

2007 Annual Report



Forestry
University of British Columbia

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2007 Annual Report

Faculty of Forestry

University of British Columbia

April 1, 2007 – March 31, 2008

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Photo: Jamie Myers



THE FACULTY of Forestry at UBC continues to evolve during interesting times, in the context of our past, present and future. In June of 2007 we celebrated a seminal point in our past with a 50th anniversary celebration of the arrival

of the Sopron foresters to UBC. The Soproners had a tremendous impact, not only on UBC, but on the way that forestry was taught, practiced and developed in BC and throughout North America. Through their careers and families our Sopron alumni have also had a major impact on many other aspects of what constitutes present day British Columbia. Today the “interesting times” that our forest-related communities are dealing with include one of the best examples of climate change in action - the mountain pine beetle epidemic. Meanwhile, the collapse in the US housing market and the desire for alternative, more sustainable, forms of energy (such as bioenergy) has the potential to turn the troubled forest products markets on their heads. While traditional markets will likely make some recovery, evolutionary influences such as climate change and globalization will affect both how we manage our forests and the values that we desire from our forested lands. The bio-economy will continue to grow, with land becoming increasingly valued for both its esthetic values and for its ability to produce

the food, fuel and fiber products that can be derived sustainably from this resource. As described in this year’s annual report, the Faculty of Forestry at UBC is well positioned to build on its past and current accomplishments and to play a major role in the future, ensuring that the forest related aspects of BC, Canada and the world are both environmentally sound and sustainable.

Students and Teaching Programs

During the past year we have increased our undergraduate student enrolment to 504 students, up by 8% from the previous year. This is the first time that our enrolment has broken the “500 mark” since 2000. Our faculty-wide recruitment priority this year was to engage interested candidates and assist them throughout the application and registration process. We increased our efforts to raise awareness of our programs among UBC Arts and Science students. We also made several updates to our website. As an indication of the caliber of student that we are attracting to our programs, one of our fourth year students (Sean Macalister) was awarded two of UBC’s most prestigious designations, the Premier Undergraduate Scholarship and designation as a Wesbrook Scholar. These awards are given in recognition of outstanding academics, leadership and involvement in student and community activities. Sean was also selected to receive the Canadian Institute of Forestry Gold Medal recognizing him as the most outstanding student of the year’s graduating class. We remain an

DEAN’S MESSAGE

Faculty of Forestry Activities, 1997/98 – 2007/08

	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
Undergraduate enrolment ¹	621	627	553	508	447	441	448	453	454	467	504
Distance education (fte)	37	29	21	22	19	14	9	9	10	10	10
Graduate enrolment	209	206	217	231	202	163	170	197	242	252	265
Teaching Evaluation Index ²	2.31	2.27	2.15	2.19	2.05	1.88	1.90	1.99	1.89	2.00	4.26
GPOB (\$'000) ³	4,741	4,865	4,919	5,491	5,884	6,124	6,219	6,332	6,398	6,631	6,850
GPOB/WFTE ⁴	1,989	2,048	2,195	2,479	3,024	3,487	3,508	3,315	2,976	3,003	2,890
Extramural funding (\$'000)	9,089	8,929	8,168	8,635	8,357	11,370	11,379	10,427	12,101	11,699	13,296
Endowment income (\$'000)	1,011	1,063	1,192	1,330	1,342	2,031	1,981	1,706	1,698	1,575	1,902
Extramural funding/GPOB faculty member (\$'000)	265	255	233	225	214	274	295	260	304	286	365

¹ Headcount unless otherwise noted

² Average numerical score of several criteria used by students to assess teaching performance of Faculty members. Score system used up to and including 2006/07, 1=Excellent; 2=Very Good; 3=Good; 4=Fair; 5=Poor; 6=Very Poor. New system introduced in 2007/08, 5=Excellent; 4=Good; 3=Average; 2=Poor; 1=Very Poor

³ GPOB = base recurring budget

⁴ WFTE calculated as 2 x (undergraduate + extrasessional) + 4 x masters + 6 x Ph.D. students

DEAN'S MESSAGE

attractive location for undergraduate visiting and exchange students from elsewhere in Canada and the world. The number of international students enrolled in our programs has also continued to increase. This year we had 57 international students, up from 48 the previous year. We hope to be one of the first units on campus to meet the university target of having 15% of the undergraduate student body as international students (this year we were at 11.3%). Our co-op forestry and wood products processing programs continue to be popular with undergraduate students. This past year saw an increase of 19% in the number of work terms successfully completed by our students. Our undergraduate student statistics are summarized on pages 4-9.

Forestry graduate student enrolment is at the highest level in our history for the third year in a row. Our total enrolment in 2007/08 was 265 students with a record 53% of these enrolled in doctoral degrees. We continue to attract excellent graduate students from all around the world. Last year 52% of our graduate students were from countries other than Canada, and we have students from 36 different countries, maintaining the Faculty of Forestry as being one of the most culturally diverse graduate programs on campus. We are also proud to announce that our graduate program received the 2007/08 Peter Larkin Award. This award is given by the UBC Campus Advisory Board on Student Development to a graduate/post-baccalaureate program that has had a significant positive impact on student life and student development at the University of British Columbia. The award recognizes the outstanding support that our faculty and staff provide to our graduate students, and the rich academic experience that they receive. Our graduate student statistics are summarized on pages 10-15.

In February 2008, we welcomed Dr. Hosny El-Lakany as our new Director of International Forestry. Hosny is the former Director General of the Food and Agriculture Organization / Head of the Forestry Department and continues to play a leading role in many key international processes and institutions relevant to forestry. Dr. El-Lakany is supported by Jorma Neuvonen, who joined our staff in September of 2007 as Director of Special Projects. During the year, seven of our students participated in exchange programs and we hosted 30 international exchange/visiting students from 9 different countries. We also welcomed 56 international visiting researchers and 28 international post-doctoral visitors from over 20 countries.

For more than 14 years we have been developing a First Nations strategy for our Faculty. With financial support from the Ministry of Forests and Range and our First Nations Council of Advisors, we were able to hire Dr. Garth Greskiw to manage

the implementation of this strategy. Garth has also been facilitating the delivery of a project to bridge and support aboriginal students in UBC's science programs. Our challenge remains to increase the number of First Nations Registered Professional Foresters and land managers by providing assistance to First Nations and the wider forest community through our First Nations strategy. Pages 18 and 19 provide a highlight of our First Nations forestry achievements and plans.

Faculty, Research, Development and Alumni

The past year has seen two faculty retirements, one new hire and one resignation. Dr. Fred Bunnell retired after 36 years with the Faculty. Fred was the incumbent in the Forest Renewal BC Chair in Applied Conservation Biology from 1996-2004 and his outstanding achievements in global conservation have brought international recognition and honour to UBC. Dr. Hamish Kimmins retired after 39 years of exemplary service to UBC. Hamish held a Canada Research Chair in Forest Ecosystem Modelling from 2001-2007 and is known to forestry students world wide as the author of the very successful text book "Forest Ecology". Both Fred and Hamish intend to continue their professional interests in retirement. Dr. Harry Nelson joined the department of Forest Resources Management as Assistant Professor in the area of forest policy and economics. Harry has worked as a Research Associate both in the department and at the Forest and Economics Policy Analysis Research Unit (FEPA) at the Faculty of Forestry for the past seven years. He has a Ph.D. in forest economics and a Master's in public policy from Harvard. His research interests are in resource economics and policy and he has written extensively on current issues in forestry and their relationship to Canadian forest policies. Dr. Markus Weiler (department of Forest Resources Management) resigned from his position as Forest Renewal BC Chair in Forest Hydrology and accepted the position of Chair of the Institute of Hydrology at the University of Freiburg, Germany.

In response to an external review of our department of Wood Science and Centre for Wood Products Processing (CAWP), we have linked the activities of these two more closely. In 2007, a CAWP management committee was established to allow faculty members in Wood Science to provide greater input into the activities of CAWP. Iain Macdonald has assumed the newly created position of Managing Director for the Centre. Pages 40 and 41 provide some highlights of CAWP's continuing education, extension and research activities over the past year.

The Centre for Applied Conservation Research (CACR) Co-Directors Sarah Gergel and Peter

Arcese continue to lead Centre partners to solve interdisciplinary problems in conservation and management. This past year saw the addition of a new research group under the CACR research umbrella with David Tindall's SSHRC-funded surveys of Canadians' views about the environment and their activities related to conservation. Pages 42-43 provide highlights of Centre events and research activities for 2007/08.

Forty seven new research projects were initiated at our three Research Forests over the past year. Work began on replacing the original log cabins at the Malcolm Knapp Forest (MKRF), representing the final phase of Loon Lake's redevelopment plan. Paul Lawson, Manager of MKRF was awarded the Bill Young Award of Excellence from the Association of BC Forest Professionals (ABCFP) and Ken Day, Manager of the Alex Fraser Forest, was honoured as the Distinguished Forest Professional at the ABCFP annual general meeting in February, 2008. Past year activities and future plans for our Research Forests are detailed on pages 44 and 45.

Other awards bestowed on faculty members during the past year are listed in bold print on pages 46 to 48 of this report. We were particularly honoured to have John Innes (Forest Renewal BC Chair in Forest Management), Werner Kurz and Stewart Cohen (both adjunct faculty members) awarded a share of the 2007 Nobel Peace Prize for their work as members of the Intergovernmental Panel on Climate Change.

Extramural support of our faculty members' research increased by almost 14% over the past year for a total of \$13,295,951. Federal funding of research activities represented 41.8% of this figure. Federal Tri-Council funding accounted for 20.9% of our total support with grants totaling \$2,780,754. Provincial funding increased by over 26%, primarily as a result of increased funding from the Forest Sciences Program. Private industry support for research contributed another \$1.4 million in 45 projects. International support of research was up to \$686,325, representing over 5% of our total funding. A listing of individual faculty member research projects and their associated research publications for the past year begins on page 51 of this report.

Our development program saw some staff changes during the year with Katrina Evans leaving her role as Director of Development and Christoph Clodius joining the Faculty as our new director in December, 2007. In June, 2007, we hosted the "UBC - Sopron 50th Anniversary Celebration" to commemorate the arrival of the Sopron School of Forestry in 1957. These three-days of celebrations and events were our alumni highlight of the year and commemorated an important part of UBC's and Canada's history. In March of 2008 we hosted the inaugural lecture in the "Forestry Lecture in

Sustainability", a new series funded by the Koerner Foundation. Dr. Ian de la Roche, President and CEO of FPInnovations was the speaker for this event. Full details of our development and alumni activities can be found on pages 70 and 71 of this report.

Plans for 2008-09

As indicated above, we have a much storied past and a present that includes award winning faculty and staff, graduates who are sought after by employers, record high levels of research funding and graduate student numbers and other indicators that our teaching and research is making a difference. However, the world continues to evolve and there is a need to not only evolve with it but to also show leadership in suggesting the paths that might be taken in the future. UBC continues to aspire to be one of the world's greatest universities and the Faculty of Forestry intends to be one of the units that will continue to turn this aspiration into reality. Several other academic institutions such as the University of Melbourne, University of Washington and even our sister institution in Vancouver, Simon Fraser University, have or are in the process of pulling together and building on their collective expertise in the areas of sustainability and environment. UBC is fortunate to have world class expertise in areas such as climate change, fisheries, hydrology, food security and other aspects of what falls under the broad definition of "Sustainability and Environment". Virtually everything that we do within the Faculty of Forestry, in all of our education and research programs, has something to do with sustainability and environment. As described in last year's annual report and in recent issues of our Branch Lines newsletter, the Faculty is a strong proponent of UBC utilizing the good synergies and cooperative programs that currently exist on campus to implement the "Sustainability and Environment; Education and Research" (SEER) initiative. We continue to have a vibrant and healthy graduate program that covers a wide range of research topics under the sustainability/environment umbrella. Several of our faculty members teach in undergraduate and graduate programs that are taken by students from outside of our own Faculty. Similarly, graduate courses within our programs (such as natural resources conservation) are sought after by graduate students from many areas on campus other than Forestry. In the same way that climate change and the increasing cost of fossil fuels are driving the convergence of food, fiber and fuel from our global land base, the Faculty of Forestry is well positioned to be a key catalyst and contributor to UBC's aspiration to be a world class university with a global distinctiveness in the delivery of education and research in sustainability and the environment.



UNDER-GRADUATE STUDENTS

PROGRAMS OF STUDY



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Dennis Bendickson
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Director
Forest Operations Major

Simon C. Ellis
B.Sc. (Hons), M.Sc., Ph.D., F.I.W.Sc.
Director, Wood Products
Processing Program

Scott G. Hinch
B.Sc. (Hons.), M.Sc., Ph.D.
Director, Natural Resources
Conservation Program

John Nelson
B.S.F., M.B.A., Ph.D., R.P.F.
Director, Forest Resources
Management Major

THE FACULTY OF FORESTRY offers four-year degree programs in the following areas:

Bachelor of Science in Forestry B.S.F.

This degree integrates science and technology to advance the understanding and practice of sustainable forest management. It enables students to become Registered Professional Foresters with diverse career options. Students choose one of two majors upon application to first year:

Major in Forest Operations: Areas of study include: design and construction of forest roads and drainage structures; selection, planning and supervision of logging systems; site protection and rehabilitation; and the development of computer applications for harvesting systems. A Minor in Commerce is offered.

Contact: Dennis Bendickson
604-822-5932 dennis.bendickson@ubc.ca

Major in Forest Resources Management: This major focuses on the multidisciplinary aspects of forest resources and the management of forested ecosystems for a variety of products. Students learn about the unique characteristics of each resource, their interactions, and the manipulation of forests to yield a variety of desirable products in the context of ecological, social and economic objectives. This program is also offered as a four-year International Forestry Specialization.

Contact: John Nelson
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Forest Sciences B.Sc. (Forest Sciences)

This challenging yet flexible program is designed to develop professionals who understand the dynamics of and can conduct research in forested ecosystems, and are well prepared for graduate studies. Students gain a strong foundation in the basic biological and environmental sciences, with emphasis on the interacting components and functions of forests. Core topics include genetics, soil science, weather and climate, tree form and function, ecology, silviculture, biodiversity and research methods. In the third and fourth years of study, students specialize in an area of particular interest. Possible specializations include but are not limited to physiology, forest ecology, soils, genetics, pathology, entomology, fire science, and aquatic sciences. This program is also offered as a four-year International Forestry Specialization.

Contact: Sally Aitken
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Wood Products Processing B.Sc. (Wood Products Processing)

This award-winning program is a fusion of science, engineering and business that prepares students for careers in the wood products sector and beyond. Students gain a comprehensive understanding of wood science, advanced manufacturing and business operations, and can choose to complement their degree with a Minor in Commerce through the UBC Sauder School of Business. Co-op is another exciting option to integrate career-related experience into academic studies. This program was developed in response to the need for university graduates qualified to become leaders in the wood products manufacturing sector. Graduates are always in demand and enjoy diverse career opportunities with the highest average salary compared to other UBC undergraduate degrees.

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Natural Resources Conservation B.Sc. (Natural Resources Conservation)

This transdisciplinary program provides students with a solid foundation in the function, process and structure of natural ecosystems, with an appreciation for the political, legal and socioeconomic contexts of conservation and management strategies. The program offers a wide variety of subjects and emphasizes the development of communication and problem-solving skills, teamwork, and leadership. Students select a major at the end of second year:

Major in Science and Management: Students obtain a working knowledge of conservation science and management, particularly within the Pacific Northwest context. A notable feature is the fourth year capstone field school which integrates field and classroom instruction throughout the fall term. Students can readily pursue Registered Professional Biologist or Forester status through this major.

Major in Global Perspectives: Students obtain broad knowledge on a range of resource systems. International study is a requirement. A notable feature is the capstone modeling course involving a comprehensive assessment of policy, management and resource sustainability in developing countries.

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PLANS FOR 2008 – 09

- Continue revising the B.S.F. Forest Resources Management Major to offer increased flexibility and scope while maintaining professional accreditation
- Revamp B.Sc. Forest Sciences International Specialization option

UNDER-GRADUATE STUDENTS

CO-OP PROGRAMS



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COOPERATIVE EDUCATION is a three-way partnership between employers, students and the university. This partnership provides an opportunity for students to gain practical work experience, related to their program of study, by alternating academic terms with paid work terms. Graduates of a co-op program are well prepared, academically and professionally, for their future careers. Participating employers have access to an excellent staffing resource for peak periods or special projects as well as the opportunity to recruit, train and assess potential future employees.

Co-op students are available for four or eight month work terms commencing each year in January, May and September. Over the course of their degree, students complete eight academic terms and five work terms to meet their co-op requirements. Employers interested in hiring a co-op student should contact one of our co-op education coordinators.

ACHIEVEMENTS IN 2007 – 08

Forestry Programs

- Co-op students successfully completed their work terms at a variety of employer hosts; including consultants, government (federal, provincial, US state), industry and non-governmental organizations.
- Work terms were completed in British Columbia, Alberta, the United States (Alaska, California, Montana, Washington) and South Africa.
- International co-op work terms were completed with the California Department of Forestry and Fire Protection, US Forest Service, US National Park Service and Stellenbosch University in South Africa.
- The number of co-op work terms that were successfully completed increased by 19% over 2006-07.
- The distribution of co-op work terms by geographical location was as follows: 32% – Lower Mainland of British Columbia; 18% – Vancouver Island; 23% – other locations in British Columbia; 5% – Canada outside of British Columbia; and 23% – internationally.
- The 6th Annual Forestry Careers Day was held in November 2007 bringing students together with organizations representing conservation, government, industry, professional associations and sustainability.

Wood Products Processing Program

- Fifty-two co-op work terms were completed, a 4% increase over the previous year.
- Co-op work terms were completed in British Columbia, Alberta, Manitoba, Ontario, New Brunswick, and Saskatchewan as well as Japan, Switzerland, and the United States.

- The distribution of co-op work terms by geographical location was: 40% Lower Mainland of British Columbia; 13% other locations in British Columbia; 23% Canada outside of British Columbia; and 12% internationally.
- International co-op work terms were completed with the Berne University of Applied Science School of Architecture, Civil and Wood Engineering (Switzerland), Key Tec Co., Ltd. (Japan), and Weyerhaeuser (USA).
- The second edition of the Co-op Resume Book listing co-op students and graduates was distributed to employers at the winter Co-op Presentation Evening. An on-line version is also available to facilitate employers' recruitment activities.
- Attendance at the semi-annual Co-op Presentation Evening remained strong reflecting the interest and support employers have in hiring co-op students and graduates.
- Received and distributed over forty job descriptions for permanent positions to Wood Products Processing alumni.

PLANS FOR 2008 – 09

- Incorporate new delivery methods in co-op workshops to enhance students' learning experience and continue to include participation by employers, guest speakers, and senior co-op students.
- Create opportunities for senior co-op students to further develop their leadership skills prior to entering the workplace upon graduation.
- Continue to develop international co-op work term opportunities that will broaden students' cultural awareness and understanding of global issues related to their field of study and future career.

Number of work terms completed

	04/05	05/06	06/07	07/08
Forest Operations	0	0	1	1
Forest Resources Management	2	8	8	8
Forest Sciences	3	5	6	9
Natural Resources Conservation	11	18	22	26
Wood Products Processing	47	47	50	52
Total	63	78	87	96

Work term salaries 07/08

	Average Salary (\$/Month)
Forest Operations	2,800
Forest Resources Management	3,225
Forest Sciences	3,150
Natural Resources Conservation	3,300
Wood Products Processing	3,037

UNDER-GRADUATE STUDENTS

STUDENT SERVICES & RECRUITMENT



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THE UBC FORESTRY STUDENT Services Team provides support to prospective, new and continuing undergraduate students. Our priorities include attracting strong students to our degree programs, enhancing student life for current undergraduates and raising the profile of the Faculty of Forestry at UBC and beyond.

ACHIEVEMENTS IN 2007 – 08

Student Events

Tradition is alive and well in the Faculty of Forestry. Alumni will fondly recall many events that still take place each year, including Forestry Week (Omar's 50th anniversary) and the infamous year-end party, Coconut. This year, Student Services worked with the Forestry Undergraduate Society to organize and support the following events:

- Imagine UBC, the university-wide first-year orientation held on the first day of classes
- Dean's Welcome Back BBQ, a well-attended annual function
- CIF Beer & Chili Night, a UBC/BCIT cook-off hosted by the Canadian Institute of Forestry and featuring guest speaker Jim Snetsinger, Chief Forester
- International Food Extravaganza, a sampling of student-prepared dishes from the world over
- UBC/BCIT Silver Ring Ceremony, our magnificent graduation celebration sponsored by the Canadian Institute of Forestry
- Coconut, the legendary year-end event, held this year at the Croatian Cultural Centre
- Storm the Wall, North America's largest intramural event – our Forestry team took home the campus-wide trophy
- UBC Logger Sports, revived by a dedicated group of students this year after a lengthy hiatus

Student Services

Student Services staff provide many different types of assistance, including admissions and registration assistance, orientations and tours, personal and program advising, referrals to other UBC services and more. We were pleased to welcome Tristan Banwell to our team as Admissions Advisor after the departure of Lesley Fettes in May. Tristan, a fourth-year Natural Resources Conservation student, worked for us full-time in the summer and part-time throughout the school year. Another great addition this year was Yuko Lee, Student Services Assistant, who joined us in August. Yuko is now an integral part of all our recruitment and retention efforts.

Recruitment Activities

Most recruitment activities were managed by two of our staff: Chiara Longhi, who recruits and advises international, visiting and exchange students, and Tristan Banwell, who is responsible

for recruiting and advising domestic students entering all forestry programs. Chiara and Tristan worked in close association with Joanna Mackie, who is responsible for recruitment to the Wood Products Processing program and conducts a range of related outreach activities. Candace Parsons, Geoff Anderson and Yuko Lee assisted with enquiries from prospective students and attended career fairs and on-campus recruitment events. A number of undergraduate volunteers also joined us at recruitment events; these students were able to share their enthusiasm for their programs of study on a peer-to-peer level.

Our faculty-wide recruitment priority this year was to engage interested candidates and assist them throughout the application and registration process. We also increased efforts to raise awareness of our programs among current UBC Arts and Science students and enhanced our website. As an indication of our hard work, enrolment this year exceeded 500 registered students. Enrolment had been stable at about 450 students since 2001, so this increase suggests that our recent recruitment efforts and strategies are paying off.

Outstanding Students

We are very proud that Sean Macalister, one of our fourth-year Forest Resources Management students, was designated a Wesbrook Scholar and awarded a Premier Undergraduate Scholarship this year. These honours are UBC's most prestigious designations, given to senior students with outstanding academics, participation in sports, leadership and involvement in student and community activities. Sean was also chosen to receive the Canadian Institute of Forestry Gold Medal, recognizing him as the most outstanding student of this year's graduating class. For more details on scholarships and bursaries, please see the Awards section on page eight of this report.

