

McMaster Review

McMASTER UNIVERSITY'S MONTHLY NEWSMAGAZINE

VOLUME 3, NUMBER 2

2 February 2004

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Casey Parsons

Students reach out and open their hearts

BY CHANTALL VAN RAAY



Student outreach – McMaster's growing trend

When Katrina Cox thinks about her day, she sort outs how she's going to fit in classes, studying, friends and a part-time job. It's a busy life for the McMaster women's swim team athlete, who must also squeeze in two practices a day. Then she thinks about the cancer survivors she helped raise money for through the Athletics Council Student Outreach Program. Suddenly her day isn't so tough.

The co-ordinator of the outreach program has been given a new outlook on life due to her involvement with the initiative that reaches into the community to help others. It aims to have the involvement of every McMaster

varsity team in a community project of their choice through a designated "outreach day."

It's just one way McMaster students are helping others. A number of student clubs are dedicated to student outreach, including Shinerama, Smiling Over Sickness, War Child Canada @ McMaster and McMaster Students for Literacy. There are more than 400 volunteers that help with student services offered through Career Planning and Employment Centre (CPEC) and Centre for Student Development (CSD) and there are a number of student outreach initiatives within faculties, such as Engineers Without Borders and the School of Nursing's M.A.C. Door, a program that helps homeless youth leave the streets.

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Canada's past is the future of new history professorship at McMaster University



Ron Scheffler

Lynton Ronald (Red) Wilson

The future of our Canadian past will be the focus of a new professorship in Canadian history created at McMaster University. Canadian business executive Lynton Ronald (Red) Wilson has donated \$1 million - \$200,000 a year over the next five years - to establish the L. R. Wilson Professor in Canadian History in McMaster's Faculty of Humanities. The University will contribute \$250,000 - \$50,000 a year for five years - to support the gift.

Wilson, a distinguished McMaster alumnus with a bachelor's degree in economics, is a founding co-chairman of the Historica Foundation of Canada. The foundation's mandate is to provide Canadians with a deeper understanding of their history and its importance in shaping the future. Wilson, who also holds a master of arts degree in economics from Cornell University, is hailed as a keen supporter of the study of Canadian history and believer in the value of a broad liberal arts education.

"Understanding our past is a bridge to a better future," Wilson said at a ceremony announcing his generous donation. "The study and teaching of Canadian history deserves much greater emphasis in all of our educational institutions and McMaster is well-equipped to lead the way. As a country comprising people from diverse cultures and backgrounds, a broad appreciation of our history is an essential foundation on which to build a shared understanding, so that we can continue to encourage reasonable loyalty and foster responsible citizenship."

The L. R. Wilson Professor in Canadian History will be a renowned historian who will have a research specialization in Canadian historical studies and will teach undergraduate and graduate students. The professor will have a mandate to work with an interdisciplinary advisory board to develop history seminars, annual conferences, lectureships and an annual juried book competition to name the best book on Canadian history.

Wilson is currently chairman of the board of CAE Inc. and of Nortel Networks Corp. His distinguished career in Canadian business includes being president, chief executive officer and chairman of the board of BCE Inc. as well as president and chief executive officer of Redpath Industries Ltd. He is a director of DaimlerChrysler Canada Inc. and DaimlerChrysler AG. In recognition of his many achievements, he was the recipient of the 1994 International Business Executive of the Year Award. He was made an Officer of the Order of Canada in 1997 and is the recipient of six university honorary degrees, including one from McMaster in 1995.

Wilson's involvement with the University extends across campus. He has been a generous benefactor of student scholarships and his past support helped create an endowed chair in data communications in the Faculty of Engineering. Wilson also chaired McMaster's Changing Tomorrow Today

campaign, the most successful fundraising campaign in the University's history.

McMaster President Peter George said Wilson's generosity with his time and financial support throughout the years has contributed significantly to McMaster's ability to foster a stimulating, innovative environment for teaching, learning and research.

