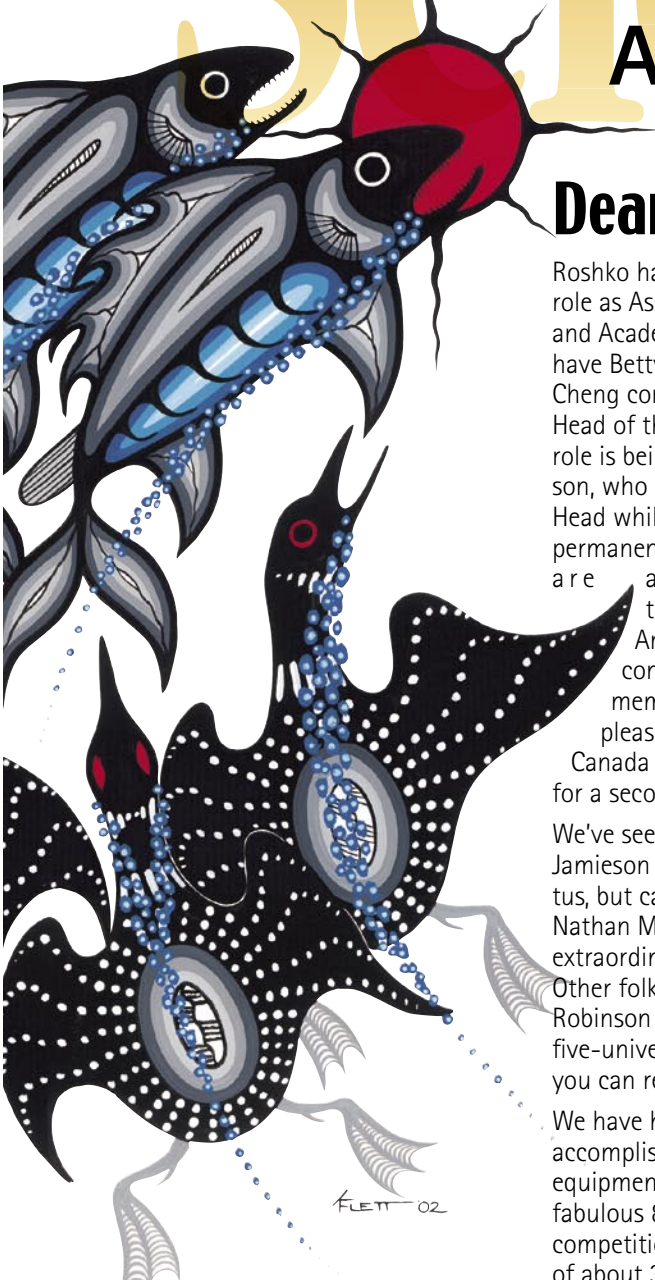


Science

Alumni Newsletter

April 2006



Dean's Message

Roshko has taken up Dr. Arthur Gerhard's role as Associate Dean (Administration and Academic Planning). It's great to have Betty and Roy on board. Dr. Smiley Cheng completed 10 years of service as Head of the Department of Statistics. His role is being filled by Dr. Brian Macpherson, who has agreed to serve as Acting Head while we carry out a search for a permanent replacement for Smiley. We are all very grateful for the long and tremendous service of Gordon, Arthur and Smiley. We also welcomed seven new academic staff members this year, and are very pleased that Dr. Hélène Perreault's Canada Research Chair was renewed for a second term.

We've seen some retirements as well. Jim Jamieson has been named Dean Emeritus, but can be found daily in his lab. Nathan Mendelsohn has retired after an extraordinary career of almost 60 years. Other folks have shifted gears. Gordon Robinson is now leading a multi-Faculty, five-university "CRYSTAL" project, which you can read about in this newsletter.

We have had some great individual accomplishments. This year, our NSERC equipment grant applications achieved a fabulous 85% success rate, in a national competition with an average success rate of about 38%. Our faculty members have won three of the last four University 1 Teaching Excellence Awards. Over 95% of our new faculty members either hold NSERC operating grants, or are applying for the first time.

