

2006 Annual Report



FORESTRY ADVISORY COUNCIL

The Forestry Advisory Council provides advice to the Faculty on curriculum matters and research priorities.

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Mr. John Allan

President and CEO
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Deputy Minister
Ministry of the Environment

Dr. Joseph D. Wright

President & CEO
PAPRICAN

2006 Annual Report

Faculty of Forestry

University of British Columbia

April 1, 2006 – March 31, 2007

Inside full-page photographs by Jamie Myers show damage in Stanley Park, British Columbia following the storm of December 15, 2006.

Editor: Susan B. Watts, Ph.D., R.P.F.

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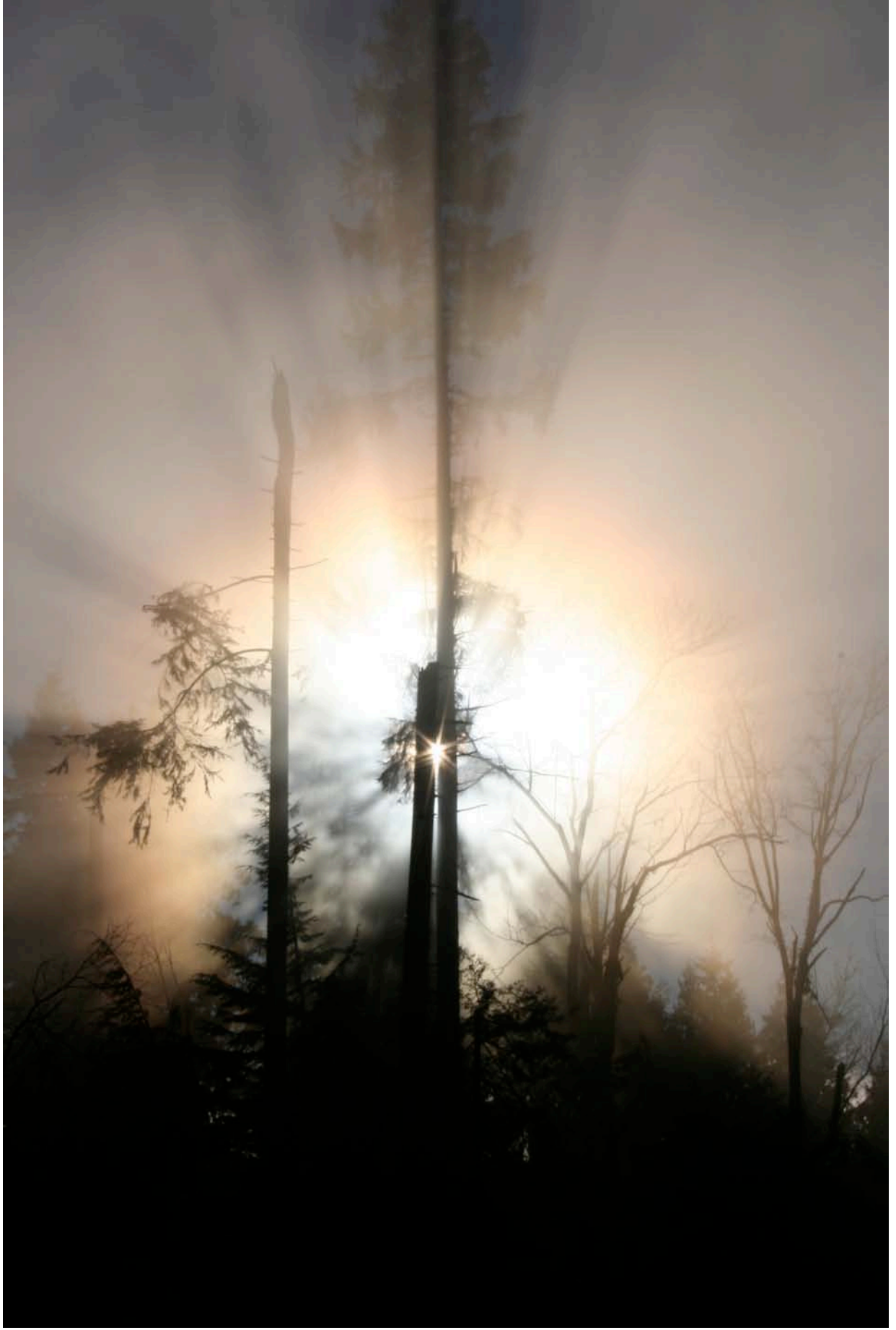


Photo: Jamie Myers



THE “WINDS OF CHANGE” have been influential this past year, globally, in British Columbia, in Vancouver and at UBC. With the world’s economy continuing in reasonable shape, concern about the

environment and the impacts of climate change remain at the top of most nations’ political agendas. The mountain pine beetle epidemic that is devastating much of BC’s lodgepole pine forests continues unabated, leaving significant biological, economic and undoubtedly social changes in its wake. The high cost of oil and other forms of fossil energy continue to stimulate interest in renewable sources of energy, with Canada and BC’s significant biomass resources catalyzing research, development and demonstration in bioenergy options. Several of our staff and faculty were, and continue to be, heavily involved in the Stanley Park Task Force that is looking at how to deal with the significant wind damage encountered by Vancouver’s iconic park. Another sign that “one in a hundred year events” seem to be occurring more frequently, symptomatic of climate change. As is detailed in this annual report, the Faculty of Forestry is well positioned to capitalize and contribute to society’s concerns about the environment, broadly defined, and our education and research

programs have and will be major contributors to the debate and actions that must be taken.

As well as encountering changes in our global environment, the academic “environment” also continues to evolve with UBC being fortunate to recruit its 12th President, Professor Stephen Toope, who has already made his mark on the functioning, plans and hopes of UBC. He challenges us all to ensure that UBC continues to be one of the most creative and influential universities in North America and to continue our march up the ranks of the very best universities in the world.

The past 9-12 months have seen increased debate and consideration of broader education opportunities across UBC focused on the environment. With colleagues from around the UBC campus, and the Faculty of Land and Food Systems in particular, we have been discussing and developing new synergies which we hope will provide the catalyst for new and innovative undergraduate and graduate programs focused on the environment. By increasing flexibility in our undergraduate programs, and working with the many other units on campus who offer existing environmental courses both from arts and science perspectives, we hope to attract increasing numbers of outstanding, motivated, undergraduates, both from our region and from across the globe. From these new undergraduate programs we also hope to further enhance opportunities in research and graduate studies.

During the past year we have increased our

DEAN'S MESSAGE

Faculty of Forestry Activities, 1996/97 – 2006/07

	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07
Undergraduate enrolment ¹	591	621	627	553	508	447	441	448	453	454	467
Distance education (fte)	36	37	29	21	22	19	14	9	9	10	10
Graduate enrolment	201	209	206	217	231	202	163	170	197	242	252
Teaching Evaluation Index ²	2.24	2.31	2.27	2.15	2.19	2.05	1.88	1.90	1.99	1.89	2.00
GPOB (\$'000) ³	4,798	4,741	4,865	4,919	5,491	5,884	6,124	6,219	6,332	6,398	6,631
GPOB/WFTE ⁴	2,129	1,989	2,048	2,195	2,479	3,024	3,487	3,508	3,315	2,976	3,003
Extramural funding (\$'000) ⁵	10,409	9,089	8,929	8,168	8,635	8,357	11,370	11,379	10,427	12,101	11,699
Endowment income (\$'000)	975	1,011	1,063	1,192	1,330	1,342	2,031	1,981	1,706	1,698	1,575
Extramural funding/GPOB faculty member (\$'000)	289	265	255	233	225	214	274	295	260	304	286

¹ Headcount unless otherwise noted.

² Average numerical score of several criteria used by students to assess teaching performance of Faculty members.

1 = Excellent; 2 = Very Good; 3 = Good; 4 = Fair; 5 = Poor; 6 = Very Poor.

³ GPOB = base recurring budget.

⁴ WFTE calculated as 2 × (undergraduate + extrasessional + diploma/3) + 4 × masters + 6 × Ph.D. students.

⁵ Research + special purpose + endowment (until 1996/97, shown separately after this).

undergraduate enrolment by 13 for a total of 467 students. We increased our focus on raising the profile of our programs with post-secondary transfer students and strong high school students. We introduced the guaranteed admissions concept and increased the entrance average for the Forest Sciences and Natural Resources Conservation programs. Budget restrictions have forced us to place less emphasis on off-campus recruiting and greater emphasis on academic advising and recruiting on-campus. We remained an attractive location for 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. In the past year our international enrolment increased from 43 to 48 students. We are well on the way to reaching the university's target of 15% international enrolment. Our undergraduate statistics are summarized on pages 6-9.

Forestry graduate student enrolment is at the highest level in our history for the second year in a row. Our total enrolment in 2006/07 was 252 students with 49% of these enrolled in doctoral degrees. We continue to attract excellent graduate students from all around the world. Last year, 48% of our graduate students were from countries other than Canada, and we have students from 38 different countries, making Forestry the most culturally diverse graduate program on campus. Our graduate student statistics are summarized on pages 10-13.

International forestry activities have continued to evolve and grow (pages 14-15). During the year five students from the Faculty participated in exchange programs and we hosted seven international exchange/visiting students from 14 different universities in nine countries. We also welcomed 29 international visiting faculty members and 21 international post-doctoral visitors from over 20 countries.

For more than 13 years we have been developing and implementing a First Nations strategy for the Faculty. In November of 2006 our First Nations Council of Advisors, faculty and staff completed a new plan, titled "Furthering Aboriginal forestry: A strategic plan for 2007-2010". Our efforts in the next year will focus on funding and implementing this new plan. Unfortunately, Warren Fortier, our coordinator of Aboriginal initiatives left at the end of the year when he returned home to Savona. Pages 16 and 17 provide a highlight of our First Nations forestry achievements and plans.

Faculty renewal in 2006/07 consisted of one retirement and no new hires. Dr. Bart van der Kamp retired as professor of forest pathology

after 38 years of service to the Faculty. Bart also served as head of the Forest Sciences department from 1998 to 2005.

Dr. Bruce Larson, formerly of the Forest Sciences department, was appointed as head of the Forest Resources Management department for a five year term beginning July, 2006. Also in July, Dr. Cindy Prescott was appointed as Associate Dean for Graduate Education in the Faculty of Graduate Studies at UBC. Cindy has served as our Associate Dean for Graduate Studies and Research for the past three years and will continue on in this role. More recently the wider university community has benefited from her talents and expertise as she works with the Graduate Advisors of other Faculties to bring consistency to the UBC graduate experience. Dr. Paul McFarlane completed his five year term as head of the department of Wood Science and was reappointed for a second term. Dr. Phil Evans completed his five year term as director of the Centre for Wood Products Processing (CAWP) at the end of 2006. Dr. Evans' provided excellent leadership of CAWP and the Centre continues to be well positioned to meet the ongoing needs of Canada's, and the world's, wood processing sector. In January of 2007, CAWP offered the first full version of the new Industrial Wood Finishing Certificate and received positive feedback from participants for its blend of flexible online study and an intensive face-to-face practical session. Pages 38 and 39 provide further information on the Centre's achievements and plans.