PLANS FOR 2008 – 09

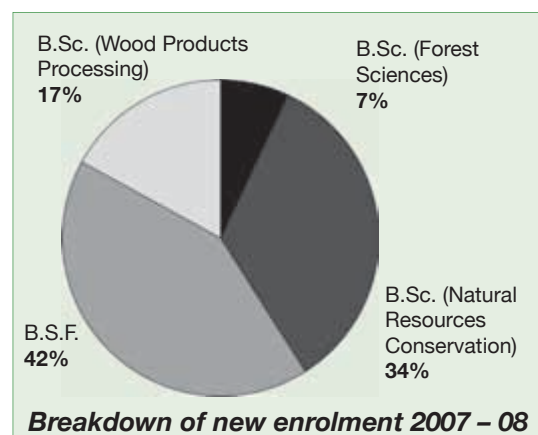
- Take a Forestry Quiz Bowl team to Fredericton, NB for the CIF Centennial Conference and AGM, where they will defend their 2004 title against college and university forestry teams from across Canada
- Continue to enhance the reputation of the Faculty of Forestry and increase awareness of our undergraduate programs, both on campus and beyond
- Take an active role in promoting sustainability by building a relationship with the Sustainability Office and participating in events on campus (e.g. UBC Sustainability Conference; UBC Sustainability Fair)
- Strengthen student involvement in recruitment activities

New Student Enrolment

New student enrolment this year was 163, up 25 from the previous year. Our admissions GPAs for students entering directly from secondary school were: 78% for the Forest Sciences and Natural Resources Conservation programs and 75% for our other programs (Wood Products Processing and BSF).

New students entering into different program years are tabulated below.

New students 2007 – 08	
Year of study	Number of new students entering
1	154
2	8
3	1
4	0
Total	163



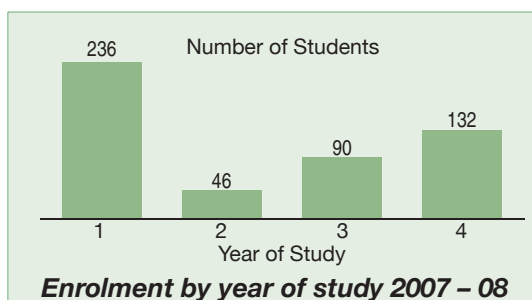
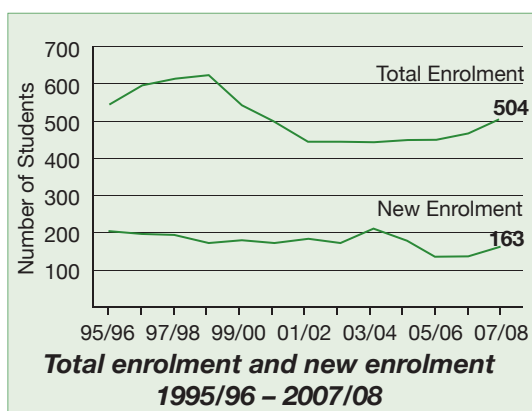
Total Enrolment

Total undergraduate enrolment grew to 504, an increase of 37 students over the previous year. This increase is a consequence of the higher secondary school entrance standards we have adopted in the past few years, which have resulted in higher retention rates (fewer failures) as well as a larger new student intake.

We remain an attractive location for undergraduate visiting and exchange students from elsewhere in Canada and the world. This year we hosted 15 visiting and exchange students, plus an additional 15 who participated in TRANSFOR (Transatlantic Education for Globally Sustainable Forests). The TRANSFOR program includes intensive 2-3 week field courses (organized by partner Canadian universities in cooperation with Model Forests), trans-atlantic student exchanges to improve sustainable forest management in the 21st century, teacher exchanges for joint curriculum development, and student internships abroad.

In addition to visiting and exchange student enrolment, the number of international students enrolled in our degree programs continues to increase. This year we had 57 international students, up from 48 the previous year. We hope to be one of the first units on campus to meet the university's target of having 15% of the undergraduate student body as international students.

The following graph shows the distribution of undergraduate students by year of study.



The percentage of female students in our undergraduate programs continues to increase, and is now about 42 percent, up one percent from the previous year.

The following table provides a breakdown of students by program.

Enrolment by program 2007 – 08		
	Number enrolled	% of total
Forest Resources Management (B.S.F.)	121	24.0
Forest Operations (B.S.F.)	39	7.7
Forest Sciences (B.Sc.)	39	10.0
Wood Products Processing (B.Sc.)	112	22.2
Natural Resources Conservation (B.Sc.)	182	36.1

UNDER-GRADUATE STUDENTS

AWARDS

First Year Students

Chiu, Horton	WOOD
Dehouwer, Jonathan	TRUCK ¹
Guy, Brendan	TRUCK ¹ , WEST
Hoeg, Peter	WOOD
Matthies, Brent	TRUCK ¹
Mellstrom, Charlotte	C.S. JOHNSON
Nie, Xin	SODERMAN, WOOD
Radatzke, Kristin	BANKS
Rippon, Jordan	WOOD
Strimbu, Vlad	ALUMNI ²
Swift, Natalie	WEST
Tam, Janice	WOOD

Second Year Students

Allingham, Reece	ABCFP ¹ , ABCFP ³ , NORTHWOOD
Anstee, Darryl	TRUCK ²
Buschhaus, Catherine	McINTOSH ¹ , SIDDOO ² , WEST
Chow, Laiyi	TRUCK ²
Driedger, Erika	GOLOUBEUF, SODERMAN
Farrer, Nicola	CARIBOO
Feinstein, Asa	CRUCIL
Forsman, Shannon	WEST
Martin, Amanda	DEAN, MAC ³ , WEST
Ponnambalam, Kumary	WELDWOOD

Third Year Students

Anderson, Meghan	GARDNER
Bemmels, Jordan	MAC ³ , SPLAN, WORRALL
Borslein, Daniel	LUMBER, WELLWOOD
Braun, Sarah	MAC ³ , SPLAN
Cheng, Kenneth	NATIONAL, WOOD
Coleman, Richard	CANADIAN, STEINER, SODERMAN
Czapiewski, Christopher	LUMBER, WOOD
Freeman, Olivia	SIDDOO ¹ , SODERMAN
Hart, Foster	LUMBER, WOOD
Henderson, Evan	DEAN, MAC ³ , McMAHAN
Hryniewicz-Moczulski, Magdalena	GOLOUBEUF, McINTOSH ²
Lindstrom, Dreena	WHITTALL
Ng, Jeffrey	WELLWOOD, WOOD
Pashkowski, Tove	McINTOSH ¹ , SISCO, SPLAN
Prilesky, Vojtech	WELDWOOD
Staffl, Natalie	CHISHOLM
Whitney, Charlotte	DEAN, MAC ³

Fourth Year Students

Bakker, Nicola	BIER, MACHINERY, SOPRON
Belisle, Myriam	BANKS
Carter, Bradley	CANFOR, SODERMAN, WOOD
Chewter, Marley	BINKLEY, HADDOCK, JOHNSON, PACIFIC, TIMBERLINE
Dickson, David	WELDWOOD
Edwards, Vanessa	SODERMAN, WOOD
Embleton, Dianna	WOOD
Englander, La'i	WOOD
Gale, Marika	BANKS, UNIVERSITY
Haggerstone, Haley	MILLS
Henriques, Daniel	WOOD, SODERMAN
Hsu, Kai-Ting Amy	SODERMAN
Isaac-Renton, Miriam	DEAN
Johnston, Carleigh	WEYERHAEUSER ³
Karow, Larissa	SOPRON
Kenyon, Andrew	SMITH
Langley, Alex	WOOD
Layton-Cartier, Genevieve	GOLOUBEUF, SOPRON
Liem, Martin	WOOD
Loo, Justin	WOOD
Lozinsky, Stefan	CANADIAN, WOOD
Macalister, Sean	ALUMNI ¹ , CIF, ENGLISH, KOZAK, LITTLE, SPLAN, WESBROOK
Mallon, Christopher	CRAIG, ELKINGTON, DEAN
McLaughlin, Garrett	BACKMAN, SPLAN
Mihalcheon, Christopher	WOOD
Minagawa, Haruna	SPLAN
Montgomery, Jesse	DEAN
Morrison, Kimberly	BANKS
Norman, Anita J	GRADUATING
O'Farrell, Tyler	SMITH, SPLAN
Peacosh, Andrew	R.E. MILLS
Pearson, Alexander	NORTHWOOD, WOOD
Pershin, Andrew	SODERMAN, WEYERHAEUSER ¹ , WOOD
Scott, Matthew	TRUCK ²
Scuffi, Lacy	E. BACKMAN, KETCHAM, WEYERHAEUSER ²
Stein, Miriam	BANKS
Strickland, Peter	BACKMAN, SPLAN
Ziemba, James	SPLAN

Graduating Awards (Spring 2007)

Cahill, Geoffrey	ABCFP ²
DeSandoli, Lisa	MAC ¹
Ewen, Stephanie	CIF, HOBSON, KNAPP
Field, Katherine	ABCFP ²
Forrester, Alexander	COAST, MAC ²
Splawski, Daniel	LARRE

ABCFP Scholarship in Forestry¹, Graduating Prize in Forestry², UBC-O Award³
 UBC Forestry **ALUMNI** Division Scholarship¹ and Entrance Scholarship².
BACKMAN Scholarship in Forest Resources Management
 Charles and Jane **BANKS** Scholarship.
 John E. **BIER** Memorial Prize in Forest Pathology.
 Emily and Francis **BINKLEY** Scholarship.
CANADIAN Woodworking Machinery Distributors Association Prize
CANFOR Corporation Scholarship in Forestry.
CARIBOO Woodlot Education Society Scholarship in Forestry.
 Hugh R.D. **CHISHOLM** Scholarship in Forestry.
 Canadian Institute of Forestry (**CIF**) Medal.
COAST Fire Prevention and Control Group Ken Haley Memorial Prize.
 Robert J. **CRAIG** Memorial Scholarship.
 August and Cristina **CRUCIL** Scholarship in Forestry
DEAN of Forestry Scholarship.
 Elizabeth **BACKMAN** Scholarship in Natural Resources Conservation.
 Galt **ELKINGTON** Memorial Scholarship.
 Barry **ENGLISH** Memorial Prize.
 Joseph and Joyce **GARDNER** Scholarship in Forestry

Peter Andrew **GOLOUBEUF** Scholarship in Forestry.
GRADUATING Class of Forestry 1957 Prize.
 Phil **HADDOCK** Prize in Silviculture.
 Harry **HOBSON** Memorial Prize.
 Ted **JOHNSON** Scholarship in Forestry.
 Charlie and Sue **JOHNSON** Forestry Entrance Scholarship.
 Janet **KETCHAM** Scholarship.
 Malcolm **KNAPP** Spring Camp Prize.
 Tony **KOZAK** Scholarship in Forest Measurement.
 Charles **LARRE** Memorial Graduating Prize
 David Bell **LITTLE** Memorial Scholarship.
 Independent **LUMBER** Remanufacturers Association Scholarship in Wood Products
 H. R. **MACMILLAN** Prizes in Forestry¹, Forest Harvesting², Scholarship in Forestry³.
MACHINERY and Supply Companies Group Forestry Scholarship.
 Jim and Gerry **McINTOSH** Award in Forestry¹ and Scholarship in Forestry².
 William **McMAHAN** Scholarship
 James Russell **MILLS** Memorial Award.
NATIONAL Education Initiative Gerhard Kress Memorial Scholarship.
NORTHWOOD Pulp and Timber Limited Scholarship.
PACIFIC Regeneration Technologies Inc. Silviculture Scholarship.

Robert E. **MILLS** Memorial Award.
 Kapoor Singh **SIDDOO** Scholarships in Forestry¹ and Forest Ecology².
 Dave White **SISCO** Memorial Award in Forestry
 J. Harry G. **SMITH** Award in Forest Resources Management.
 Oscar **SODERMAN** Memorial Scholarship.
SOPRON Alumni Scholarship
 William John **SPLAN** Scholarship in Forestry.
 Paul Robert **STEINER** Memorial Scholarship in Wood Science.
TIMBERLINE Scholarship.
TRUCK Loggers Association Scholarship¹ and Scholarship in Harvesting².
UNIVERSITY of BC Scholarship.
WELDWOOD of Canada Ltd. Scholarship in Forestry.
 Mary and Robert **WELLWOOD** Memorial Scholarship in Wood Science and Industry.
WESBROOK Scholar
WEST Fraser Timber Co. Ltd. Scholarship in Forestry.
WEYERHAEUSER Scholarship in Forestry¹, Award in Forestry² and Aboriginal Award in Forestry³
 Weldwood of Canada Limited H. Richard **WHITTALL** Scholarship.
 University of B.C. **WOOD** Products Processing Awards.
 John **WORRALL** Tree Enthusiast Prize.

Bursaries

The following bursaries have been made available specifically for students enrolled in the Faculty of Forestry. Due to the confidential nature of bursary applications, recipients cannot be identified.

Herschel H. **BOYDSTON**, Jr. Memorial Bursary in Forestry.
Gerry and Jack **BURCH** Bursary.
Tommy **BURGESS** Memorial Forestry Bursary.
Ian T. **CAMERON** Memorial Bursary.
CANFOR Corporation Bursary.
COASTAL Silviculture Committee Bursary.
Doris M. **DOWLING** Memorial Bursary.

EUROCAN Pulp & Paper Co. Bursary.
J. D. **HETHERINGTON** Memorial Bursary.
British Columbia **KILN** Association Bursary in Forestry.
Jeanette **LINDSAY** Memorial Bursary.
NORRIS-MEBIUS Bursary.
P. L. **NORTHCOTT** Memorial Bursary.
Tudor **OMMANEY** Memorial Bursary in Forestry.

Henri J. **PIGEON** Bursary in Wood Science and Industry.
Oscar **SODERMAN** Memorial Bursary.
Oscar **SZIKLAI** Memorial Bursary in Forestry.
E.G. & W.D. **TOUZEAU** Bursary.
VINTEN Fund Forestry Bursary.
John **WORRALL** Alumni Bursary in Forestry.

Degrees Conferred, May 2007 and November 2007 Congregations

B.S.F. (Forest Resources Management)

Bambrick, Elaine
Bellows, Anna
Dalton, Rachel
Dolling, Joey
Ewen, Stephanie
Haight, Stephanie
Jordan, Tristan
Kerley, Jason
Lane, Benjamin
Lawton, Aaron
LeDrew, Kimberley
Lindsay, Scott
McKay, Chipman
Nadir, Daniel
Nixon, James
Osorio, Federico
Terebka, Anna
Webber, Kevin
White, Brian

B.Sc. (Forest Sciences)

Clason, Alana
Field, Katherine

B.Sc. (Wood Products Processing)

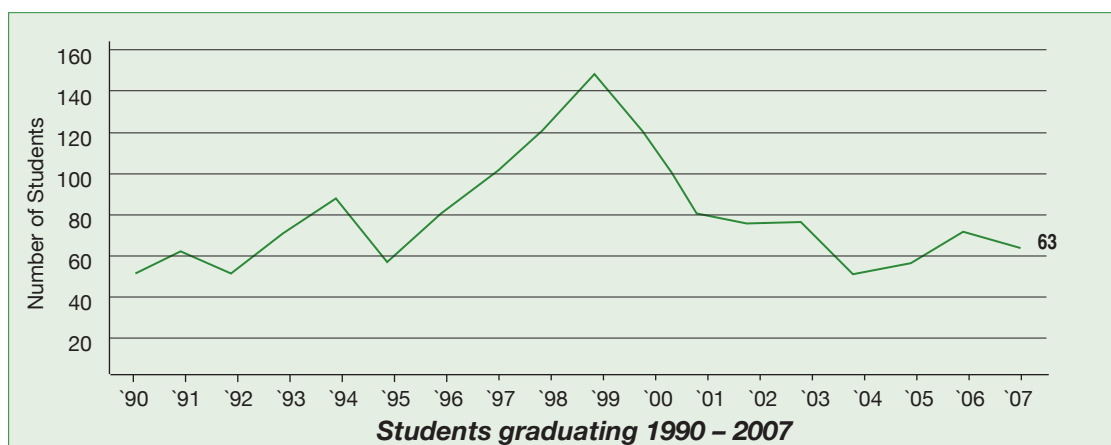
Bai, Wade Wei Hsiang
Broschart, Jean-Michel
Chen, Szu Kai Gaven
Craig, Jameson
Ji, Jian
Klein, Krista
Kristoff, Carl
Leung, Ming Hei Vincent
Ngai, Edmand
Niroomand, Maryam
Palmer, Gareth
Scott, Stephen
Sianchuk, Robert
Splawski, Daniel
Vandergriendt, Eric
Wagstaff, Alexander

B.S.F. (Forest Operations)

Cahill, Geoffrey
Forrester, Alexander
Omran, Ahmed

B.Sc. (Natural Resources Conservation)

Asadian, Yeganeh
Baart, Johann
Baird, Christopher
Birch, Jordan
Brandvold, Fenella
Champion, John Michael
DeSandoli, Lisa
Donker, Scott
Hall, Jasmine
James, Kelly
Kawai, Megumi
Kwok, Joanne Yue Ting
Leach, Lori
Lee, Chia Han Henry
Leung, Erica Wing-Lam
Leung, Nga Ching Francis
Leung, Stephen Kin Hang
Li, Xiang
Libal, Nathan
Sheldon, Kim
Tarves, John
Tse, John Fuk-Lung
Yeung, Lok Yi Louisa



GRADUATE STUDENTS

ENROLMENT STATISTICS



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THE FACULTY OF FORESTRY offers four graduate degrees:

- Doctor of Philosophy
– Ph.D. (in Forestry)
- Master of Science
– M.Sc. (in Forestry)
- Master of Applied Science
– M.A.Sc. (in Forestry)
- Master of Forestry
– M.F.

and a specialization stream in the area of Forests and Society.

Enrolment and Graduation Trends

Graduate program enrolment increased over the past year to 265 graduate students, the highest enrolment in our history for a third consecutive year. More than half (53%) of our graduate students are enrolled in Ph.D. programs. Women comprised 35% of our masters and 37% of our doctoral students. The average graduate student complement of supervising faculty members is 5.1.

Forty-four students graduated, 32 with Masters degrees and 12 with Ph.D. degrees. Average time-in-program of students finishing their programs in 07/08 was three years for masters and five years for doctoral students.

Distribution of students by degree program 2007 – 08*

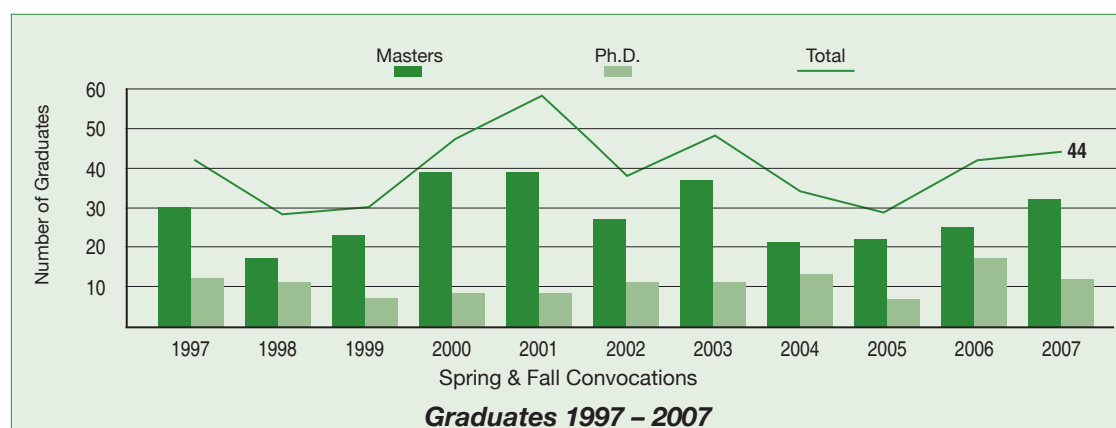
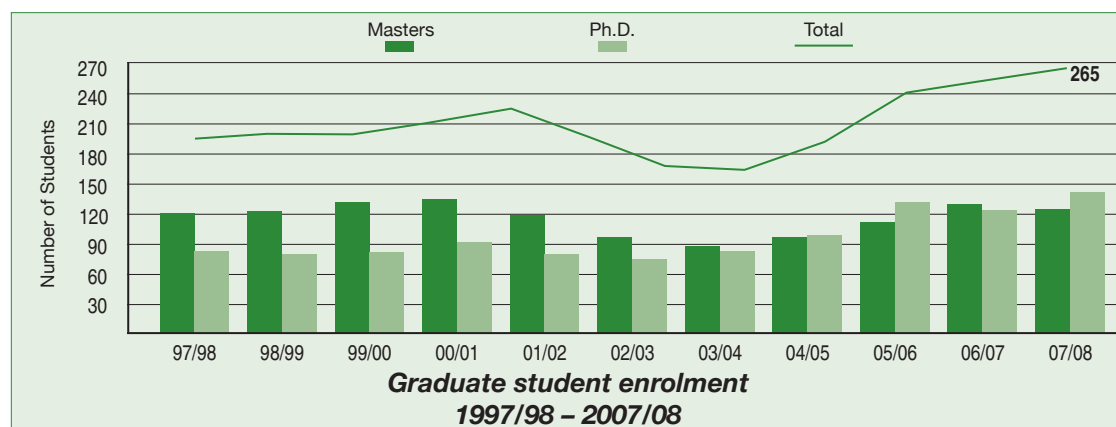
	Male	Female	Total
Ph.D.	89	52	141
M.Sc.	65	37	102
M.A.Sc.	10	0	10
M.F.	5	7	12
Total	169	96	265

*As of December, 2007.

Distribution of students by department of primary supervisor 2007 – 08*

Department	Masters	Ph.D.	Total
Forest Resources Management	51	48	99
Forest Sciences	45	49	94
Wood Science	28	44	72
Total	124	141	265

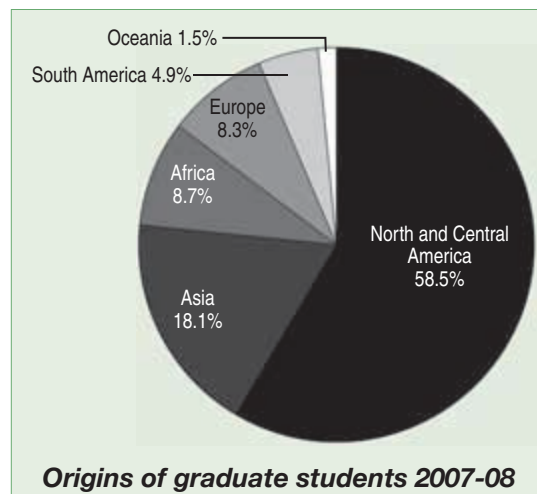
*As of December, 2007.



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programs/grad

Origins of Forestry Graduate Students 2007 – 08

The Faculty of Forestry continues to attract excellent graduate students from around the world. Fifty-two percent of our graduate students are from countries other than Canada, and we have students from 36 different countries, making Forestry one of the most culturally-diverse graduate programs on campus. Incoming students are matched with current students from the same country or region, who help the new students make a smooth transition to life in Vancouver and at UBC.