"Red Wilson is a true friend to McMaster," said President George. "Once again his generosity and vision inspire us. He is a champion whose gift will help us launch a new era in the way we teach and learn history at McMaster and allow us to share our expertise with others in our community and across the country."

Nasrin Rahimieh, dean of the Faculty of Humanities, said the professorship reinforces the Faculty of Humanities' commitment to collaboration and interdisciplinary teaching and learning.

Canadian history plays an important role in the teaching and research interests of faculty members inside and outside McMaster's Department of History. Professors interested in the history of Canada can be found in the areas of English, kinesiology, political science, psychiatry, medicine, geography, labour studies, engineering, anthropology, French, communication studies and theatre and film studies.

"We're very excited to have this opportunity to expand the Faculty of Humanities with this professorship that will encourage the study of Canadian history in a number of academic disciplines," Rahimieh said.

Rahimieh said she hopes to fill the professorship later this year.

-SHELLY EASTON

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Volume 3, Number 2 • February 2, 2004

Published by:
Office of Public Relations
Room 111, Chester New Hall
McMaster University
1280 Main St. W.
Hamilton, Ontario L8S 4L9

Fax: 905-521-1504
E-mail: review@mcmaster.ca

The *Review* is published monthly (except July) for faculty, staff and students at McMaster University.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in the *Review* do not necessarily reflect University policy.

Comments and letters should be sent to:
Editor, 905-525-9140, ext. 23662;
e-mail: bugaili@mcmaster.ca.
Letters to the editor must include name, department or address and phone number.

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Artwork: Casey Parsons

Advertising: Public Relations Office

Deadlines: All art and ads are due on the first Friday of every month in the month preceding publication.

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These stories are excerpted from the McMaster Daily News web site.

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Medical student awarded Rhodes Scholarship

Maureen Hogan is one of only 11 Canadians awarded the \$100,000 scholarship

BY JOHN BUGAILISKIS

“Teach people what to think and you limit them to your ideas. Teach people how to think and their ideas are unlimited.” Maureen Hogan was only a grade 11 student when attending a Shad Valley science and technology camp when she first heard the line quoted by a speaker. It has stuck with her ever since.

The third-year McMaster medical student will soon join an elite field of students ready to put those words to action. Her ongoing passion for research and community work was recently recognized when she became the first McMaster student in nine years to be awarded the prestigious Rhodes Scholarship to study at the University of Oxford in England. The Newfoundland native was her province’s representative among the 11 Canadian Rhodes scholars for 2004. The scholarships are valued at \$100,000 each and will allow her to study at the university over the next three years.

Hogan plans to complete a Masters in the area of psychiatry at Oxford. She is also planning on “embracing exposure to the arts,” by attending the wide variety of academic lectures offered there.

“I’m excited about the opportunity to study with people from all over the world and exchange different viewpoints. I’m also looking forward to consolidating what I’ve learned so far, and to broaden my knowledge both in the areas of mental illness and in arts and culture,” explains Hogan.

During her medical training at McMaster Hogan has been involved in a variety of research projects. She has examined the genetics of childhood obesity, which she presented at a conference through the University of Burapha in Bangkok, Thailand. Her research has also included looking at the drug effects in psychiatric patients to surveying students’ perceptions of the problem-based learning methodology used at McMaster, as well as writing a research grant application to test alternative methods of breast cancer detection.

To be considered for a Rhodes scholarship, applicants must demonstrate not only academic excellence but an ability to use “one’s talents to the full.” Hogan says she appreciates the leadership and team building experience she has gained from playing varsity and provincial level soccer. In addition, she also received a gold medal when she completed the rigorous Duke of Edinburgh’s Award program Young Canadians Challenge.

To obtain the gold medal, Hogan had to excel in challenges ranging from community service, physical recreation, skill development and undertake an expedition or exploration. She is still active with the award and has led a scuba-



Maureen Hogan

diving exploration in the Cayman Islands, a hiking expedition in Dartmoor, England, and mentors award participants.