Our Centre for Applied Conservation Research (CACR) maintained a vigorous research, education and outreach role. The Centre's spring symposia brought together a panel of ecologists and economists to discuss the impact of the current mountain pine beetle policies on our forests. Pages 40-41 provide highlights of CACR's events and research activities during the past year.

Over the past year, thirty new research projects were initiated at our three Research Forests and the Malcolm Knapp Forest hosted the opening of the new \$2.5 million Walter C. Koerner Forestry Centre at Loon Lake. Pages 42 and 43 provide a full account of the Forests' activities.

Extramural support of our faculty members' research dropped slightly this past year for a total of \$11.7 million (down by 3.3%). Federal funding represented 45.6% of our total funds received. Provincial funding increased by almost twenty percent, primarily as a result of a 3-fold increase in projects funded by the FIA – Forest Sciences Program (nearly \$2.5 million). Private industry support for research

contributed another \$1.45 million in 50 projects. International research support was down to \$449, 497 or 3.8% of research funding. A listing of individual faculty member research projects and their associated research publications for the past year begins on page 49 of this report.

Our development program saw good progress over the year with the completion of construction projects at Loon Lake (Walter C. Koerner Centre opened on October 26, 2006), the continued funding for the CAWP industry program, additional funding towards our new chair in Wood Building Design and Construction and the establishment of several new student awards. Pages 70-71 carry the highlights of our development and alumni activities.

We have continued to devote considerable effort towards our communication and outreach initiatives. During the year we hosted the Schaffer Lecture in Forest Sciences (see page 31), the second year of a Distinguished Lecture Series through our BC Forum on Forest Economics and Policy (page 25), and the Centre for Applied Conservation Research's spring symposium (page 40). We also continued a very successful lunch time research talk series by our own faculty members, further expanded the content of Branch Lines, our Faculty newsletter, and made some major improvements to our website.

PLANS FOR 2007/08

There continue to be significant budget challenges with the university's general purpose operating funds, and consequent challenges for us to weather the storm without having to resort to drastic actions. During the coming year UBC will be working its way through an "academic planning process" which will enable strategic decision making linked to a three year sustainable budget model for the university. The quality of our faculty, graduate students/post docs and overall research continues to be world class and several of our undergraduate programs are award winning and among the healthiest in North America. However, our overall undergraduate numbers continue to be a challenge. We plan to be fully engaged in UBC's academic planning process to ensure that the criteria used in the allocation of resources reflect the important contribution that the Faculty makes to the university's provincial and global goals and aspirations.

During the year, with financial support from the federal government, the Canadian national forest products related research organizations, PAPRICAN, Forintek and Feric were brought together with the Canadian Forest Service

based Fiber Institute to form FP Innovations, one of the world's largest forest products R&D groups. We are fortunate that all three of the FP Innovations western labs are based on the UBC campus and we are in the process of developing an MOU between our two organizations (UBC/FP Innovations) to make better use of the tremendous synergies that are readily apparent. As well as building on the good rapport that already exists through mechanisms such as joint projects, Adjunct Professors, etc, we hope to work together on "transformative technology" areas such as nanotechnology/materials science and biorefinery/bioenergy opportunities which will enhance UBC's reputation as a world class cluster of innovation in the forest based sector.

Provided the world's economy remains robust, there is every expectation that the current high level of interest in the local/global environment, and the effects of climate change on the environment, will continue unabated. As a Faculty, we will continue to be strong advocates of UBC's process to better coordinate its many resources in the environment, broadly defined. We plan to offer undergraduate and graduate courses that highlight the interconnectedness of much of UBC's expertise in this area while continuing to offer the specialized degrees that are needed by professions such as forestry (RPF) and biology (RPBio). Canada and BC are recognized around the world because of our enviable social, biological and economic environment. The Faculty can be a major player in the delivery of educational and R&D programs that help define UBC as a world leader in sustainability and environmental stewardship while ensuring that our "students become exceptional global citizens, promote the values of a civil and sustainable society and conduct outstanding research to serve the people of British Columbia, Canada and the world".



UNDER-GRADUATE STUDENTS

PROGRAMS OF STUDY



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Dennis Bendickson
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Director
Forest Operations Major

Simon C. Ellis
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Processing Program

Scott G. Hinch
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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:

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 in related areas. Students in the Forest Sciences program 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 to them. Possible specializations include but are not limited to forest ecology, physiology, forest soils, forest genetics, forest pathology, forest entomology, fire science, and aquatic sciences. This program is also offered as a four-year International Forestry Specialization.

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Natural Resources Conservation

B.Sc. (Natural Resources Conservation)

Major in Science and Management

This multidisciplinary program provides students with a solid foundation in the natural and social sciences underlying management and conservation of natural resources, as well as an appreciation for the political and socioeconomic contexts which affect conservation strategies. Students develop a working knowledge of the tools and quantitative techniques used by resource planners. A notable feature of the program is the field school offered in the fourth year which features integrated field and classroom instruction throughout the fall term.

Major in Global Perspectives

Commencing in September 2007, two majors in the B.Sc. (Natural Resources Conservation) program will be offered. The original program will be termed 'NRC - Major in Science and Management'. A new stream termed 'NRC - Major in Global Perspectives' will have a similar first two years to the other major, but will involve a broader array of resource systems and globalization courses, international study, and greater elective freedom.

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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 graduates for careers in the wood products sector and related fields. Students gain a solid understanding of wood as they explore business and advanced manufacturing operations. They can also choose to complement their science degree with a Minor in Commerce. Co-op is another exciting option that integrates career-related experience into their academic studies.

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Bachelor of Science in Forestry

B.S.F.

Major in Forest Operations

This B.S.F. major prepares the graduate for professional forestry responsibilities, with an emphasis on planning, design and administration of forest harvesting 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 an option for qualified students.

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Major in Forest Resources Management

This B.S.F. major focuses on the multidisciplinary aspects of forest resources and the management of forested ecosystems for such products as timber, grazing, wildlife, recreation, aesthetics, and water. 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. The program prepares graduates for responsible careers as professional foresters. This program is also offered as a four-year International Forestry Specialization.

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PLANS FOR 2007 – 08

- Deliver first offering of new Conservation Major "Global Perspectives"
- Submit a proposal to the Faculty for a revised B.S.F. Forest Resources Management Major, offering increased flexibility and scope, while maintaining professional accreditation
- Maintain focus on undergraduate recruitment and retention efforts for domestic, international and aboriginal students, and excellent student services, with reduced staffing levels.

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 programs, students complete eight academic terms and five work terms to meet their co-op degree requirements. Employers interested in hiring a co-op student should contact one of our cooperative education coordinators.

ACHIEVEMENTS IN 2006 – 07

Forestry Programs

- Co-op students successfully completed their work terms at a variety of employer hosts; including consultants, crown corporations, government (federal, provincial, regional, US state), industry and non-governmental organizations.
- Work terms were completed in British Columbia, Alberta, Ontario, the United States (California) and New Zealand.
- International co-op work terms were completed with the California Department of Forestry and Fire Protection and the New Zealand Department of Conservation.
- The number of four-month co-op work terms that were successfully completed increased by 20% over 2005-06.
- Nearly 50% of organizations that hired co-op students in 2006-07 were first time employers.
- The distribution of co-op work terms by geographical location was as follows: 26% - Lower Mainland of British Columbia; 22% - Vancouver Island; 30% - other locations in British Columbia; 11% - Canada outside of British Columbia; and 11% - internationally.
- The 5th Annual Forestry Careers Day was held in November 2006 bringing students together with organizations representing conservation, government, industry, professional associations and sustainability.

Wood Products Processing Program

- Work terms were completed in British Columbia, Alberta, Manitoba, Ontario, and New Brunswick.
- Fifty four-month co-op work terms were completed successfully.
- Twenty-four percent of companies that hired co-op students in 2006-07 were first time employers.
- The inaugural 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 continued to increase reflecting the strong interest and support employers have in hiring co-op students and graduates.
- Celebrated the 10th anniversary of co-op and successful completion of more than 500 work terms within the wood products sector.

PLANS FOR 2007 – 08

- Continue to include employer participation in co-op students' career development activities.
- In line with Trek 2010, further the development of the international component of co-op by increasing the number of international co-op work term opportunities and broadening the geographical scope of the locations.
- Update co-op website to ensure that it continues to serve as a recruitment tool and information source for current and prospective co-op students and employers.

Number of work terms completed				
	03/04	04/05	05/06	06/07
Forest Operations	0	0	0	1
Forest Resource Management	3	2	8	8
Forest Sciences	0	3	5	6
Natural Resources Conservation	5	11	18	22
Wood Products Processing	51	47	47	50
Total	59	63	78	87

Work term salaries	
	Average Salary (\$/Month)
Forest Operations	4,585
Forest Resources Management	3,300
Forest Sciences	2,570
Natural Resources Conservation	2,950
Wood Products Processing	3,006

UNDER-GRADUATE STUDENTS

RECRUITMENT



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ATTRACTING STRONG undergraduate students remains a priority for the Student Services team and the Recruitment and Retention Committee, chaired by Candace Parsons. This year, we increased our focus on raising the profile of our programs with post-secondary transfer students and strong high school students. We introduced the Guaranteed Admission concept, and increased the entrance average for the Forest Sciences and Natural Resources Conservation programs to attract strong applicants for 2007/08. We continued to actively promote our programs across UBC campus engaging current students as ambassadors for the Faculty.

The year saw some organizational changes due to budget constraints. Student Services now places greater emphasis on academic advising and recruiting on-campus. Lesley Fettes focuses on advising domestic students, and Chiara Longhi is responsible for recruiting and advising our international students. Joanna Mackie promotes the Wood Products Processing program and liaises closely with prospective students.

The new UBC president's emerging vision provides us with the opportunity to reflect on our priorities and review our approach to undergraduate recruitment.

ACHIEVEMENTS IN 2006 – 07

Promotional activities

- Updated website to appeal to prospective students
- Sent promotional material to 345 high schools across BC
- Introduced Guaranteed Admission concept (offering guaranteed admission to Forestry degree programs for strong students)
- Provided guided tours of the Forest Sciences Centre and Centre for Advanced Wood Processing to high school groups
- Provided brochures to advisors in other UBC faculties about courses available to non-Forestry students for elective credit
- Offered youth summer camp to promote forestry and raise the Faculty's profile within the community

Student services

- Liaised with prospective students on admission, academic advising and registration
- Provided orientation materials and programs for new students
- Completed a survey of our new students to help determine which recruitment activities were most effective

On-campus recruitment activities

- Took part in the 2006 UBC *Counsellor Information Day and Resource Fair* for over 200 high school counsellors from across BC
- Attracted first-year science students with in-class presentations, campus advertising and by attending the Faculty of Science's *Beyond First Year – Choose Your Major* event

- Participated in the Faculty of Arts' *Beyond Second Year* event
 - Attended the UBC Life Sciences and Land & Food Systems Career Fair
 - Participated in UBC Focus Days
- Off-campus recruitment activities**
- Continued to attract post-secondary transfer students, targeting students in forest technology and engineering-transfer programs across the province
 - Created a new bridging arrangement with Camosun College's Environmental Technology program
 - Undertook recruitment activities throughout the Lower Mainland, as well as Vancouver Island, the Southern Interior region of BC, Washington, Oregon and Alaska
 - Participated in education and career fairs locally and internationally and provided professional development workshops for BC teachers

Partnerships

- Continued to collaborate with UBC International Student Initiative and International Student Development
- Participated in *GEERing Up!*, a youth-oriented science and engineering program run by the UBC Faculty of Applied Science

PLANS FOR 2007 – 08

- Update the *Recruitment and Retention Action Plan* for 2007-08
- Develop relationships and create new bridging arrangements with select post-secondary institutions, engineering-transfer programs and U.S. Community Colleges
- Design and launch promotional websites for conservation, forests and wood
- Strengthen on-campus recruitment activities to increase awareness of the Faculty's programs
- Participate in a work-study program for high school students to learn about forestry

Key recruitment activities April 2006 – March 2007

	Number of Institutions/Fairs	Number of Presentations	Number of Students
High Schools	25	45	1,379
US High Schools	37	37	185
Post-secondary institutions	7	7	135
US Post-secondary institutions	6	6	33
Education Fairs	2	2	144
US National College Fairs	5	n/a	47,000
UBC	1	24	7,823
Total	83	121	57,699

New Student Enrolment

New student enrolment this year was 138, identical to the previous year. Our admissions GPAs for students entering directly from secondary school were held at the levels we raised them to the previous year: 77% for the Forest Sciences program and 75% for our other programs.