One of my duties is to review each year's tenure applications. By the time a faculty member is being considered for tenure, he or she has been through a rigorous, multi-year process of education, selection, on-the-job training, and evaluation by a host of internal and external bodies. This year's applicants are all fabulous:



Mark Whitmore

our students' futures are in good hands.

Perhaps our single most exciting event this year was the opening of the new EITC. In addition, much has been

done to renew labs in the Buller building, and major renovations to Buller are planned for the next three years. Armes lecture halls have now been upgraded, we're renovating other research and teaching space, and we're hard at work defining our other infrastructure needs and opportunities.

Our successes are largely dependent on the support of our students, staff and alumni. Our students pay annual fees, some of which go into the Faculty of Science Endowment Fund, and some directly to our annual equipment purchases. This year, under the leadership of our Science Student Association president Ms. Reena Bansal, our students voted to double their contributions. Our generous alumni and staff contribute both to the Faculty of Science Endowment Fund, and to scholarship and bursary funds controlled by our departments. Last year, all these contributions totaled in excess of \$396,000. We are exceedingly grateful to all our donors.

Meeting you, our alumni, is one of the highlights of my job. This past year, I met some of you in places as diverse as Whitehorse and Montreal. In the coming year, I'll be attending Alumni Association events in Calgary, Edmonton, Vancouver and Victoria, and will try to track down more of you during my other travels. I hope you will take these opportunities to say hello and get caught up on news.

Another year of success and hard work!

On the student front, our undergraduate enrollments are up again, and our graduate enrollments are stable. The increase is made possible by the dedicated efforts of all our staff who do so much and work so hard.

We have had a number of staffing changes. Dr. Elizabeth Worobec has taken over from Dr. Gordon Robinson as Associate Dean (Student Affairs), and Dr. Roy



Honours and Awards

The following is a list of some of the many honours and awards received by faculty and staff members in Science in 2005:

Bruce Ford, Botany, was invited to organize and gave a keynote paper at an international symposium entitled: "Evolution in the genus *Carex* and tribe Cariceae: new ideas from new phylogenies" held at the XVII International Botanical Congress in Vienna, Austria, 17-23 July 2005.

Gordon Robison, Botany, has had his term on the NSERC Promo-Science/Michael Smith Awards Selection Panel, extended for one year, ending June 30, 2006.

Peter Budzelaar, Chemistry, was awarded a CFI New Opportunities award for his project "Laboratory for mechanistic studies of organometallic reactions".

Dr. Budzelaar was also an invited speaker at an ACS symposium at the national meeting in Washington.

Phil Hultin, Chemistry, was recognized by the University Teaching Services and University of Manitoba Students' Union Certificate of Teaching Excellence by being awarded the Students' Teacher Recognition Award.

Scott Kroeker, Chemistry, was the recipient of the Rh Award for Outstanding Contributions to Scholarship and Research in the Natural Sciences category.

Hélène Perreault, Chemistry, received a renewal of her Tier II Canada Research Chair appointment in Bio-analytical Mass Spectrometry.

Neil Arnason, Peter King and Ralph Stanton, Computer Science, were honoured as "Pioneers of Computing" in Canada for being "directly responsible for developing and nurturing computer science research and education programs at Canadian universities".

Rasit Eskicioglu, Computer Science, received a Performance Award from TRILabs and was elevated to the grade of Senior Member of the IEEE.

Peter Graham, Computer Science, was selected as a 2005 IMB Eclipse Innovation Award winner in recognition of his achievements for his project "An Eclipse Plug In for MPI based Parallel Computing Tools".

William Korytowski, Mathematics, received the University I Teaching Excellence Award.

George Gratzer, Mathematics, was conferred with an honorary Doctor of Science Degree by LaTrobe University in Melbourne, Australia. He also had a book published entitled "The Congruences of a Finite Lattice, A Proof-by-Picture Approach".

Richard Sparling, Microbiology, was mentioned as a co-investigator in a Free Press article detailing an NSERC strategic grant on the production of Hydrogen from cellulosic biomass. He also gave an interview on the French CBC Manitoba radio program.