ACTIVITIES AND ACHIEVEMENTS IN 2007 – 08

We are proud to announce that our graduate program received the 2007-2008 Peter Larkin Award. This award is given by the UBC Campus Advisory Board on Student Development to a graduate/post baccalaureate program that has had a significant positive impact on student life and student development at the University of British Columbia. This award reflects the Faculty of Forestry's commitment to being a leading centre for graduate education and research in forestry in the world. The award acknowledges the outstanding support that our faculty and staff provide to our graduate students, and the rich academic experience that they receive. The Faculty of Forestry Graduate Program initiated annual progress checks on all graduate students and exit interviews with departing graduate students, reflecting our commitment to continuous improvements.

The new Graduate Fellowship in Sustainable Forestry, sponsored by the Koerner Foundation, was established this year and awarded to Louise Blight (Ph.D. student with Peter Arcese). The purpose of the Fellowship is to encourage the best and brightest scholars to pursue research careers that contribute to the sustainability of our forests, and the forest sector in general, as well

as the promotion of the best silvicultural and environmental practices.

Several new provincial graduate student scholarship programs began this year; Pacific Century, Pacific Leaders and Accelerate BC; Faculty of Forestry graduate students were successful in each of these programs. The UBC Ph.D. tuition award began being phased out in 2008. The Faculty of Forestry established a new program of Strategic Recruitment Fellowships to ensure that we continue to attract the best and brightest students from around the world. Endowed, merit-based, awards continue to be a vital resource for supporting our graduate students.

Forty students presented their research at the Faculty's Celebrate Research Poster Night and awards for outstanding posters were presented to Babita Bains, Colin Huebert, and Simon Moreira Munoz. Sierra Curtis-McLane received the Graduate Teaching Assistant Award and Dr. Nicholas Coops received our inaugural Graduate Student Mentoring Award.

The Forestry Graduate Student Association (FGSA) was very active this year. They organized a welcome back get-together, wine and cheese social, Halloween party, a musical 'coffee house' and a documentary movie night. The FGSA also launched a Global Tea House talk series which provides graduate students the opportunity to present a talk on their culture, interests and experiences. The FGSA encourages grad student participation in intramural and sporting events by subsidizing the cost of team registration and advertising sporting opportunities on campus. The FGSA also introduced a Sustainability Coordinator position this year, which is responsible for facilitating waste management for all FGSA events. The FGSA executive and representatives are Pooria Assadi, Toktam Sajedi, Parisa Zaini, Aya Murakami, Angeline Gough, Alyson McHugh, Rob Sianchuk, Sam Coggins, Trevor Jones, Leah Rathbun, and Ian Dalmeyer.

The Faculty of Forestry offered several new professional development workshops for graduate students: How to Write a Successful Scholarship Application (Dr. Kathy Martin); Preparing a Teaching Dossier (Dr. Simon Ellis); Manuscript Submission and the Peer-Review Process (Dr. Rob Kozak); and Ethics and Integrity in Scientific Research (Dr. Tom Sullivan). Drs. Scott Hinch and Sally Aitken presented a workshop on "What is Graduate Studies" for forestry undergraduate students. Our graduate students also benefited from graduate skills training courses in oral presentation and technical writing offered by Dr. Susan Watts.

GRADUATE STUDENTS

SCHOLARSHIPS AND FELLOWSHIPS

Doctoral Students

Alexiadis, Pavlos	TIMBERWEST FRM, MCPHEE
Amoroso, Mariano	UGF
Barker, Jason	WELWOOD WHITTALL
Bennett, Joseph	NSERC CGS
Blight, Louise	GFSF
Branton, Margaret	UGF PACIFIC CENTURY
Brooks, Denise	UGF
Brooks, Jessica	PACIFIC LEADERS
Camfield, Alaine	UGF
Campbell, Jocelyn	NSERC CGS
Canam, Thomas	NSERC PGS
Chamberlain, Brent	MCPHEE
Chandler, Julia	FSP
Chen, Yue	UGF
Chi, Faustino	COMMONWEALTH
Cockle, Kristina	UGF KILLAM, LINDBERGH
Coggins, Sam	VANDUSEN
Coleman, Heather	UGF
Crossin, Glenn	NSERC CGS
Curtis-McLane, Sierra	UGF SIMONS, GTA
Del Rio, Luis	JOHAL
Deslippe, Julie	NSERC PGS
DeWaard, Jeremy	NSERC CGS, FSP
Dimitriu, Pedro	BASSETT
Dordel, Julia	BASSETT
Farnden, Craig	SMITH, FMIBC
Floyd, William	NSERC PGS
Gonzales, Emily	MCPHEE
Hajjar, Reem	AFFLECK, CANFOR, UGF PACIFIC CENTURY
Hamilton, Jill	NSERC CGS, SRF
Hember, Robbie	FSP
Hilker, Thomas	DAAD
Holliday, Jason	NSERC PGS
Hruska, Kimberly	UGF PACIFIC CENTURY
Innerd, Andrew	NSERC IPS
Jack, David	CHISHOLM
Jeffries, Kenneth	NSERC PGS, UGF GES
Kirby, Kathryn	NSERC PGS, UGF KILLAM
Lazarescu, Ciprian	UGF
Manceur, Ameer	UGF GES
Massoumi-Alamouti, Sepideh	NSERC PGS
McDonnell, Lisa	VANDUSEN
McGuigan, Erin	UGF
Norris, Andrea	NSERC PGS, FSP
Qin, Wenjuan	NSERC IPS
Rathbun, Leah	MCPHEE
Ristea, Catalin	WELWOOD

ACCELERATE BC Graduate Research Internship Program
 George S. **ALLEN** Memorial Scholarship
 Edward W. **BASSETT** Memorial Scholarship in Reforestation
 Don **BUCKLAND** Memorial Scholarship in Forest Pathology
CANFOR Corporation Fellowship in Forest Ecosystem Management
 Hugh Robert Duncan **CHISHOLM** Scholarship in Forestry
 Ralph and Elizabeth **COCHRAN** Scholarship
COMMONWEALTH Scholarship
 Deutscher Akademischer Austausch Dienst.
 Forest Management Institute of British Columbia
 Forest Science Program Graduate Student Pilot Project
 Graduate Fellowship in Sustainable Forestry
 Braham G. **GRIFFITH** Memorial Scholarship in Forest Resources Management
 Graduate Teaching Assistant Teaching Award
 Brenda **HANSON** Memorial Scholarship in Forestry
 Paul **HELLER** Fellowship

Bert **HOFFMEISTER** Scholarship in Forest Wildlife
IMAJO
 Asa **JOHAL** Graduate Fellowship in Forestry
LINDBERGH Foundation Grant
LUMBER Inspector's Benevolent Society Scholarship
 Donald S. **MCPHEE** Fellowships
NAMKOONG Family Fellowship in Forest Sciences
 Natural Sciences and Engineering Research Council of Canada
NSERC Canada Graduate Scholarships
NSERC Post Graduate Scholarships
NSERC Industrial Postgraduate Scholarships
NSERC Top Up Supplements
PACIFIC LEADERS Graduate Student Fellowships
 Celebrate Research Week **POSTER** Winners (1st, 2nd, 3rd)
 J. Harry G. **SMITH** Scholarship in Forest Resources Management
SOPRON Alumni Fellowship
 Faculty of Forestry Strategic Recruitment Fellowships

TIMBERWEST Forest Limited Fellowship in Forest Resources Management and Planning
TIMBERWEST Forest Limited Fellowship in Forest Sciences
 University of B.C. Graduate Fellowships
 University of B.C. Graduate Fellowships – Graduate Entrance Scholarships
 University of B.C. Graduate Fellowships – **KILLAM** Predoctoral Scholarships
 University of B.C. Graduate Fellowships – **PACIFIC CENTURY** Graduate Scholarships
 University of B.C. Graduate Fellowships – **SIMONS** Foundation Doctoral Scholarships
 University of B.C. Graduate Fellowships – **ST. JOHN'S COLLEGE** Fellowships
VANDUSEN Graduate Fellowships in Forestry
 Adrian **WEBER** Memorial Scholarship in Forest Ecology
WELWOOD of Canada Limited Scholarship in Forestry
WELWOOD of Canada Ltd. H. Richard **WHITTALL** Scholarship

Rosin, Klemens	UGF ST JOHN'S COLLEGE
Sajedi, Toktam	ACCELERATE BC
Schwab, Olaf	MCPHEE
Spetic, Wellington	UGF PACIFIC CENTURY
Tannert, Thomas	MCPHEE
Teste, Francois	FSP
Timko, Joleen	NAMKOONG
Unda, Faride	NSERC PGS
Vahid, Saba	HELLER, HANSON, LUMBER
Vidal, Natalia	UGF
Waeber, Patrick	UGF
Wilson, Amy	UGF, HOFFMEISTER
Wilson, Scott	UGF, HOFFMEISTER
Wright, Shannon	NSERC IPS
Zaini, Parisa	MCPHEE

Masters Students

Adams, Seth	TIMBERWEST FS
Bains, Babita	POSTER (1st)
Bater, Christopher	NSERC PGS
Baumber, Stephen	MCPHEE
Blair, Timothy	NSERC CGS
Bravi, Rebecca	NSERC IPS
Brockett, Beth	VANDUSEN, IMAJO
Brooks, Dallin	NSERC IPS
Chau, Jo	MCPHEE
Corriveau, Britt	ALLEN
Davis, Neil	UGF PACIFIC CENTURY
Deguisse, Isabelle	GRIFFITH
Dewi, Meiliana	MCPHEE
Dick, Graeme	NSERC IPS
Gough, Angeline	VANDUSEN
Huebert, Colin	UGF, POSTER (2nd)
Keir, Karolyn	VANDUSEN
Kleiber, Danika	NSERC PGS
Lehnert, Steven	MCPHEE
McHugh, Alyson	MCPHEE
Moreira-Munoz, Simon	POSTER (3rd)
Mortyn, Joel	SOPRON, COCHRAN
Noel, Natalie	UGF GES
Pointeau, Virginie	WEBER
Read, Wolf	UGF GES
Roscoe, David	NSERC CGS, NSERC TUS
Sam-Brew, Solace	UGF GES
Sheldon, Kim	UGF GES
Shen, Joyce	ACCELERATE BC
Smiley, Bryce	VANDUSEN
Suzuki, Yoriko	UGF GES, MCPHEE



Photo: Ionut Aron

Degrees Conferred, May 2007 and November 2007 Congregations

M.A.Sc.

MOHADEVAN, Nahulesalingham

Dr. F. Lam

New Construction of Glulam Beams in Canada

SCHMIDT, Daniel

Drs. F. Lam and H. Prion

Using Neural Networks to Predict Subterranean Termite Hazard in China

M.Sc.

ANASTAS, Hiba

Drs. D. Barrett and F. Lam

Experimental Evaluation of Manufacturing Parameters on the Structural Performance of Rounded Dovetail Connections

ASKEW, Sue

Dr. B. van der Kamp

Assessment of *Colletotrichum gloeosporioides* as a Biological Control of Hemlock Dwarf Mistletoe (*Areceuthobium tsugense*)

BEST, Rebecca

Dr. P. Arcese

Exotic Herbivores Facilitate the Exotic Grasses They Graze: Mechanisms for an Unexpected "Invasional Meltdown"

BOLDOR, Marius

Dr. H. Kimmins

A Field and Simulation Study of the Initiation Phase in Douglas-fir Plantations

BUSCHHAUS, Hannah

Dr. R. Guy

15-N Discrimination as an Indicator of Nitrogen Dynamics in *Populus trichocarpa*

CARTER, Hugh

Dr. P. Marshall

An Assessment of Variable Radius Plot Sampling Techniques for Measuring Change Over Time: A Simulation Study

CATTON, Bruce

Dr. P. Arcese

Winter Use and Habitat Selection of Moose in Openings and Adjacent Upland Forested Habitats

CHAMBERLAIN, Brent

Dr. M. Meitner

Evolutionary Automata for Visual Resource Management Planning and Harvest Design

DARADICK, Shannon

Dr. S. Grayston

Soil Microbial Enzyme Activity and Nutrient Availability in Response to Green Tree Retention Harvesting

FORSYTH, Jason

Dr. G. Bull

The Balance of Power: Assessing Conflict and Collaboration in Aboriginal Forest Management

GONZALEZ, Julian

Dr. M. Meitner

The Emergence of Sustainability: Culture Shift and the Transformation of Worldviews Through Social Learning

JEWELL, Kelly

Dr. P. Arcese

Landscape Analysis of Distribution and Demographic Consequences in a Brood Parasite-Host System

KANDA, Tsuyoshi

Forests & Society (essay)

The Fundamental Differences Between Sustainable Forest Management and Community Forestry in the Developing World

KOREHEI, Reza

Dr. J. Kadla

Effect of Non-Solvent on Viscoelastic and Microstructural Properties of Cellulose Acetate in a Ternary System

MURRAY, Sonia

Dr. J. Innes

Fish Assemblage Patterns and Risks Posed by Acidic Deposition in Northeastern British Columbia

NADEAU, Patrick

Dr. S. Hinch

Parental Contributions to the Early Life History Traits of Juvenile Sockeye Salmon (*Oncorhynchus nerka*): The Roles of Spawner Identity and Migratory Experience

NORRIS, Andrea

Dr. K. Martin

Population Responses of Two Cavity-Nesting Species to Changes in Habitat Condition and Nest Web Community Dynamics in Interior British Columbia

OATEN, Dustin

Dr. J. Nelson

Biodiversity Within Dry Forests of the Interior of British Columbia: The Role of Aspen and Stand Structure

REISS, Aya

Dr. J. Richardson

The Invertebrate Connection: Tracing the Value of Food Subsidies from Fishless Headwaters to Downstream Fish Populations

ROBLES, Daniel

Dr. K. Lyons (essay)

Carbon Credits: Its Implications in Local Communities' Incomes and Sustainable Forest Management

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UBC'S STRATEGIC PLAN, TREK 2010, outlines how UBC should prepare students to become active global citizens: "In a world where countries are increasingly interdependent, we share a common responsibility to protect and conserve natural resources, promote global health and well-being, and foster international co-operation". This is the vision that guides the international program at the Faculty of Forestry. Our Faculty is recognised as one of the top-tier leaders in forestry and resource conservation education globally. Our graduates are working in all parts of the world, be it at the United Nations Food and Agriculture Organization in Rome or in a small village in South-western China. Our faculty members are expanding UBC's role in international development, ranging from helping to protect forests in eastern Afghanistan to controlling illegal logging in Central Africa. We are influencing international policies through advisory roles in various international organizations. And as a faculty, we demonstrate leadership in internationally promoting, improving and communicating advancements in forestry education and research by hosting the secretariat of an international network of forestry education institutions.

In February 2008, we welcomed Dr. Hosny El-Lakany as our new Director of International Forestry. Dr. El-Lakany is a UBC alumnus and an Adjunct Professor at our faculty. He is the former Assistant Director-General of the Food and Agriculture Organization (FAO)/Head of the Forestry Department and continues to play a leading role in many key international processes and institutions relevant to forestry. He replaces Dr. John Innes as director. We thank John for his many initiatives and hard work in the past five years. Dr. El-Lakany is supported by Mr. Jorma Neuvonen, who replaced Ms. Sandra Schinnerl as Director of Special Projects. Ms. Chiara Longhi, Coordinator of International Recruitment, continues to manage the international student program and facilitates our international undergraduate student recruitment program. Ms. Gayle Kosh, Manager of Graduate Programs, leads the graduate program administration, including international graduate students.

International Events

"Our Common Ground" An International Land and Resource Management Symposium was organized by the Faculty on May 7th – 9th in association with the WWF Canada and Forest Innovation Investment. The symposium brought together over 150 delegates from around the world to discuss new approaches, share best practices and to explore how collective experiences might inform new processes to transform discussion on participatory land use planning into action. This

successful symposium was a good demonstration of UBC aspirations in becoming a global university.

This year marked the 50th anniversary of the 'adoption' of over 200 students and faculty from the Sopron School of Forestry by the University of BC when they were forced to flee Hungary during the Soviet invasion. A celebration to commemorate the Soproners' arrival in Canada, to recognize their achievements and the special part they have played in UBC's history, was held on June 14–16, 2007. Sopron alumni have made a lasting contribution to forest practices in British Columbia, influencing how this significant natural resource is managed.

International Students and Student Exchange

UBC's Faculty of Forestry is one of the most culturally-diverse faculties at UBC. Both our undergraduate and graduate programs attract students around the world and our international numbers are increasing:

Year	02/03	03/04	04/05	05/06	06/07	07/08
International Students						
Undergraduate	12	21	28	43	45	57
Graduate	74	75	90	111	121	138

Currently international students comprise 11% of the all undergraduate students (representing 10 countries) and 52% of all graduate students (representing 36 countries). We continue our efforts to make international students more aware of what our Faculty has to offer through participation in international recruitment activities, including fairs throughout the Pacific Northwest and Europe, with plans to expand to Asia if funding for recruiting activities can be secured.

We offer students many opportunities for foreign exchange; our undergraduate and graduate students can select from 155 institutions in 50 countries that UBC has formal agreements with. During the past year, seven of our students went on exchange to Australia, Norway, New Zealand and South Africa. We hosted 30 international exchange/visiting students from 13 different universities in 9 different countries, including Australia, Denmark, Finland, Germany, Japan, New Zealand, Sweden and the United Kingdom. There is still a marked imbalance between outgoing and incoming students, but we foresee that the revised forestry undergraduate curricula with more elective freedom and the new Global Perspectives major (with mandatory foreign exchange) in our Natural Resources Conservation program, will improve this situation.

This was the last year of the TRANSFOR Program (Transatlantic Education for Globally Sustainable Forests) and we hosted 15 students for

the Canadian field course and sent three students to our partners in Europe for the European field course. We are grateful to Dr. Bruce Larson for playing a major role in making this program successful.

International Collaboration

We have continued to develop strong links with universities and research institutions in China. This year we had a large number of delegations visiting our Faculty. These groups included the China State Forestry Administration, the China Society of Forestry, the Chinese Academy of Forestry and the University of Tibet. Some of these visits were educational, informing visitors about Canadian forest management practices, and others aimed to develop closer institutional ties to enhance collaboration in education and research. We signed a new Memorandum of Understanding with the Chinese Academy of Forestry, which increases our formal partnerships with Chinese institutions to thirteen in total.

Our joint program with the Nanjing Forestry University was approved last year by the UBC senate. In this program, Chinese students will spend the first two years of their degree program in Nanjing and will then transfer to the Faculty of Forestry at UBC for their third and fourth years. During a trial period, the number of students is being restricted to ten in our Forest Operations and our Forest Resources Management programs but, if successful, we anticipate expanding the number of students and also including other Chinese forestry universities. This year we have been working on the final agreements and arrangements with Nanjing in order to have first students arriving at UBC in September 2008.

Plans to organize the Olympic Forestry Education Symposia for 2008 and 2010, in Beijing and Vancouver respectively were set in motion this year. These symposia will bring together senior level administrators of Chinese and Canadian forestry education institutions and other international organizations to discuss problems facing post-secondary forestry education and other issues of mutual interest. We are organizing these events jointly with the China Education Association of Forestry, the Beijing Forestry University and the International Partnership for Forestry Education. The Beijing symposium will take place on December 7-11, 2008.

International Partnership for Forestry Education (IPFE)

The idea of developing a new partnership for forestry education emerged from discussions at our Faculty's 50th anniversary celebrations in December 2001. The International Partnership for Forestry Education (IPFE, <http://www.ipfe.fi/>) was officially established in 2006, when the governance and leadership structure was agreed to by founding

organizations. Our Faculty has a leadership role in IPFE through Dr. H. El-Lakany as an elected Chair and by hosting the secretariat jointly with the University of Joensuu in Finland. IPFE's mission is defined as "a global network to assist university-level forestry education to meet society's needs. IPFE facilitates partnerships between university forestry educators and other relevant institutions to jointly improve the quality and relevance of forestry education programs".

IPFE's priorities are consistent with the UBC TREK 2010 academic and strategic goals to improve under-graduate learning, graduate and professional education and research, and directly address the goals of international learning and global service. IPFE will assist its partners in sharing experiences with curricula, teaching methods and connecting with various educational networks in North and South America, Europe, Asia and Africa. Specifically,

- IPFE's information portal (www.ipfe.info) is the principal international site for information about forestry and resource conservation education institutions and activities globally. This will further enhance UBC Forestry's strong international profile and help attract quality undergraduate and graduate students to UBC;
- IPFE is organizing a series of regional forestry education workshops. The first, focusing on Africa, was held in September 2007 in Nairobi; others will follow in South America (April 2008) and Asia (April 2008). These workshops will further catalyse relationships between forestry educators, and both reinforce and broaden UBC Forestry's connections with forestry and resource conservation institutions globally – with benefits for research and teaching collaboration, and associated funding and student opportunities;
- IPFE-facilitated inter-university partnerships will increase opportunities for student participation in international projects and study abroad programs, as well as develop a greater awareness of their responsibilities as global citizens. IPFE is collaborating with IFSA (International Forestry Students Association).
- IPFE is participating in developing an international course, "Global Leadership in Forestry", which is intended to engage the next generation of leaders in the forestry sector; the program will involve UBC Faculty members and enhance the profile of UBC Forestry to outstanding prospective students;
- IPFE will link with international forestry and resource conservation research centres and networks, thus strengthening UBC's relationships with these organizations and enhancing collaborative research.

FIRST NATIONS FORESTRY



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FOR MORE THAN 14 years, the Faculty has been developing and implementing its First Nations strategy. Starting with recognition of the increasing importance of British Columbia's First Nations in the forest sector, the strategy is expanding to include the importance of indigenous peoples in all aspects of ecosystem management, including conservation policy, land use planning, and park co-management.

Today, in British Columbia, the need for First Nations involvement in forested land activities has never been more evident. In November 2004, the Canadian Supreme Court ruled in the Haida and Taku cases that First Nations must be consulted at a strategic level in forestry management. In spite of its view, the Court issued no injunction, and in late May, 2005, the Haida Nation, along with non-Haida community members, blockaded forest operations on Haida Gwaii in protest of actions they felt did not adequately address the public concerns or Aboriginal rights on the island.

These and other events contributed to Premier Campbell's decision to enter into a "New Relationship" with First Nations in BC. Leaders of the First Nations Summit and the Union of BC Indian Chiefs agreed to work on developing the New Relationship. A New Relationship document described the new BC Government's intent to establish new legislation and policy affecting First Nations rights and access to traditional territories.

Although the extent of the practical effect of the New Relationship remains to be determined, First Nations are gaining greater access to forest resources through Forest and Range Agreements, the new Forest and Range Opportunities, and other Interim Measures Agreements. Although many of the tenures are non-replaceable or have other drawbacks, progress appears to be occurring. The Forest Sciences Board, for instance, has increased its support for research desired by First Nations.

The challenge remains to increase the number of First Nation Registered Professional Foresters and land managers. The UBC Faculty of Forestry wishes to provide assistance to First Nations and the wider forest community in order to meet these challenges and opportunities through its First Nations strategy.

Below is an abbreviated list of achievements over the past year. They are a reflection of strategies and efforts employed to maintain established relationships while fostering new ones.

