

UNIVERSITY OF WINNIPEG

FACULTY OF SCIENCE

the current

Welcome back for a new academic year! There is a strong sense of excitement in the Faculty of Science at the beginning of this year. For me, this time of year has always been one of the best things about being a part of academia. I still feel the same anticipation about a new school year as I did when I first went away to attend university over 20 years ago.

For those new to the University of Winnipeg, please accept my sincere welcome! Let me extend a special welcome to our new faculty members spread across the Faculty of Science. This is an exciting time for science at UWinnipeg. Perhaps the biggest news from the faculty is the construction of the Science Complex and Richardson College for the Environment. Construction of this large and visually impressive building kicked off in June of last year and has progressed

at a notable pace.

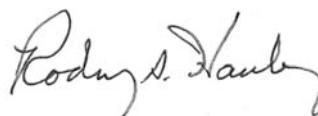
Today, the exterior is almost completed, and the interior is being finished at a fast rate. If weather continues to be favorable, the building is set for completion in the Spring of 2011. We are in the middle of tremendous growth in the faculty, and I believe this building symbolically represents this growth and the increasing reputation of science at UWinnipeg.

As you look around UWinnipeg, you will see an astonishing diversity of science programs led by some of the best faculty of any university in Canada. Over the past year, we introduced many new science programs, including ones in Geographic Information Systems (GIS); Science and Business; Medical Physics; Radiation Health and Safety; Radiation Therapy; Housing; and Science, Environment, and Indigenous Knowledge.

We are actively working on new programs spread across all of UWinnipeg Science. I believe these programs offer outstanding opportunities for students to get involved in science in new and innovative ways.

The commitment of UWinnipeg Science to the community is especially strong. The science faculty continue to be incredibly active with a wide variety of community outreach activities. These include a diverse set of areas such as day camps for children, programs at First Nations schools, workshops and lab demonstrations for children, the *Let's Talk Science* Program, and the *High School Enrichment Program*, which reaches hundreds of students each year as they take courses by professors within a university context. All of these activities play a significant role in the President's recent Community Learning initiative. In April 2010, the Faculties of Arts and Science co-hosted the University's first Community Learning Symposium, which brought together faculty members and members of the community to explore the ways in which the University can participate in the surrounding community. We hope to make this an annual event.

While we have accomplished much, we still have a busy agenda for science in the next year. I hope you share in my excitement and enthusiasm for the new school year and for science at the University of Winnipeg.



Dr. Rod Hanley, Dean of Science

Fall 2010

In This Issue:

- Page 1: Message from the Dean
- Page 2: Dr. Randy Kobes - In Memory
- Page 2: Leo Mol Scholarship
- Page 2-3: Summer Fieldwork and Travel: Mirjana Rokсандic
- Page 4: Science Complex Update
- Page 4: Faculty Award Winners
- Page 5: Environmental Studies Scholarships



University of Winnipeg
Dean of Science, Rod Hanley



THE UNIVERSITY OF WINNIPEG



Discovery
Outreach
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New Science Scholarship: THE LEO MOL SCHOLARSHIP

In 2008, Mrs. Margerite Mol wanted to honour the legacy that her husband, renowned artist Dr. Leo Mol, had created for the city of Winnipeg. With a \$100,000 gift to The University of Winnipeg Foundation, Margerite established the Leo Mol Scholarship. Dr. Mol, who passed away in July 2009 at 94, was a talented sculptor and friend of the University, and received an honorary doctorate from the University of Winnipeg in 1974. Because Margerite is concerned about the future of the planet and the need to treat it as a cooperative system, the scholarship is given to an outstanding student in any year of the Environmental Studies program. The first award is being given in Fall 2010.

Students who have declared an Environmental Studies major are automatically considered for the Leo Mol Scholarship. For more information about this scholarship, please contact the Student Awards office. To make a donation in support of the Leo Mol Scholarship, please contact Tanya Misseggers, University of Winnipeg Foundation Donor Stewardship Officer, at 204.789.1440 or at ta.misseggers@uwinnipeg.ca.

IN MEMORY: DR. RANDY KOBES, ASSOCIATE DEAN OF SCIENCE

Dr. Randy Kobes, Associate Dean of Science, passed away on September 18, 2010. Randy taught physics at The University of Winnipeg for 23 years. He moved into the Office of the Dean of Science in 2007, where he had been serving as the Associate Dean of Science until his passing. Randy was a participant and a driving force of many University and community programs, such as *Let's Talk Science*, *Eco-Kids*, *CSI (Community School Investigators)*, and the *Wii Chiiwaakanak Learning Centre*. In June 2005 Randy was awarded the Marsha Hanen Award for Excellence in Creating Community Awareness. In October 1999 he won the Erica and Arnold Rogers Award for Excellence in Research and Scholarship. Randy was an excellent academic, physicist and educator of young people. He was fully dedicated to public engagement in science. His contributions to community learning at The University of Winnipeg went far beyond the classroom. We will miss him!