Elizabeth Worobec, Microbiology, was appointed as member of the NSERC Collaborative Health Research Projects (CHRP) Selection Committee Panel for a one-year period ending June 30, 2006.

Vladimir Yurkov, Microbiology, has been invited to give a plenary lecture for the 12th International Symposium on Photosynthetic Prokaryotes in Pau, France. He was also invited to be a consultant for the television program "Kitchen Crimes."

Ian Cameron, Physics & Astronomy, was awarded a 2005 Outreach Award in recognition of his outreach activities in Astronomy, in particular the activities associated with the Ewen Remote Observing Site at Glenlea. In addition, he was the recipient of an NSERC PromoScience award for the Ewen Telescope based at the Glenlea Observatory.

Robin Connor, Physics & Astronomy, received the Research Book of the Year 2005 award from the Saltire Society of Scotland and the National Library of Scotland for his book "The Weights and Measures in Scotland".

Gerald Gwinner, Physics & Astronomy, was the recipient of the Rh Award for Outstanding Contributions to Scholarship and Research in the Natural Sciences category.

Smiley Cheng, Statistics, was named a Fellow of the American Statistical Association for "outstanding contributions to teaching; for excellence in outreach activities providing statistical and quality improvement training to industry; for editorial services and service to the profession and for research in statistical quality improvement". The designation of Fellow has been a superlative honour in the society for over nine

decades and has signified an individual's outstanding professional contribution to and leadership in the field of statistics.

Saumendranath Mandal, Statistics, was the recipient of a University of Manitoba Merit Award and the recipient of the Science Students' Association first Teaching Award.

In 2005 Dr. Mandal also received the P.Stat. (Professional Statistician) designation from the Statistical Society of Canada.

Kevin Campbell, Zoology, was awarded a 2005 JSPS Invitational Fellowship for Research in Japan by the Japan Society for the Promotion of Science (JSPS).

Erwin Huebner, Zoology, chaired the "Triatomine Genomics and Biology Conference" held in Rio de Janeiro.

Steven Whyard, Zoology, received a CFI New Opportunities Award for his project entitled "Establishment of a Molecular Biology Laboratory for Research into Insect Reproduction and Development".

Merit Awards were announced in 2005 for 2004 recipients. Merit award recipients were **Michael Freund**, Chemistry; **Ralph Stanton**, Computer Science; and **Jim Hare**, Zoology.

New Faculty Members

The following Faculty members joined the University in 2005:

Chemistry

Peter Budzelaar, Assistant Professor

Mathematics

Stephanie Portet, Assistant Professor

Julien Arino, Assistant Professor

Microbiology

Brian Mark, Assistant Professor

Physics & Astronomy

Jason Fiege, Assistant Professor

Can-Ming Hu, Assistant Professor

Statistics

Brad Johnson, Assistant Professor

Faculty Retirements

The following Faculty members retired from the University in 2005:

David Punter, Botany; **Jim Jamieson**, Chemistry; **George Tabisz**, Physics & Astronomy; **Nathan Mendelsohn**, **Tom Holens**, Mathematics

United Way Awards



Melynda Chestley, Dean's Office, and Dean Whitmore (R), are presented with The Quantum Leap Award from Dennis Hrycaiko (L).

The Faculty of Science received two Quantum Leap awards in 2005, one to the general Faculty of Science as a whole and one to the Department of Microbiology. Quantum Leap awards are presented to organizations for increasing workplace donors or donations by 25% or more and increasing workplace donations by \$1,000 or more. The Awards were presented by Dr. Dennis Hrycaiko, Co-chair of the United Way Campaign, at the September meeting of the Faculty of Science Council.



Betty Worobec

Associate Dean (Student Affairs)

Betty Worobec, Department of Microbiology, has been appointed Associate Dean (Student Affairs). Prior to this appointment Betty was Assistant Head of Microbiology. Betty joined the University of Manitoba in 1988 and has an active research program studying various bacterial transport mechanisms, with a recent focus on antibiotic resistance mechanisms used by pathogenic bacteria. Her research has been supported by NSERC, MRC, and MHRC.