ACHIEVEMENTS IN 2007 – 08

- With financial support from the Ministry of Forests and Range, the First Nations Council of Advisors and the Faculty we were able to hire Dr. Garth Greskiw to manage the implementation of our First Nations strategy, "Furthering Aboriginal Forestry: A Strategic Plan for 2007 – 2010."
- Garth also facilitates the delivery of a newly established collaborative University Investment Funded (UIF) Forestry Project "Bridging and Supporting Aboriginal Students in UBC Science Programs" with the Faculty of Education and the Department of Curriculum Studies.
- Dr. Ronald Trosper from the Salish and Kootenai Tribes of the Flathead Reservation, Montana, began his fourth year in the Faculty as Associate Professor of Aboriginal Forestry, continuing to teach the graduate course FRST522, "Indigenous Peoples and Forest Land Management," and the undergraduate course CONS 370, "Perspectives on First Nations and Forest Lands." This year he also taught the Core Seminar for Forests and Society. The topic was "Governing the Rainforests of Home: A Comparative Analysis"
- A total of nine undergraduate and two graduate Aboriginal students were enrolled in forestry programs in 2007-2008.
- In 2005, the Faculty and Malaspina University College formally created the First Nations Bridging and Laddering Partnership to offer the first two years of the B.S.F. degree program for block credit transfer to UBC. We continue to implement this partnership.
- Ronald Trosper, as chair of the Research Advisory Board for the Centre for Native Policy and Research, also served on its Board of Directors.
- This year, in coordination with the First Nations coordinator for the Faculty of Science and the Faculty of Land and Food Systems, we continued to implement an award from the Teaching, Learning and Enhancement Fund to develop a pilot math program for forestry students, including Aboriginal students enrolled in other science-based programs.
- Dr. Trosper published a paper based on a research project funded by the Sustainable Forest Management Network, "First Nations and Sustainable Forestry: Institutional Conditions for Success." The project focused upon the factors affecting the success of joint ventures involving First Nations, and other similar arrangements, in the forestry sector. He also published a paper, "Indigenous Influences of Forest Management on the Menominee Indian Reservation."

- Dr. Trosper is a co-investigator on a continuing project, "A Participatory Approach to Aboriginal Tenure Reform in Canada." The Carrier-Sekani Tribal Council and Stellaquo First Nations are participants in this project, which examines Aboriginal tenures and governance.
- Dr. Trosper continued two research projects. One, funded by the Social Science and Humanities Research Council, supports graduate student Kyle Bateson in work with his band, the Missanabie Cree First Nation of Ontario. The second, funded by the Forest Sciences Program, examines the meaning of criteria and indicator frameworks for First Nations communities. Dr. John Innes is a collaborator on the second project.
- Dr. Trosper continues as the North American focal point for the Task Force on Traditional Forest Knowledge of the International Union of Forest Research Organizations. He also served on the organizing committee for the Sharing Indigenous Knowledge conference in Green Bay, Wisconsin in June, 2007.
- Dr. Trosper served as Faculty coordinator for the new graduate program in Forests and Society. Students can pursue a masters degree either with a thesis or with a professional paper. This program provides ways to study indigenous forestry at the graduate level. Further information is available on the web at www.forestry.ubc.ca/forsoc/

PLANS FOR 2008 – 09

Efforts in 2008 – 2009 will be directed toward funding and implementing the new Strategic Plan.

The new Vision of the plan is as follows:

Guided by indigenous values, and in partnership with all British Columbians, the UBC Faculty of Forestry will be a global leader in indigenous forest stewardship, and the building and sharing of forest knowledge for future generations through exceptional learning experiences.

The new Mission is as follows:

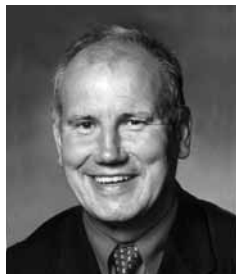
The Faculty of Forestry will work with the indigenous peoples of British Columbia and throughout the world to enhance participation and success of Aboriginal people in the forest sector, broadly defined.

The new plan contains specific targets organized by each of the categories of UBC's Trek 2010 Vision of the Future: People, Learning, Research, Community and Internationalization.

First Nations Council of Advisors

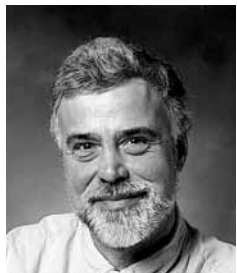
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Gordon Prest	FNCOA Co-Chair, Sto:lo
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Peter Marshall	Professor & Associate Dean of Forestry, UBC
Bruce Larson	Professor & Head FRM, UBC
Richard Vedan	Associate Professor, Social Work & Family Studies, Director, UBC First Nations House of Learning
Lyle Mueller	Aboriginal Programs Coordinator UBC Okanagan
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Debbie Miller	Treaty Officer, Katzie First Nation
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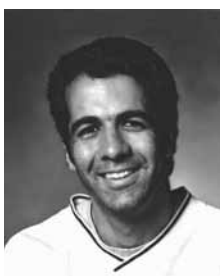
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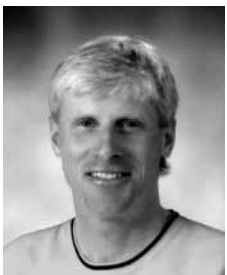
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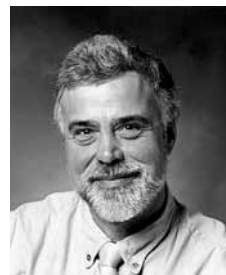
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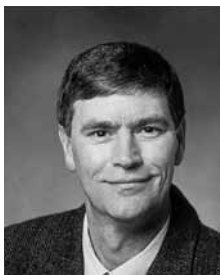
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PROMOTIONS

- Dr. Michael Meitner was promoted to Associate Professor with tenure, July 2007.
- Dr. Thomas Maness was promoted to Professor, July 2007.
- Dr. Dan Moore was promoted to Professor, July 2007.

RESIGNATION

Dr. Markus Weiler resigned effective February 29, 2008 to take up a prestigious appointment at Freiburg University, Germany. He will be appointed as an Adjunct Professor with Forest Resources Management for one year.

NEW APPOINTMENT

Dr. Harry Nelson has joined the department as an Assistant Professor. Harry worked as a Research Associate both in the department and at the Forest and Economics Policy Analysis Research Unit (FEPA) at the Faculty of Forestry for the past seven years. Harry has a Ph. D. in forest economics and a Master's in public policy from Harvard. His research interests are in resource economics and policy and he has written extensively on current issues in forestry and their relationship to Canadian forest policies. Dr. Nelson can be reached at 604-827-3478 or harry.nelson@ubc.ca.

ACHIEVEMENTS IN 2007 – 08

- Dr. John Innes and Adjunct Professor Dr. Stewart Cohen, as members of the Intergovernmental Panel on Climate Change (IPCC), were awarded a share of the Nobel Peace Prize for 2007.
- Dr. Harry Nelson was appointed as a grant-tenure-track Assistant Professor in the area of Forest Economics.
- We made considerable progress in our plans to revise the BSF curriculum.
- Drs. Alila, Coops, LeMay, Lyons, Meitner, Nelson, Sheppard and Weiler received ongoing NSERC funding.
- Drs. Innes, Trospen and Sheppard received new SSHRC grants.
- Drs. Innes, Larson and Trospen received new SFM funding, while Drs. Maness, Trospen and Weiler received ongoing SFM funding.
- Drs. Alila, Coops, Hoberg, Innes, LeMay, Lyons, Marshall, Trospen and Weiler received FSP funding.
- Dr. Ron Trospen received University Investment Funds to support a study on bridging and supporting aboriginal students in UBC science programs.
- Dr. Harry Nelson started a successful Brown Bag speaker series.
- Relocated three members of Adaptation and Impacts Research Division (AIRD) (Environment Canada) to the Forest Science Centre to encourage collaboration, Stewart Cohen, Robin Bing Rong, and Yongyuan Yin.
- Continued working on building closer links with FERIC and the new FPInnovations.

PLANS FOR 2008 – 09

- Anticipate starting the implementation of B.S.F. curriculum revisions.
- Anticipate the first students for the 2 plus 2 program with Nanjing University.
- Appoint a Forest Hydrologist to replace Dr. Markus Weiler.
- Appoint a Tier 1 Canada Research Chair in Natural Resource Economics.

THE BC FORUM on Forest Economics and Policy is a research and education institute that serves as a locus for discussion between stakeholders in academia, government, industry, First Nations, communities, NGOs and interested citizens to address key issues facing the forest sector.

Our mission is to examine critical forest sector issues, stimulate discussion and conduct focused, unbiased scientific research on the land management, industry competitiveness, and economic sustainability of the BC forest sector. The primary objective of the BC Forum is to influence forest policy with rigorous research and extension, and to do so in a way that keeps the public and stakeholders informed and part of the solution process.

RESEARCH

With limited funds and great uncertainty in the forest sector, the organization continued to focus on its two key programs: forest tenure and land management, and competitiveness. There is common agreement among stakeholders that land tenure is a critical competitiveness issue in British Columbia and that change is needed in BC's forest tenure and land management systems. This work is complemented by research to identify new ways that BC forest product firms create value for their owners and in the way that public forest values are managed over the long term.

The Forum worked to synthesize results from the many papers and events from the past 2 years as a platform for moving forward with its next phase of research.

Proceedings and Reports

- Creating New Opportunities: Forest Tenure and Land Management in BC, November 2006 Proceedings
- Forest Sector Competitiveness: Finding a Pathway to Renewal, June 2007 Proceedings
- Innovation in the Forest Products Sector: November 2007 Proceedings

The above publications are available from www.bc-forum.org/_media

OUTREACH

Public events are intended to both inform stakeholders and the general public of the critical issues facing the BC forest sector and to stimulate dialogue and exchange of ideas.

Symposia

In June 2007 the Forum, in partnership with the Forest Products Association of Canada, hosted a symposium entitled "Forest Sector Competitiveness: Finding a Pathway to Renewal". Over 110 participants from the forest industry, government, First Nations, banking sector, academia, communities, and NGOs attended. The event featured presentations on the latest thinking and analysis on global competition and competitiveness of the Canadian forest sector as well as on emerging issues related to climate change and energy.

Distinguished Lecture Series

The lecture series brought together researchers, business leaders, and other stakeholders to promote dialogue and discussion on:

- Innovation in the Global Forest Sector. Eric Hansen, Oregon State University
- Economic Performance of a Government Controlled Stumpage System. Shashi Kant, University of Toronto
- The Softwood Lumber War: a US-Canadian Trade Dispute. Daowei Zhang, Auburn University

Issue Workshops

A new BC Forum program for 2007-08, the Issue Workshop proved to be an effective way to bring together decision makers, researchers and stakeholder to explore some specific issues and challenges in the BC forest sector. Over 160 people participated in the Forum's workshops.

- Innovation in the Forest Products Sector – November 8, 2007
- Our Changing Climate: What Does it Mean for BC's Forests, Communities, and Economy? – March 11, 2008

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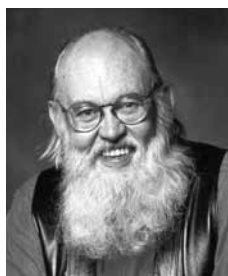
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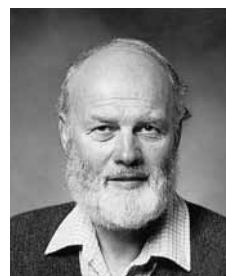
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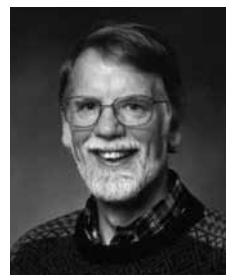
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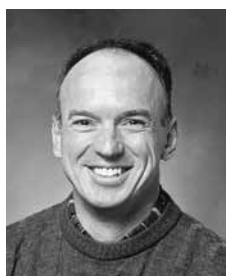
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(B.C. Ministry of Forests & Range)
B.Sc., M.Sc., Ph.D.
Advanced Generation Seed Orchards

STRONG, Willard
(B.C. Ministry of Forests & Range)
B.Sc., M.Sc., Ph.D.
Forest Entomology

YANCHUK, Alvin
(B.C. Ministry of Forests & Range)
B.Sc., M.Sc., Ph.D.
Gene Conservation

Faculty Associates

DURALL, Daniel
(Okanagan University College)
B.Sc., Ph.D.
Mycorrhizal Ecology

CLEMENTS, David
(Trinity Western University)
B.Sc., Ph.D.
Weed Ecologies

Professors Emeriti

KLINKA, K.
Professor Emeritus (2002)

LAVENDER, D.P.
Professor Emeritus (1992)

NORTHCOTE, T.G.
Professor Emeritus (1992)

van der KAMP, B.J.
Professor Emeritus (2006)

WEETMAN, G.F.
Professor Emeritus (1998)

WORRALL, J.G.
Associate Professor Emeritus (2003)

Staff

AZAM, Shof ul
B.Sc. (Dhaka), M.Sc. Ag.Sc. (Japan)
Research Assistant/Technician

BERG, Nora
B.Sc. (Alta.)
Research Assistant/Technician

CHAN, Andrea
B.Sc. (Brit. Col.)
Financial Clerk

CHENG, Rosemarie
B.S.I.E. (UP, The Philippines)
Financial Coordinator

CHOURMOUZIS, Christine
B.Sc. (Hons.), M.Sc. (Guelph)
Research Scientist

DEL BEL, Kate
B.Sc. (Guelph), M.Sc. (Cal.)
Research Assistant/Technician

DESCALZO, Rolando
M.P.M., Ph.D. (S. Fraser)
Research Assistant/Technician

GIBSON, Will
B.Sc. (Brit. Col.)
Research Assistant/Technician

HODGES, Norman
B.Sc. (Vic.)
Computer Specialist

HOUDE, Isabelle
B.Sc. (McGill), M.Sc. (Brit. Col.)
Coordinator and Project Manager

KREMSATER, Laurie
B.S.F., M.Sc. (Brit. Col.)
Manager, Sustainable Forestry Project

LIAO, Limin
B.Sc. (Shangsha), M.Sc. (Beijing)
Research Assistant/Technician

LOTTO, Andrew
R.M.O.T. (Malaspina)
Research Assistant/Technician

MATSON, Mona
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Research Assistant/Technician

McKAY, D'Arcy
B.Sc. (SFU)
Research Assistant/Technician

MISCAMPBELL, Allyson
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MOY, Arnold
B.Sc. (Brit. Col.)
GIS Specialist

MUTIA, Christine
B. Admin. (UP, The Philippines)
Financial Clerk

NAUJOKAITIS-LEWIS, Ilona
B.Sc. (Trent), M.R.M. (S. Fraser)
Research Assistant/Technician

PINTO, Xavier
B.Sc. (Lima), M.Sc. (Brit. Col.)
Research Assistant/Technician

ROOTMAN, Susan
Departmental Secretary

SETO, Carrie
B.A. (H.K.)
Administrator

VIOLA, Giuseppina
B.Sc. (L'Aquila)
Research Assistant/Technician

YUEH, Hesther
B.Sc. (McGill)
Research Scientist

Promotion

Dr. John Richardson was promoted to Professor effective July 1, 2007.

Retirements

Dr. Fred Bunnell retired on June 30, 2007. During his 36 years with the Faculty, Fred made a profound contribution in many areas. Fred was appointed Director, Centre for Applied Conservation Biology from 1992 to 2002. He was the incumbent of the Forest Renewal BC Chair in Applied Conservation Biology at UBC from 1996 to 2004. In recognition of his significant scientific contributions Fred received various awards from many national and international organizations. His outstanding achievements in advancing global conservation have brought international recognition and honor to UBC.

In his retirement, Fred will continue to pursue his professional interests.

Dr. Hamish Kimmins retired on December 31, 2007 after 39 years of exemplary service to UBC. He has been very active in the Forest Ecology community since he started at UBC in 1969. His contributions include the development of educational and research tools, practical decision support and scenario analysis tools, and numerous research publications. Forestry students world-wide recognize him as the author of the very successful textbook, *Forest Ecology*. Hamish held a Canada Research Chair (Tier I) from 2001-2007.

Hamish will continue to spend his professional time writing, in speaking engagements, and as a consultant on forestry-related issues.

ACHIEVEMENTS IN 2007 – 08

- Dr. Hinch received the Best Paper award in the journal, *Transactions of the American Fisheries Society* for the paper he co-authored entitled "Effects of changes to river discharge, temperature, and future climates on energetics and mortality of adult migrating Fraser River sockeye salmon."
- Dr. Krzic received two awards for the teaching project "Visual Soil Classification and Identification" They are the AMTEC Award of Merit from the Association for Media and Technology in Education in Canada and the CADE Award of Excellence for Partnership and Collaboration, Honorable Mention from the Canadian Association for Distance Education.
- Dr. Krzic received the North American Colleges and Teachers of Agriculture (NACTA) Teaching Award of Merit, in recognition of dedication towards teaching and teaching improvement.
- Dr. Kurz, as a member of Intergovernmental Panel on Climate Change (IPCC), was awarded a share of the Nobel Peace Prize for 2007.

The Norwegian Nobel Committee awarded the prize in two equal parts to the IPCC and to Albert Arnold (Al) Gore Jr. for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change. Through the scientific reports it has issued over the past two decades, the IPCC has created an ever-broader informed consensus about the connection between human activities and global warming.

- Dr. Kimmins chaired the Sixth North American Forest Ecology Workshop – From Science to Sustainability: Knowing, Understanding and Applying at UBC from June 18-20, 2007.
- Dr. John Richardson helped organize a North American Benthological Society workshop for Taxonomic Certification (along with Environment Canada) on 25 May 2007. He also successfully organized a workshop on Biomonitoring for aquatic resources held at UBC 5 to 6 March 2008.
- Dr. Mitchell organized the IUFRO Section 8.08.02 Wind and Trees Conference at UBC, August 5-9, 2007.
- Drs. Martin and Simard received new NSERC Special Research Opportunity Program Grants. Drs. Grayston, Hinch, Bohlmann, and Hamelin received new NSERC Strategic Grants.
- Drs. Aitken, Arcese, Chanway, El-Kassaby, Gergel, Grayston, Guy, Hinch, Kimmins, Krzic, Martin, Mitchell, Prescott, Richardson and Simard received ongoing NSERC funding.
- Drs. Arcese, Bunnell, Chan-McLeod, Feller, Gergel, Grayston, Haeussler, Hinch, Kimmins, Krzic, Martin, McLean, Mitchell, Richardson, Seely, Simard, Sullivan and Wells were awarded Forest Science Program grants under the Forest Investment Account for a total of \$2,180,536

PLANS FOR 2008 – 09

- Pursue opportunities to maintain our ability to provide outstanding research and education in Forest Entomology and Forest Pathology.
- Maintain high level of proposals to NSERC, FIA and other funding agencies.
- Dr. Martin will organize the Canadian Society of Ecology and Evolution meeting in May 2008.
- Continue joint efforts to revise the undergraduate Forest Resources Management program by injecting increased flexibility in line with changes to forestry programs occurring nationally.

ACHIEVEMENTS AND PLANS

WOOD
SCIENCE
DEPARTMENT



Paul McFarlane
Head



Stavros Avramidis



Colette Breuil



David Cohen



Patrick Cramond



Simon Ellis



Philip Evans



Robert Furst



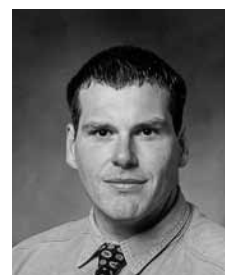
John Kadla



Robert Kozak



Frank Lam



Shawn Mansfield



Helmut Prion



John Ruddick



Jack Saddler



Gregory Smith



Taraneh Sowlati

McFARLANE, Paul N.

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Forest Products Biotechnology

OUJJEHANE, Azzeddine

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Ph.D. (Université Blais Pascal Clermont Ferrand,
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Process Modeling

SARAVI, Albert

B.Sc. (Amir Kabir Univ. of Technology, Iran),
M.Sc. (Sharif Univ. of Technology, Iran), Ph.D.
(Brit. Col.)
Process Control

TSUI, Kin Ming (Clement)

B.Sc., Ph.D. (Hong Kong)
Genomics

WANG, Ye

B.Sc., MSc, Ph.D. (China Agricultural Univ.)
Biochemistry and Molecular biology

YAWALATA, Domingus

Ph.D. (Brit. Col)
Wood Mechanics

Post-doctoral Fellows

ACKOM, Emmanuel

B.Sc. (Hons.) (Ghana), M.Sc., Ph.D. (BTU, Germany)
*Industrial Ecology of Forest Products Manufacturing;
Forest Certification and Chain of Custody*

ALTEYRAC, Jerome

M.Sc., Ph.D. (Laval, Quebec)
Wood Quality Related to Tree Growth Conditions

ANDERSSON-ROOS, Alexandra

M.Sc., Ph.D. (Lund Univ., Sweden)
Forest Product Biotechnology

BAR-NIR, Batia

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Chemistry, Organic Synthesis

BEJTKA, Irenkeusz

Dipl.-Ing., Dr.-Ing (Karlsruhe, Germany)
Civil (Structural) Engineering/Timber Engineering

DAUWE, Rebecca

Ph.D. (Ghent Univ., Belgium)
Plant Metabolomics

GHATORA, Sonia

B.Sc., M.Sc., Ph.D. (Guru Nanak Dev Univ.,
Amritsar, India)
Microbiology and Enzymology

IFUKU, Shinsuke

B.Sc., M.Sc., Ph.D. (Tokyo Univ., Japan)
Cellulose Material Science, Organic Synthesis & Processing

KIM, Yong Sik

B.Sc., M.Sc., (Kangwon Nat. Univ., South Korea),
Ph.D. (Brit. Col.)
Paper Science & Engineering

MAO, Jingliang

M.Sc., Ph.D. (Univ. of Washington, Seattle)
Paper Science & Engineering

PARK, Ji-Young

Ph.D. (Seoul Nat., Korea)
Biotechnology and Chemistry of Wood Fibre

PARK, So Young

B.Sc. (Busan Nat. Univ., Korea), M.Sc., Ph.D.
(Chungbuk Nat. Univ., Korea)
Tree Biotechnology

SALLES, Bruno

Ph.D. (Univ. of Brasilia, Brazil)
Enzymology Applied to Forest Product Biotechnology

SEMPLE, Kate

B.Sc. (Hons.) (Australian National), M.Sc. (Melb.),
Ph.D. (Australian National)
Wood Composites

TU, Maobing

B.A. (Anhui, China), M.Sc. (Tianjun, China),
Ph.D. (East China Univ.), Ph.D. (Brit.Col.)
Bioconversion of Biomass to Ethanol

Visiting Scholars

ACASAS-CORDERO, Carolina

B.S. (Pontificia Univ. Católica de Chile, Chile)
Forestry Engineering

FALLER, Thomas

Student (Univ. of Applied Forestry, Rottenburg, Germany)
Timber and Wood

HUANG, Hao

B. Civil Eng., M. Structural Eng., (Chongqing, China)
Timber Design and Engineering

KRAUSE, Hans

B.Sc., M.Sc. (Diploma), Ph.D. (Kiel, Germany)
Glue Laminated Timber

JIN, Juwan

B.Sc., M.Sc., Ph.D. (Nanjing, China)
OBS from Metasequoia

JOHANSSON, Johanna

Chemical Engineering (Lund Univ., Sweden)
Chemical Engineering, Process Design

LANDBRING, Hanna

Chemical Engineering (Lund Univ., Sweden)
Chemical Engineering, Process Design

PARK, Hee Jun

B.Sc., M.Sc., Ph.D. (Seoul Nat. Univ., Korea)
Forest Products

PENG, Li

B.Sc., M.Sc., Ph.D. (Northern Forestry Univ., China)
Modeling Wood Composite Pressing

PUERGSTALLER, Andreas

Student (Brixen, Italy)
Construction of Multi-Story Buildings/Application of Cross Laminated Timber

TANAKA, Takashi

M.Sc. (Univ. of Tokyo, Japan)
Wood Water Relations

WANG, Liyu

B.Eng., M.Eng. (Northeast Forestry, China), Ph.D. (Beijing)
Non-destructive Grading of Timber

ZHU, Enchun

B.Sc., M.Sc., Ph.D. (Lund Univ., Sweden)
Timber Engineering

Adjunct Professors

BEATSON, Rodger

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Pulp and Paper Chemistry

DAI, Chunping

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GASTON, Chris

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Forest Products Marketing

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Timber Structures

MORRIS, Paul

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Preservation and Protection

OLIVEIRA, Luiz

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B.Sc., M.Sc., Ph.D.
Wood Drying

Professors Emeriti

BARRETT, D.J.

