ministry of Health and Long-Term Care, CRaNHR conducts interdisciplinary research on health workforce and healthcare issues, striving to better understand the rural health care system and to improve access to health services in rural and northern areas. LU researchers from various disciplines and with different expertise have conducted

research on a wide array of issues, including regional variations in health status, management, organization and effectiveness of rural and northern health services, use of telehealth technology, as well as on the training, regulation, distribution and utilization of healthcare providers. The Centre, which collaborates with a number of other universities and organizations, has published many articles on several health-related topics.



Cooperative Freshwater Ecology Unit (CFEU)

Dr. John Gunn, Managing Scientist

<http://coopunit.laurentian.ca/>

CFEU was established in 1989 as a partnership between Laurentian University, the Ontario Ministry of Natural Resources (OMNR), and the Ontario Ministry of the Environment (OMOE), to focus on research in freshwater ecology. Housed on the shores of Ramsey Lake, near LU, CFEU has done internationally-recognized work in the areas of lake acidification, remediation, and lake ecosystem

recovery in Northern Ontario. The research conducted by the CFEU aims to understand the functioning of industrially-damaged aquatic ecosystems; to assess and monitor the process of recovery and rehabilitation of industrially-damaged waters; and to develop and test rehabilitation techniques. The CFEU provides exciting research opportunities in restoration ecology, environmental science, and aquatic resource

management, as well as an education program that benefits students, government, and the general public. As a result of a recent arrangement between LU and the University of Guelph, students may pursue Ph.D. studies at the University of Guelph, while carrying out research at Laurentian. The CFEU also organizes an annual conference and workshop called the Sudbury Restoration Workshop.

Institut franco-ontarien (IFO)

Dr. Gratien Allaire, Director

Established nearly 30 years ago by a group of LU francophone researchers, IFO is one of the University's first research institutes. Its goals are to conduct research – both sponsored and academic, to publish articles and studies, to organize colloquia and conferences, as well as to gather

documentation on Franco-Ontarians. Since 1978, the IFO has been publishing *La Revue du Nouvel-Ontario*, conference proceedings and numerous other publications through its Fleur-de-trille collection. The Institute is responsible for the Franco-Ontarian collection found at

the J.N. Desmarais Library. Over 50 Ontarian researchers are members of the Institute which is located at the lower level of LU's Classroom building.

Institute of Northern Ontario Research and Development (INORD)

Dr. Derek Wilkinson, Director

<http://inord.laurentian.ca/>

INORD was established in 1986 to promote economic and social research on Northern Ontario. Its purpose is to provide support and encouragement for LU faculty in the social sciences and related disciplines on a broad range of issues facing Northern Ontario. It does so by facilitating independent academic research by LU faculty, by acting as a point of contact between groups or

individuals from outside the university seeking special research expertise, and by actively promoting the study of Northern Ontario. These three main activities include assisting with funding proposals, arranging for publication, organizing appropriate research teams, distributing available funds, identifying potential research experts within the LU community, working out contractual

details, providing supervisory and administrative infrastructure, organizing conferences, publishing their proceedings, and promoting research on certain attention-deserving issues. INORD's Council is made up of appointed representatives from Commerce, Economics, Geography, History, Political Science, and Sociology.



Mining Innovation, Rehabilitation, and Applied Research Corporation (MIRARCO) Dr. Peter K. Kaiser, President

www.mirarco.org

MIRARCO was established in April of 1998 as a not-for-profit applied research and technical service company through collaborations between Laurentian University and the private and public sectors. Its main goals include promoting mining innovation, assisting in regional diversification, and stimulating economic

growth in Northern Ontario. MIRARCO works with industry to tackle challenges in mining, the environment and information technology. It creates multidisciplinary “solution teams” of highly-qualified researchers, including a complement of undergraduate, Master’s and Ph.D. students. Located in LU’s

Applied Research Park, MIRARCO provides four facets of expertise mining technology, rock mechanics and ground control, the environment and information technology MIRARCO’s spin-off centres are:



1. Technology

Centre for Mining Technology (CMT)

Dr. Paul Dunn, Chair

www.mirarco.org/aboutcmt.php

CMT works in cooperation with service companies, other research centres and mining companies to bring mining operations to their most productive and cost-efficient levels by optimizing equipment, people and material utilization. This is done through applied research and

development which focuses on monitoring and control systems, operations research simulation, systems engineering and mine equipment, and systems automation. It is also done through implementation of new methods and technologies. The Centre is currently

conducting research on waterjet technology, equipment design and process simulation, health and safety-related virtual reality, assessment of scheduling and the impact of costing factors on profitability.

2. Rock Mechanics and Ground Control

Geomechanics Research Centre (GRC)

Dr. Peter K. Kaiser, Director

www.mirarco.org/aboutgrc.php

GRC was created in 1988 through a Triangle of Excellence Programme between Queen’s University, the University of Toronto, and Laurentian University. The Centre provides research expertise in geomechanics and geotechnical engineering to promote safe and economical mining and tunnelling. GRC’s unique location – in the heart of the Canadian

mining industry, near LU’s campus – provides a field base for graduate students. Currently, research is being conducted on the support of mining excavation in hard rock, mechanized rock excavation, support of bursting ground, geomechanics of deep mining, risk-cost-benefit analysis and use of micro-seismic observations for mine design. The Centre,

being linked to the graduate programs at the University of Toronto, Queen’s University, and the University of Alberta, allows students from these universities to conduct research at GRC. Since its inception, GRC has generated over \$8M in research funding.