During her time in medical school she says her attention turned to psychiatry when she began a clinical rotation in the psychiatric ward of the McMaster University Medical Centre, working with her supervisor Dr. Janet Patterson.

“She was absolutely phenomenal,” says Hogan. “The six weeks I worked with her were absolutely amazing from every aspect.”

While working in the psychiatric ward assessing and treating patients, she was “struck by the suffering these people encounter,” and now wants to become a public advocate for mental illness.

Hogan is now focused on combining clinical work in psychiatry with research and academics. When she returns to Canada from Oxford, she

plans to complete her five-year residency in psychiatry. Following her residency she wants to balance running a clinical psychiatric practice while continuing her work in research and teaching.

In the meantime, she’s already looking forward to tackling her next challenge: joining the University of Oxford’s Rowing Club. Canada’s Silken Laumann had better watch her back.

Mac’s Rhodes Scholars

©1904: Ralph Victor Belamy '02

©1909: Morden Heaton Lang '08

©1916: Rory Evans Freeman '14

©1934: John Baldwin '33 (Deputy Minister of Transport, 1954-68; President of Air Canada, 1968-74)

©1940: H. Allan Leal (Honours History '40, declined the Rhodes due to war service) (1917-99; chair of the Ontario Law Reform Commission, Deputy Attorney General of Ontario, McMaster’s chancellor from 1977 to 1986)

©1946: Bert MacKinnon '43 (Ontario supreme court judge, 1974-87; associate chief justice, 1978-87)

©1951: James H. Taylor (Honours History '51) (b. 1928. MSU president, 1950-51; Canadian diplomat, McMaster’s chancellor from 1992 to 1998)

©1957: George Rawlyk '57 (deceased, university professor)

©1975: Christopher Rose (B.Sc. '74, Medicine '76)

©1984: Eric Hoskins (Chemistry '82, Medicine '85)

©1995: Karen Bakker (Honours Arts & Science '95)

©2004: Maureen Hogan (Medicine '04)

Students reach out and open their hearts

continued from page 1

Student outreach is a growing trend at McMaster. A large percentage of the student body participates each year in several student-led, community initiatives. In fact, more students than ever are reaching into the community to help others, says McMaster associate vice-president student affairs Phil Wood. He has numbers to prove it.

“Last year I surveyed 1,000 students in their graduating year for the Canadian University Survey Consortium and of the 527 that responded, 53 per cent reported some involvement in community service or volunteer activities, either on- or off-campus,” he says. “More than half of the students surveyed in their graduating year in 2003 reported

to personal growth and development of the student outside of the classroom, it creates a sense of belonging and responsible citizenship in the University community, says Wood. “It also builds self-esteem and confidence in one’s ability to make a contribution and a difference to the community.”

For Cox, she volunteers for a number of reasons. But mainly, she does it because she knows she’s making a difference.

Founded in 2003 by McMaster alumni Katie Coulson and Carla Cupido, the student outreach program involves an activity of the student’s choice. Last year, outreach ranged from running a haunted house at Halloween for the Girls and Boys Club, helping raise money for the Terry Fox Run and cleaning up Cootes Paradise.

“Teams usually pick something close to their heart,” says Cox. “My team, the women’s swim team, we have a lot of women whose mothers have had breast cancer so last year we did the run for the cure for CIBC to raise money for the cancer society.”

“It was a great experience,” says the third-year science student. “We were such a large team that we were a great presence and they really appreciated it. A lot of people came up to us afterwards and said thanks so much for your donation and your time.”

The community has been very supportive, she adds. In fact, letters of thanks have poured in.