Professor Emeritus (2005)

GARDNER, J.A.

Dean Emeritus (1985)

KENNEDY, R.

Dean Emeritus (1992)

PASZNER, L.

Professor Emeritus (1999)

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CULLIS, Ian

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CHIU, Jason

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CHUNG, Pablo

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GUNTHER, Lawrence

Engineering Technician

HASTINGS, Diana

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LEE, George

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ACHIEVEMENTS AND PLANS

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Technical Facilities Supervisor

LIU, Winifred

B.A. (Brit. Col.)
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MACDONALD, Iain

B.A. (Scotland), M.A. (Brit. Col.)
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B.A. (S. Hampton), M.F.C (Tor.)
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VOSS, Coral

Secretary

WALES, Stuart

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WONG, Debbie

B.Comm. (Brit. Col.)
Senior Financial Clerk

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Research Engineer

YANG, Li

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Research Assistant/Technician

ACHIEVEMENTS IN 2007 – 08

- Several changes were implemented in response to the review of the Department and CAWP that was conducted in late 2006. The activities of the Department and CAWP were linked more closely. The CAWP Management Committee, chaired by Dr. David Cohen, oversaw the activities of CAWP. Mr Iain Macdonald was appointed as the Managing Director of CAWP and support services were strengthened and integrated.
- The Wood Products Processing program achieved an enrolment of 112 undergraduate students with a new student intake of 33.
- The co-op program continued as an integral and highly successful component of the Wood Products Processing program with 52 co-op work terms completed.
- Recruitment activities included: advertisements in the Georgia Straight, Youthink PS and BC Transit buses; participation in 23 education and career events; 23 visits to high schools and colleges; and 36 presentations to 866 students and 26 educators. We liaised closely with prospective students, achieving a 25% increase in applications and the highest number of

applications ever in 2007. The Department also provided increased strategic and operational support for Faculty-wide recruitment.

- The Departmental seminar series was re-established.
- Students from Dr. Greg Smith's wood composites class represented UBC in the BC Wood Works/ Canadian Wood Council engineering design competition. One team placed second in the overall performance category. Other teams won awards for the best team spirit and the best presentation.
- Dr. Jack Saddler was appointed a Fellow of the Royal Society of Canada.
- Dr. Shawn Mansfield was awarded a Sir Frederick MacMaster Fellowship from CSIRO, Australia. He was also appointed a Fellow of the International Academy of Wood Science.
- Dr. Phil Evans was appointed a Visiting Professor at Swedish National Technical Institute (SP Tratek).
- Dr. Robert Kozak was appointed Editor of Journal of Forest Products Business Research. He also received the award for the BC Forest Professional Magazine Best Article of the Year Award and was a co-winner of the Sheth Foundation Best Paper Award.
- Drs. Dai, Kadla and Saddler received new NSERC Operating Grant research funds. Drs. Avramidis, Breuil, Evans, Lam, Mansfield, Ruddick, Smith and Sowlati are receiving ongoing NSERC funding.
- Drs. Avramidis, Evans, and Lam received new funding from the Value-to-Wood program. Drs. Cohen, Evans, Kozak, Lam and Smith are receiving ongoing Value-to-Wood funding.
- Dr. McFarlane received continuing funding from the SFM Network and Dr. Kadla received continuing funding from the Sentinel Network.
- Dr. Evans was on administrative leave from January 2007 to January 2008 and Dr. McFarlane was on administrative leave from July 2007 to January 2008. Dr. Simon Ellis served as Acting Department Head in Dr. McFarlane's absence.

PLANS FOR 2008 – 09

- The activities of the Department and CAWP will continue to be closely coordinated. During the coming year, communication and out-reach activities will be improved.
- An appointment will be made to the BC Leadership Chair in Forest Products Manufacturing Technology.
- A revised structure for the Chair in Wood Building Design and Construction will be implemented.
- Faculty will continue to vigorously pursue diverse funding sources to support wood products research.



Photo: Jamie Myers

CENTRE FOR ADVANCED WOOD PROCESSING



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THE CENTRE FOR ADVANCED WOOD Processing (CAWP) is Canada's national centre for education, extension and research for the advanced wood products industries. The role of CAWP is to provide support to the B.Sc. (Wood Products Processing) (WPP) program in the education and training of students with the capacity to lead and drive change in the industry; offer continuing education and lifelong learning programs aimed at enhancing the skills of existing industry employees; provide technical services to improve the product quality and manufacturing efficiency of SMEs; and to coordinate interdisciplinary applied research. CAWP is funded through an endowment, the CAWP Partnership Program, various project grants, and cost recovery on services.

CAWP is supported by a large number of industrial equipment and technology suppliers, whose in-kind contributions of software, machinery, supplies, and services significantly enhance our facilities and the training and education experiences that CAWP is able to offer. At the end of 2007 CAWP took delivery of a 5-axis CNC machining centre which has been loaned to UBC by SCM Group for a two-year period. The addition of this piece of equipment, plus nine sets of Mastercam computer-aided design and manufacturing software, will enable CAWP to offer new training programs and information sessions on CNC technology for industry learners, as well as to significantly enhance the learning experiences of undergraduate and graduate students and open up new research possibilities. Five companies supported CAWP activities through cash contributions to our industry partnership program in 2007 – these were Goodfellow, Interforest, Stack-A-Shelf, Unison Windows, and Weyerhaeuser.

The CAWP Management Committee was established in 2007 to allow faculty members in the Department of Wood Science to provide greater input into the activities of CAWP, and it has been active on a number of fronts. The technical and administrative staffing of CAWP has been reviewed in detail, resulting in the creation of a new professional (non-Faculty) Managing Director position, which has been filled by Iain Macdonald. Two new technical positions have also been created, with WPP alumnus Vincent Leung joining CAWP as Technical Facilities Supervisor and Lawrence Günther filling the CAWP Lab Technician role. These changes have strengthened our abilities to support practical projects, student work, and research in our advanced wood processing laboratory, thus improving the support provided to WPP courses and enabling a greater number of training programs and technical services to be offered to industry. Since September 2007 SCM technical specialist Gabriel Valladolid has also been based at an office within CAWP.

CAWP receives guidance from an external Advisory Board consisting of senior personnel from the wood products industry across Canada, and in 2007-08 membership and meeting formats were reviewed. Quarterly conference calls are now being held with the Board in order to obtain greater and more frequent advice on CAWP priorities and activities. The new members joining our Board in 2007 were Doug Bowersock (Weyerhaeuser Strand Technologies), Richard Bruckeder (Raywal Kitchens), Bill Downing (Structurlam), and Jim Dunn (Haworth).

Educational Programs

The Wood Products Processing program remains the largest degree program in wood technology/wood science in North America. In 2007-08 there were 52 co-op work terms completed, reflecting a well-balanced geographical distribution across Canada in British Columbia, Alberta, Manitoba, Ontario, New Brunswick, and Saskatchewan. International work terms were completed in Japan, Switzerland, and the United States. In addition to supporting WPP courses, CAWP has provided facilities to support joint project-based courses involving students from Emily Carr Institute and WPP, and has provided facilities for seminars and practical work by UBC's School of Architecture and Landscape Architecture.

Continuing Education, Communication and Extension

CAWP's Industrial Finishing Certificate was ratified by Senate as an official UBC Certificate Program in 2007, and is now being offered annually between January and April. The program, featuring 12 weeks of online study followed by a 6-day practical session at UBC, has attracted professional learners from several provinces of Canada as well as international participants. Work is progressing on a plan to redevelop the UBC Kiln Drying Certificate Program along similar lines.

CAWP carried out a number of product development projects in 2007-08 in which companies were assisted in designing, prototyping and evaluating new products and investments in new technology. Products such as timber-frame gazebos and storage structures were the focus of these projects and, in some cases, co-op students were employed by the client companies to carry out financial and market feasibility studies. Positive outcomes and feedback from these projects has prompted us to promote such services more actively to manufacturers, and website and print-based promotional materials are currently in development.

In the summer of 2007 a mid-term evaluation was carried out of our Canadian International Development Agency (CIDA)-funded capacity-building project in South Africa. The evaluation was extremely positive and cited solid project

management, successful leveraging of CIDA funds, and a strong collaborative relationship between CAWP, its South African university partners, and local industry and government. As in previous years, a number of CAWP staff, WPP students, and faculty associates continued to be involved in curriculum development activities for our CIDA project. Four undergraduate e-learning courses on wood finishing, furniture construction, wood composites, and wood products manufacturing technology have now been completed, as well as an introductory wood products industry training course. By December 2008 further courses on sawmilling, principles of tooling and cutting, wood science, and glues and adhesives are scheduled for completion. A large body of course documents and rich media (videos, animated simulations, diagrams) has been created through this process, and these are being used to enhance undergraduate teaching at UBC. New training programs will shortly be offered for industry based upon the course material. A related initiative to provide training on furniture design in South Africa has developed as a spinoff of the original CIDA project, and funding of approximately \$100,000 has been provided by federal and provincial governments in South Africa for this purpose. This component is being undertaken in partnership with Emily Carr Institute, and will result in the creation of a short course and e-learning course on furniture design that will be offered in Canada in 2008 and 2009 respectively.

In January 2008 CAWP was awarded a contract to develop a web-based management training program and a plant-floor skills train-the-trainer program for the Wood Manufacturing Council (WMC). Both concepts originated at CAWP as proposals by Dr. Thomas Maness, Dr. Robert Kozak and Mr. Ken Wong, and were later adopted and championed by WMC. CAWP was awarded the contract through a competitive bid process, and will be carrying out the work over an 18-month period ending in July 2009. The management program will be developed through a partnership approach, with various UBC faculty members and personnel at BCIT, Conestoga College, Woodworking College of Excellence New Brunswick and WOODMARK each contributing as course authors. In January CAWP also successfully submitted a bid through the UBC University Investment Fund to develop and launch a new online training course for forest industry consultants.

An Open House was held in March 2008 to update industry participants on the programs and services offered by CAWP, as well as to showcase the products and services offered by our many equipment, software and services partners. Over 200 external guests took part in the event, which featured presentations, demonstrations, and tabletop exhibits by a wide range of companies. The popular response

to the event has encouraged us to consider making the event an annual occurrence.

In August 2008 CAWP will once again hold an industry conference on industrial wood finishing in Atlanta prior to the International Woodworking Fair (IWF). This year the event is being held in direct partnership with the organizers of IWFA as well as with Vance Publishing, and it is expected that the strengthened partnership will significantly increase registration in the event.

Research

CAWP's role under an integrated structure with the Department of Wood Science is to act as a conduit between the industry and academic communities in order to ensure that applied research activities within the department and CAWP fully reflect industry needs. CAWP is becoming more active in helping industry find solutions to current competitive challenges by linking them with researchers who may be able to provide avenues for change. To this end the CAWP Advisory Board has expressed support for a round-table event at which industry and CAWP/DWS researchers can discuss R&D needs for the sector, and this will be scheduled within 2008-9.

Six faculty members of the Department of Wood Science continue to receive funding for five research projects from the NRCan-CFS Value-to-Wood program for 2007-09. These projects range from dissemination of corporate social responsibility to exploring new ways of combining wood composites to better utilize Canadian wood resources.

Furthermore, three faculty members have received two new projects for the 2008-09 year under the same scheme. The research themes of these projects range from finishing to building systems and from forest certification and life cycle analysis to advanced wood composites.

PLANS FOR 2008 – 09

- Increase industry support for CAWP by further developing our industry partnership program.
- Actively promote product development services to industry
- Develop a national management training program and a plant-floor skills train-the-trainer program for the Wood Manufacturing Council
- Create a new introductory-level e-learning course on the forest products value chain
- Complete all remaining course development work for the CIDA-funded South African education project
- Hold a fifth wood finishing conference in Atlanta (August 2008)
- Repurpose various existing e-learning courses for use as training programs in Canada
- Hold an industry research forum
- Update and augment the CAWP website to reflect new programs and services being offered

CENTRE FOR ADVANCED WOOD PROCESSING

VISITING AND POST-DOCTORAL FELLOWS

Semple, Kate
(CAWP, UBC)

Weizenegger, Johannes
(Applied Sciences, University
of Biel, Switzerland)

CENTRE ASSOCIATES

Avramidis, Stavros (UBC)

Barrett, David (UBC)

Blyt, Christian
(Emily Carr Institute)

Bramer, Mark
(Conestoga College)

Breuil, Colette (UBC)

Cohen, David (UBC)

Dai, Chunping (Forintek)

Ellis, Simon (UBC)

Evans, Philip (UBC)

Hartley, Ian (UNBC)

Kadla, John (UBC)

Kataoka, Yutaka
(FFPRI, Tsukuba, Japan)

Kiguchi, Makoto
(FFPRI, Tsukuba, Japan)

Köster, Heinz
(Fachhochschule
Rosenheim)

Kozak, Robert (UBC)

Lam, Frank (UBC)

Mai, Carsten
(Univ. of Göttingen)

Maness, Thomas (UBC)

Mansfield, Shawn (UBC)

McFarlane, Paul (UBC)

Militz, Holger
(Univ. of Göttingen)

Morris, Paul (Forintek)

Mortimer, John
(Stellenbosch Univ., S.Africa)

Prion, Helmut (UBC)

Romilly, Douglas (UBC)

Rypstra, Tim
(Stellenbosch Univ., S.Africa)

Schajer, Gary (UBC)

Scholte, David (Consultant)

Smith, Greg (UBC)

Yellowly, Ian (UBC)

CENTRE FOR APPLIED CONSERVATION RESEARCH



Peter Arcese
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Sarah Gergel
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604-827-5163
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**Centre for Applied
Conservation Research**
Forest Sciences Centre
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www.forestry.ubc.ca/conservation

INCREASING DEMAND for natural resources makes the maintenance of healthy, sustainable forests a key challenge for the future. To address this challenge, Dr. Fred Bunnell and Dean Clark Binkley established the Centre for Applied Conservation Biology in 1991. Over the past 16 years, our faculty, post doctoral fellows and graduate students have build a reputation for excellence in biodiversity conservation research. In 2001 we became the Centre for Applied Conservation Research (CACR) under the direction of Dr. John Innes, reflecting a broader mandate to incorporate social and economic issues into applied conservation research. Dr. Peter Arcese and Dr. Sarah Gergel now share CACR directorship and draw from across campus, and other universities, for collaborations improving the conservation of species, ecosystems, and landscapes and the responsible management of natural resources.

HIGHLIGHTS OF 2007 – 08 AND FUTURE EVENTS

Supporting Applied Graduate Student Research

CACR continued in its role of helping oversee a pilot program by FIA-FSP funding applied graduate student research. The initiative was designed to facilitate academic research by graduate students on applied topics in forest science and conservation where interaction with managers is paramount. This program has supported 10 graduate scholars from Simon Fraser University, University of Northern BC and UBC with 1-3 years of base funding. A luncheon and seminar series in early September 2008 will introduce the FSP board and its advisors to the scholars and their progress to date. A fuller description of the FIA-FSP graduate student research scholarship program can be found at: www.cortex.ca/fia-fsp/res-gsp.html.

Recent Interdisciplinary Research

CACR welcomes new research groups into our inter-disciplinary research umbrella in conservation and management. David Tindall and his research team conducted social surveys of the general public and members of environmental organizations across Canada. These SSHRC-funded surveys collected information on Canadians' views about the environment, and their activities related to conservation. In February 2008, related work was presented at the 2008 Berlin Conference on the Human Dimensions of Global Environmental Change, in a talk entitled, "Networks, Social Influence, and Concern about Climate Change: The Effects of Personal Network Ties to Environmentalists on the General Public in Canada."

CACR Post-Doctoral Associates

Several CACR post-doctoral research associates have recently combined talents to identify 'optimal conservation strategies' for migratory species and designation of critical habitat for Species at Risk. Janelle Curtis, Tara Martin, Jordan Rosenfeld (BC MoE), Pippa Sheppard (Parks Canada), Ilona Naujokaitis-Lewis and Peter Arcese continued work to understand the consequences of data quality for the identification of critical habitat, and to guide research, monitoring and land conservation by soliciting input from recovery teams working throughout Canada. Two post-doctoral associates have now successfully launched their careers with research positions with DFO in Nanaimo (Dr. Curtis) and CSIRO in Australia (Dr. Martin).

Workshop: Mapping and Monitoring with First Nations

The Gergel Landscape Ecology Lab hosted a workshop in Haida Gwaii / Queen Charlotte Islands with managers from Haida Mapping, Parks Canada, and Ministry of Forests & Range on using high spatial resolution satellite imagery for discerning forest structure, emphasizing techniques to improve the accuracy of maps used in management. Together, they are developing techniques to improve analysis of high spatial resolution imagery using object-oriented classifiers and historical aerial photographs, and are planning another workshop this summer in Haida Gwaii.

Gergel and Arcese will continue to lead Centre partners to solve interdisciplinary problems in conservation, emphasizing several initiatives for graduate students. The first is a fall symposia designed to highlight the research of our graduate students and post-doctoral associates from diverse disciplinary backgrounds. Please visit us on-line at the CACR website for updates and news on upcoming events: <http://cacr.forestry.ubc.ca/>. Be sure not to miss the next CACR Coffee House, a wildly successful event highlighting the musical, performance, and other creative skills of our members.

Research Groups and Projects

Climate Change and Biodiversity

Fred Bunnell, founder and former director of CACR, and his colleagues continued their work on effects of climate change on biodiversity. Recent findings were presented at the Climate Change and Biodiversity in the Americas conference hosted by the Smithsonian Institute in Panama, where he helped draft the statement for the 28 nations attending.

Sustainable Business Management

Rob Kozak and his lab are developing a framework for the diffusion of corporate social responsibility practices in the forestry sector, identifying hurdles and opportunities for Canadian value-added producers, and exploring conservation-based business and tenure models for forest dependent communities in West and Central Africa.

Wildlife Biodiversity after the Bark Beetle Epidemic

Since 1995, Kathy Martin and students have studied wildlife ecology in the Interior mixed forests that support high biodiversity. Over 40% of wildlife species show significant population trends in relation to forest health with the largest change in resident cavity nesters. Current students will study the impacts on cavity nesters in post-beetle epidemic forests.

Remote Sensing and Biodiversity Monitoring

Nicholas Coops is leading projects applying remote sensing to forest growth and biodiversity issues, including modelling mountain pine beetle damage and mapping biodiversity using satellite data. Of recent interest is the integration of hyperspectral remote sensing and LIDAR data to produce a TEM-based classification of Gulf Islands National Park Reserve in BC.

Belowground Ecosystem Group's Soil Biodiversity Research

Sue Grayston, Cindy Prescott, Suzanne Simard, Chris Chanway and students are exploring the links between the composition and diversity of soil microbial communities and key processes in the cycling of carbon and nutrients in forest ecosystems. Current projects include assessing variable retention harvesting as a tool to maintain soil functions and productivity in coastal forests, fertilizing forests as a means of increasing sequestration of carbon in soil, recreating a functioning forest soil in reclaimed oil sands sites in Alberta, using stable isotope probing to identify keystone species in soil food webs and understanding how soil fauna such as ants and millipedes interact with microbial communities to influence carbon flows and nutrient cycling in BC forests.

Centre for Forest Conservation Genetics

The Centre's mandate is to study population and ecological genetic structure of indigenous forest tree species, assess the current degree of genetic conservation in both nature reserves and collections, and evaluate genetic diversity in populations of forest trees to meet current and future environmental challenges. The CFCG is also the home of the climate model ClimateBC, and is undertaking a variety of research to predict the fate of BC's native tree populations and ecological zones in a rapidly changing climate.

Scenario Modelling and Ecosystem Services

Gary Bull and his group are currently focusing on two areas: addressing equity issues in the markets for ecosystem services (particularly carbon) and domestic/international forest industries manufacturing and trade scenarios. Sarah Gergel and her group have initiated an exploration of scenarios for the Strathcona TSA. They are exploring the implications of routine mapping error on resulting management plans for rare habitats, timber supply and carbon. Hamish Kimmins and his team are using models to conduct tradeoff and scenario analyses for multiple values at the ecosystem level (www.forestry.ubc.ca/ecomodels/).

Salmon Migration and Fish/Forestry Research

Scott Hinch and colleagues are using physiological biopsy telemetry and lab experiments to study salmon migration behaviour and swim performance, and reveal limitations to ocean and river survival. Long-term field experiments in both southern coastal and northern interior regions of BC are being used to study the impacts of riparian forest practices on fish and habitat in small streams, and the processes of recovery.

Sustainable Forest Management Research Laboratory

Led by John Innes, this lab is an interdisciplinary research unit focusing on sustainable forest management through an understanding of both human and natural systems. Research projects in Canada, China, Brazil, Mexico, Australia and South Africa focus on forest certification, criteria and indicators, effectiveness monitoring, climate change, cumulative impact assessment, geomorphologic processes, biodiversity and social and cultural indicators for resource-dependent and First Nation communities.

Conservation Policy

Paul Wood and colleagues' research includes stakeholder interviews to assess views on climate change, insect epidemics, tree breeding, and forest genomics, as well as projects on constitutional law and species-at-risk protection.

The Genetic Data Centre

Directed by Carol Ritland, this group conducts state-of-the art DNA genotyping and sequencing, including projects on coat colour and population structure of Kermode bears, killer whales on the west coast, Alaskan carnivores, western tent caterpillars and social spiders.

Stream and Riparian Research Laboratory

John Richardson continues to lead collaborators on the ecology and management of riparian-stream ecosystems, including the influence of reserve strips, ecology of invertebrates and amphibians, and resource limitation in streams.

UNIVERSITY RESEARCH FORESTS



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THE FACULTY OF FORESTRY operates three Research Forests: The Malcolm Knapp Research Forest near Maple Ridge on the coast, the Alex Fraser Research Forest near Williams Lake in the central interior of BC and the Aleza Lake Research Forest, near Prince George (jointly operated with the University of Northern British Columbia).