New students entering into different program years are tabulated below.

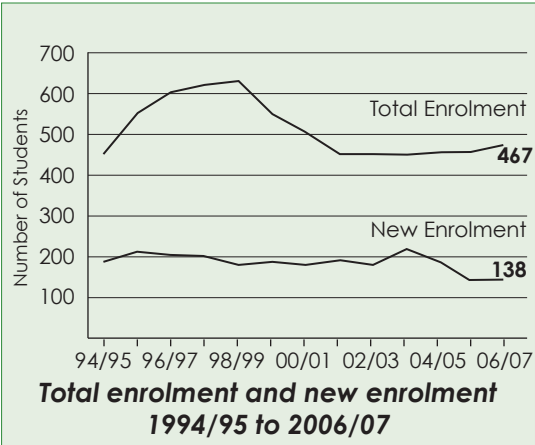
New students entering the Faculty 2006 – 07

Year of study	Number of new students entering
1	116
2	12
3	7
4	3
Total	138

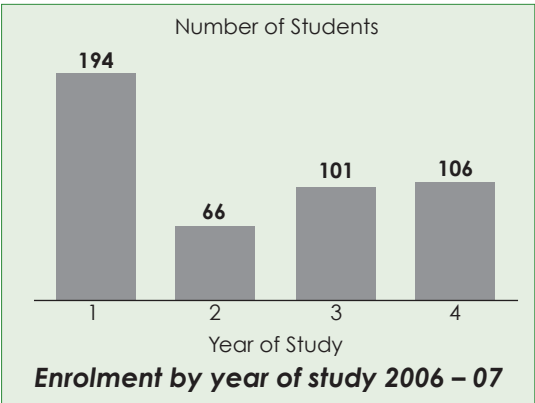
Total Enrolment

Total undergraduate enrolment grew to 467, an increase of 13 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).

We remain an attractive location for undergraduate visiting and exchange students from elsewhere in Canada and the world. This year we hosted 29 of these students. In addition, the number of international students enrolled in our degree programs continues to increase. This year we had 48 such students, up from 43 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.

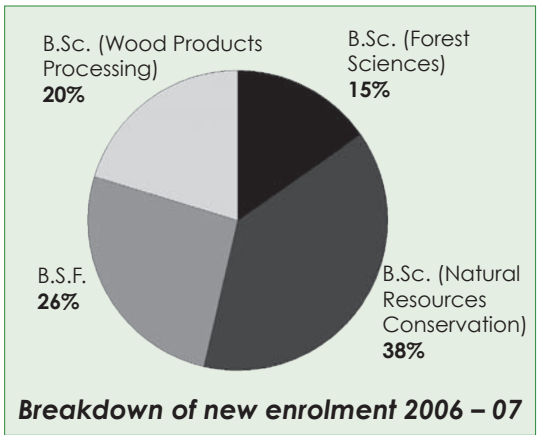


The following graph shows the distribution of undergraduate students by year of study.



The percentage of female students in our undergraduate programs continues to increase, and is now about 41 percent, up two percent from the previous year.

The following table provides a breakdown of students by program.



Enrolment by program 2006 – 07

	Number enrolled	% of total
Forest Resources Management (B.S.F.)	99	21.2
Forest Operations (B.S.F.)	28	6.0
Forest Sciences (B.Sc.)	61	13.1
Wood Products Processing (B.Sc.)	108	23.1
Natural Resources Conservation (B.Sc.)	171	36.6

UNDER-GRADUATE STUDENTS

AWARDS

First Year Students

Barra, Michael	WOOD
Bemmels, Jordan	WEST
Irvine, Shannon	C.S. JOHNSON, TRUCK ¹
Laurysen, Michael	WOOD
Miller, David	WOOD
Piwek, Jeffrey	ALUMNI ²
Prilesky, Vojtech	WEST
Schonnop, Marcus	TRUCK ¹
Wickman, Christopher	TRUCK ¹

Second Year Students

Anderson, Meghan	WEST
Connolly, April	KUAN
Ferguson, Jeffrey	TRUCK ² , WELDWOOD
Henderson, Evan	WEST
Macalister, Sean	ALUMNI ¹ ABCFP ¹
Shaffer, Eva	KETCHAM, WEST

Third Year Students

Bakker, Nicola	WELDWOOD
Banwell, Tristan	GRADUATING
Braun, Sarah	MAC ³ , SPLAN
Carter, Bradley	WOOD
Chewter, Marley	MAC ³ , SIDDOO ² , WHITTALL, DEAN
Dickson, David	BANKS, TRUCK ²
Edwards, Vanessa	BANKS, WELLWOOD, CANADIAN
Field, Katherine	SODERMAN
Haggerstone, Haley	MILLS, R.E. MILLS, McINTOSH ³
Hsu, Kai-Ting Amy	BANKS
Johannsen, Nadja	BANKS
Johnson, Wallis	SODERMAN
Johnston, Carleigh	BINKLEY
Kobitzsch, Caitlin	SODERMAN
Langley, Alex	WOOD
Lim, Hyung-Suk Thomas	WOOD, STEINER, DEAN
Mallon, Christopher	LITTLE, DEAN, McINTOSH ²
Martin, Michaela	DEAN
McLaughlin, Garrett	SPLAN
Mihalcheon, Christopher	WOOD
Montgomery, Jesse	DEAN
Pearson, Alexander	BANKS, WELLWOOD
Pledger, Sean	BANKS, MACHINERY
Poon, Chi-Yuen Winston	WOOD, CANADIAN
Scott, Matthew	BANKS

Full Name of Award

ABCFP Scholarship in Forestry¹, Graduating Prize in Forestry², Award².

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.

Peter Andrew **GOLOUBEV** 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.

Mann **KUAN** Scholarship.

Charles **LARRE** Memorial Graduating Prize.

David Bell **LITTLE** Memorial Scholarship.

H. R. **MACMILLAN** Prizes in Forestry¹, Forest Harvesting², Scholarship in Forestry².

MACHINERY and Supply Companies Group Forestry Scholarship.

Jim and Gerry **McINTOSH** Award in Forestry¹ and Scholarship in Forestry².

William **McMAHAN** Scholarship

University of BC **MEMORIAL** 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.

J. Harry G. **SMITH** Award in Forest Resources Management.

Oscar **SODERMAN** Memorial 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.

WEST Fraser Timber Co. Ltd. Scholarship in Forestry.

WEYERHAEUSER Scholarship in Forestry.

Weldwood of Canada Limited H. Richard **WHITTALL** Scholarship.

University of B.C. **WOOD** Products Processing Awards.

John **WORRALL** Tree Enthusiast Prize.

Scuffi, Lacy Jane	GOLOUBEV
Strickland, Peter	SPLAN
Wakelin, Heather	SPLAN
Ziamba, James	SPLAN

Fourth Year Students

Arnison, Colleen	BANKS, CRAIG
Brandvold, Fenella	E. BACKMAN
Broschart, Jean-Michel	WOOD
Coggins, Samuael	WORRALL
Dalton, Rachel	HADDOCK
DeSandoli, Lisa	NORTHWOOD, DEAN
Embleton, Dianna	WOOD
Englander, La'i	WOOD, CANFOR
Ewen, Stephanie	KNAPP, JOHNSON, ENGLISH, BACKMAN, SPLAN

Forrester, Alex	CRAIG
Helleouet, Patrick	SPLAN
Henriques, Daniel	WEYERHAEUSER
Kristoff, Carl	WOOD
Leung, Ming Hei Vincent	WOOD
Libel, Nathan	BANKS
Loo, Justin	WOOD
Misener, Rebecca	MAC ³ , CHISHOLM
Morrison, Kimberly	WELDWOOD
Ngai, Edmand	WOOD, NATIONAL
Nixon, James	BACKMAN
O'Farrell, Tyler	SMITH, ABCFP ³
Osorio, Federico	BANKS, TIMBERLINE, KOZAK
Patocka, Tomas	NORTHWOOD, CARIBOO
Scott, Stephen	WOOD
Sheldon, Kim	ELKINGTON, SIDDOO ¹
Slater, David	SMITH
Tchir, Amy	MAC ³ , DEAN, CRUCIL
Trant, William	WOOD
Vandergriendt, Eric	WOOD

Graduating Awards (awarded Spring 2006)

Barlow, Jordan	LARRE
Beleznay, David	MAC ²
Dick, Graeme	ABCFP ²
Harrison, Megan	MAC ¹
Rasmussen, Kristen	HOBSON, BIER
Schoonmaker, Amanda	ABCFP ² , CIF, COAST

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. | EUROCAN Pulp & Paper Co. Bursary. | Henri J. PIGEON Bursary in Wood Science and Industry. |
| Gerry and Jack BURCH Bursary. | J. D. HETHERINGTON Memorial Bursary. | Oscar SODERMAN Memorial Bursary. |
| Tommy BURGESS Memorial Forestry Bursary. | British Columbia KILN Association Bursary in Forestry. | Oscar SZIKLAI Memorial Bursary in Forestry. |
| Ian T. CAMERON Memorial Bursary. | Jeanette LINDSAY Memorial Bursary. | E.G. & W.D. TOUZEAU Bursary. |
| CANFOR Corporation Bursary. | NORRIS-MEBIUS Bursary. | VINTEN Fund Forestry Bursary. |
| COASTAL Silviculture Committee Bursary. | P. L. NORTHCOTT Memorial Bursary. | John WORRALL Alumni Bursary in Forestry. |
| Doris M. DOWLING Memorial Bursary. | Tudor OMMANEY Memorial Bursary in Forestry. | |

Degrees Conferred, May 2006 and November 2006 Congregations

B.S.F. (Forest Resources Management)

- Buys, René
- Coggins, Samuel
- Cowan, Darren
- Cunningham, Lindsay
- Hamilton, Matt
- Kernahan, Alastair
- Li, Xiao Ling Sunny
- MacNeal, Christopher
- Malysh, Jason
- McCambridge, Leah
- Menard, Julien
- Miller, Nicholas
- Otsu, Kaori
- Rangen, Brent
- Rasmussen, Kristen
- Rempel, Christopher
- Sellars, Sally
- Sherban, Daryl
- Sinayov, Lori
- Staniforth, Greg
- Vorhies, Michael
- Wilmer, Colleen
- Young, Bryce