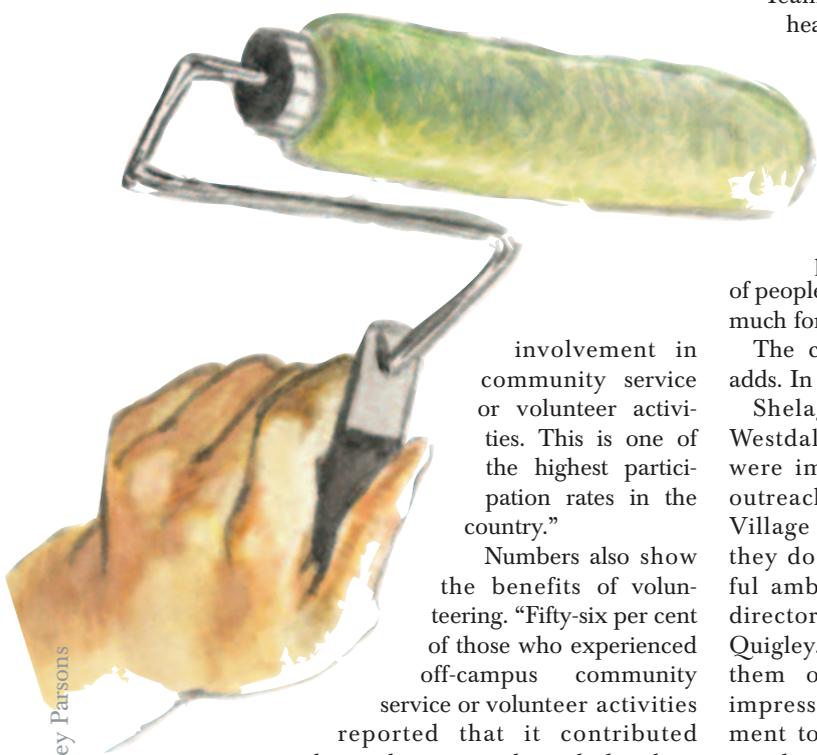
Shelagh Snider and David Daylor of the Westdale Business Improvement Association were impressed by McMaster’s fencing team’s outreach that involved decorating the Westdale Village for the Christmas season. “Not only did they do a wonderful job but they were wonderful ambassadors for McMaster,” they wrote to director of athletics and recreation Therese Quigley. “We had the pleasure of getting to know them over brunch and we were extremely impressed with their enthusiasm and commitment to the fencing team and to doing outreach in the community.”

The athletic outreach program is one of the largest forms of assistance on campus, but it is by far

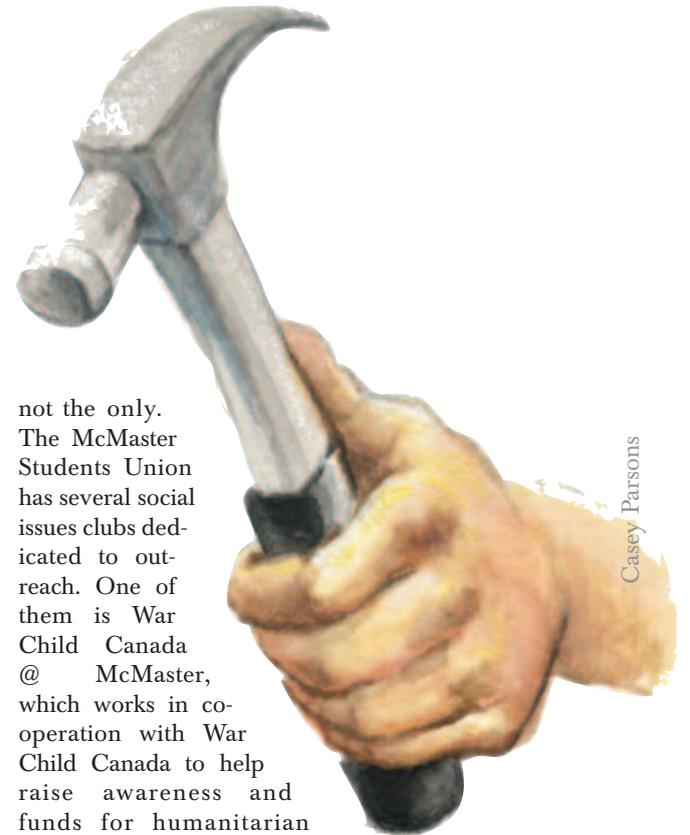
not the only. The McMaster Students Union has several social issues clubs dedicated to outreach. One of them is War Child Canada @ McMaster, which works in cooperation with War Child Canada to help raise awareness and funds for humanitarian projects for young victims of war.