A scholarship is being established in Randy's memory. For more information or to donate, please contact Tanya Misseggers, Donor Stewardship Officer at The University of Winnipeg Foundation, at ta.misseggers@uwinnipeg.ca or 204.789.1409.



Field School of Paleoanthropology and Paleolithic Archaeology in the Sicevo Gorge: Summer 2010

by Dr. Mirjana Roksandic (UWinnipeg Department of Anthropology)

First season of the Field School of Paleoanthropology and Paleolithic archaeology in the Sicevo Gorge (Serbia) ended by all accounts very successfully on the 15th of August. The undergraduate students from Canada (Manitoba, Ontario, Saskatchewan) and the USA (Florida, Washington) and three graduate students (California, Oregon, New Hampshire) spent a month digging with graduate students from the University of Belgrade in the Sicevo and Jelasnica gorges in the vicinity of Nish. The team was joined by Dr. Jack Rink from McMaster University, who spent a week in the caves taking samples for ESR and Uranium series dating, Dr. Mike Morley from Oxford Brookes University, who worked on microsedimentology and climate reconstruction, and two graduate students from Max Planck Institute who specialise in Paleolithic archaeology. Each of the specialists gave a lecture on results of their research. Three lectures were given by graduate students and one by our own undergraduate Josh Lindl.

Our goal for this year was to establish connections between different excavated areas of the cave to understand more fully the site formation processes and influences they could have on the distribution of faunal material artefacts and hominin remains already found in the field. Special priority was given to absolute dating and understanding the temporal nature of the occupation of the two caves.

With such a large team it was necessary to work in more than one area and in addition to excavation of the Velika and Mala Balanica, we prospected the adjoining canyon for other Paleolithic caves. In this manner we have identified a very interesting Pesturina cave which was rich in Upper and Middle Paleolithic artefacts, remains of fire, numerous animal bones and coprolites of yet unidentified animals. Among other remains were the humerus of a rhinoceros that could be very important for understanding the landscape in which the cave was inhabited by humans.

Outside the dig, students experienced and learned about local culture and compared their experiences with their peers from Serbia, visited Belgrade and Nis, a Roman imperial palace near the city of Zajecar, and probably the most memorable, Vratna, a carstic landscape in the vicinity of Negotin.

As the directors of the project, professor Dusan Mihailovic and I were very happy with the amount and quality of work done this year. Perhaps the most telling is the fact that all of the students expressed their wish to join us as volunteers next year, and both of us would be more than happy to see them again.



The whole team in front of the small path that leads to the Velika and Mala Balanica caves



Left: The number of coprolites discovered prompted students to make this photo which reads "KOPROLIT" (Coprolite in Serbian).

Right: The canyon of Vratna



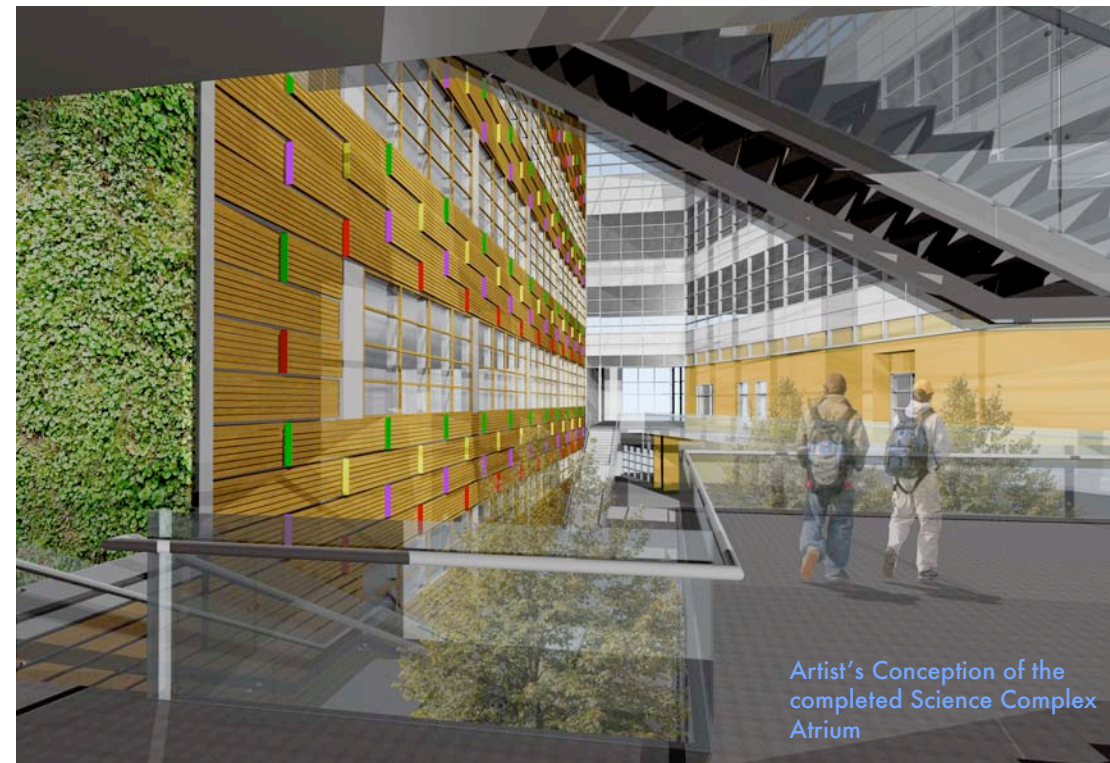
Left: Excavations at Mala Balanica: Prof. Roksandic consolidating a fragile bear rib