B.Sc. (Wood Products Processing)

- Barlow, Jordan
- Brooks, Dallin
- Burke, Andrew
- Chau, Jo Oi-Ki
- Chien, Christine Yu-Chi
- Davis, Bryan
- Dick, Graeme
- Hanna, Lauren
- Khun-Khun, Hardeep Singh
- LeBlanc, Simon
- Lee, Alfred Byung Ku
- Lotfioff, Mahsa
- Ong, Sheldon
- Poon, James Chi Fai
- Scholte, Dava
- Waldstein, William

B.S.F. (Forest Operations)

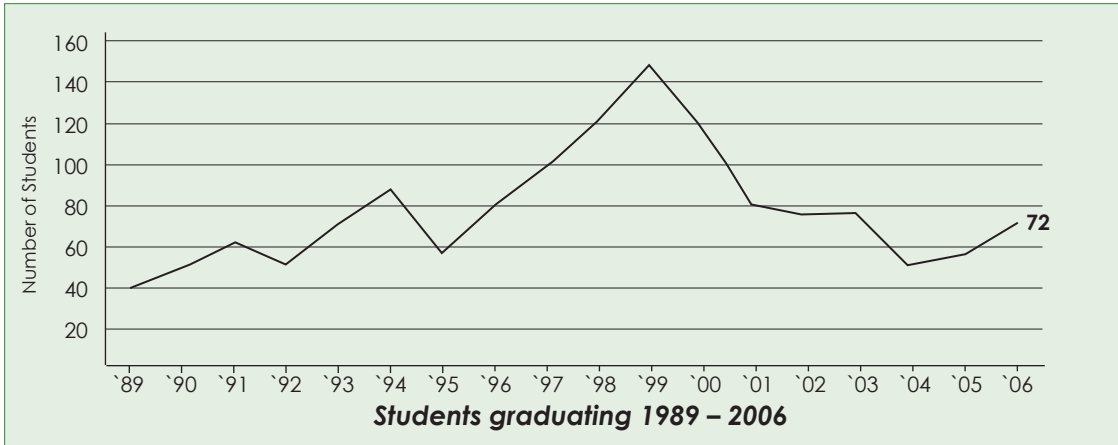
- Beleznay, David
- Bowie, Chris

B.Sc. (Forest Sciences)

- Hamanishi, Erin
- Schoonmaker, Amanda

B.Sc. (Natural Resources Conservation)

- Amison, Colleen
- Barsanti, Jason
- Bateson, Kyle
- Berdej, Samantha
- Biggs, Ryan
- Brown, Lesley
- Bryan, Katherine
- Chong, Priscilla Pui Sze
- Connolly, Michelle
- Fong, Kalie Ka Wai
- Gibson, Emma
- Harrison, Megan
- Hum, Andrew
- Knight, Natasha
- Li, Agnes Chun Yun
- Matson, Mona
- McDonald, Michael
- Newman, Meghan
- Rock, Heather
- Rozance, Mary
- Semproni, Milena
- Shadbolt, Tanya
- Sloan, Mark
- Smart, Geoffrey
- Stromgren, Eric
- Sullivan, Pamela
- Taillefer, Colin
- Welsh, Marika
- Zeron, Katherine



GRADUATE STUDENTS

ENROLMENT STATISTICS



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grad

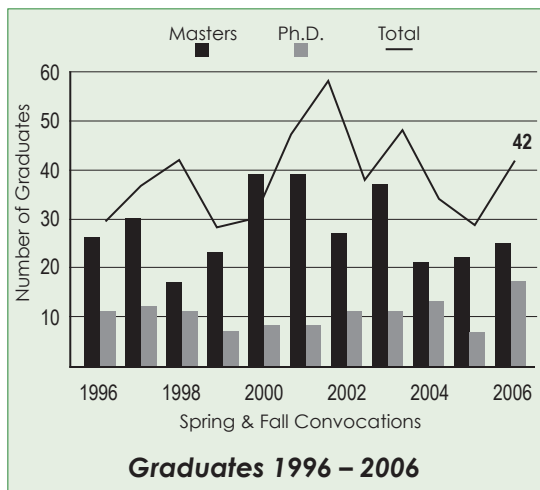
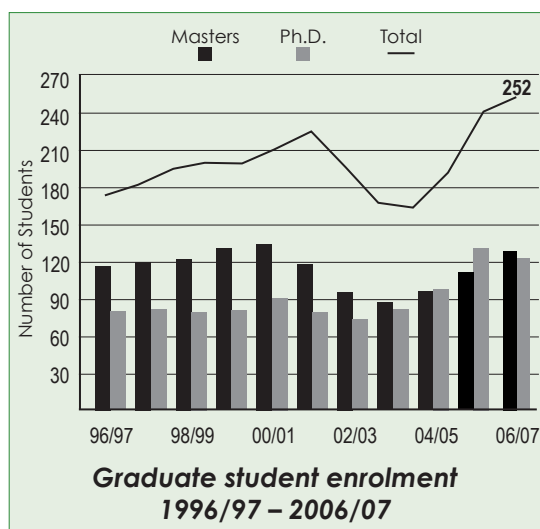
THE FACULTY OF FORESTRY offers four graduate degrees:

- 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 252 graduate students, the highest enrolment in our history for a second consecutive year.



Forty-two students graduated, 25 with Masters degrees and 17 with Ph.D. degrees. Average time-in-program was three years for masters and five years for doctoral students. Women comprised 39.5% of our masters and 39% of our doctoral students.

Distribution of students by program 2006 – 07*

	Male	Female	Total
Ph.D.	75	48	123
M.Sc.	58	48	106
M.A.Sc.	11	0	11
M.F.	7	3	10
Non-thesis	2	0	2
Total	153	99	252

*As of December, 2006.

Distribution of students by department 2006 – 07*

Department	Masters	Ph.D.	Total
Forest Resources Management	51	41	92
Forest Sciences	50	42	92
Wood Science	28	40	68
Total	129	123	252

*As of December, 2006.

The Faculty of Forestry continues to attract excellent graduate students from Canada and around the world. Forty-eight percent of our graduate students are from countries other than Canada, and we have students from 38 different countries, making Forestry the most culturally-diverse graduate program on campus. We celebrate this diversity in many of our social activities and have introduced a new process by which 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

The Forestry Graduate Student Association (FGSA) organized a welcome back barbecue, wine and cheese social, and monthly socials with themes that included a pub quiz, a musical 'coffee house' and English country dancing. The FGSA executives were Alex Plattner, Azadeh Faghihi, Shannon Daradick, and Hannah Buschhaus.

Students presented their research at the Faculty's Celebrate Research Poster Night and awards for outstanding posters were presented to Sylvia Wood, Kimberly Hruska, Babita Bains and Alyson McHugh. Anne-Helene Mathey (Ph.D. with J. Innes and E. Krcmar), was awarded the prize for best Ph.D. thesis. Wellington Spetic received the Graduate Teaching Assistant Award.

Doctoral Students

Aitken, Kathryn	UGF
Alexiadis, Pavlos	ALLEN
Amoroso, Mariano	BASSETT
Anderson, Axel	NSERC PGS
Bears, Heather	UGF PAETZOLD
Bennett, Joseph	NSERC CGS, UGF GES
Bingham, Marcus	VANDUSEN
Branton, Margaret	UGF
Brooks, Denise	UGF PAETZOLD
Brooks, Jessica	UGF GES
Camfield, Alaine	UGF
Campbell, Jocelyn	NSERC CGS
Canam, Thomas	NSERC PGS
Chen, Yue	COCHRAN
Chi, Faustino	COMMONWEALTH
Cockle, Kristina	NSERC CGS
Coleman, Heather	NSERC PGS
Crossin, Glenn	NSERC CGS
Deslippe, Julie	NSERC PGS
Dordel, Julia	TIMBERWEST FS
Floyd, William	NSERC PGS
Gonzales, Emily	CANNON
Hajjar, Reem	TIMBERWEST FRM
Hegde, Ravi	NAMKOONG
Hember, Robbie	CFS
Hilker, Thomas	DAAD
Holliday, Jason	UGF
Hruska, Kimberly	UGF
Kim, Inae	UGF GES
Kirby, Kathryn	NSERC PGS, UGF
Krzyzanowski, Judi	MCPHEE
Lantz, Trevor	UGF
Li, Minghao	HELLER
Maloney, Victoria	MCPHEE
Massoumi-Alamouti, Sepideh	NSERC PGS
McDonnell, Lisa	NSERC PGS
Northway, Steven	UGF
Qin, Wenjuan	NSERC IPS
Rosin, Klemens	MCPHEE
Sakals, Matthew	CANFOR
Schwab, Olaf	WELDWOOD
Spetic, Wellington	JOHAL, GTA
Tannert, Thomas	LUMBER

Timko, Joleen
Unda, Faride
Vidal, Natalia
Wang, Guangyu
Wilson, Amy
Wilson, Scott

O'RIORDAN
NSERC PGS
WELDWOOD
MACAREE
UGF
UGF

Masters Students

Ames, Caroline	SOPRON
Bater, Christopher	NSERC CGS
Baumber, Stephen	MCPHEE
Beiler, Kevin	UGF
Berheide, Daniel	MCPHEE
Blair, Timothy	NSERC CGS, NSERC TUS, UGF GES
Brockett, Beth	COMMONWEALTH
Brooks, Dallin	NSERC IPS
Cavill, Jacqueline	MCPHEE
Chang, Xue Feng	MCPHEE
Chau, Jo	VANDUSEN
Coggins, Samuel	CFS, GRAHAM
Curtis-McLane, Sierra	UGF
Davis, Neil	MCPHEE
Deguisse, Isabelle	NSERC CGS
Dewi, Meiliana	UGF GES
Dick, Graeme	UGF GES, NSERC IPS
Huebert, Colin	UGF
Keir, Karolyn	CHISHOLM
Kleiber, Danika	HOFFMEISTER, UGF GES
Larson, Lisa	NSERC CGS
Malkinson, Leah	MCPHEE
Masupayi, Patricia	COMMONWEALTH
McHugh, Alyson	HANSON
Miquelajauregui, Yosune	CONACYT
Moreira Munoz, Simon	SMITH
Nadeau, Patrick	NSERC PGS
Pointeau, Virginie	MCPHEE
Pon, Lucas	NSERC PGS
Reiss, Aya	NSF
Shandling, Melody	MCPHEE
Storry, Kristin	WEBER
Turvey, Shannon	NSERC CGS
Valencia, Cecilia	CONAYCT
Weber, Sarah	MCPHEE
Wood, Sylvia	NSERC PGS

Association of BC Forest Professionals.
 George S. ALLEN Memorial Scholarship.
 Edward W. BASSETT Memorial Scholarship in Reforestation.
BRIGHT FUTURE Scholarship.
 Don BUCKLAND Memorial Scholarship in Forest Pathology.
CANFOR Corporation Fellowship in Forest Ecosystem Management.
 Canadian Forest Service.
CANNON AAAS US National Parks Scholarship.
 Hugh Robert Duncan CHISHOLM Scholarship in Forestry.
 Ralph and Elizabeth COCHRAN Scholarship.
COMMONWEALTH Scholarship.
CONAYCT (Mexico Council of Science and Technology).
DAAD Jahresstipendium fuer Doktoranden Scholarship
 Deutscher Akademischer Austausch Dienst.
DU PONT Canada Fellowship in Pulp and Paper.
 McLean FRASER Memorial Scholarship.
 Canada – US FULBRIGHT Scholarship