Betty has taught many undergraduate and graduate Microbiology and Biochemistry courses, plus has supervised M.Sc. and Ph.D. students. Betty is well known at the University, having served on countless committees such as Faculty Tenure and Promotion, Student Discipline, Faculty Executive, UMFA Board of Representatives and UMFA Executive, NSERC Studentship Awards, Senate Committee on Admissions, as well as numerous search committees, just to name a few. Many will recognize her from her 10 year role as the Chief Marshall of the University of Manitoba's Convocation ceremonies. Betty is completing her second term as Secretary-Treasurer of the Canadian Society of Microbiologists. She is presently a member of the NSERC/CIHR Collaborative Health Research Panel and in the past has served on the NATO Post-Doctoral Fellowship and the NSERC Visiting Post-Doctoral Fellow Selection Panels.



Gordon Robison

CRYSTAL Project

Gordon Robison, Department of Botany, received a CRYSTAL award of \$1 million over five years from the Natural Sciences and Engineering Research Council of Canada (NSERC) for the project "Understanding the Dynamics of Risk and Protective Factors in Promoting Success in Science and Mathematics". The project has also received funding from non NSERC sources, in particular, the support of The Maurice Price Foundation (who are providing \$75,000) and Manitoba Hydro (who have donated \$25,000). Other donors include the Office of the VP (Research), the Faculties of Science and Education, the Universities of Regina and Saskatchewan, and Brandon University.

The project will address teacher training, curriculum development, and other factors affecting student success in science and math in a wide range of school settings, from kindergarten to grade 12. Dr. Robison will lead a team of 26 researchers from the University of Manitoba, the College universitaire de Saint-Boniface, University of Winnipeg, Brandon University, the University of Regina, the University of Saskatchewan and Lakehead University.

The group's research will be based on the idea that a student is affected by four specific systems: the student's own ability; interaction with the school, teachers, and classmates; interaction with the community at large; and interaction with the global environment. The ultimate goal is to identify the things in all four areas that can increase a student's success in science and mathematics.

The Peguis First Nation Science and Technology Symposium

On November 21/22 2005 approximately fifty University of Manitoba faculty, staff and graduate students, representing departments from 8 Faculties came together to run a large variety of workshops at the Victoria Inn, Winnipeg, for Senior 1-4 students from the Peguis Central School. Dr. Tom Berry of the Department of Mathematics served as the Symposium Science Program Coordinator. Workshop presenters representing the Faculty of Science were:

Ms Jennifer West, Mr. Ian Cameron, Mr. Mike Shaw, Ms. Debbie Armstrong, Ms. Christina Penner, Mr. Hudson Gevaert, Mr. Brian McKinnon, Mr. Paul Furgale, Dr. Pourang Irani, Dr. John Bate, Mr. Phil Mendelsohn, Dr. Rob Craigen, Dr. David Kelly, Dr. Peter Penner, Dr. Donald Trim, Dr. Joseph Williams, Ms. Jerrylynn Brucal, Ms. Sanela Begic, Dr. Kumar Sharma, Dr. George

Tabisz, Dr. Ken Mount, Ms. Amber Robinson, Mr. Kevin Hedges, Dr. Gail Davoren and Dr. Brenda Hann.

The purpose of the symposium was to encourage aboriginal students to consider science-based disciplines in their quest for post-secondary education and subsequent careers. This project was initiated at the request of the Peguis School Board,

“...provide the students with a much richer exposure to science and science-based disciplines.”

which provided the majority of funding, with some financial support being provided by the Faculties of Science, Engineering and Environment, as well as the Offices of the Vice-President (Academic) and University Accessibility. More than 200 students, and a number of teachers and parents from Peguis, attended this symposium. In addition to the workshops, the students

had the opportunity to view exhibits and discuss academic and career options with representatives of the University, as well as

many other educational and professional organizations. Before returning home the participants were treated to guided walking tours of the Fort Garry campus, lead by aboriginal U. of M. students.