“We got involved with War Child Canada because we wanted to help others expand their knowledge of what actually happens outside of the University bubble, so as to speak, and to encourage others to take an active role in lending a hand or in our case, a voice,” says Lily DeMiglio, a fourth-year psychology student, who with students Jacqui Lukas, Freda Omaswa, and alumna Linney Lau started the club in 2002. “We feel that it is important for students to get involved in outreach initiatives because it enables one to gain a more holistic

LAST YEAR, OUTREACH RANGED FROM RUNNING A HAUNTED HOUSE AT HALLOWEEN FOR THE GIRLS AND BOYS CLUB, HELPING RAISE MONEY FOR THE TERRY FOX RUN AND CLEANING UP COOTES PARADISE.



Casey Parsons



Casey Parsons

Student outreach – **McMaster's** **growing** trend

impression of what is happening in the world around them and to make a contribution in whichever way they can.”

McMaster alumna Eva Godelis, who graduated in 2001 with honours anthropology and English, is proof student outreach works.

Godelis, who was a tutor with McMaster Students for Literacy for three years while a student here, is now a regional co-ordinator for McMaster's Student Literacy for Frontier College, a Canada-wide volunteer-based literacy service. Immediately following graduation, she was hired by Frontier College to co-ordinate the Students for Literacy program at McMaster and Brock universities. She recruits volunteers and does community networking with other partners.

Godelis doesn't deny her volunteer experience helped her get a job. Neither does Phil Wood. He believes volunteerism helps prepare students for real life experiences after graduation. It also looks good on a resume, he says. “It demonstrates drive and leadership to potential

employers to take on non-paid opportunities to build experience profile. It also builds character and makes for a well rounded individual.”

Faculties also encourage volunteerism. Engineers Without Borders (EWB), for example, conducts outreach locally and internationally. On an international scope, students travel overseas to conduct research on how to deliver cleaner water, provide internet access and safer living standards, says Yvonne Ng, third-year chemical engineering and biosciences student and an executive member of EWB.

“Every year our club sends a student to implement a research project in another country. I believe that EWB enables communities to see that university students can make a positive change in the world by just applying knowledge gained through school and also knowledge gained by just working together with other students across the world. I think that students should get involved in clubs such as EWB since many students do not see what their knowledge from school can do besides getting jobs and opportunities such as that.”

Locally, EWB visits high schools to show students how to get involved in outreach and make a positive change.

McMaster's Career Planning and Employment Centre helps students find a role as a volunteer.

Currently, CPEC boasts 400 volunteers.

Some are notetakers for students with disabilities; some help improve academic skills; while others are involved in English as a Second Language support programs and career planning education.

“CPEC encourages all students to add volunteer experience to their resume,” says Wood. “The skills and experience gained can be just as valuable as paid work experience. Volunteering exposes you to career opportunities to help you make career decisions and it helps you build your networks which will eventually lead to securing jobs.”

Like many student volunteers, Cox admits that balancing school and outreach can be taxing.

“A lot of times when you walk up to a student, they're not just a student. They're a student, an athlete, a part-time



Casey Parsons



Casey Parsons

"WHEN YOU'RE GOING OUT AND DOING SOMETHING FOR THE COMMUNITY IT'S A FEEL GOOD ASPECT. YOU KNOW YOU'RE MAKING A REAL DIFFERENCE."

- KATRINA COX

worker and a volunteer.”