Braham G. GRIFFITH Memorial Scholarship in Forest Resources Management.
Graduate Teaching Assistant Teaching Award.
 Brenda HANSON Memorial Scholarship in Forestry.
 Paul HELLER Fellowship.
 Bob HINDMARCH Award.
 Bert HOFFMEISTER Scholarship in Forest Wildlife.
 Asa JOHAL Graduate Fellowship in Forestry.
 Izaak Walton KILLAM Memorial Pre-Doctoral Fellowship.
LUMBER Inspector's Benevolent Society Scholarship.
 Mary and David MACAREE Fellowship.
 Donald S. MCPHEE Fellowships.
NAMKOONG Family Fellowship in Forest Sciences.
 Natural Sciences and Engineering Research Council of Canada.
NSERC Canada Graduate Scholarship.
NSERC Industrial Postgraduate Scholarship.
NSERC KILLAM.
NSERC Julie PAYETTE.
NSERC Post Graduate Scholarship

NSERC Top Up Supplements.
 Forestry Research POSTER Winners (1st, 2nd, 3rd).
 J. Harry G. SMITH Scholarship in Forest Resources Management.
SOPRON Alumni Fellowship.
Social Sciences and Humanities Research Council of Canada.
SSHRC Canada Graduate Scholarship.
TIMBERWEST Forest Limited Fellowship in Forest Resources Management and Planning.
TIMBERWEST Forest Limited Fellowship in Forest Sciences.
 University of B.C. Graduate Fellowship – Graduate Entrance Scholarship.
 University of B.C. Graduate Fellowship – Cordula and Gunter PAETZOLD.
VANDUSEN Graduate Fellowships in Forestry.
 Adrian WEBER Memorial Scholarship in Forest Ecology.
WELDWOOD of Canada Limited Scholarship in Forestry.
WELDWOOD of Canada Ltd. H. Richard WHITTALL Scholarship.

Degrees Conferred, May 2006 and November 2006 Congregations

M.A.Sc.

KURAS, Piotr Kazimierz*Drs. Y. Alila and M. Weiler*

Forest road and harvesting effects on the hydrology of a snow-dominated catchment in south-central British Columbia.

SHETTY, Mithun Karunakar*Dr. K. Lyons*

Development of a leaf spring U-bolt transducer: Part of an onboard weighing system for off-highway log trucks.

VAHID, Saba*Dr. T. Sowlati*

Efficiency and productivity measurement of the Canadian manufacturing sector: 1994-2002.

M.Sc.

ABBEY, Tyler*Dr. R. Guy*

Temperature response and acclimation in coastal Douglas-fir fine root respiration in the laboratory and field.

BOYD, Jeremiah Joe*Dr. R. Trosper*

Aboriginal economic development by two Cariboo-Chilcotin forestry joint ventures.

BRADIC, Slobodan*Dr. S. Avramidis*

Impact of juvenile wood on the drying characteristics of Pacific Coast hemlock structural timber.

CHEDGY, Russell James*Dr. C. Breuil*

The role of extractive depletion in the fungal colonization of Western Redcedar (*Thuja plicata* DONN).

EWANICK, Shannon Melinda*Dr. J. Saddler*

Bioconversion of mountain pine beetle-killed lodgepole pine to ethanol.

HENZE, Kim-Jana*Dr. P. Evans*

Visualization of the spatial variation of wood density in western hemlock.

HILTON, Alana Jean*Dr. J. Richardson*

Effects of forest cover and food limitation on the growth and survival of juvenile and adult northwestern salamanders (*Ambystoma gracile* Baird).

JUNG, Brian*Drs. R. Kozak and T. Maness*

Development of an industrial image acquisition system for the measurement and dimensional control of wood furniture components.

KANO, Tamaki*Dr. J. McLean*

Characteristics of trees infested by Douglas-fir beetles in Kootenay Lake Forest District.

LALONDE, Rachelle Germaine*Dr. C. Prescott*

Partitioning heterotrophic and rhizospheric soil respiration in a mature Douglas-fir forest.

LANSDOWNE, Matthew W.*Dr. K. Lyons*

Load sharing between stringers in gravel decked log bridges.

MACDONALD, Iain Sutherland*Dr. R. Kozak*

E-learning as a training tool in the South African furniture industry: Pedagogical techniques and learner support.

MCGUIGAN, Erin K.*Dr. J. Innes*

Of moose and man: Collaborating to identify First Nations' priorities for cumulative impact assessment in northeast British Columbia.

MEYER-RACHNER, Jessica Monika*Dr. M. Feller*

Restoring the flame: Fire management in national and provincial parks of British Columbia.

MOODY, Randall John*Dr. M. Feller*

Post-fire regeneration and survival of whitebark pine.

NISHIO, Grant*Dr. S. Mitchell*

Impacts of partial harvesting on stand structure and wildlife habitat in the Prince George Forest Region.

SHI, Qi*Dr. V. LeMay*

A literature review of LIDAR remote sensing for forestry applications.

TWIEG, Brendan David*Dr. S. Simard*

Ectomycorrhizal communities of Douglas-fir and paper birch along a gradient of stand age following clearcutting and wildfire in the Interior Cedar-Hemlock zone, southern British Columbia.

UITTO, Taina Eliisa*Dr. P. Wood*

Pipes, pennies, and politics: An exploration of water conservation in the greater Vancouver area.

UKRAINETZ, Nicholas Karl*Dr. S. Mansfield*

Quantitative genetics and QTL mapping of growth and wood quality traits in coastal Douglas-fir.

YAN, Xiaoqian Echo*Dr. D. Cohen*

Exploratory research on branding Canadian wood products in China.

YOUNG, Jeffery*Dr. S. Hinch*

Physiology, behaviour and mortality of Fraser River sockeye salmon as they migrate upstream to spawn.

Ph.D.**ASTRUP, Rasmus Andreas***Dr. B. Larson*

Modeling growth of understory aspen and spruce in western boreal Canada.

BOWER, Andrew David*Dr. S. Aitken*

Ecological genetics and effects of inbreeding and white pine blister rust on genetic structure of whitebark pine (*Pinus albicaulus* Engelm.).

GRESKIW, Garth East*Dr. J. Innes*

Communicating 'forest': Co-managing crises and opportunities with Northern Secwepemc First Nations and the province of British Columbia.

GU, Jianzhong*Dr. F. Lam*

An efficient approach to evaluate seismic performance and reliability of wood shear walls.

HARSHAW, Howard William*Dr. S. Sheppard*

The representation of outdoor recreation in land-use planning in British Columbia.

JERABKOVA, Lucie*Dr. C. Prescott*

Effect of variable retention harvesting and stand type on soil nitrogen availability in boreal mixedwood forests.

LAVALLEE, Susanne L.*Dr. J. Richardson*

Ecology and condition of the ground beetle, *Scaphinotus angusticollis*, and distribution of its prey in Pacific Northwest riparian forests.

LEE, Sangwon*Dr. C. Breuil*

Fungi associated with the mountain pine beetle, *Dendroctonus ponderosae*.

LEWIS, John L.*Dr. S. Sheppard*

Culture and the forested landscape: Inter and intra-cultural perceptions of modified forest landscapes.

LIEWLAKSANEEYANAWIN, Cherd sak*Dr. K. Ritland*

Genetic evaluation of domesticated and natural populations of lodgepole pine using molecular markers.

MAHON, Carmen Lisa*Dr. K. Martin*

Temporal and spatial variation in habitat quality: Breeding ecology of the chestnut-backed chickadee in uncut and partial cut forests in British Columbia.

MATHEY, Anne-Helene*Drs. J. Innes and E. Krcmar*

A co-evolutionary cellular automata for the integration of spatial and temporal scales in forest management planning.

MIMURA, Makiko*Dr. S. Aitken*

Dynamics of species' range: adaptation and gene flow in sitka spruce.

NITSCHKE, Craig Robert*Dr. J. Innes*

Integrating climate change into forest planning: A spatial and temporal analysis of landscape vulnerability.

PHILIP, Leanne Jane*Dr. S. Simard*

The role of ectomycorrhizal fungi in carbon transfer within common mycorrhizal networks.

RANGEL-SALAZAR, Jose Luis*Dr. K. Martin*

Population dynamics of the ruddy-capped nightingale thrush (*Catharus frantzii*) in the central highlands of Chiapas, Mexico.

TIKINA, Anna V.*Dr. B. Larson*

Assessing the effectiveness of forest certification in the U.S. Pacific Northwest and British Columbia, Canada.

INTERNATIONAL ACTIVITIES within the Faculty of Forestry continue to evolve. In 2006 the Faculty review team commented that the international activities of the Faculty “will bring enhanced and significant recognition to the university over time”.

There are ongoing attempts to increase the number of international students that wish to spend time in the Faculty, and we continue to strive to improve our teaching by attempting to have international content included where appropriate within courses. Our faculty members are involved in a wide range of international activities, but we still need to find innovative ways to fund formal and more meaningful research collaborations with other institutions around the world.



John L. Innes
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Director
International Forestry
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International Activities

The Faculty continues to work on its international activities and linkages. Our international extramural funding sources in 2006-2007 saw a drop of 16% (4.4% to 3.8% of all faculty extramural funding sources). The number of projects funded through international sources decreased from 11 projects to 7 projects. We are currently seeking ways to change this, such that the many and diverse opportunities available become more attractive for researchers in the Faculty.

The Faculty welcomed over 100 international visiting researchers from 24 countries last year, contributing to our aims for greater internationalization of the Faculty. Our faculty members not only welcomed fellow researchers from around the world, but also played an active role in international research activities. Last year, 22 of our faculty members participated in 60 international committees, as well as 22 faculty presenting 62 papers outside of Canada.



Chiara Longhi
M.A.
International
Recruitment Officer
604-822-9187
chiara.longhi@ubc.ca

Student Recruitment and Exchange

Our student exchange program continues to be an option for students at both the undergraduate and graduate levels. Students can select from 22 institutions in 13 countries. In the 2006-07 academic year, we had students who went to Australia, New Zealand, Sweden, United Kingdom and Malaysia. We hosted 29 international exchange/visiting students who visited us from 14 different universities in nine different countries including Australia, Denmark, Finland, Japan, Korea, New Zealand, the United Kingdom and the United States. With 9 students going on exchange from the Faculty, and 29 incoming exchange students, there continues to be a marked imbalance in our program. This is an issue that we are attempting to deal with, but

which will require substantial modification to our current degree programs. The Go Global office, the former Exchange office, with the support of the individual faculties, has successfully expanded our program to include international work placements and internships as another option for students who wish to gain more international experience.

We continued our concerted efforts to make international students more aware of programs within the Faculty of Forestry through participation in international recruitment activities, including recruitment fairs throughout the Pacific Northwest and Idaho, with plans to expand to Europe and Asia if funding can be obtained. The effort appears to have been successful, and the number of applications from international students is increasing.

The TRANSFOR program (Transatlantic Education for Globally Sustainable Forests) continues to increase student mobility between the European Union and Canada. We hosted 9 students during the summer for the Canadian field course. We are grateful to Dr. Bruce Larson for playing a major role in implementing this agreement.