Planning has begun for the second edition of this workshop. A major change in venue and time has been proposed, namely, to move the event onto campus during mid-term break in February 2007. With these changes it is hoped that more resource personnel will be available to provide an even wider range of activities, with access to more facilities and equipment, which should provide the students with a much richer exposure to science and science-based disciplines.

The organizers of this symposium, and in particular the members of the Peguis School Board, would like to take this opportunity to thank all workshop presenters and exhibitors for their extremely valuable contributions to this project. Without their help and dedication this symposium would not have been a success.



Engineering and Information Technology Complex

Computer Science Relocation

At the end of September, 2005, the Department of Computer Science moved into its new home in the Engineering and Information Technology Complex. The faculty and staff were, of course, devastated to leave their "beautiful" temporary home of the past 32 years, Machray Hall, but are bearing up remarkably well under the strain. The department now occupies the 400 and 500 levels of the newly constructed E2 building, which includes new classrooms, a spacious atrium

(the focal point of which is Tim Horton's), staff and graduate student lounges, 5 new undergraduate teaching labs, and faculty offices with windows that open! Of primary importance are the new research laboratories, which will provide enhanced opportunities for new projects and increased collaboration with industrial and academic partners, including those in the neighbouring Electrical and Computer Engineering department.

Alumni Activities

Dean Whitmore attended Alumni receptions in Ottawa and Montreal in April 2005 after attending a very successful event in Toronto in November 2004. He also hosted a dinner with Faculty of Science Alumni in Whitehorse while attending a meeting there.

Alumni events are currently being organized for Calgary on March 29; Edmonton, March 30; Vancouver, April 26 and Victoria, April 27. If you would like further information on any of these upcoming events, or you are interested in planning a class reunion, please contact Jana Thorsteinson, Coordinator, Special Events, at the Alumni Association, (204) 474-8932 or e-mail jana_thorsteinson@umanitoba.ca

Student Referendum 2005



Reena Bansal

As a science student, you may have often wondered how ancient some of those microscopes really are, or how all those accidentally broken test tubes managed to get replaced.

These and other essential pieces of equipment are purchased from the Faculty of Science Endowment Fund.

Every year, science students make a contribution to the Faculty of Science at the time of tuition payment of which 100% is directed back to the students through equipment and facility upgrades. The Faculty of Science offers highly reputable professors, however, it is equally important to gain practical training in addition to classroom preparation. In November 2005, science students voted in favour of making a larger contribution to the faculty, in the amount of \$150 annually. The Faculty of Science is one of the largest faculties on campus, however, it had one of the lowest endowment fees prior to

this referendum. The endowment fee is crucial in order to help maintain and improve facilities, including labs, and to keep training at a competitive level with other universities that offer comparable degrees.

The referendum, organized by the Science Students' Association (SSA), consisted of classroom presentations by a faculty member, an SSA member, and a Department of Development representative. I would like to take this opportunity to thank the faculty for their support in this important student initiative. Also, I am thankful for the 05/06 SSA, of which each and every member worked hard to help this vote pass. A special thanks to those members who took time out of their schedules and participated in the classroom presentations (Marisa Louridas, Bryn Sharkey, Akin Famuyide, Annie Ducas, Michael Roy). Most importantly, I would like to thank the students of the faculty for supporting this fundamental initiative and helping our faculty take one step forward.

Reena Bansal
(SSA President '06)

Associate Dean (Administration and Academic Planning)

Roy Roshko is a Professor in the Department of Physics and Astronomy, and was appointed Associate Dean (Administration and Academic Planning) in July 2005. Roy has been with the University of Manitoba since 1982. He is a condensed matter experimentalist, and conducts an active, NSERC funded, research program which focuses on the measurement and interpretation of nonequilibrium phenomena, like hysteresis and relaxation effects, in magnetic materials which exhibit collectively ordered magnetic states. Roy also has active research collaborations with members of the School of Physics and Astronomy and the Institute for Rock Magnetism, both at the University of Minnesota, and is currently a member of the advisory board of the Institute for Rock Magnetism. Roy has taught courses at all levels in the Department of Physics, from introductory undergraduate through graduate, has graduated a number of M.Sc. and Ph.D. students, and was the recipient of a Students' Teacher Recognition award sponsored by UMSU and UTS.