But even with the demands they face, those who volunteer do so because they feel compelled. The athletes involved with the Athletics Council Student Outreach Program, for example, are not required to participate. But nearly all do, says Cox. “The consensus has been that this is a great program. You can't deny it. When you're going out and doing something for the community it's a feel good aspect. You know you're making a real difference.”

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The student experience is focus for new registrar



Louis (Lou) R. Ariano

McMaster's new registrar is looking forward to working with students from the time they are considering which university to attend right through to Convocation ceremonies.

Louis (Lou) R. Ariano has been named McMaster registrar. Senate and the executive committee of the Board of Governors approved his appointment earlier in January.

He took up his new post on Feb. 1.

Ariano said he was attracted by the broad scope of the role of the registrar at McMaster, including student recruitment and liaison,

admissions, registration and records and Convocation.

"I look forward to the opportunity to work with students from the recruitment stage through to Convocation," said Ariano. "I've always thought of McMaster as an institution that is held in high esteem, not only in Ontario, but across the university system in Canada and I'm looking forward to being part of this continued success."

Ken Norrie, provost and vice-president academic, said Ariano's background and expertise will be vital to ensuring the strategic goals outlined in the Refining Directions process will be achieved.

"I'm excited that Lou, with his extensive knowledge and experience in the role of registrar at several institutions, is coming to McMaster," said Norrie. "He will be a key team member in implementing strategies that will help us strengthen our place as a destination of choice for high-quality students. He will also be working closely with the faculties in the work of enrolment management. We are committed to providing students with an innovative and stimulating environment where they can prepare themselves to excel."

Ariano has more than 20 years of experience and expertise working within university structures and governance. For the last three years, he has been university registrar at York University in Toronto. Prior to that he was assistant dean, student services at Osgoode Hall Law School and registrar at Brock University and the first registrar at the Saskatchewan Indian Federated College at the University of Regina.

Ariano has a bachelor of arts degree from Gonzaga University in Spokane, Wash. and a master of arts degree from the University of Regina.

The registrar's position became available last September when former registrar George Granger became executive director of the Ontario Universities' Application Centre (OUAC) in Guelph.

— SHELLY EASTON

Pilot testing of new job evaluation tool to begin

The Joint Job Evaluation Steering Committee (JJESC), established by McMaster University and the McMaster University Staff Association (MUSA), has been working on the development of a new job evaluation tool for positions in the MUSA bargaining unit. The implementation of the new system is scheduled for June 16, 2005.

Development of the tool has progressed to the pilot test phase. The JJESC has selected about 40 jobs from within the bargaining unit that will be evaluated in this pilot test. Jobs were selected to ensure the pilot includes a representative sample of the types of jobs found in the bargaining unit.

Results of the pilot test and feedback from participants will provide the JJESC with the opportunity to refine the process and finalize the tool. Following the pilot all MUSA jobs will be evaluated using the new tool.

— JOINT JOB EVALUATION STEERING COMMITTEE

Singh Twins art on display

The award-winning paintings of Amrit and Rabindra Kaur Singh have been described by art critics as "some of the most optimistic images of our multicultural world."

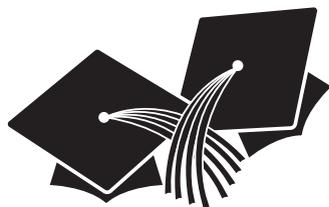
The London born artists and twin sisters are known for their controversial and often satirical paintings which combine elements of ancient miniature paintings of India with European techniques and contemporary subjects. The McMaster Museum of Art is the only Canadian host of Past Modern, a touring exhibition of 62 paintings by the Singh Twins.

The artists have participated in more than 20 solo shows throughout the world and are the focus of nearly 100 feature articles.