Links with China

We continue to develop strong links with universities and research institutions within China. The proposed 2+2 program with Nanjing Forestry University was approved by the UBC Senate and is now in an implementation phase. 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.

In 2004 and 2006, cooperation agreements were signed between the University of British Columbia and Nanjing Forestry University, Tongji University (Shanghai), South-Central Forestry University (Changsha), Fujian Agriculture and Forestry University (Fuzhou) and the State Forestry Administration Staff Management College (Beijing). Over the last year, cooperation agreements have been signed between the UBC Faculty of Forestry and Jiangxi Agriculture University (Nanchang), Southwest Forestry College (Kunming), the Academy of Forest Inventory and Planning (State Forestry Administration – Beijing), the Chinese Academy of Forestry (Beijing), and the Fujian Soil and Water Conservation Service (Fuzhou). In addition

to these institutions, we have long-standing agreements with Beijing Forestry University and the Northeast Forestry University in Harbin, and we have started negotiation with the Tibet Agriculture and Animal Husbandry College over possible cooperation.

In cooperation with the International Union of Forest Research Organizations and the Chinese Academy of Forestry, we will be organizing a symposium on “Challenges and Opportunities of Forest Research in the Policy-Making Process” in May 2007 in Beijing. Of the 15 presenters from around the world, two will be from the UBC Faculty of Forestry (Yousry El-Kassaby and John Innes).

Other agreements

While we have been focusing on links with China, we have also been looking at the possibility of developing links with universities elsewhere. For example, we have recently signed a cooperation agreement with the Federal University of Jequitinhonha and Mucuri Valleys, Brazil. This agreement represents a departure from established practice. Instead of trying to negotiate an agreement with one of the large urban universities in Brazil, we have deliberately encouraged links with this smaller regional university as it is located in an impoverished rural area of Brazil, and we feel that we can make a significant contribution by helping the university meet some of its social aims, including the encouragement of rural development and the reduction of poverty. We are currently working with the university to examine ways in which we can best achieve this aim.

FOR MORE THAN 13 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 2006 – 07

- With financial support from the Ministry of Forests and Range, the First Nations Council of Advisors and the Faculty were able to review and revise the First Nations strategy, completing the following documents:
 - "Detailed Achievements Report" on 2001-2006 of the First Nations strategy,
 - "Summary of Achievements and Lessons Learnt"; "Furthering Aboriginal Forestry: A Strategic Plan for 2007 – 2010." "Detailed Achievements Report" on 2001-2006 of the First Nations strategy, "Summary of Achievements and Lessons Learnt";
- Based on a planning workshop in November, 2006, the First Nations Council of Advisors, faculty and staff completed a new plan, titled "Furthering Aboriginal Forestry: A Strategic Plan for 2007 – 2010."
- Dr. Ronald Trosper from the Salish and Kootenai Tribes of the Flathead Reservation, Montana, began his third year in the Faculty as associate professor of Aboriginal Forestry, continuing to teach graduate courses FRST522, "Indigenous Peoples and Forest Land Management," and FRST 529, "Ecological Economics, and undergraduate course CONS 370, "Perspectives on First Nations and Forest Lands.""
- Warren Fortier, from Simpcw First Nation in British Columbia, continued as Coordinator of Aboriginal Initiatives until December, 2006, when he vacated the position and returned to Savona, BC. He is continuing to maintain contact with the Faculty, helping when he can. He told us "it has been my honour and pleasure to have worked with everyone within the Faculty. I wish the Faculty the very best in future endeavors."
- Warren worked directly with the student services team in the recruitment and retention of Aboriginal students. He collaborated with other Aboriginal coordinators and existing services within the Forest Sciences Centre and the First Nations House of Learning. Warren also provided support to Dr. Ron Trosper in the development and implementation of Aboriginal initiatives on and off campus. Working with Renita Drakes, he maintained the Faculty's website on Aboriginal forestry.
- Warren reached out to Aboriginal communities by participating in career fairs and accepting requests to deliver presentations on perspectives on Aboriginal forestry education.
- A total of nine undergraduate and two graduate Aboriginal students were enrolled in forestry programs in 2006-2007.
- 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.



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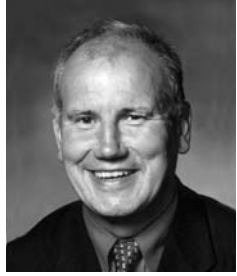
- Ronald Trosper, as chair of the Research Advisory Board for the Centre for Native Policy and Research, also served on its Board of Directors.
- This year, in coordination with the First Nations coordinator for the Faculty of Science and the Faculty of Land and Food Systems, we began to implement an 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 completed 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. Dr. Trosper is a co-investigator on a continuing project, "A Participatory Approach to Aboriginal Tenure Reform in Canada." The Carrier-Sekani Tribal Council is a participant in this project, which will examine Aboriginal tenures.
- Dr. Trosper began two new 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 new 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. In connection with this project, he presented a paper, "Indigenous influence on forest management on Indian reservations in the United States," at the International Conference Cultural Heritage and Sustainable Forest Management: The Role of Traditional Knowledge in Florence, Italy in June 2006. He also served on the organizing committee for the Sharing Indigenous Knowledge conference in Green Bay, Wisconsin in June, 2007.
- Dr. Trosper will serve 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 <http://www.forestry.ubc.ca/forsoc/>

PLANS FOR 2007 – 08

- Efforts in 2007 – 2008 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.

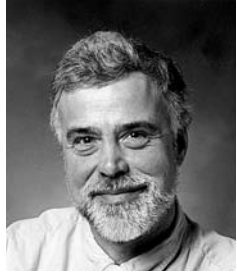
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Gordon Prest	FNCOA Co-Chair, Sto:lo
Jack Saddler	Dean of Forestry, UBC
Peter Marshall	Professor & Associate Dean of Forestry, UBC
Bruce Larson	Professor & Head FRM, UBC
Richard Vedan	Associate Professor, Social Work & Family Studies, Director, UBC First Nations House of Learning
Lyle Mueller	Aboriginal Programs Coordinator UBC Okanagan
David Nordquist	Forester, Adams Lake Indian Band
Brian Robinson	Association of BC Forest Professionals
Darrell Robb	Director, Aboriginal Affairs Branch, BC Ministry of Forests and Range
Dawna Harden	Manager of Policy and Interim Measures Aboriginal Affairs Branch, BC Ministry of Forests and Range
Keith Atkinson	President & General Manager, Coast Forest Management
Bev Sellars	BC Treaty Commission
Debbie Miller	Treaty Officer, Katzie First Nation
Laurie Vaughan	President, Administrative and General Management Consulting
Jim McGrath	Professional Forester, Kamloops Indian Band
Lennard Joe	Owner-Operator, Grizzly-man Resource Management Ltd.
Matt Wealick	Professional Forester and Manager Ch-ihl-kway-uhk Forestry
Alex Ferguson	Deputy Commissioner BC Oil and Gas Commission
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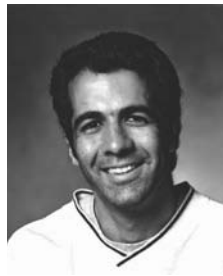
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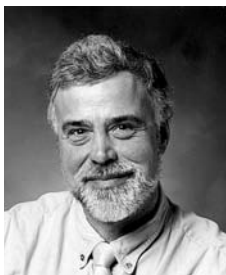
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- Dr. Gary Bull was promoted to Associate Professor with tenure, July 2006.
- Dr. Valerie LeMay was promoted to Professor, July 2006.
- Dr. John Nelson was promoted to Professor, July 2006.
- Dr. Stephen Sheppard was promoted to Professor, July 2006.

ACHIEVEMENTS IN 2006 – 07

- Dr. Bruce Larson was appointed as Department Head for a five year term. Dr. George Hoberg took administrative leave for the year.
- Drs. Alila, Coops, LeMay, Lyons, Meitner, Nelson, Sheppard and Weiler received ongoing NSERC funding. Dr. Coops received an NSERC Strategic grant.
- Drs. Innes, Trospser and Sheppard received new SSHRC grants.
- Drs. Maness, Trospser and Weiler received new SFM funding, while Drs. Bull, Hoberg, Meitner and Trospser received ongoing SFM funding.
- Drs. Alila, Coops, Gulati, Innes, Larson, Marshall, Meitner, Sheppard and Trospser received FSP funding.
- We made considerable progress in our plans to revise the BSF curriculum.
- Along with Forest Sciences we took an active role in the preparation of a restoration plan for Stanley Park following the devastating wind storms of 2006.
- We appointed Denis Collins (Min. of Forests and Range) as an Adjunct Professor.

PLANS FOR 2007 – 08

- Rod Davis (Min. of Environment) and Don Roberts (CIBC World Markets, Inc.) will be appointed Adjunct Professors effective July 1, 2007.
- Complete BSF curriculum revisions.
- Relocate parts of Adaptation and Impacts Research Division (AIRD) (Environment Canada), currently housed in IRES, to the Department.
- Build closer links with FERIC and the new FPInnovations.

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 and NGOs to address key issues facing the forest sector.

Our mission is to examine issues critical to the forest sector, 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

In 2006-07, the Forum focused on forest tenure and land management issues.

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.

The goal of this program area is to identify the information required 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.

Synthesis Papers

- SP 06-01: BC's Crown Forest Tenure System in a Changing World: Challenges and Opportunities. David Haley, UBC Forestry & Harry Nelson, FEPA Unit, UBC
- SP 06-02: Assessing the Socio-Economic Impact of Tenure Changes in British Columbia. Harry Nelson & Ilan Vertinsky, FEPA Unit, UBC & Kurt Niquidet, School of Forestry, U. of Canterbury
- SP 06-03: Ecosystem Tenures: Institutional Arrangements to Promote Stewardship & Sustainability. Hamish Kimmins, UBC Forest Sciences
- SP 06-04: Aboriginal Property Systems as an Alternative to Public Tenures and Private Property. Ronald Trosper, UBC Forest Resources Management
- SP 06-05: A Business Case for Separating Forest Land Management & Tenure from Manufacturing. Thomas Maness, UBC Forest Resources Management & Harry Nelson, FEPA unit, UBC

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

Roundtable

In January 2007, the Forum hosted a Roundtable on the land management issue. A range of stakeholders participated in a facilitated workshop to identify the principles that a new land management system in BC can be based upon. The Roundtable's findings will guide the BC Forum's research and outreach activities and provide the information and synthesis necessary to inform policy decisions.

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 November 2006 the Forum hosted a symposium entitled "Forest Tenure and Land Management: Creating New Opportunities". Over 215 participants from the forest industry, government, First Nations, banking sector, academia, communities, and NGOs attended the event that featured presentations on the synthesis papers commissioned by the Forum.