The mission of the Research Forests is to support the Faculty of Forestry, other partner universities and research organizations in serving the people of BC through teaching and research. This is accomplished by hosting research from a variety of disciplines in order to create teaching opportunities for students from UBC, other post-secondary institutions and continuing education programs.

The location of the forests, covering eight diverse biogeoclimatic subzones and three tenure systems, offers a variety of research and education opportunities.

ACHIEVEMENTS IN 2007 – 08



MALCOLM KNAPP FOREST

Paul Lawson
B.S.F., M.B.A., R.P.F.
Manager
paul.lawson@ubc.ca

- Initiated 19 new research projects.
- Completed the on-line database of all UBC Research Forest historical photographs.
- Provided major staff assistance and expertise to the Stanley Park Recovery Project, following the December 2006 windstorm.
- Employed two UBC forestry students in 4-month internships and hosted one volunteer intern from Europe.
- Began construction work to replace the original log cabins, the final phase of Loon Lake redevelopment.
- Began design work on new gateway and washroom facilities for the entrance to Loon Lake.
- Increased Loon Lake facility use to 16,000 overnight stays in 2007 from 9,900 in 2003.
- Hosted the Faculty's Spring Field School and Conservation Field School.
- Saw the attendance of 250 children and over 300 volunteers at the fourth Camp Goodtimes held at Loon Lake.
- Cut over 420,000 board feet of lumber at our sawmill facility.
- Completed silviculture surveys on 193 ha, brushing and deer protection installation on 30 ha, planting of 71,124 trees on 51 ha, and a Douglas-fir cone collection.
- Constructed 1,895 m of new roads, and upgraded 4,580 m, including the main road to Loon Lake.
- Permanently deactivated 1,500 m of old railway grade on unstable terrain over the North Alouette River.
- Paul Lawson received the Bill Young Award of Excellence in Integrated Resource Management from the Association of BC Forest Professionals and Association of Professional Biologists of BC.



ALEX FRASER FOREST

Ken Day
B.Sc.F. (Hons.), M.F., R.P.F.
Manager
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- Initiated 15 new research projects.
- Recorded 487 contact days for extension activities with 411 attendees, including Fall Field School.
- Celebrated twentieth anniversary with Alumni and Friends during fall field school.
- Employed one UBC Forestry student, and hosted one international intern.
- Led 16 tours and provided five presentations for international, Canadian and local audiences comprised of researchers, professionals, students and teachers.
- Completed fuel management plan under contract to City of Williams Lake.
- Appointed by City of Williams Lake to prepare application and manage the Williams Lake Community Forest.
- Secured historic weather data in accessible database.
- Improved signage to increase public awareness of the facility.
- Continued silviculture operations with surveys on 8.8 ha, site preparation on 20.5 ha, collection of 525 litres of Douglas-fir cones, and planting of 29,540 seedlings on 23 ha.
- Built 1.7 km of new permanent road, and upgraded 2.6 km of existing road.
- Completed half of the wetland inventory.
- Undertook grassland restoration work on 3.4 ha at the Knife Creek Block with external funding.
- Completed four contract projects for government and industry.
- Conducted fuel management treatments on 11.1 ha.
- Ken Day received the Distinguished Forest Professional Award from the Association of BC Forest Professionals.



ALEZA LAKE FOREST

Michael Jull

B.S.F., M.Sc., R.P.F.

Manager

jullm@unbc.ca

- Initiated 13 new research projects and maintained 25 active / ongoing projects.
- Facilitated UBC research projects on LiDAR remote sensing, and moth populations in different silvicultural systems;
- Initiated a two year regional study of the long-term dynamics of Douglas-fir leave-trees in the SBS biogeoclimatic zone, including sites at the ALRF.
- Undertook 10th-year remeasurements on permanent plots in shelterwood partial-cut stands.
- Recorded 333 contact-days for forest education and extension, including UBC forestry field schools, and graduate and undergraduate programs.
- Employed two students (one forestry and one fish and wildlife) for four months each.
- Led 7 field visits and several presentations for operational, research and technical audiences.
- Funded 2 UNBC seed grants and two UBC travel grants.
- Harvested 77 hectares using conventional systems and 30 hectares using partial cutting systems.
- Planted over 135,000 spruce and Douglas-fir on harvested areas.
- Completed silviculture surveys on 72 ha., and brushing on 18 ha.
- Completed fish habitat surveys on 10 stream reaches.

Research Forests harvesting 2007

	Knapp Forest	Fraser Forest	Aleza Forest	Total
Logging	m ³ 21,032 ha 35	10,064 48	18,842 77	49,938 160
Commercial Thinning/ Partial Cutting	m ³ 218 ha 2	5,729 52	5,800 30	11,747 84
Road Right-of-Way	m ³ 2,562			2,562
Salvage	m ³ 2,256	6,656		8,912

Knapp Forest utilized a variety of harvest methods in 2007 including ground based and helicopter. Silvicultural systems ranged from clearcut with reserves to patch cut and variable retention. Commercial thinning was curtailed due to current market conditions.

Fraser Forest harvesting included stands that had been salvaged during the pine beetle outbreak, to complete harvest of their pine component and

undertake regeneration. Lodgepole pine harvest was less than 25% of total volume in 2007/08, as the harvest of beetle-killed pine approaches completion.

PLANS FOR 2008 – 09

Malcolm Knapp Forest

- Complete work on replacing the cabins at Loon Lake, and build the gatehouse and washroom facilities.
- Increase Loon Lake visitor days significantly based on improved accommodations.
- Expand training and research in log and timber frame construction at our sawmill and log home building facilities.
- Complete the first major revision of the Research Forest Management Plan since 1981, with the help of students from Forestry 424.
- Expand Camp Goodtimes to accommodate 300 children and 350 volunteers annually.
- Host a portion of the Faculty's summer recruitment camp.
- Install a fiber-optic network linking the gate, sawmill and Loon Lake facilities.
- Maintain timber harvest levels at 23,000 cubic metres.

Alex Fraser Forest

- Complete wetland inventory.
- Prepare application for Williams Lake Community Forest.
- Formalize relationships with local First Nations.
- Reduce timber harvest levels to 17,500 cubic metres.
- Focus timber harvest carefully to minimise timber harvest levels during this very difficult market.
- Continue diversifying revenue streams, including sales, services and funded projects.
- Develop bioenergy opportunities with the city of Williams Lake.
- Initiate forest cover inventory project.

Aleza Lake Forest

- Complete Year 2 of remote-sensing research on LIDAR and digital photographic technologies, in partnership with UBC (Dr. Nicholas Coops), UNBC, and BCMoF&R.
- Design and construct a new interpretive forest trail and facilities in partnership with COFI, local educational institutions, outdoors clubs and the Regional District of Fraser Fort George.
- Participate in Provincial Recruitment Strategies for forestry education programs.
- Complete a new Timber Supply Analysis for the forest.
- Undertake long-term strategic planning for the research forest.

UNIVERSITY RESEARCH FORESTS

FOREST STAFF

Cheryl Power

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Resident Forester

Malcolm Knapp Research Forest

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Cathy Koot

B.Sc., R.P.Bio.

Research Coordinator

Alex Fraser Research Forest

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Melanie Karjala

M.N.R.E.S.

Research Coordinator

Aleza Lake Research Forest

karjala0@unbc.ca

A LONGSIDE THEIR teaching and research commitments, most Faculty members have committee responsibilities with off-campus organizations and groups. These involvements are listed below together with various distinctions and awards (in bold-face type) bestowed on Faculty members during the past year.

AITKEN, S.N.

- Member, CTIA-IUFRO Quebec 2008 Scientific Advisory Committee.
- Member, IUFRO Division 2.04.01.
- Associate Editor, Tree Genetics and Genomes.

ARCESE, P.

- Associate Editor, Journal of Avian Biology.

AVRAMIDIS, S.

- Member, Editorial Board, Drying Technology.
- Member, Editorial Board, Maderas: Cientia Y Tecnologia, Reviewer.
- Member, Editorial Board, Wood Material Science and Engineering.
- Fellow, Institute of Wood Science.
- Fellow, International Academy of Wood Science.

COOPS, N.C.

- Canada Research Chair in Remote Sensing.
- Adjunct Professor, Oregon State University.
- Faculty of Forestry Mentor Award 2007.
- Editor-in-Chief, Canadian Journal of Remote Sensing.

EL-KASSABY, Y.A.

- Member, Panel of Experts on Forest Gene Resources, FAO, UN (IUFRO Representative).
- Task Force Coordinator, IUFRO Biotechnology.
- Associate Editor, Canadian Journal of Forest Research.
- Member, Editorial Review Board Forest Genetics.

EVANS, P.

- Adjunct Professor, The Australian National University.
- Visiting Professor, Technical Research Institute of Sweden.
- Visiting Professor, Forestry and Forest Products Research Institute of Japan.
- President, Institute of Wood Science (Canadian Branch).
- Member, Premier's Advisory Committee on Forest Industries (BC).
- Member, Organizing Committee of Pacific Rim Biobased Composites Symposia.
- Visiting Professor Institute for Surface Chemistry Stockholm.
- Fellow, International Academy of Wood Science.
- Fellow, Institute of Wood Science.

- Member, US-Canadian Wood based Composites Centre.
- Member, Wood-based Composites Centre Research Committee.

FANNIN, J.

- Member, Applied Science Killam Teaching Prize Selection Committee.
- Member, Registration Committee Task Force on Forest Engineering.

GERGEL, S.E.

- Faculty of 1000.
- Mentor, SEEDS - Strategies for Undergraduate Education, Development & Sustainability, ESA.

GRAYSTON, S.J.

- Canada Research Chair in Soil Microbial Ecology.
- Associate Editor, Canadian Journal of Forest Research.
- Associate Editor, Soil Biology & Biochemistry.
- Associate Editor, Canadian Journal of Soil Science.
- Member, Ecology, Evolution, Environmental and Organismal Biology Panel, Science Foundation of Ireland.
- Member, NSERC Grant Selection Committee 18 (Evolution and Ecology).
- Session Organizer and Co-chair, Soils and Climate Change, Joint Meeting of Canadian Meteorological and Oceanographic Society and Canadian Geophysical Union (St. Johns).

GULATI, S.

- Member, Editorial Council, Journal of Agricultural and Applied Economics.

GUY, R.D.

- Past President, Canadian Society of Plant Physiologists.
- Communicating Editor, TREES.
- Managing Editor, TREES.
- Member, IUFRO 2009 Tree Biotechnology Meeting Local Organizing Committee.
- Member, CBA-ABA Botany 2008 Local Organizing Committee.

HINCH, S.G.

- **Best Paper in the 2006 issues of the Transactions of the American Fisheries Society (135:655-667).**

HOBERG, G

- Research Area Leader, Sustainable Forest Management Network.

INNES, J.L.

- **As a member of the Intergovernmental Panel on Climate Change, awarded a share of the Nobel Peace Prize for 2007.**
- Vice President, IUFRO.
- Honorary Professorial Fellow, University of Melbourne, Australia.
- Vice-Chairman, Commonwealth Forestry Association.
- Member, Sustainable Forest Initiative Board of Directors.
- Member, Sustainable Forestry Initiative Resources Committee.
- Co-Chairperson, Sustainable Forestry Initiative Objective 8 Task Force.
- Member, IUFRO Executive Board.
- Member, Editorial Advisory Board, BC Journal of Ecosystem Management.
- Member, Collaborative Partnership on Forests, Team of Experts on Adaptation of Forests to Climate Change.

KADLA, J.F.

- Editor, Journal of Wood Chemistry and Technology.
- Chair-elect, Cellulose and Renewable Materials Division, ACS.
- Fellow – International Academy of Wood Science.
- Canada Research Chair in Advanced Biomaterials Chemistry.
- Editor, Journal of Wood Chemistry and Technology.
- Chair-elect, ACS Cellulose Renewable Materials (CELL) Division.
- Member, INWFPPC Scientific Program Committee.
- Member, ISETPP Scientific Program Committee.
- Member, ISWPC Scientific Program Committee.

KOZAK, R.A.

- **Winner, Association of BC Forest Professionals, Best Article of the Year Award.**
- **Runner-Up, American Society for Quality, Brumbaugh Award.**
- **Co-Winner, Sheth Foundation Best Paper Award.**
- Fellow, Institute of Wood Science.
- Editor, Journal of Forest Products Business Research.

- Associate Editor, Canadian Journal of Forest Research.
- Member, UN Economic Commission for Europe, Team of Specialists on Forest Products Marketing.
- Chair/member, Alternative Tenure and Enterprise Models Working Group, Rights and Resources Initiative.
- Deputy Coordinator, International Union of Forest Research Organizations, Working Group 5.10.100.

KRZIC, M.

- **AMTEC Award of Merit.**
- **CADE Award of Excellence for Partnership and Collaboration, Honorable Mention.**

LAM, F.

- Guest Associate Editor, Canadian Journal of Civil Engineering.

LARSON, B.

- Member, Ph.D. Supervisory Committee (Harry Bader) Yale.
- Member, Stand Management Cooperative Policy Committee.
- Member, Ph.D Supervisory Committee (Andrew Hill) U.Washington.
- Representative, TRANSFOR

LEMAY, V.M.

- Co-ordinator, IUFRO Research Group 4.01.
- Associate Editor, Forest Science.
- Associate Editor, Forestry Chronicle.
- Guest Editor, Remote Sensing of Environment.
- Conference Co-chair, IUFRO Complex Stands Meeting Organizational Committee.
- Member Scientific Technical Committee, IUFRO Modelling and Management Conference (Portland, 2007).
- Member, Scientific Panel, IUFRO Nearest Neighbour Workshop (2007, Italy)

LYONS, K.C.

- Member, Editorial Board, International Journal of Forest Engineering.

MANESS, T

- Executive Director, Wood Products Quality Council of Canada.

MANSFIELD, S.D.

- Fellow, International Academy of Wood Science.
- Sir Frederick MacMaster Fellowship.
- Senior Early Career Scholar, Peter Wall Institute for Advanced Studies.

- Member, International Advisory Board, BioEnergy Research.
- Member, International Advisory Board, Holzforschung.
- Member, Editorial Board, Journal of Industrial Microbiology and Biotechnology.
- Member, International Scientific Committee for the International Conference on Biotechnology in the Pulp and Paper Industry.
- Member, Executive Committee, Cellulose and Renewable Materials Division of the American Chemical Society.
- Co-organizer, 2009 IUFRO Tree Biotechnology Symposium.

MARSHALL, P.L.

- 1st Vice President, Canadian Institute of Forestry.
- Associate Editor, Forestry Chronicle.

MARTIN, K.

- Associate Editor, Avian Conservation and Ecology.
- Member, American Ornithologists' Union Council.
- Member (representative for Canada), International Ornithological Committee.
- Member, Canadian Society of Ecology and Evolution.
- Chair, 11th International Grouse Science Symposium, 2008.
- Member, BC Spotted Owl Population Enhancement Team, BC Govt.
- Member, Williamson's Sapsucker Species at Risk Recovery Team, Canada.

McFARLANE, P.

- Member, Policy and Critical Issues Committee, Society of Wood Science and Technology.
- Elected Fellow, International Academy of Wood Science.
- Fellow, Institute of Wood Science.
- Member, Sustainable Forest Management (SFM) Network Research Advisory Committee.
- Member, SFM Network Management Team.
- SFM Network Research Area Leader – Value Added/Alternative Products.
- Member, Editorial Committee, Appita Journal.
- Member, Editorial Board, NZ Journal of Forestry Science.

McLEAN, J.

- President, Entomological Society of British Columbia.

MITCHELL, S.J.

- Nominee, 2007 Killam Teaching Prize.
- Coordinator, IUFRO 8.01.11.
- Member, Editorial Board, Forestry.
- Managing Editor, Forestry, Wind and Trees Special Issue.
- Chair, Scientific and Organizing Committees, IUFRO Unit 8.01.11, Wind and Trees 2007 Conference.
- Member, Ph.D. Supervisory Committee, Robyn Scott, University of Tasmania.

MOORE, R.D.

- Junior Correspondent, International Association of Hydrological Sciences.
- Secretary, Canadian National Committee for International Association of Hydrological Sciences.
- Associate Editor, Proceedings of the National Academy of Sciences.
- Associate Editor, Canadian Water Resources Journal.

NELSON, H.W.

- Research Affiliate, Harvard Project on American Indian Economic Development.

NELSON, J.

- NSERC Grant Selection Committee.

PRESCOTT, C.E.

- Editor, Canadian Journal of Forest Research.
- Associate Editor, Ecosystems.
- External Referee, UC Davis Promotion Review.
- External Referee, New Faculty Hiring, Swedish University of Agricultural Sciences.
- External Referee, Michigan State Promotion Review.
- External Examiner, University of Melbourne, Australia.

RICHARDSON, J.S.

- Associate Editor, Journal of Applied Ecology.
- Associate Editor, Canadian Journal of Fisheries and Aquatic Sciences.

RUDDICK, J.N.R.

- **Killam Teaching Prize Forestry 2008.**
- Member, Committees P3, P4, P5, and P6 AWPA.
- Taskforce Chair, AWPA.
- Canadian Representative, ISO Study Group.
- Vice Chair CSA 080, Wood Preservation Technical Committee.

SADDLER, J.N.

- Fellow, Royal Society of Canada.
- Task Leader, IEA Biotechnology Network.
- Member, US DoE Biofuels Review Program.
- Member, NREL Biofuels Program (US Dept. of Energy).
- Liquid Biofuels Task 39 Leader, IEA Bioenergy.
- Reviewer, Food and Agriculture Organisation.

SHEPPARD, S.R.J.

- Member, Real Estate Institute of British Columbia, Climate Change Advisory Panel.
- Member, BC Forum Future Forests Working Committee.
- Co-author/contributor on the BC Chapter of the National Assessment on Climate Change Impacts and Adaptation.
- Member, FRM Stream Proposal Group, Recreation and Spatial Analysis.
- Member, Landscape Architecture Program Committee for Revising the Masters of Landscape Research.
- Member, Joint Appointments Task-Force for Land Food Systems/Forestry Merger.
- Member, Departmental Review Committee, Forest Resources Management Dept.
- Chair, Research Cluster B (Public Engagement Tools and Processes) for the multi-university Centre for Interactive Research on Sustainability (CIRS).
- Member, Steering Committee, the Design Centre for Sustainability, Landscape Architecture.
- Member, Promotion and Tenure Subcommittee for several Assistant Professors in Forestry and Landscape Architecture.
- Associate Member, Institute for Computing, Information and Cognitive Systems.
- Member, IMAJO Fund Committee, UBC Faculty of Forestry.
- Director, Collaborative for Advanced Landscape Planning.
- Member, Landscape Research Group, UK.
- Member, International Association of Society and Natural Resources, USA.
- Member, American Society of Landscape Architects.
- Member, Scenic America.

SIMARD, S.W.

- Guest Editor, NAFEW Special Issue, Forest Ecology and Management.
- Member, National Center for Ecosystem Analysis and Synthesis: Mycorrhizal Management.
- Reviewer, Academy of Finland.
- Session Moderator on Ecological Resilience, 6th North American Forest Ecology Workshop.
- Member, Organizing Committee, 6th North American Forest Ecology Workshop

SMITH, G.D.

- Member, Society of Wood Science and Technology.
- Member, Institute of Wood Science.
- Member, Forest Products Society.
- External Reviewer, Expert Évaluation Projets de Recherche, Fonds Québécois de la Recherche.

SOWLATI, T.

- Member, Forest Products Society.
- Member, Canadian Operational Research Society.
- President, Canadian Operational Research Society Vancouver Chapter.
- Member, MITACS – College of Reviewers.
- Member, Canadian Biosystems Engineering.
- Member, Editorial Board, International Journal of Data Analysis Techniques and Strategies.
- Member, Editorial Board, International Journal of Applied Management Science.
- Judge, CORS 2007 Student Paper Competition.

TROSPER, R.

- Member, IUFRO Task Force on Traditional Forest Knowledge.
- Member, Advisory Committee, Sharing Indigenous Wisdom Conference.
- External Examiner, Ph.D., Australian National University.

EXTRAMURAL FUNDING AND SPONSORED RESEARCH



Cindy E. Prescott

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Associate Dean

Graduate Studies and Research

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INCOMES

Between April 1, 2007 and March 31, 2008, members of our faculty were awarded a total of \$13.3 million in research funding. This represents an increase of almost 14% over the previous year.

Federal funding was up by 4.4% and represented 41.8% of our total funds received. Members of the faculty held 16 NSERC Strategic grants, 4 Collaborative Research and Development grants, 1 Special Research Opportunity, 1 Industrial Research Chair, 34 Discovery grants, 3 SSHRC grants and 22 Networks of Centres of Excellence awards, mostly from the Sustainable Forestry Management NCE. Canada Research Chairs and Canada Foundation for Innovation awards contributed another \$6.8 million. Additionally, Shawn Mansfield was a co-investigator with faculty members in the department of Botany on a \$4.1 million CFI award for infrastructure to be housed in the Bio-imaging Facility within the UBC Botany Department. This state of the art equipment will be available for general campus use. Natural Resources Canada contributed just over \$1 million, mostly in support of research related to the mountain pine beetle problem.

Provincial funding increased again this year for a total of over \$5.6 million, an increase of 26.4% from 2006/07. Almost 52% of our provincial funding was in the form of research awards through the Forest Sciences Program (59 projects totaling over \$2.9 million). The BC Ministry of Forests and Range funded an additional 16 projects for a total of \$694,586 (down from \$948,644 in 2006/07). Forestry Innovation Investment funds supported 6 projects for a total of \$747,702.