Admission to the museum and this special presentation is pay-what-you-can with a suggested donation of \$2. Students, seniors and members are free. Museum Hours: Tuesday - Friday 11-5; Sunday 12-5. Phone: 905-525-9140 ext. 23081. Fax: 905-527-4548. E-mail: museum@mcmaster.ca or visit www.mcmaster.ca/museum

— ROSEANNE PREVEC

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The weightiest health problem

Recognizing obesity as a major public health concern

BY DANELLE D'ALVISE

Canadians would never think of putting a lit cigarette into a young child's mouth, but don't seem to have a problem popping french fries into their children.

Dr. Arya Sharma has a problem with that.

Sharma, a professor of medicine and Canada Research Chair in Cardiovascular Obesity Research and Management, would like to see some major societal changes that would begin with regarding those french fries – and other high fat, poor nutritional food choices – as a potential health risk.

While smoking is a leading cause of death in North America, obesity runs a close second and the number of Canadians dying from excess weight and obesity-related causes such as heart disease and diabetes is increasing at an alarming rate.

Sharma believes one of the first steps to preventing excess weight gain in our society is to ensure that children make healthy lifestyle choices that will continue into adulthood.

“Fun fitness, walking to school rather than going by bus or car, no soda pop, no birthday parties at fast food restaurants – start gradually,” he says. “Then we should clamp down and limit advertising of fast food, ban video game commercials aimed at children that promote sedentary behaviour – we need to impose legislation in much the same way the government has determined there should be bans on smoking.”

Sharma acknowledges that it might take years for society to recognize that obesity is a major public health concern, not a cosmetic problem or one that is solved by simply telling the obese patient to lose weight.

“We don't tell hypertensive patients to calm down or people with depression to cheer up,” he says, using one of his standard examples to underline how obesity is not treated like an illness, or seen as a medical condition that requires medical intervention.

Statistics indicate that almost half of the Canadian population is overweight and one-third of Canadians are obese.

One of the current definitions of obesity is based on the Body Mass Index (BMI), a calculation of height and weight – dividing weight in kilograms by the square of an individual's height in metres.

Sharma notes that the BMI is just one measure and cites evidence that supports a waist circumference measure as another important



Dr. Arya Sharma

Chantall Van Raay

indicator of obesity-associated risk such as heart disease, diabetes and some cancers.

“We do know that men who have a waist circumference greater than 94 centimetres (37 inches) and women greater than 80 centimetres (32 inches) are at risk of obesity-associated complications. This risk is substantially increased in men with waist circumferences greater than 102 centimetres (40 inches) and in women, greater than 88 centimetres (35 inches).”

So why all the bulging bellies? How did our “love handles” become health risks that, according to recent research, translate into 57,000 deaths in Canada over the last 15 years?

“If you look at some of the technologies over the last 30 years you'll see there are many efficiency-saving devices that have actually contributed to a decrease in our daily activity level. It's estimated that we're expending 400 fewer calories a day but taking in 300 calories more. Even though we've reduced fat intake over the last thirty years we've increased our intake of simple carbohydrates like corn syrup, white bread, white grain pasta – we're increasing the wrong kind of carbohydrates,” says Sharma.

To maintain weight, Sharma would like to

see people expending 400 calories a day on exercise and consuming somewhere around 1400 calories. He admits that this isn't an easy task in today's world – it is very easy to gain weight and difficult to lose, one of the reasons obesity has reached epidemic proportions in Canada.

While prevention of obesity is all-important, one of Sharma's pet peeves is that so much is aimed at prevention while very little is done for the treatment. His research focuses on how to deal with obese and morbidly obese (those more than 100 pounds overweight) patients by trying to determine the underlying mechanism of obesity and ensure that the complications of obesity are adequately addressed.

Currently, treatments for the morbidly obese – whose number Sharma estimates as one million Canadians – includes bariatric surgery (stomach stapling) and very specialized diets.

“There is a 95 per cent failure rate for dieters over a five year period. After five years, they're either back to their original weight, weigh more than their original weight, or weigh what they would like have ended up weighing anyway.”