3. The Environment

Centre for Environmental Monitoring (CEM)

Dr. Graeme Spiers, Director

www.mirarco.org/aboutcem.php

Founded in 2000, CEM conducts interdisciplinary research that focuses on environment issues related to the mining industry. It studies the effects of emissions and of abatement technologies on both spoilt and nearly unspoiled land systems, and measures the impact of

mining exploitation on human health issues through studies of water quality. CEM also promotes a holistic approach to environment management by bringing together experts from a variety of environment management-related fields with the goal to achieve ecosystem

remediation, rehabilitation and restoration. Working closely with industry and community partners, CEM fosters proactivity in the area of ecosystems preservation and helps to create and develop new technologies that meet environmental regulations.

4. Information Technology

Centre for Integrated Monitoring Technology (CIMTEC)

Andrew Dasy, Start-Up Director

www.mirarco.org/aboutcimtec.php

Hosted by LU and managed by MIRARCO, CIMTEC provides state-of-the art technology to support interdisciplinary research and development. This computing network infrastructure enables high speed, large volume data collection and transfer for high-end research, decision-making and process control.

CIMTEC also assists in data analysis and visualization, and provides secure storage and backup facilities at its server farm located in the Willet Green Miller Centre. This high-tech data processing allows experts to conduct larger-scale research projects which make it possible to achieve

a better understanding of mining and its environment. CIMTEC also boasts a Virtual Reality Laboratory (VRL) fully equipped with computing and visualization facilities to create 3D images, to handle multiple datasets and to facilitate multidisciplinary collaboration.

MIRARCO also works with three Affiliated Research Centres that are independently building successful reputations for innovation in the areas of the environment, mineral exploration and materials:

1. The Environment

Elliot Lake Research Field Station (ELRFS)

Dr. Dougal McCreath, Director

www.elrfs.org

ELRFS was founded in 1991 as a \$3M initiative of the Ministry of Northern Development and Mines (MNDM), LU and the City of Elliot Lake. It was developed into a R&D centre to undertake research, development, and application of environmentally- and socially-responsible techniques and technologies. A unique area of specialization focused on the long-term effects of low level radiation. After the closure of the uranium mines in Elliot Lake, the laboratory, with the assistance of the

mining companies, began providing analytical services in support of local decommissioning and environmental monitoring programs in the region. The laboratory, which has since developed a nation-wide client base, specializes in radionuclide analysis and provides a wide range of inorganic services to private industry for environmental samples, including solid wastes, effluents, receiving waters, ground waters, soils, sediments, plant, animal and fish tissues, and airborne particulates. In 2002, ELRFS became accredited by the Standards

Council of Canada (SCC) in cooperation with the Canadian Association of Environmental Analytical Laboratories (CAEAL), an accreditation that formally recognizes its competence. Linked with LU's departments of Biology and Chemistry, the lab is able to access scientific expertise from the professors and principal investigators for its clients. ELRFS is located in Elliot Lake, about 170 km West of Sudbury, and 30 km North of the Trans-Canada Highway, on Highway 108.

2. Exploration

Mineral Exploration Research Centre (MERC)

Dr. Michael Lesher, Director

<http://www.merc.laurentian.ca/>

MERC is closely integrated with the Department of Earth Sciences and promotes collaborative university-government-industry research on mineral deposits and Precambrian geology, pursues a fundamental understanding of mineral deposits and their geological settings, aids the Canadian mining

industry in the discovery of ore deposits, and trains geologists in mineral exploration techniques. MERC was founded in 1997 in connection with the establishment of a \$2.3M NSERC Senior Chair in Mineral Exploration Research in the Department of Earth Sciences. During the last several years MERC

researchers have generated more than \$1M in annual funding for research on ore deposits all over the world. MERC was recently awarded the contract to administer the 4-year \$8M Ontario Mineral Exploration Technology Programme for the Ministry of Northern Development and Mines.

3. Materials

Centre for Mining and Mining Environment Research (CIMMER)

Dr. Louis Mercier, Executive Director

<http://www.mirarco.org/aboutcimмер.php>

CIMMER was established in 1984 with a \$1.5M award from the Mines and Minerals Research Branch of the federal government. This centre provides research links between academic, institutional, and industrial partners, and encourages the

interdisciplinary focus of mineral deposit exploitation-related research and development. CIMMER research projects have included simulation studies of automated mining systems, environmental toxicology and rehabilitation, the development of a

computerized mine environment database, international cooperative exchanges in the mineral sciences, and remote sensing. The Centre also hosts mining industry-related seminars, workshops and conferences.