Distinguished Lecture Series

The lecture series brought together researchers, business leaders, and other stakeholders to create a strategic vision for a sustainable forest sector and included talks on:

- Social Sustainability, Stewardship and Survival. Tom Beckley, University of New Brunswick
- Global Implications for Russia's Planned Export Tax on Logs. Don Roberts, CIBC World Markets
- A Reciprocal Wood Flow Arrangement to Mitigate Economic Impacts of the Mountain Pine Beetle. Van Lantz, University of New Brunswick
- Value Chain Modeling and Pulp and Paper Industry Competitiveness. Glenn Weigel PAPERICAN

PLANS FOR 2007-08

- Continue synthesis and research work under our four priority themes: Forest Tenure & Land Management, Global Competitiveness, Value Focused Forestry, and Sustainable Community Economies
- Launch a comprehensive research program on the Forest Tenure & Land Management issue
- Publish a White Paper synthesizing findings from our research on Value Focused Forestry with recommendations on catalyzing this sector in BC
- Host a June 2007 symposium on the competitiveness of the BC forest sector that explores options for renewal and innovation
- Address issues such as carbon, bioenergy, and ecosystem services through workshops

FOREST RESOURCES MANAGEMENT

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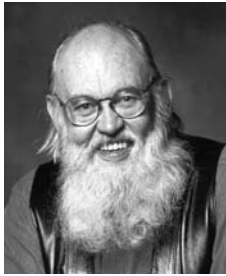
Sally Aitken



Peter Arcese



Jörg Bohlmann



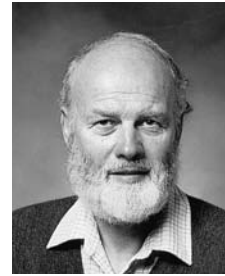
Fred Bunnell



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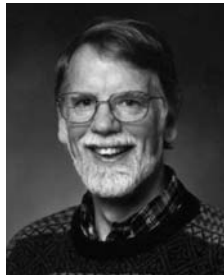
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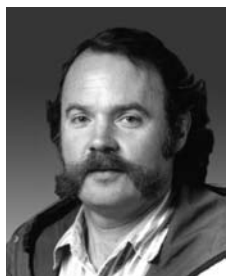
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Retirement

Dr. Bart van der Kamp retired on December 31, 2006 after 40 years of teaching and research at UBC. Bart was Head of the Forest Sciences Department from 1998 to 2005. He has been very active in the forest pathology community since he started at UBC in 1967. He has left an indelible stamp on the Faculty of Forestry and on many of his former undergraduate and graduate students.

Bart will continue to pursue his professional interests in his retirement.

ACHIEVEMENTS IN 2006 – 07

- As of July 1 2006, Dr. Prescott was appointed Associate Dean, Graduate Education for UBC.
- Dr. Bohlmann received the NSERC Steacie Fellowship for a two-year period. The Fellowships are awarded to enhance the career development of outstanding and highly promising university faculty who are earning a strong international reputation for original research.
- Dr. Bohlmann received the 2006 Charles A. McDowell Award for Excellence in Research. This award is made to an outstanding young member of the faculty of UBC who has demonstrated excellence in pure or applied scientific research.
- Drs. Krzic and Simard received the Killam Teaching prize in the Faculty of Land and Food Systems and the Faculty of Forestry respectively.

- Dr. El-Kassaby received new NSERC Discovery Grant funding and Drs. Aitken, Arcese, Chanway, Gergel, Grayston, Guy, Hinch, Kimmins, Krzic, Martin, Mitchell, Prescott, Richardson, Ritland and Simard received renewed or ongoing NSERC funding.
- Drs. Bunnell, Chan-McLeod, Feller, Gergel, Grayston, Hinch, Kimmins, McLean, Mitchell, Prescott, Richardson, Simard, Sullivan, Wells and Zhang were awarded Forest Science Program grants totaling \$1,955,807.
- On April 3, 2006, Professor Hugh Possingham from the University of Queensland, gave the Schaffer Lecture. Hugh's talk, entitled "Making biodiversity conservation decisions at global and local scales" is available at www.forestry.ubc.ca/schaffer/schaffer.html.
- Dr. Guy represented the Canadian Society of Plant Physiologists in organizing a joint symposium on Tree Physiology and Genomics, with the American Society of Plant Biologists in Boston, Aug. 5-9, 2006
- Dr. Richardson (with Dr. Moore, Forest Resources Management) organized a conference on Riparian Management Around Headwater Streams at UBC, February 19-23, 2006.
- Dr. Kathy Martin organized a symposium on 'Forestry in BC after the Beetle Epidemic' for UBC Celebrate Research Week in March 2007, which include three presentations by several faculty members.
- Dr. Martin, with colleagues at UBC, SFU, and Univ. of Alta received 3 yr NSERC SRO funding for International Polar Year, to study climate forcing of alpine tundra ecosystems in the Yukon.

PLANS FOR 2007 – 08

- Pursue the establishment of NSERC Industrial Research Chairs in Forest Protection.
- Maintain high level of proposals to NSERC, FIA and other funding agencies.
- Continue to develop the undergraduate programs in Natural Resources Conservation, Forest Science, and Forest Resources Management.
- Emphasize recruitment activities designed to attract high quality graduate and undergraduate students to the Faculty.
- Dr. Kimmins will chair the sixth North American Forest Ecology Workshop – From Science to Sustainability: Knowing, Understanding and Applying at UBC from June 18-20, 2007.
- Dr. Mitchell will organize the IUFRO Section 8.01.11 Wind and Trees Conference at UBC, August 5-9, 2007.

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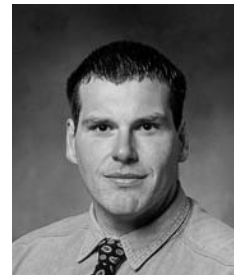
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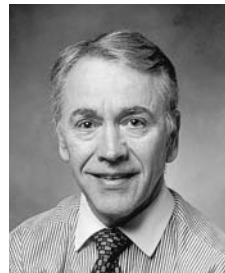
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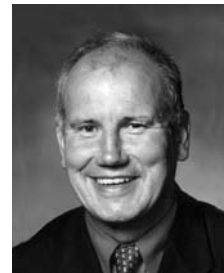
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ACHIEVEMENTS IN 2006 – 07

- The Wood Products Processing program achieved an enrolment of 107 undergraduate students with a new student intake of 36.
- The co-op program continued as an integral and highly successful component of the Wood Products Processing program.
- Recruitment and outreach activities included: participation in 16 education and career events; 21 visits to high schools and colleges; and 39 presentations to 1,243 students and 47 educators. We also liaised closely with prospective students, and achieved a 28% increase in applications with an overall increase of 43% in new registered students in 2006 compared to 2005.
- An event was held in April 2006 to recognize the 10th anniversary of the Wood Products Processing program.
- Students from Dr. Greg Smith's composite class represented UBC in an engineering design competition organized by the Canadian Wood Council. One group placed second in the overall performance category, another group won the longest distance category and a third group won the best team spirit category.
- A group of Wood Products Processing students collaborated with students from the UBC School of Architecture and Emily Carr Institute of Art and Design Industrial Design programs on a project to design wood-based prefabricated housing units.
- Both the Department and CAWP were externally reviewed in late 2006.

- Dr. Phil Evans completed his five year term as Director of the Centre for Advanced Wood Processing in December 2006.
- Dr. Paul McFarlane completed his five year term as Department Head in February 2007 and was reappointed for a second term.
- In response to the external reviews' recommendations, a CAWP Management Committee has been established, with Dr. Cohen serving as the Chair.
- Dr. Phil Evans continued to lead the very successful CIDA funded project on wood products education for South Africa.
- Dr. Shawn Mansfield was appointed a Senior Early Career Scholar by the Peter Wall Institute for Advanced Studies.
- Dr. John Kadla was appointed Editor of the Journal of Wood Chemistry and Technology.
- Dr. Colette Breuil was appointed a Fellow of the International Academy of Wood Science.
- Dr. Phil Evans led a successful bid by the Department to become a member of the US-based Wood-Based Composites Center.
- Drs. Breuil, Evans, Lam, Mansfield and Ruddick received new NSERC Operating Grant research funds. Drs. Avramidis, Dai, Kadla, Saddler, Smith and Sowlati are receiving ongoing funding.
- Drs. Evans, Cohen, Kozak and Smith received new funding from the Value-to-Wood program.
- Dr. McFarlane received new funding from the SFM Network.
- Dr. Kozak was on sabbatical leave from July 2006 to June 2007 and Dr. Evans was on administrative leave from January 2007 to December 2007.

PLANS FOR 2007 – 08

- Following input from the Department External Review a range of curriculum options for delivery of programs incorporating some of the courses from the Wood Products Processing program will be examined.
- Diverse initiatives will be completed to respond to the recommendations of the Departmental review committee.
- Funding for the BC Leadership Chair in Advanced Wood Processing will be completed.
- An appointment will be made to the Chair in Wood Building Design and Construction.
- Faculty will continue to vigorously pursue diverse funding sources to support wood products research.



Photo: Jamie Myers

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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. These industries, which are generally small to medium scale enterprises (SMEs), manufacture a diverse range of products whose value greatly exceeds their raw material content. The success of such SMEs depends, in part, on their ability to effectively adapt and utilize new concepts and manufacturing technology in order to produce the products and services that an increasingly discerning and unforgiving global marketplace requires. CAWP's role within this context is to provide industry with access to highly educated and trained students with the capacity to lead and drive change in the industry; offer a continuing education program aimed at enhancing the skills of existing industry employees and an extension service designed to improve the manufacturing efficiency of SMEs; finally an interdisciplinary research program. In fulfilling this mandate, CAWP is playing an important role in the development of Canada's forest industries and providing a model for educational-industry partnerships that institutions in many countries are seeking to emulate. CAWP is funded through an endowment and cost recovery on services.

Efforts to create a new BC Leadership Chair in Advanced Forest Products Manufacturing have progressed well under the stewardship of Dr. Phil Evans. Dr. Evans completed his five year term as Director in December 2006. As a consequence of his effective leadership CAWP is well positioned to meet the ongoing needs of Canada's wood processing sector.

In 2006-07 CAWP continued to enjoy strong support from industry equipment and technology suppliers, enabling us to maintain and improve our state-of-the-art laboratory facilities. A new Industrial Wood Finishing Certificate was launched in 2006 and received positive feedback from participants for its blend of flexible online study and an intensive face-to-face practical session. A number of CAWP staff and faculty associates have been centrally involved in curriculum development activities as part of our Canadian International Development Agency-funded project to create wood products processing education programs for use in South Africa. The process has strengthened both undergraduate and industry training courses at CAWP through the development of improved teaching materials and learning resources, and a number of new training courses will shortly be available within Canada as a result.

In 2006 the Department of Wood Science and CAWP were the focus of an external academic review – a process which created an excellent

opportunity for an internal self-study which focused on ways to improve internal synergies and structures in order to better-serve the industry. Extensive consultation within the two units and with senior university administration and external stakeholders resulted in the implementation of a new management structure designed to harmonise the efforts of both units and encourage greater participation in the activities of CAWP. A new Management Committee has been established to ensure that faculty members in the Department of Wood Science provide direct input into CAWP activities, and major decisions on equipment acquisition and use will also be made using a committee-based approach.

Seven companies supported CAWP's programs via our industry partnership program in 2006 – these were; Interforest, Goodfellow, Raywal Kitchens, Weyerhaeuser, Stack-A-Shelf, Tolko and Unison Windows. Many machinery companies continue to provide significant in-kind support.