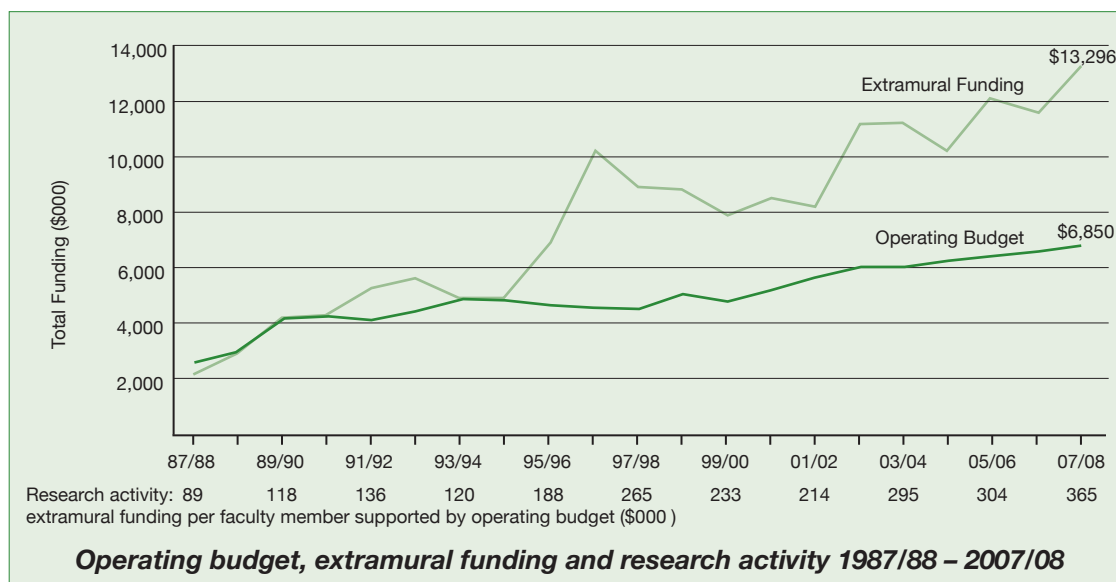
Private funding support for research contributed another \$1.4 million through 45 projects. The largest industry supporters were the Coast Forest Products Association who funded five projects for

Extramural funding sources 2007 – 08*

Source	\$000	Count	%
Federal			
NSERC/SSHRC	2,781	62	20.9
Natural Resources Canada	1,003	19	7.5
Canada Research Chairs	600	5	4.5
Network of Centres for Excellence	781	22	5.9
Environment Canada & Parks Canada	204	6	1.5
Canada Foundation for Innovation	84	3	0.6
Other	110	3	0.8
<i>Subtotal</i>	<i>5,563</i>	<i>120</i>	<i>41.8</i>
Provincial			
BC Ministry of Forests & Range	695	16	5.6
Forestry Innovation Investment	748	6	21.9
Forest Science Program	2,911	59	2.0
BC Ministry of Environment	272	8	3.0
SRD Alberta	400	1	4.7
Other	621	1	3.0
<i>Subtotal</i>	<i>5,647</i>	<i>21</i>	<i>42.5</i>
Private			
Industry	927	34	7
Other	473	11	3.6
<i>Subtotal</i>	<i>1,400</i>	<i>45</i>	<i>10.5</i>
International			
	686	12	5.2
Total	13,296	288	100.0

a total of \$292,725 (Lam, Barrett and Avramidis) and BC Hydro and Power Authority who funded a \$107,519 project on the Seton dam fishway and sockeye salmon production (Hinch). International research support was up in 2007/08 to \$686,325, equivalent to 5.2% of our total research funding.

We also received endowment income of \$1.9 million for 2007/08, up by 21% from the previous year. This funding is provided by endowments originally set up by Forest Renewal BC in support of five chairs, as well as from private sectors.



OUTCOMES

In the past year faculty members authored 166 articles published in 105 scientific peer-reviewed journals.

Faculty members serve as Senior Editors for 5 international peer-reviewed journals (Canadian Journal of Remote Sensing, Trees – Structure and Function, Journal of Forest Products Business, Journal of Wood Chemistry and Technology, and the Canadian Journal of Forest Research) and on the editorial boards of 31 journals across the spectrum of forest-related journals.

Faculty members made presentations at over 80 scientific conferences globally including Africa, Argentina, Australia, Austria, China, Finland,

Germany, Greece, Italy, Malaysia, Netherlands, New Zealand, Scotland, Sweden, Thailand and the USA.

During the past year 28 faculty members welcomed 67 visiting researchers from 23 countries. Sixteen of our faculty members hosted a total of 34 post-doctoral fellows.

Faculty members have made 16 presentations to the media on diverse topics including flood risks related to the mountain pine beetle epidemic, climate change, designing homes for the homeless, Chinese forest management practices, saving the speckled frog, biofuels and bioenergy.

The following list reflects research funding obtained between April 1, 2007 and March 31, 2008.

AITKEN, S.N.

- Proposal to establish a Centre for Forest Gene Conservation at the University of British Columbia (**BCMof&R, \$295,000**)
- Population genomics of cold adaptation in spruce (**NSERC, \$34,000**)
- Whitebark pine (*Pinus albiculis*) recruitment and migration potential north of the current species boundary: field tests of climate change range-shift projections for a threatened keystone species (**BCMof&R, \$12,182**)

ALILA, Y.

- Forest management effects on flooding in rain-on-snow coastal British Columbia: an innovative experimental-numerical modelling approach (**NSERC, \$39,000**)
- Effects of mountain pine beetle infestations and treatments on water yield and peak flow regimes in the central interior of BC (**NRC, BCMoE \$96,400**)
- Peak flow and water yield responses to mountain pine beetle infested and salvage logged watersheds (**FSP, \$175,598**)
- Mountain pine beetle – hydrology research (**BCMof&R, \$40,000**)
- Effects of overstory mortality on snow accumulation and ablation – Phase 2 (**BCMof&R, \$5,000**)

ARCESE, P.

- Capital improvements and support to field research on Mandarte Island (**donation, \$20,0000**)
- Application of ecological and evolutionary theory to the conservation of populations and species (**NSERC, \$48,300**)
- Population viability analysis for species at risk (**Parks Canada Agency, \$56,750**)
- Reconstructing historic diets and population dynamics of the marbled murrelet (**FSP, \$42,174**)
- Forest science ecosystem research pilot project (**BCMof&R, \$125,000**)

AVRAMIDIS, S.

- Modeling of wood thermo-sorptive behavior with artificial neural networks (**NSERC, \$28,000**)
- Modeling stress development in wood drying for process optimization (**NSERC, Forintek Canada Corp., \$30,000**)
- Reducing grain rise from waterborne finishes (**NRC, \$48,530**)
- Pasteurization of lumber using dielectric heating (**Canada Wood, \$56,700**)
- Eliminating wet-spots in BC coastal hemlock lamstock. Phase 1: Evaluation of NIR technology to detect wet-spots (**co-investigator**) (**CFPA, \$40,000**)

BARRETT, D.

- Structural Properties of E120 F300 coastal hemlock (**CFPA, \$141,668**)
- Compression perpendicular to grain strength (**CFPA, \$14,000**)
- Machine graded KD hemlock dimension lumber (**CFPA, \$10,500**)

BEATSON, R.

- Genetic control of arabisopsis fibre properties (**NSERC, \$26,000**)

BREUIL, C.

- Exploring how the mountain pine beetle fungal associate *Ophiostoma clavigerum* overcomes lodgepole pine defenses (**NSERC, \$30,000**)
- Mountain pine beetle epidemic – Phase 1 (**Genome British Columbia, \$97,000**)
- Indicators of conifer forest health in bark beetle-vectored fungal epidemics (**NSERC, \$80,000**)

BULL, G.Q.

- Forest carbon project development in Canada (**Shell Canada Ltd., \$47,040**)
- Biodiversity conservation in Afghanistan (**US Agency for International Development, \$21,600**)

BUNNELL, F.L.

- Developing and validating habitat-based management models for species “at risk” in northeast BC (**FSP, \$40,381**)
- Quantitative synthesis of abundance, fall rates and decay rates of snags and down wood in BC’s forests (**FSP, \$53,078**)
- Using few species to assess the sustainability of many species (**FSP, Western Forest Products Ltd., \$51,049**)
- Evaluating effectiveness of forest management practices at sustaining biological diversity in northeastern British Columbia (**FSP, BCMoE, \$47,984**)
- Developing thresholds for within-stand biodiversity indicators (**FSP, BCMoE, \$48,190**)

CHAN-MCLEOD, A.

- An experimental study of variable-retention harvest methods on forest birds (**Western Forest Products Ltd., FSP, \$74,123**)
- Decision support framework for assessing alternative mountain pine beetle management strategies on sustainable forest management indicators (**NRC, \$102,200**)
- Decision support tool for managing biodiversity and ecosystem resilience in mountain pine beetle susceptible landscapes (**NRC, \$41,600**)

CHANWAY, C.P.

- Nitrogen balance in pine forests: do nitrogen fixing endophytes play a role? (**NSERC, \$25,000**)

COHEN, D.

- From forest certification to corporate responsibility: adapting to changing global factors (**co-investigator**) (**NRC, \$31,500**)

COOPS, N.C.

- Canada Research Chair in Remote Sensing (**CRC, \$100,000**)
- Multi-scale assessment of forest carbon dynamics using near-field, airborne and satellite remote sensing (**NSERC, \$25,300**)
- Monitoring to reduce the future risk of mountain pine beetle attack: aerial and satellite image processing methods (**NRC, \$66,000**)
- Predicting site index, maximum and current growth potential using MODIS satellite-constrained physiological model (**BIOCAP, \$20,000**)
- Implications of precipitation changes on the carbon balance of pinon-juniper woodlands (**USA Forest Service, \$8,784**)
- Integration of multispectral, hyperspectral and LIDAR data for tree species and forest structure mapping (**Parks Canada Agency, \$24,872**)
- Determining year of death and nature of stand recovery using a time series analysis of remotely sensed data (**NRC, \$110,250**)

- Predicting forest growth potential and climate change impacts using a MODIS satellite-constrained physiological model (**NSERC, \$102,544**)
- Sustainable forestry indicators derived from airborne LIDAR data and high spatial resolution satellite imagery (**FSP, \$36,348**)
- Canadian carbon program: 3-PG modelling (**Canadian Foundation for Climate and Atmospheric Sciences, \$30,000**)
- Image analysis to support grizzly bear mountain /pine beetle research (**Foothills Model Forest, \$65,000**)
- Characterizing the volume of timber killed by the mountain pine beetle (**NRC, \$20,000**)
- Biodiversity monitoring (**NRC, \$60,000**)

DAI, C.

- Hydro-thermal consolidation of wood strand composites (**NSERC, \$29,600**)

DAY, K.

- Alex Fraser Research Forest (**FSP, \$37,260**)

EL-KASSABY, Y.A.

- Industrial Research Chair: Applied Forest Genetics and Biotechnology (**NSERC, FERIC, BCMoF&R, industry, \$272,000**)
- Molecular breeding using forest trees as a model (**NSERC, \$39,000**)
- Applied forest genetics and biotechnology (**Forest Genetics Council BC, \$232,000**)
- Quantitative genetic analyses of complex pedigrees with REML and GIBS SAMPLING approaches (**BCMof&R, \$14,000**)

EL-LAKANY, H.

- Our common ground: innovation on land use decision making (**United Nations, \$27,656**)

EVANS, P.D.

- Wood products processing education (**AUCC, \$195,635**)
- Finishing of mountain pine beetle affected lodgepole pine wood (**FII, \$63,883**)
- Wavelength dependent photodegradation of wood (**NSERC, \$30,030**)
- Improving the stability of OSB manufactured from mountain pine beetle killed wood (**NRC, \$51,400**)
- Infrastructure operating funds (**CFI, \$11,170**)

FANNIN, J.

- Particle size analyzer (**NSERC, \$42,800**)
- Laboratory testing of Mica Dam soil (**BC Hydro, \$42,236**)
- Improvement to CSM seismic barrier (**NSERC, Golder Associates, \$35,000**)
- UBCDFLOW model (**BCMof&R, \$4,000**)
- Seepage erosion in till core dams (**NSERC, BC Hydro \$34,250**)
- Piping erosion and landslide travel distance (**NSERC, \$28,000**)

FELLER, M.C.

- Forest management to minimize impacts of forestry operations on streamwater quality – synthesis of the literature (**FSP, \$4,590**)
- Maintaining open canopy conditions in interior Douglas-fir forests at Isobel Lake, treatment effects on tree growth, forest fuels, and nutrients (**BCMof&R, \$14,500**)
- Site preparation treatment effects on timber, and forage in the IDF (**BCMof&R, \$11,000**)
- Forest fire hazard and the effects of natural vs. anthropogenic disturbances on vegetation in ICH forests (**MITACS/NCE, \$15,000**)
- Malcolm Knapp Research Forest experimental watersheds (**FSP, \$39,960**)
- Fire hazard research in Mount Revelstoke and Glacier National Parks (**Parks Canada Agency, \$22,500**)
- Recovery processes of small streams and their riparian areas from clearcutting and partial harvest riparian management: streamwater physical and chemical properties (**FSP, \$18,122**)

GERGEL, S.E.

- Landscape indicators of watershed status (**NSERC, \$15,590**)
- Climate change, disturbance, and tall shrub dynamics in the western Canadian arctic and subarctic (**AAAS, \$28,600**)
- Quickbird high resolution satellite imagery for riparian TEM classification (**FSP, \$42,703**)
- Yeendoo nanh nakhweenjit k'art' ahanahyaa - Environmental change and traditional use of the Old Crow flats in northern Canada (**NSERC, \$28,126**)
- Analysis of historical aerial photos of the Interior Columbia Basin (**National Oceanographic and Atmospheric Administration, \$80,881**)
- Evaluating the impacts of TEM accuracy on achieving multiple resource management objectives: scenarios for the Strathcona TSA (**BCMof&R, \$40,000**)

GRAYSTON, S.J.

- Canada Research Chair in Soil Microbial Ecology (**CRC, \$100,000**)
- Plant-microbe interactions in forest soils (**NSERC, \$40,000**)
- Nutrient biogeochemistry in Athabasca oil sands reclamation (**(co-investigator) (NSERC, \$49,000)**)
- Green Crop Research Network – 2d Transforming plant carbon into soil carbon: process level controls on carbon sequestration (**NSERC, \$44,000**)
- Forest fertilization and identification of microbial indicators to enhance C sequestration and reduce GHG (**(co-investigator) (BIOCAP, \$25,000)**)

- Impact of nitrogen fertilization of coastal Douglas-fir stands in British Columbia on forest productivity, carbon sequestration and greenhouse gas emissions (**NSERC, \$20,437**)
- Fertilization to increase soil C sequestration and mitigate climate change (**MITACS/NCE, \$15,000**)
- Developing a new indicator of soil functioning for use in designing variable-retention harvesting (**(co-investigator) (FSP, \$66,068)**)
- Green tree retention as a tool to maintain soil microbial diversity and function after harvest (**(co-investigator) (NSERC, \$96,000)**)
- Carbon-flux and plank-microbial community dynamics in low-arctic tundra (**(co-investigator) (NSERC, \$135,038)**)
- Potential of forest fertilization to alleviate effects of climate change induced insect infestation (**(co-investigator) (NSERC, \$36,600)**)
- A novel approach to determine when ICH forests become functionally mature (**(co-investigator) (BCMof&R, \$25,000)**)
- SCHIRP: Ecology and management of Salal-dominated ecosystems in coastal BC (**(co-investigator) (BCMof&R, 26,730)**)

GUY, R.D.

- Comparative physiology of plant adaptation: C and N isotope discrimination and trade-offs in traits related to resource acquisition in black cottonwood (**NSERC, \$44,000**)
- Identification and selection of fast-growing poplar genotypes for carbon sequestration and biomass production (**BIOCAP, \$35,982**)

HAEUSSLER, S.

- Effects of cumulative disturbances on an endangered whitebark pine – cladina lichen ecosystem (**FSP, \$77,760**)

HARSHAW, H.

- Social polling for public attitudes around species-at-risk (**BCMofA&L, \$62,000**)
- SFM Public opinion survey: Radium Hot Springs analysis by constituency group (**Mountain Labyrinth Resource Consulting Inc., \$6,900**)

HINCH, S.G.

- Energetics, behaviour and fitness of anadromous migrating fish (**NSERC, \$26,100**)
- Investigations to determine the cause of early migration behaviour and magnitude of in-river survival and losses above Mission for adult late-run Fraser River sockeye (**(Pacific Salmon Commission, \$82,980)**)
- Long-term stream habitat and rainbow trout responses to alternative riparian management in north-central BC (**FSP, \$75,967**)

- The Seton Dam fishway and power house water diversion: factors limiting production of sockeye salmon (**BC Hydro & Power Authority, \$107,519**)
- Migrations, spawning behaviours and physiology of wild adult sockeye salmon in the Fraser River: impacts of a global climate warming scenario (**British Columbia Pacific Salmon Forum, \$25,000**)
- Climate warming and high salmon migration mortality (**NSERC, \$224,500**)

HOBERG, G.

- Research area leader assistance (**SFM/NCE, \$20,000**)
- Institutional mechanisms for the spatial and inter-temporal transfer of fiscal capacity in rural British Columbia (**FSP, \$26,482**)
- Forest futures, driver paper (**SFM/NCE, \$5,400**)

INNES, J.L.

- Application of sustainable forest management in a culturally-modified landscape (**SSHRC, \$26,000**)
- Assessing the effectiveness of management strategies in creating and maintaining stand-level biodiversity on large-scale mountain pine beetle cutblocks in the Arrow Boundary Forest District (**FSP, \$28,404**)
- Shared land use: management of cumulative resource development in the Treaty 8 region of Canada (**SFM/NCE, \$19,325**)
- Improvement of social, economic and other indicators of sustainable forest management and tools for their integration (**FSP, \$30,132**)
- Assessing ecosystem vulnerability of climate change for the tree- to stand-to landscape level Bulkley Valley (**CNRRM, \$9,000**)
- Development of appropriate economic and social indicators of sustainable forest management (**FSP, \$27,324**)
- Coarse/fine filter biodiversity linkages in the Champagne and Aishihik Traditional Territory (**Government of the Yukon \$6,000**)
- Role of disturbance in increasing the sensitivity of northern forest ecosystems to climate change (**NSERC, \$99,020**)
- SFM in beetle affected forests of the Yukon: confronting rapid ecological and socio-economic change (**Government of the Yukon, \$6,000**)
- Identification of management indicators for the Teslin Tlingit traditional territory and application to State of Yukon Forests reporting (**Government of the Yukon, \$6,000**)
- Development of indicators of SFM for the Teslin Tlingit Traditional Territory and application to State of Yukon Forests reporting (**SSHRC, \$20,000**)

KADLA, J.F.

- Canada Research Chair in Advanced Biomaterials (**CRC, \$100,000**)
- Biopolymers – precursors to advanced materials (**NSERC, \$26,960**)
- Self-assembly of ordered microporous materials from wood-based biopolymers (**NSERC, Canadian Forest Products Ltd., BIOCAP, \$116,000**)
- SENTINEL research network – Nanoscale fibrous structures through electrospinning of novel cellulosic systems (**NSERC, industry \$79,177**)
- Lignocellulosics as precursors of high performance biopolymer structures (**USDoA, \$29,400**)
- Processing of pyrolysis oils for co-product development and improved oil characteristics (**NSERC, NRC, \$36,319**)

KIMMINS, J.P.

- Canada Research Chair in Forest Ecosystem Modelling (**CRC, \$200,000**)
- Critical loadings of acid and nitrogen to Georgia Basin ecosystems – modelling the ecological effects of nitrogen deposition (**Environment Canada, \$15,750**)
- Complexity and scale in forest ecosystem management and agroforestry modeling (**NSERC, \$25,000**)
- North American Forest Ecology Workshop: From Science to Stewardship – knowing, understanding, applying – extension of leading edge scientific research in North America forest ecology (**FSP, \$20,520**)
- Defining boreal mixedwoods and exploring their response to management and natural disturbance (fire, MPB) through spatially-explicit ecosystem management modeling (**FSP, \$73,440**)
- Incorporation of wildlife habitat capability into the multi-value, spatially-explicit, complex cutblock ecosystem management model LLEMS (**FSP, \$68,095**)

KOZAK, R.A.

- Pensando en Tapalpa – Thinking of Tapalpa (**Consejo Coordinador de Jovenes Empresarios de Jalisco, \$43,000**)
- From forest certification to corporate responsibility: adapting to changing global factors (**co-investigator**) (**NRC, \$31,500**)
- Assessing the effectiveness of forest certification as a means to achieve SFM in Canada (**co-investigator**) (**SFM/NCE, \$101,200**)
- Using interactive forest planning models and visualization to assess public preferences for trade-offs among possible SFM futures (**co-investigator**) (**SFM/NCE, \$168,569**)

KRCMAR-NOZIC, E.

- Framework to support impact analyses of renewal strategies of forestlands affected by mountain pine beetle (NRC, \$21,000)

KRZIC, M.

- Effects of land-use practices on soil compaction (NSERC, \$9,400)
- Cost-effective indicators of soil physical conditions: natural variation in the relative bulk density and associated tree growth as measures of forest productivity and ecosystem resilience (FSP, \$29,160)

LAM, F.

- Structural performance of Japanese post and beam shear wall system (Coast Forest & Lumber Association, \$86,557)
- Timber engineering education in China – Faculty exchange with Tongji University (Council of Forest Industries of BC, \$25,002)
- Advanced structural analysis program for metal plated wood truss systems (NSERC, Canadian Wood Council, MiTek Canada Inc., \$43,000)
- Reliability of timber structural systems under seismic loading (NSERC, \$35,000)
- High temperature preheating of BKP logs for optimized processing of MBP wood into strand based composites (FFII Ltd., \$131,220)
- Development of MPB wood composites – thick strand based wood composites (FFII Ltd., \$193,756)
- Development of MPB wood composites – thick laminated MPB wood plate (FFII Ltd., \$84,240)
- Development of MPB wood composites – MPB wood plastics and MPB wood cement (FFII, Ltd., \$95,853)
- Performance of floor panels (Ainsworth Lumber Co. Ltd., \$17,032)
- Development of value-added massive plate building systems (NRC, \$98,900)

LARSON, B.C.

- Develop protocols for evaluating, treating, and monitoring the forest of San Juan Island National Historical Park (National Park Service, \$43,536)
- Assessing the effectiveness of forest certification as a means to achieve SFM in Canada (co-investigator) (SFM/NCE, \$101,200)

LAWSON, P.

- Malcolm Knapp Research Forest (FSP, \$34,560)

LEMAY, V.M.

- Estimating natural regeneration and yield in pine-dominated stands following mountain pine beetle attack using SORTIE-ND and Prognosis in a hybrid approach (FSP, \$34,647)

- Modelling the development of coastal BC stands: an individual tree model linked to a variable retention microclimate model (Island Timberlands, \$21,950)
- Taper model evaluation (BCMof&R, \$21,214)
- The basics of forest dynamics monitoring curriculum (FORREX, Forest Research Extension Partnership, \$19,980)

LYONS, C.K.

- The mechanics of anisotropic materials applied to the management of forests (NSERC, \$15,000)
- Extending the logging season in mountain pine beetle damaged stands by using ground wood to surface in-block roads (FSP, \$57,035)
- Using remotely operated jacks to fall dangerous trees (Workers' Compensation Board of British Columbia, \$26,800)
- Extending the logging season in mountain pine beetle damaged stands by using ground wood to surface in-block roads (FERIC, \$6,000)

MANESS, T.C.

- Multi-criteria strategic planning for sustainable forest management (NSERC, \$19,000)
- Feasibility and conceptual design of a highly flexible manufacturing facility (Forintek Canada Corp., \$12,000)
- Decision support methods for simultaneous assessment of timber and non-timber resource objectives (Canadian Forest Products Ltd. \$25,000)
- Using interactive forest planning models and visualization to assess public preferences for trade-offs among possible SFM futures (co-investigator) (SFM/NCE, \$168,569)

MANSFIELD, S.D.