Roy Roshko

Nathan Saul Mendelsohn

*Distinguished
Professor Emeritus
F.R.S.C.*



Nathan Mendelsohn was born on April 14, 1917 in New York, and moved to Canada at six months of age. Brought up in Toronto, Nathan studied at the University of Toronto and finished his Ph. D. in 1942.

Nathan Mendelsohn has taken several avatars in the world mathematical scene: as a teacher, an administrator, editor, Director of the Computing and Data Processing Society of Canada (1960-65), Lowell Putnam Competition Committee (1970-73), not to mention Head of the Department of Mathematics for almost a quarter of a century. He joined the department in 1947 and established one of the world's leading groups of algebraists in lattice theory and universal algebra. These may be already very impressive, but Nathan's principal contribution is a large amount of important research in combinatorial mathematics, in recognition of which he was awarded the Henry Marshall Tory Medal of the Royal Society of Canada.

My learned colleague Grant Woods has a classification scheme for mathematicians: structure builders and problem solvers. Nathan is unique in the sense that he belongs to both classes. Nathan's multidimensionality comes through his numerous magic shows, card tricks, math club demonstrations, high school presentations, colloquium talks, seminars etc. In view of his sustained and significant contributions to the community, Nathan was decorated with the Manitoba Order of the Buffalo Hunt and the Canadian Mathematical Society honored him with the Distinguished Service Award in 1995. In 1999, Nathan was presented with the coveted Order of Canada.

He recently retired from the University but he has not retired from doing mathematics. We wish Dr. Nathan Mendelsohn a very happy, healthy, long and peaceful retirement and of course, many more new theorems, proofs and conjectures. — R. Padmanabhan

Administrative Assistants



Sharon Berg, Microbiology; Heather Paterson, Chemistry; Irmie Wiebe, Physics and Astronomy (back row) Margaret Smith, Statistics; Keith Travis, Botany Missing; Heather Aldwyn, Mathematics; Lynne Romuld, Computer Science; Claire Juan-Odendahl, Zoology

The Faculty of Science houses eight departments, none of which could function without the knowledge and expertise of the administrative assistants. Administrative assistants perform a vast array of duties that fall into categories such as Management, Administration, Budgets, Supervising, Hiring etc. More specifically, they perform such duties as hiring Teaching Assistants, budget control and planning, including research grant accounts, purchasing, investment income, awards and bursaries, to name a few. They also oversee administration of undergraduate and graduate programs, including some student advising, curriculum development and timetable planning. These are just a few of the many duties that are assigned to them.

In the departments of Botany, Microbiology and Statistics, the administrative assistant is the sole administrative support staff for the entire department, so they also perform the duties that would typically be assigned to an office assistant. And that's not all. Margaret Smith does trouble shooting of computers in the Statistics lab for example, and Keith Travis is building site coordinator for renovation projects in Botany. Keith described himself as a "Jack of all trades" in response to a question about his duties, which certainly would appear to be the case.

All of our administrative assistants are long time employees of both the university and the Faculty of Science. Irmie

Wiebe, in the Department of Physics and Astronomy, has been employed by the university for 40 years and Sharon Berg has been in Microbiology for 25 years! Our Administrative Assistants have varied educational backgrounds, for example, Heather Paterson has a Master's degree in Public Administration, while Lynne Romuld has a Sociology degree, as well as a diploma from Red River College.

The past year has presented many challenges to the Administrative Assistants, with the implementation of three new major computer systems. To quote Irmie, "The biggest challenge has been learning three new systems in one year. Of course the best thing to happen is computers, printers, fax machines, xerox machines - when we used to use typewriters, stencils and mimeograph machines!" Hopefully, in the near future, we will look back and wonder how we ever functioned without these systems, and they will have a similar positive effect on easing the workload in the department offices.