Sharma is committed to developing treatment options for obesity and in five to ten years expects there will

be a medication available for obese individuals. He would also like to see programs in place in Ontario with significant funding to academics to deal with the management and treatment of obesity.

Dr. Arya Sharma is the next speaker in the Science in the City lecture series.

His lecture, *Muscling in on Obesity: or How Fatty Muscles can Increase your Risk for Diabetes and Heart Disease*, will take place on Tuesday February 10 in the Hamilton Spectator Auditorium.

Doors open at 6:30 pm and the lecture begins at 7pm.

The lecture is free and all are welcome. To reserve your seat call extension 24934 or e-mail sciencecity@mcmaster.ca.

McMaster and NSERC celebrate 25 years of research excellence

BY LORI DILLON

You name it, there's a good chance someone from McMaster has researched it. From superconductivity to traffic flow management to mate choices of quail, McMaster's researchers have spent their NSERC dollars uncovering scientific mysteries and investigating a variety of topics and theories since the federal agency took over funding the country's science and engineering research programs 25 years ago.

Twenty-five years, more than 600 teams of researchers and more than \$400 million of research support – that, in a nutshell, sums up the Natural Sciences and Engineering Research Council's investment in McMaster's research enterprise.

Last month McMaster and NSERC threw a 25th anniversary party to celebrate the achievements of the 71 McMaster researchers who have held NSERC grants for 25 consecutive years.

Mamdouh Shoukri, vice-president of research & international affairs, told those attending the celebration that their contribution to advancing research over the last quarter century is enormous and cannot be summed up the numbers alone. "This is indeed, one of those cases, where the whole is greater than the sum of its parts. These parts – your contributions – are significant, not only to McMaster, but for the Canadian research landscape. Many of you, through your early research projects, inspired new theories, new ways of thinking and new possibilities for subsequent generations of researchers."

McMaster president Peter George echoed Shoukri's comments adding that McMaster has earned its reputation as one of the country's most innovative universities largely on the strength of its research community. "McMaster's research enterprise – indeed Canada's research enterprise – has changed significantly over the last 25 years. It has

evolved tremendously and NSERC has played an integral role in that change and has helped McMaster to maintain its reputation as one of Canada's finest research universities."

Henry Schwarcz, professor emeritus in the school of geography and geology, recalled the early days of applying for NSERC grants compared to modern day applications. "All in all, collectively we seem to have done very well with our allotments of federal largesse. Today, thanks to NSERC, we're obviously a highly respectable crowd in the international world of research," he said, adding that many of his colleagues in the US, funded by the National Science Foundation, envy the NSERC system of funding.

When asked what 25 years of NSERC funding meant to him, Schwarcz said it allowed him to come to know and collaborate with some marvelous graduate students and post-doctoral fellows, who have become stellar scientists and administrators and who could not have done the work they did, or gone on to their astonishing careers without NSERC support.



(L to R), Charles Dunnett, George Wesolowsky, Alexander Rosa

McMaster's 25 year NSERC recipients

Biochemistry Richard Epan	Electrical/Computer Engineering John Bandler Ray Findlay Simon Haykin Barna Szabados Max Wong	Management Science and Information Systems Norm Archer George Wesolowsky	Mechanical Engineering Mohammed Dokanish Ross Judd David Weaver	Psychology Lorraine Allan Lee Brooks Bennett Galef Betty Ann Levy Daphne Maurer Ron Raccine Larry Roberts Shepard Siegel
Biology John Lott Rama Singh Christopher Wood	Engineering Physics John Simmons David Thompson	Materials Science and Engineering David Embury Brian Ives Jack Kirkaldy Wei-Kao Lu Patrick Nicholson Gary Purdy George Weatherly	Medical Physics and Applied Radiation Sciences William Prestwich	
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Chemistry Richard Bader Ron Childs Peter Dawson John Greedan Brian McCarry Ian Spenser John Warkentin Nick Werstiuk				