SCIENCE COMPLEX AND RICHARDSON COLLEGE FOR THE ENVIRONMENT: CONSTRUCTION UPDATE

On 13 July 2010, several members of the Faculty of Science were taken on a tour of the Science Complex under construction. Eager faculty members were able to see where they would be working and teaching, starting in 2011.

Faculty members were able to visit the sites of their future offices, labs, and classrooms on every floor, as well as the roof and the impressive atrium. Though not every wall was painted or window installed, it was easy to imagine the exciting final product.

To see some photos of the tour, visit <http://www.uwinnipeg.ca/index/faculty-of-science>



Artist's Conception of the completed Science Complex Atrium

AWARD-WINNING UNIVERSITY OF WINNIPEG SCIENCE FACULTY MEMBERS

Two Science faculty members received noteworthy awards during the Spring 2010 Convocation. Dr. Jeff Martin (right) of the department of Physics was awarded the The Erica and Arnold Rogers Award for Excellence in Research. Dr. Donna Young (bottom right) of the department of Biology received the Clifford J. Robson Memorial Award for Excellence in Teaching.

Martin is a talented researcher whose expertise lies in the field of experimental nuclear physics. His work in creating the world's highest-density source of ultracold neutrons earned him a \$4.225-million grant from the Canada Foundation for Innovation's New Initiatives Fund, the largest research grant ever awarded to a Manitoba academic. Martin is also part of the Prairie Isotope Production Enterprise (PIPE), which is a not-for-profit corporation based in Manitoba with the goal to develop a reliable supply of the medical isotope Technetium-99m (Tc-99m) for Canadian patients.

Young is a professor that is well-liked and well-respected by both her colleagues and students alike. During her years teaching at the University, Young created and taught classes that were consistently filled to capacity with eager and appreciative students, all the while sharing her own research with students and enabling them to do research of their own. She retired at the end of the 2009-2010 academic year after 31 years teaching at The University of Winnipeg. Young's award was made particularly sweet by the fact that two of her daughters were named Valedictorian at two of this year's Spring convocations—one for Arts and one for Science.

Congratulations to Dr. Jeff Martin and Dr. Donna Young!



Dr. Jeff Martin



Dr. Donna Young

Fall 2010

upcoming
events

October

11

Thanksgiving Day:
University Closed

29

FINAL DATE to withdraw without
academic penalty from Fall Term
courses ending in December
2010

November

11

Remembrance Day:
University Closed

30

Lectures end for the 2010 Fall
Term except for courses which
have classes in lieu of
Thanksgiving and Remembrance
Day

December

1-2

Classes held on these days are
in place of classes on Monday,
October 11, 2010, and
Thursday, November 11, 2010
and will be scheduled in
accordance with a Monday and
Thursday schedule respectively.

7-20

Fall Term exam period

23

University closes until 4 January
2011

Scholarships for Environmental Studies students

Alice Chambers Forest Enhancement Scholarship

This scholarship is presented by Manitoba Hydro in honour of Alice Chambers, in recognition of her life-long commitment to environmental stewardship and education, and for her valued counsel on the Advisory Committee for the Manitoba Hydro Forest Enhancement Program. It will be awarded annually to a student who has completed second year, and is continuing in the Forest Ecology stream of the 4-year B.Sc. Environmental Studies major.

Environmental Studies Scholarship

Established from the estate of Minty Springman, this scholarship will be awarded to the student in the 4-year Environmental Studies major who has the highest standing entering the 4th year.

Johnson Waste Management Ltd. Scholarship in Environmental Studies

The Johnson Waste Management Ltd. has established this scholarship to encourage people to make a difference in their community and the world at large. It will be awarded to an outstanding student or students majoring in Environmental Studies.

Leo Mol Scholarship

Created in honour of Leo Mol, this scholarship will be awarded to the outstanding student in any year of the Environmental Studies program. It may not be held in conjunction with the Environmental Studies Scholarship.

For more information about these and other scholarships for students of the Faculty of Science, visit the Student Awards and Financial Aid office in Graham Hall.



Contact us!

Office: 0B02
(basement of
Bryce Hall)

Hours: 8.30-4.30
Phone: 258-2919