It is clearly evident that administrative assistants wear many hats, and that the departments, and therefore the Faculty, would not run smoothly, if at all, without them. We thank them for their dedication and valuable contribution to the Faculty of Science and the University of Manitoba.

Faculty Endowment Fund Report

Thanks to the generous support of alumni, staff, students and friends, the Endowment Fund was able to allocate funds totaling \$244,670.23, awarded by a committee composed of students and faculty members. All funds are used for undergraduate teaching and outreach. The results of the funding competition are reported below.

Astronomy	8,318.44
Botany	33,547.25
Chemistry	56,025.81
Computer Science	1,856.21
Mathematics	3,551.44
Microbiology	15,896.41
Physics	30,705.50
Statistics	11,254.11
Zoology	30,549.70
Biology Program	17,390.02
Delta Marsh Field Station	9,015.84
Ecology Program	16,228.86
Let's Talk Science	562.74
Science & Technology Library	6,667.91
Science Students' Association	
WISE	<u>3,100.00</u>
TOTAL:	\$244,670.23

If Faculty of Science alumni wish to make a contribution to the Faculty, please contact the Department of Private Funding, the University of Manitoba at (204) 474-9195 or 1-800-330-8066.

Support Staff News

The only support staff changes in 2005 were in the Department of Chemistry. Sadly, Barbara Lindsay passed away in April after serving the university since 1972, the past 13 years as Administrative Assistant in Chemistry. Barb is sorely missed by all who knew her in the Faculty and the university. Heather Paterson, a former Student Advisor in the Faculty for 20 years, was hired as the Administrative Assistant in Chemistry.

We welcome comments and suggestions for future newsletters, reunions, or other matters regarding the Faculty in general. Contact the Dean's Office, Faculty of Science, The University of Manitoba, Winnipeg, MB R3T 2N2 (L. Lester, Editor) E-Mail: lesterla@ms.umanitoba.ca

Student Accomplishments 2005

Congratulations to all!

2005 Science Medals

Gold:

Allisa Lloyd B.Sc. General

Program Medals:

Marta Cenkowski B.Sc. General

Christopher Roy B.Sc. Major

Marc Wallace B.Sc. Honours

David Ames was awarded The Robert Charles Armatage Award by the University of Manitoba Student's Union for his exceptional involvement in student affairs and university governance. David was a member of the Science Students' Association Council, a student member of the university Senate where he was elected to its Executive Committee and the Committee on Academic Freedom.

Mark Wiebe received the Faculty of Science Graduate Achievement in Industry Award for his contributions to Frantic Films. The award is granted for the most significant contribution to the mission of a company by an individual who graduated in Science from the University of Manitoba within the last 10 years. Mark received his B.Sc. Honours in 2001.

Matthew Bialy, Kristjan Thompson, and Irlantha Fernando were awarded the Dr. & Mrs. J. Michael Trainor Scholarships for Scholarly Achievement in Science.

Griselda Serrano was awarded The Adam Giesinger Scholarship for High Academic Standing in 1st Year, who is now in a 2nd year Science program.

Botany

Tara Bortoluzzi, Delta Marsh Scholarship Award.

Colin Nakata, Faculty of Science Award for Excellence in Teaching Assistance.

Chemistry

Laina Geary, Students' Teacher Recognition Award. She nominated Phil Hultin (Chemistry) and Dave Suffield (Sanford Collegiate) as her most influential teachers.

Computer Science

Mike Gauthier placed 1st in the Robo League Exhibition at the International Robot Olympiad (IROC). Mike also placed 2nd in the Java Spektrum Mobile Game Programming Competition for his game Sudoku Meister.

Sara McGrath, Sancho McCann, Paul

Furgale, Terry Liu, and Brian McKinnon placed 4th in the Humanoid League at the RoboCup 2005 Competition.

Sancho McCann and Paul Furgale placed 5th in the AUVSI Student Unmanned Aerial Vehicle Competition 2005. There were a total of 14 universities competing.

Mathematics

Heather Champion, Robert J. Lockhart Memorial Fund Prize.