- Canada Research Chair in Wood & Fibre Quality (CRC, \$100,000)
- Identification and selection of fast-growing poplar genotypes for carbon sequestration and biomass production (NSERC, \$41,979)
- Biomass improvement through genomics in populus (NSERC, \$78,400)
- Developing tools to select for robust *Populus* genotypes capable of adapting to environmental change (NSERC, \$57,250)
- Green Crop Research Network – 2a Manipulating lignin deposition (NSERC, \$9,167)
- From source to sink – carbon allocation in poplar (NSERC, \$30,000)
- Modelling the impacts of silvicultural treatments on the wood quality of interior spruce (BCMof&R, \$82,400)
- Biomass improvement through genomics in populus (BIOCAP, \$8,333)
- Elucidating conifer juvenility through functional genomics (Minister of Sustainable Resource Development, Alberta, \$400,000)

- Eliminating wet-spots in BC coastal hemlock lamstock. Phase 1: Evaluation of NIR technology to detect wet-spots (**co-investigator**) (CFPA, \$40,000)
- Centre for Microscopy and Intermolecular Cellular Dynamics (**co-investigator**) (CFI, \$4,066,480)

MARSHALL, P.L.

- Modeling natural regeneration in mountain pine beetle impacted stands (FSP, \$66,133)
- Framework for linking tree crown, branch and knot characteristics (NRC, \$11,500)

MARTIN, K.M.

- Alpine and forest landbird ecology and conservation research (Environment Canada \$67,500)
- Ecology of alpine and forest birds (NSERC, \$35,300)
- Avian ecology and climate variability in Kluane alpine ecosystems (NSERC, \$20,000)
- Predicting biodiversity maintenance after bark beetles and MPB management (FSP, \$57,523)
- Climate forcing of alpine tundra ecosystems in southwest Yukon: a Canadian contribution to the international polar year (NSERC, \$31,000)
- Developing science-based policy guidelines for biodiversity maintenance in unhealthy mature conifer forest ecosystems (NSERC, \$82,082)
- The effects of environmental variability on parental effort, reproductive success and return rates in an alpine population of horned larks (NSTP, \$4,760)
- Potential effects of climate change on rock and white-tailed ptarmigan in the southwest Yukon Territory (NSTP, \$2,130)
- Ptarmigan resource use and distribution in southwestern Yukon (NSTP, \$2,130)
- Support for an NSERC – International Polar Year award entitled “Climate forcing of alpine tundra ecosystems” (UBC, \$7,500)

McFARLANE, P.

- Fellowship grant for post doc fellow/research associate (SFM/NCE, \$20,000)
- Impacts of technological innovations in the forest products value chain on sustainable forest management (SFM/NCE, \$99,000)
- Forest futures, driver paper (SFM/NCE, \$5,400)

McLEAN, J.

- Adelgid studies: taxonomy and life history (BCMof&R, \$44,120)
- Invertebrate species at risk research – survey of Johnson's hairstreak in the lower mainland of BC (BCMofE, \$12,500)
- Evaluation of the impact of N fertilization on mountain pine beetle success in mature lodgepole pine stands at the leading edge of an infestation (FSP, \$54,605)
- Survey of insect biodiversity in Stanley Park, Vancouver (City of Vancouver, Canadian Food and Inspection Agency, \$27,300)

MITCHELL, S.J.

- Survey and assessment of damage due to extreme winds in Canada (**co-investigator**) (NSERC, \$22,300)
- Wind drag on conifer crowns (NSERC, \$26,000)
- Incorporating the effects of windthrow after retention harvesting into TASS and TIPSy (BCMof&R, \$18,370)
- IUFRO Wind and Trees Conference (FSP, \$15,120)
- Improvement of a mechanistic risk model for estimating windthrow losses (FSP, \$30,672)
- Wind hazard assessment for forested state trust lands in coastal Washington State (Washington State Natural Resources Agency, \$60,000)
- Effect of stand structure and riparian buffer design on wind damage susceptibility and large woody debris recruitment (FSP, \$69,492)
- Early survival and growth of natural regeneration and planted seedlings under seven silvicultural systems on the coast (BCMof&R, \$3,000)
- Windthrow modeling with BC Transmission Corp power outage database (BC Transmission Corp., \$88,452)

NELSON, H.W.

- Assessing alternative forest management strategies under climate change. (FSP, \$120,000)

NELSON, J.D.

- Decision support systems for forest land use planning (NSERC, \$25,000)

PRESCOTT, C.E.

- Nutrient availability and late-stage decomposition (NSERC, \$42,000)
- The potential for drainage to improve productivity of regenerating forests on northern Vancouver Island (MITACS, NCE, \$15,000)
- Nutrient biogeochemistry in Athabasca oil sands reclamation (**co-investigator**) (NSERC, \$49,000)
- Forest fertilization and identification of microbial indicators to enhance C sequestration and reduce GHG (**co-investigator**) (BIOCAP, \$25,000)
- Developing a new indicator of soil functioning for use in designing variable-retention harvesting (**co-investigator**) (FSP, \$66,068)
- Green tree retention as a tool to maintain soil microbial diversity and function after harvest (**co-investigator**) (NSERC, \$96,000)
- SCHIRP: Ecology and management of salal-dominated ecosystems in coastal BC (**co-investigator**) (BCMof&R, 26,730)

RICHARDSON, J.S.

- Variation in detritus-based food webs and community structure based on quality of organic matter (NSERC, \$20,000)
- Assessing the sensitivity of streams to riparian changes: does channel geomorphology determine how tightly forests and small streams are linked to downstream reaches? (FSP, \$71,126)
- Biogeochemical indicator and threshold for assessing ecological impacts of riparian forest management on downstream ecosystems (BCMof&R, \$75,492)
- Downed wood in riparian areas and its contribution to stand-level biodiversity (FSP, \$37,829)
- Alternative indicators of the integrity of stream function as an assessment of sustainable forest management (FSP, \$76,405)
- Long-term trends in amphibians in riparian reserves: are riparian reserves effective for their conservation? (FSP, \$24,509)
- Ecosystem functioning in small streams and their riparian areas in response to partial harvest riparian management (FSP, \$75,420)
- Recovery processes of small streams and their riparian areas from clear-cutting & partial harvest riparian management (FSP, \$110,463)

RUDDICK, J.N.R.

- Enhancing wood durability for above ground structures (NSERC, \$24,670)
- Performance of wood preservatives (various, \$24,601)

SADDLER, J.N.

- Substrate and enzyme factors that affect the efficient hydrolysis of cellulose to ethanol (NSERC, \$22,000)
- Softwood residues-to-ethanol scale-up & bottleneck reduction (NRC, \$74,721)
- Participation of forest products biotechnology, UBC, in the Biomass Consortium on Applied Fundamentals (NRC, \$37,628)
- The development of value-added bioproducts from the bioconversion of lignocellulosics (BIOCAP, \$15,000)
- The development of biorefinery technologies for conversion of softwood residues to ethanol and co-products (NSERC, BIOCAP, \$173,467)
- Linking the process steps in the bioconversion of lignocellulosics to ethanol (NSERC, Novozymes, Inc., \$248,147)
- Developing biorefining technologies for the production of forest-based bioethanol (FFII, Ltd., \$178,750)
- Bioconversion of beetle killed lodgepole pine to bioethanol (NRC, \$24,315)
- Bioprocessing Centre for Sustainable Fuels (additional equipment) (CFI, \$35,211)

- IEA Bioconversion Task (IEA, \$234,000)
- Bioprocessing Centre for Sustainable Fuels – Operations (CFI, \$38,104)

SEELY, B.

- The application and evaluation of an ecosystem model to project the recovery of old-growth attributes in second growth stands (FSP, \$51,084)
- An interactive tool for evaluating the impacts of spatially explicit MPB salvage alternatives on multiple forest resource values (NRC \$45,950)

SHEPPARD, S.R.J.

- Development and testing of advanced landscape visualization (NSERC, \$14,800)
- Future visioning of local climate change scenarios with integrated geomatics/visualization systems (GEOIDE/NCE, BCMoE, \$117,500)
- Visualizing the industrial north: exploring new ways to engage and inform the public on extremely large projects (SSHRC, \$27,000)
- Visualizing green infrastructure for downtown Squamish (Smart Growth BC, \$24,800)
- Calgary urban planning (City of Calgary, \$35,000)

SIMARD, S.W.

- Nutrient dynamics in the mycorrhizosphere of Douglas-fir seedlings establishing after the BC wildfires of 2003 (co-investigator) (NSERC, \$35,306)
- Interactions between light and nitrogen availability on juvenile tree growth in partial cut forests (co-investigator) (FSP, \$31,500)
- Role of common mycorrhizal networks in plant community dynamics (NSERC, \$35,000)
- Cultivation *Toona ciliata* var. *australis* (F. Muell.) in subtropical mixed species plantations in Misiones, Argentina (Danzer Forestacion S.A., \$9,528)
- Modeling light, site quality and crowding effects on growth of understory subalpine fir in lodgepole pine forests (FSP, \$26,568)
- Effects of wildfire and harvest severity on natural regeneration potential of Douglas-fir in the dry interior Douglas-fir forests (FSP, \$24,678)
- Biogeoclimatic ecosystem site series classification of the IMAunp and ESSFwcp subzones (BCMof&R, \$24,000)
- Measuring and modelling ecological resilience (MITACS/NCE, \$30,000)
- Ecosystem recovery after disturbance: thresholds for biodiversity and resilience indicators (MITACS/NCE, \$15,000)
- PROBE (PRotocol for Operational Brushing Evaluations) (FSP, \$9,720)
- Conifer/broadleaf mixture experiments in the southern interior of BC (FSP, \$16,200)

- Predicting development and productivity of southern interior mixed species stands following mountain pine beetle attack (**FSP, \$69,823**)
- Effects of partial retention and common mycorrhizal networks on seedling recruitment in Douglas-fir forests across BC (**FSP, \$54,000**)
- Analysis of insect, disease, and abiotic factors affecting post-free-growing lodgepole pine in southern interior BC (**FSP, \$81,571**)
- Determining stand level structures in dry Douglas-fir forests that maintain appropriate levels of ectomycorrhizal genetic diversity to facilitate Douglas-fir regeneration (**FSP, \$59,184**)
- Improving predictions of juvenile tree growth in complex mixtures for sustainable forests management (**FSP, \$10,800**)
- Carbon-flux and plant-microbial community dynamics in low-Arctic tundra (**co-investigator**) (**NSERC, \$135,038**)
- Birch dieback in the southern interior forest region (**BCMof&R, \$20,000**)
- Carbon-flux and plant-microbial community dynamics at a low-arctic site, Toolik Lake, AK (**UBC, Federal, \$6,100**)
- Remeasurements of long term fire ecology research sites (**BCMof&R, \$12,882**)

SMITH, G.D.

- Investigation of the resination process for oriented strand board (**NSERC, \$25,100**)
- Comparison of the strength of shelf assemblies for four different screw types and two panel thicknesses (**ClosetMaid, \$10,600**)
- Development of novel hollow core composite panels (**NRC, \$65,435**)

SOWLATI, T.

- Efficiency measurement and improvement in the Canadian wood industry (**NSERC, \$12,000**)
- Assessment of an integrated forest biomass supply and logistics model for visiting scholar Carolina Casas-Cordero (**Canadian Bureau for International Education, \$10,000**)

SULLIVAN, T.P.

- Vole populations, grass seeding, and management of feeding damage to trees in forest plantations (**BCMof&R, \$64,800**)
- Creation of habitat for small mammal prey and their predators on clearcuts: coarse woody debris in piles and windows (**FSP, \$38,880**)
- Influence of forest harvesting and succession on vole populations and feeding damage to plantations (**FSP, \$49,680**)

- Stand structure and maintenance of biodiversity in green-tree retention stands at 30 years after harvest: a vision into the future (**FSP, \$56,160**)
- Dry forests and grasslands: stand structures, habitat, and small mammals as indicators of biodiversity (**FSP, \$45,360**)

TROSPER, R.

- Contemporary and traditional values of a landless Cree First Nation in northern Ontario (**SSHRC, \$30,136**)
- A participatory approach to aboriginal tenure reform in Canada (**SFM/NCE, \$35,000**)
- Gifts, chiefs and contingency – research associate funding (**SFM/NCE, \$20,000**)
- Canadian experiences in collaboration between First Nations and forest industries in traditional land use mapping (**SFM/NCE \$5,000**)
- Common knowledge, values, and perceptions of sustainable forest management held by First Nations communities (**FSP, \$78,356**)
- Forest futures, driver papers (**SFM/NCE \$5,400**)

VAN DER KAMP, B.

- Hazard tree failure study (**British Columbia Transmission Corp., \$15,000**)

WEILER, M.

- Water and solute response of runoff generation processes (**NSERC, \$23,500**)
- Tools for generating maps of hydrologically sensitive areas for use in forest operations planning (**SFM/NCE, \$52,325**)
- Equivalent clear cut area thresholds in large-scale disturbed forests (**FSP, \$82,760**)
- Integrated sensor web infrastructure for watershed monitoring (**GEOIDE/NCE, \$24,000**)
- Innovative Stormwater Management (**CWN/NCE, \$15,000**)
- A physically-based approach to dynamically model hydrological sensitive areas and runoff source area contributions in snowmelt-dominated catchments (**MITACS/NCE, \$7,500**)
- Peak flow generation zone analysis (**BCMofE, \$30,000**)
- Development of a hydrologic process model for mountain pine beetle affected areas in BC (**Pacific Salmon Foundation, \$61,495**)

WELLS, R.

- Effective landscape level planning approaches to sustain biodiversity in the forests of southeastern British Columbia (**FSP, Parks Canada Agency, \$51,909**)



Photo: Jamie Myers

THIS LIST INCLUDES documents published between April 1, 2007 and March 31, 2008. Names appearing in **bold-face** type are those of UBC Forestry Faculty members. For further information on any of these publications (many of which are available in libraries), please contact the appropriate Faculty member directly.

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- Ackom, E., and **P.N. McFarlane**. 2007. Technological innovation in the north American panel industry. Industrial ecology for a sustainable future. p. 216 in Proc. 4th International Society for Industrial Ecology Conference, Toronto, Canada.
- Ackom, E., **P.N. McFarlane**, J. Alteyrac, **W. Mabee**, and **J.N. Saddler**. 2007. Lignocellulosic biorefinery concept & industrial symbiosis in British Columbia. Industrial ecology for a sustainable future. p. 3 in Proc. 4th International Society for Industrial Ecology Conference, Toronto, Canada.
- Aitken, K.E.H., and **K. Martin**. 2007. The importance of excavators in hole nesting communities: availability and use of natural tree holes in old and mixed forests of western Canada. Can. J. Ornithol. 148(Suppl. 2):425-434.
- Aitken, S.N.**, S. Yeaman, J.A. Holliday, T. Wang, and S. Curtis-McLane. 2008. Adaptation, migration or extirpation: climate change outcomes for tree populations. Evol. Appl. 1:95-111.
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- Berlin, A., C. Munoz, **N. Gilkes**, S. Massoumi Alamouti, P. Chung, K. Kang, V. Maximenko, J. Baeza, J. Freer, R. Mendoca, and **J.N. Saddler**. 2007. An evaluation of British Columbian beetle-killed hybrid spruce for bioethanol production. Appl. Biochem. Biotech. 136-140:267-280.
- Berlin, A., V. Maximenko, **N. Gilkes**, and **J.N. Saddler**. 2007. Optimization of enzyme complexes for lignocellulose hydrolysis. Biotechnol. Bioeng. 97(2):287-296.
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FACULTY DEVELOPMENT AND ALUMNI



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THE FACULTY IS GRATEFUL for the ongoing leadership, support, and encouragement of our alumni and donors. With more than 50 years of forestry education, research and community involvement already achieved, the Faculty is continuing its work towards the long-term success of our students, faculty members, partners, and industry supporters. This year has proven to be no exception.

2007/08 was a year of staff transition in the Development Office. Katrina Evans departed from her role as Director of Development to take on a new challenge elsewhere on campus. Since 2002, Katrina had built the foundation for success and we are grateful for all her hard work. Joining the Faculty as the new Director in December was Christoph Clodius, who brings many years of experience in development and communications, both on and off-campus. In the challenging transition time many of you would have had the pleasure of dealing with Jenna McCann, who remains a crucial part of the team.

Unfortunately 2007 also marked the passing of one of the Faculty's dear friends, Charlie Johnson. Charlie (UBC BA '58, BSF '62) had a long and distinguished career in forestry, ranging from Director of the Silviculture Branch of the Ministry of Forests to his own forestry and agriculture biotechnology business. Everywhere he went Charlie made great friends and always put the needs of others and his beloved plants first. In 1987, the ABCFP gave Charlie the Distinguished Forest Professional award. Charlie was a generous father, friend and colleague and the Faculty will miss him.

The development and alumni team seeks to foster strong connections with alumni and those in the broader community to raise valuable funds for priority projects, as well as keep alumni involved and excited about the broad range of activities in the Faculty. Your support in 2007/08 has helped us achieve many important goals, such as recruiting and retaining the best and brightest faculty members; assisting and rewarding students for their dedication and accomplishments; building our research capacity; and providing our students with the financial support and facilities needed to further their academic endeavors.

For the period April 1, 2007 to March 31, 2008 the Faculty of Forestry raised \$1,227,927 in gifts, contributions and pledges in support of student awards, research, endowments and upgrading of our facilities.

Forestry Alumni Support

The Faculty of Forestry would like to thank forestry alumni for their generous and continued support of our programs and students. This year's annual appeal raised \$53,477 in support of projects such as the Sopron Alumni Scholarship Fund and Sopron Alumni Fellowship Fund (\$14,236), the Loon Lake Redevelopment (\$23,437), and the Dean of Forestry Scholarship Fund (\$4,147).

The Faculty would also like to recognize the contributions of the numerous alumni volunteers and thank them for their continued dedication to the many events and Faculty activities throughout the year. We hope to see you all again in 2008.

HIGHLIGHTS IN 2007 – 2008

This year was a very busy one for our alumni and supporters. The following activities, events, and milestones were reached:

- On June 14-17, 2007, the Faculty of Forestry was pleased to host the **UBC-Sopron 50th Anniversary Celebration** that commemorated the arrival of the Sopron School of Forestry in 1957. The Soproners had a tremendous impact not only on UBC, but on forestry practices as a whole, and thus it seemed only fitting to have a grand celebration to salute their enthusiasm, ingenuity and determination of the past 50 years. These three days of celebrations and events were marked by a formal ceremony with speakers that included distinguished Faculty from both UBC and the University of West Hungary; Sopron alumni; as well as members of the Canadian and Hungarian governments. Events included traditional Hungarian meals; talks from former faculty members, students, members of government, and representatives from local corporations; as well as a symposium and a dinner and dance at the Hungarian Cultural Centre. This was a wonderful event and the Faculty would like to thank everyone who attended the three day celebration in commemoration of an important part of UBC's and Canada's history.
- The **Class of '57** held a three day reunion from September 4-6 at Harrison Hot Springs Resort. During their reunion, the class visited the Malcolm Knapp Research Forest where they enjoyed lunch at the Loon Lake Dining Hall and were given the opportunity to visit an area of tree growth they had planted 50 years ago.
- The **Class of '67** held its 40th reunion at the UBC Malcolm Knapp Research Forest as well, in August. The class had the exclusive use of the new Koerner Centre and were impressed by how much the campsite has changed over the past 40 years.

- The **Malcolm Knapp Research Forest Spring Camp Tour and BBQ** was held in April 2007, in conjunction with the 3rd year students annual Spring Camp. Despite the poor weather we had a great turnout for the tour stops in the forest, which included the student thinning project and the old growth forest. A stone cairn was dedicated to the memory of Malcolm Knapp and Willie Pierre, Elder of the Katzie First Nation, welcomed everyone and spoke about the meaning of the forest to his people. The traditional reception at the Koerner Centre and barbeque dinner was followed by Forest Manager Paul Lawson's presentation on his and the Faculty's involvement in the restoration of Stanley Park following the wind storms.
- On August 29, 2007, over forty guests joined field-camp students and faculty members in Williams Lake to celebrate the **20th anniversary of the Alex Fraser Research Forest**. The day's events included a tour of the Gavin Lake Block, which showcased the remarkable progress that has been made in the forest over the past two decades. The tour was followed by a reception and dinner, sponsored in part by the members of the Williams Lake Timber Supply Area Association. In the two decades since the 10,000 ha Research Forest opened, more than 275 research project files have been created, making significant contributions to the science and practice of forestry. These projects have provided a legacy of teaching and demonstration opportunities that continue to enrich Forestry students' experiences.
- On March 11, 2008, the Faculty hosted the **inaugural Forestry Lecture in Sustainability**. Dr. Ian de la Roche, President & CEO of FPInnovations, passionately addressed how the new bio-economy will enable us to meet future resource demands of a growing global population while sustaining and even enhancing our environment and quality of life. The lecture series has been generously supported by the Koerner Foundation – look for another compelling presentation in 2008. Also on March 11, The B.C. Forum on Forest Economics and Policy hosted a workshop on the effects of climate change on B.C.'s forests, communities and economy.
- Work continues with the **First Nations Council of Advisors**, who held several meetings this year to advance its strategy, "Furthering Aboriginal Forestry: A Strategic Plan for 2007-2010".
- Finally, the following **new student awards** were established this past year:
 - Derek Goudie Memorial Centenary Bursary
 - Koerner Foundation Graduate Fellowship in Sustainable Forestry

- Dave White SISCO Memorial Award in Forestry
- Joseph and Joyce Gardner Scholarship in Forestry
- K.J. Roller Sopron Memorial Scholarship in Forestry
- Charlie and Sue Johnson Forestry Entrance Scholarship
- Independent Lumber Remanufacturers Association Scholarship in Wood Products Processing

PLANS FOR 2008 – 09

In the coming year the Faculty's Alumni and Development Program will continue to assist the Faculty in securing resources and community connections to build on existing priority projects and develop new projects as detailed below:

- Continue to strengthen our relations with our alumni and supporters. Your support and advocacy for the Faculty's initiatives is crucial, and we would like to continue to share the Faculty's direction and priorities with you, as well as hear your thoughts. We are also keen to explore new areas where our alumni can be more involved in the Faculty.
- Conduct a long-term fundraising and alumni strategy planning process, including finalizing funding for the outstanding projects mentioned above.
- Continue to increase the number of industry members for the CAWP Industry Partnership Program.
- We plan on returning to Prince George for the Faculty's bi-annual Northern Alumni Event - stay tuned for details.
- As mentioned above we look forward to the next Forestry Lecture in Sustainability.
- Increasing financial support available to our students through scholarships, bursaries, prizes and awards.
- Continuing the implementation of the Faculty's Aboriginal Forestry Strategy, with a focus on securing long term support for the program's infrastructure, student recruitment, student financial aid, and developing community outreach programs.

The Faculty welcomes your feedback and support. If you have any questions, concerns, or areas of interest, please do not hesitate to contact either of us.

Once again, the students, faculty and staff at the Faculty of Forestry wish to thank all those who have contributed their time, interest and support for the Faculty throughout the last year.

We look forward to working with you in support of forests and forestry across BC.



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The Faculty of Forestry Web site features:

- academic program outlines and registration guides;
- profiles of Faculty members;
- department and allied program descriptions;
- online Faculty newsletters and special event announcements;
- web-based course materials and educational multimedia;
- general interest articles and web feature presentations.

Any comments or suggestions about our Web site can be addressed to Renita Drakes, Education and Web Technology Coordinator, at 604-822-0024 or e-mail renita.drakes@ubc.ca



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