Laurentian University Mine Automation Laboratory (LUMAL)

Dr. Nick Vayenas, Director

<http://www.laurentian.ca/lumall>

LUMAL is a research laboratory supported by LU's School of Engineering and by the Department of Mines Technology at INCO Ltd. in Copper Cliff, Ontario. Its educational objective is to encourage and support teaching in mining automation/robotics and in the application of new technologies in the mining sector. Its research objective is to provide research expertise in mining

automation and, being an industry-oriented lab, to develop strong industrial links with Canadian companies which focus on new mining technologies. LUMAL focuses on engineering analysis and system architecture of teleremote/automated mining systems, 3-D animation and simulation of mining sequence and equipment systems, dispatch and traffic control of vehicle based transport

systems, maintenance evaluation and reliability analysis of mining equipment, as well as rapid prototyping techniques in mining. Since its inception in 1993, LUMAL has generated almost \$1M in grants from the public sector and industry. All LUMAL projects are administered by CIMMER.

The **PROF**file

Twenty-five years of NSERC – funded research



From left: Dr. Paul Copper, Earth Sciences; Dr. Patrice Sawyer, Mathematics and Computer Science, LU NSERC representative and organizer of the event; Mrs. Phyllis Kaye, who accepted the plaque on behalf of her late husband, and Dr. Joseph Shorthouse, Biology.

Each year, the National Science and Engineering Research Council (NSERC) is overwhelmed by applications from top scholars who compete for research and equipment funding. The process is rigorous, the applications are scrutinized. Happy are those who secure the much-coveted funds. At Laurentian, an elite group of researchers have seen their research projects funded since the inception of NSERC, that is for each and every of the past 25 years. These four faculty members were honoured – one posthumously – during a special reception held in the Governors' Lounge on May 20th. Here are brief outlines of these outstanding researchers' work. Shall we call them the 'Famous Four'?

Dr. Paul Copper (Earth Sciences)

Dr. Copper's research has focused on the effect of global stress – particularly in the Early and Middle Paleozoic era – on tropical marine ecosystems. He has studied the patterns of extinctions, especially in reefs, during two of the most severe of the five global mass extinction episodes. Global mass extinction happens when a large scale – 50% or more – of the planet's population of a species is eliminated. Studying the surviving species has enabled Dr. Copper to determine the severity and the selectivity of these extinctions. A number of broad trends have emerged from his research, including that tropical life was more severely affected than that of cooler regions, and that it took three to five million years for devastated ecosystems to recover from such extinctions.

Dr. Brian H. Kaye (Physics and Astronomy)

The late Dr. Kaye was a renowned physicist in the field of fine particles research. Over the course of his 40-year research career, he made significant contributions to the interdisciplinary field of powder and aerosol science. His research projects involved a variety of techniques, especially the use of computer-aided image analysis to measure particles' shapes and sizes. Dr. Kaye pioneered the applications of fractal geometry and chaos theory to the field of powder technology. He published over 100 scientific papers on various aspects of the subject and wrote books, textbooks, and a study guide. Dr. Kaye was also a consultant with many companies, and had a life-long activity in the area of occupational health and hygiene after working at an atomic weapons research establishment in Great Britain.

Dr. Joseph D. Shorthouse (Biology)

Dr. Shorthouse's research focuses on the biology of insect galls induced by the cynipid wasps of the genus *Diplolepis* (Hymenoptera) on the wild roses of Canada. Since 1968, he has been closely studying the galls of the 14 species of *Diplolepis* found in Canada, as well as those of other insects. Dr. Shorthouse is equally interested in the biology of Canada's wild roses. In fact, he has prepared several

articles on insects associated with wild and domestic roses for the book *Encyclopedia of Rose Science*, published by Academic Press, London, England.

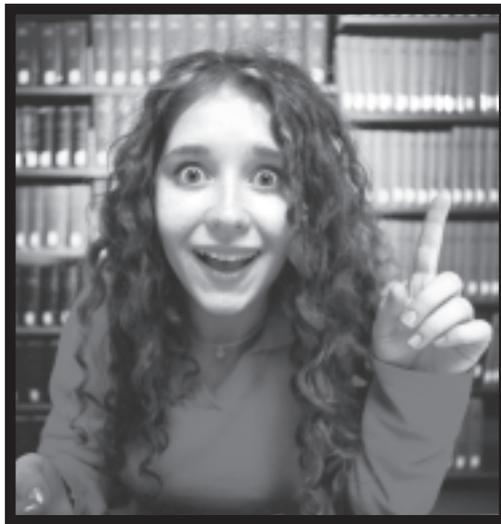
Dr. Kenneth C. Westaway (Chemistry and biochemistry)

Dr. Westaway's current research work evolves around the use of kinetic isotope effects or KIEs (the change in the rate of a reaction that occurs when in a chemical reaction, an atom is replaced with its isotope) to model the SN₂ transition state. The main goal of this research is to use heavy atom as well as primary and secondary deuterium KIEs to understand how and why substitution reactions occur. This should benefit other chemists who will be able to carry out reactions faster and in higher yield, thus saving time and raw materials. The importance of this research lies in the fact that this type of simple organic reaction can be applied to more complex ones.



Dr. Kenneth C. Westaway

perks? *for me?* who knew?



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All mine (and yours – just ask.)



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