Kevin Doerksen, NSERC Postgraduate Scholarship award.

Adam Gareau, Murray Gordon Bell Graduate Student Award.

Mohammadreza Koushesh Khajouei, University of Manitoba Graduate Fellowship.

Anh Le, Agnes Stewart Hart Award in Mathematics and Philosophia Mathematica Prize in Applied Mathematics.

Marina Kotovshchikova, Manitoba Graduate Scholarship.

Ebrahim Samei, Post-doctoral Fellowship at the Swiss Federal Institute of Technology in Lausanne, Switzerland.

Cozmin Ududec, David E. Dobbs Scholarship in Mathematics.

Trevor Wares, Honours Mathematics Award.

Chun Mei Zheng, Bernice Warkov Safer Prize for Excellence in Mathematical Sciences.

Physics & Astronomy

Adam deGraff ranked 10th in the 2005 Lloyd G. Elliott Prize competition (CAP University Prize Examination). The examination was written by 142 students from 24 universities.

Lee Ferchoff was awarded second place in the student talks at the Canadian Undergraduate Physics Conference (CUP) held at the University of Western Ontario.

Michael Froese, GSA Innovation, Stewardship and Excellence Award.

Kurt Hildebrand, High Quality Student Enrolment Incentive Award.

Kurt Hildebrand, Tim Taves and Candice Vidal, NSERC Postgraduate Scholarship awards.

Amra Peles, NSERC Postdoctoral Fellowship.

Michael Smadella, TRIUMF Award for the Prairie Provinces and the Bernard Noonan Memorial Prize.

Alexei Sukhovich, R.W.B. Stephens Prize Winners at the World Congress on Ultrasonics merged with Ultrasonics International for his outstanding work and excellent presentation of his results.

Zoology

Chelsea May, Major Barrett Hamilton Scholarship.

Kevin Hedges, Delta Marsh Scholarship Award.

Faculty of Science Graduate Scholarships – There were 33 students awarded new graduate scholarships and 20 renewals for a total of 53 students receiving scholarships in 2005.

The following students received Faculty of Science Undergraduate Awards:

Botany: Laura Wiebe

Chemistry: Monica Braun, Anthony Cerqueira, Christine McKinley, Monika Rak, Rodney Smith

Computer Science: Sancho McCann

Microbiology: Patricia Baudry, Alexandra Desrosier, Anna Majer

Physics & Astronomy: Paul Blair, Cristian Mosquera

Statistics: Chun Mei Zheng

Zoology: Breanne Reinfort

The following students received NSERC Undergraduate Awards:

NSERC Undergraduate Aboriginal Awards

Chemistry: Heather Griffiths

Physics & Astronomy: Connor Kupchak

Zoology: Justin Rasmussen

NSERC Undergraduate Awards

Botany: Scott Green, Chris Kuusselka, Kaleigh Quinn, Reesa Simmonds, Melissa Sutherland

Chemistry: Tavis Bodnarchuk, Craig Braun, Danielle Desautels, Nazanin Fallah-Rad, Erin Grundy, Angela Kehler, Matthew Kotyk, Malcolm Lucy, Hoang Nguyen, Benjamin Yakiwchuk

Computer Science: Jun Fung, Paul Furgale, Michael Gauthier

Mathematics: Adam Bookatz, Evan Haldane, Darja Kalajdziewska, Marcin Rak, James Requeima, Trevor Wares

Microbiology: Lydia Chen, Herman Chow, Tamara Corkery, Kiet Do, Craig Harlos, Erin Loeven, Katie Pundyk, Aida Sivro, Carly Steinfeld, Peter Sytnik, Lucy Yan

Physics & Astronomy: Krista Boese, Heather Champion, Adam de Graff, Lee Ferchoff, Matthew Scholte-van de Vorst, Tyler Shendruk, Cozmin Ududec, Christopher Wyenberg, Jason Wyenberg

Statistics: Qier Tan

Zoology: Geoff Heath, Jesse Howatt

Cast your net of discovery...
@ THE UNIVERSITY OF MANITOBA