Educational Programs

The Wood Products Processing program remains the largest degree program in wood technology/wood science in North America. The 10th anniversary of the Wood Products Processing co-op program was celebrated in 2006, along with the successful completion of more than 500 work terms within the wood products sector. In 2006-7 there were 50 work terms completed, reflecting a well-balanced geographical distribution across Canada in British Columbia, Alberta, Manitoba, Ontario, and New Brunswick.

CAWP endeavours to offer the best possible equipment and facilities to students, reflecting the latest technological innovations in the industry. In 2006-7 new collaborative agreements with CAD/CAM software providers brought a full educational version of AutoCAD to the undergraduate computing lab. In addition, the powerful Solidworks 3D modeling system and Microvellum integrated quotation and design package have been installed for student use. Integrated ceiling-mounted data projectors have been added to the CAWP classroom, and a new large-screen LCD display system installed in the simulation lab. In the high-head machinery laboratory the existing wide-belt sanding unit and edgbander have both been replaced by updated models through the generous support of SCM. Under an agreement negotiated with SCM in early 2007 a five-axis router will be added to the high-head lab inventory, complementing the 3-axis machine already in place. SCM has also agreed to base a technician at CAWP to service the SCM equipment, which will greatly improve the technical support available to students and industry learners.

Continuing Education, Communication and Extension

In January 2007 the first full version of the Industrial Finishing Certificate was offered following a successful pilot iteration in 2006. Ten learners – five from BC, four from Ontario and one from Indonesia – participated in this year's program. The program has received attention from a pedagogical perspective from several quarters for its integration of academic (undergraduate) teaching and professional (industry) training. The program includes interaction between undergraduate and industry learners through joint discussion forums and a shared e-learning web site. Other training courses based on this model are being considered. The UBC Certificate in Kiln Drying continues to be delivered annually as a series of four one-week sessions at UBC. A proposal is currently being prepared to develop web-based pre-study components to shorten time away from the workplace for trainees and thereby increase enrolment.

In August 2006 CAWP and Wood & Wood Products magazine held their third joint conference on industrial wood finishing in Atlanta prior to the International Woodworking Fair. A second major event took place in February 2007, with a series of workshops and symposia on the digital fabrication and design of wood products that attracted over 200 architects, designers and educators from around North America. The events included several integrated design and manufacturing workshops utilising CAD/CAM software and the Hundegger K2 CNC milling machine in the CAWP high-head machinery laboratory. Prominent architects and designers also gave well-attended evening lectures, and the week-long series culminated in a reception and exhibition in the Forest Sciences Centre.

CAWP's international development project in South Africa, supported by Canadian International Development Agency, is progressing on schedule. Two e-learning courses have now been fully developed, three more will be completed within 2007, and the remaining two undergraduate courses will be rolled out in 2008. The project has grown in scope, with an agreement for UBC to provide two further e-learning courses on wood science and the forest products industry for use as industry training courses. CAWP has also entered into a partnership with Emily Carr Institute (ECI) to develop a course on furniture design for industry learners in South Africa. The latter course will be funded by South African provincial and federal government contributions, but a version of the finished course is also expected to be offered by CAWP/ECI in Canada.

CAWP has secured an agreement with BC Wood Specialties Group for use of the training curriculum formerly taught at the Value-Added Skills Centre, Abbotsford. The agreement will allow CAWP to offer technical training on all of the major wood processing machinery at CAWP, and at company locations through flexible in-plant training services.

Research

CAWP's role under an integrated structure with the Department of Wood Science will be 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. In 2007 CAWP will consult with industry regarding the creation of a regular forum at which academic and industry participants can share information on current research and determine future priorities.

The Wood Based Composite Centre recently (2006) re-evaluated their partner universities, during which UBC submitted its application to be considered as a partner university in competition with the original US university partners. UBC was successful in its efforts, displacing one of the original university members, and is the first and only university partner from outside the US. During the meeting, the partner universities presented research results in the form of presentations and posters to the industrial members, followed by a tour of the UBC facilities. Based on the comments from the Advisory Board, UBC presented well and reaffirmed the Board's decision to admit UBC to the group.

Six faculty members of the Department of Wood Science have received funding (\$467k over two years) for five new research projects from the NRCan-CFS Value-to-Wood program for 2007-09. 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 2007 – 08

- Increase industry support for CAWP by further developing our industry partnership program.
- Launch new e-learning and blended learning courses in advanced wood processing.
- Provide flexible industry training solutions tailored to company needs.
- Increase industry involvement in determining research priorities through an annual research forum.
- Reevaluate the means to provide benefits to the Canadian advanced wood processing sector and if required expand the Industry Advisory Board to assist.
- Evaluate the effectiveness of the new CAWP administrative structure.

CENTRE FOR ADVANCED WOOD PROCESSING

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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 and ecosystems and responsible use of natural resources.

HIGHLIGHTS OF 2006 – 07

Launch of New Website

Thanks to the hard work of CACR PDF Tara Martin, our new website has been launched:
<http://cacr.forestry.ubc.ca/>
Please visit us on-line for recent updates on research and news on upcoming events.

Smart Decision-Making in Conservation: Workshop and Seminar

CACR hosted a public lecture and workshop to improve the quantitative tools used in decision-making for marine and terrestrial reserve design. The week opened with a public lecture by Professor Hugh Possingham, a Fellow of The Australian Academy of Science. Hugh recently received the Fenner medal from the Australian Academy of Sciences and Australian Mathematical Society Medal for work on MARXAN, software developed in his lab and used world-wide to find optimal solutions for reserve design. Professor Daniel Pauly (UBC Fisheries Centre) spoke on the challenges of sustainable management of marine ecosystems. A "Marxan Best Practices Workshop" involved managers from around the world to develop best management practices for using MARXAN and drafted a publication led by Pacific Marine Analysis and Research (PACMARA), a non-profit leader in systematic marine conservation planning.

CACR Graduate Seminar Series

Our graduate seminar (CONS 503) focuses on multi-stakeholder land use planning, tackling a new case study each year from social, ecological and economic dimensions. The seminar is inter-departmental by design and a collaborative effort with the Forests & Society Program. Our fall 2006 seminar was led by Gergel, T. Martin, Bull and Grayston and examined the possibility of a sustainable forest economy in Clayoquot Sound. The course examined Isaak Forest Resources, Ltd, an aboriginal forestry company, which exemplified the trade-offs faced in coastal forest management. The course integrated diverse perspectives of scientists, managers, First Nations and ENGOs.

Symposium: Forestry in BC after the Beetle Epidemic

Our Spring 2007 symposia brought together a panel of ecologists and economists to discuss the impact of current MPB policies on the future of the biotic and economic health of our forests. The symposium included:

- Forestry, Silviculture and Future Forests: The Way Forward, by Suzanne Simard, Sally Aitken, Dave Coates
- Biodiversity and Conservation on the Working Landscape: What will be Left? Who Benefits?, by Kathy Martin, Peter Arcese, and Nicholas Coops
- Forest Dependent Communities and Economies in Post-epidemic Conditions, by Thomas Maness

CACR Post-Doctoral Associate: Tara Martin

Optimal allocation of scarce resources is an area Tara Martin has been pursuing with colleagues from France and Australia, examining optimal conservation strategies for migratory species and for designation of critical habitat for Species at Risk. Tara is also developing techniques to predict the impact of overabundant deer on birds and plants on islands along the BC coast.

Research Projects

Setting Conservation Priorities in British Columbia

Fred Bunnell, founder and former director of CACR, and his colleagues have been working with the Species at Risk Coordination Office and Ecosystems Branch to create goals for species at risk within British Columbia which have now been accepted by Cabinet. Fred and colleagues are now developing tools and a framework for achieving these goals.

Corporate Social Responsibility and Value-added Wood Products

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. This year, Rob spent part of his sabbatical at Rights and Resources, an NGO in Washington, DC. His work focused on sustainable, community-based alternatives to the timber concession models that dominate forestry 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 populations 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.

Conservation Policy

Paul Wood and colleagues were invited by the South Korean government to assess optimal uses of Korea's forests given the nation's changing social, economic, and environmental conditions. Other 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.

Landscape Ecology

Sarah Gergel and colleagues are creating an historic aerial photo archive for several areas in coastal BC that will be used to reconstruct baseline (pre-harvest) forest conditions of the 1930s. They are also developing techniques to improve spatial analysis of high resolution spatial data sources using object-oriented classifiers, in collaboration with the Ministry of Forests & Range and Haida Mapping.

Sustainable Forest Management

The Sustainable Forest Management Research Laboratory, led by former CACR Director John Innes, is an interdisciplinary research unit focusing on sustainable forest management through an understanding of both human and natural systems. Research projects focus on forest certification, criteria and indicators, effectiveness monitoring, climate change, cumulative impact assessment, forest harvest policy, geomorphologic processes, biodiversity and social and cultural indicators for resource dependent and First Nation communities.

Genetics of Carnivores and other organisms

The Genetic Data Centre, directed by Carol Ritland, 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, and population structure of Alaskan carnivores. Latest projects include cabbage loopers and western tent caterpillars and social spiders.

Forest Simulation Modelling

Empirical models are excellent predictors of the past, or for a future that is the same as the past, which is unlikely. Process-based models enable one to predict futures that differ from the past, but tend to be excessively complex. Hamish Kimmins and his team are using models which are a hybrid of these approaches to conduct tradeoff and scenario analyses for multiple values at the ecosystem level. Visit: www.forestry.ubc.ca/ecomodels/

Alpine and Arctic Bird Ecology with Climate Change

Kathy Martin established The Centre for Alpine Studies (www.forestry.ubc.ca/alpine) to understand how animals survive in increasingly variable conditions in alpine and arctic habitats. Projects include research on ptarmigan and climate change on Vancouver Island and the Yukon, as well as on alpine songbirds in Smithers, BC.

Remote sensing and Biodiversity Monitoring

Nicholas Coops leads projects applying remote sensing to forest growth and biodiversity issues, including modelling mountain pine beetle damage and mapping biodiversity using satellite data.

Salmon Migration Research

Scott Hinch and colleagues are using telemetry lab and field experiments to show that high water temperatures in the Fraser River may help explain the extraordinarily high mortality rates being experienced by Fraser sockeye.

Bundling Biodiversity Carbon in Credit Markets

Gary Bull and colleagues are studying how biodiversity conservation might off-set the economic and opportunity costs of forest harvest on the BC coast, as well as throughout Canada, China and tropical areas worldwide.

Soil Biodiversity and Sustainable Forest Management

Sue Grayston, Cindy Prescott and colleagues' green tree project is a multi-disciplinary group of researchers from across BC to quantifying changes in soil microbial and faunal diversity in response to harvesting and assessing variable retention as a tool to maintain soil functions and productivity.

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.

Identifying Critical Habitat

Janelle Curtis, Tara Martin, Jordan Rosenfeld (BC MoE), Pippa Sheppard (Parks Canada) and Peter Arcese continue a project to understand the consequences of data quality on the identification of 'critical habitat' for species at risk, and to guide research, monitoring and land conservation, soliciting input from recovery teams working throughout Canada.

PLANS FOR 2007 – 08

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.

CACR will also continue in its role of helping oversee a new pilot program for funding applied graduate student research. For the next 3 years, the FIA-FSP is funding a pilot project to facilitate academic research by graduate students on applied topics in forest science and conservation. CACR oversaw the call for proposals and selection, and will host meetings between candidates and the FSP board to facilitate applied learning by students, researchers and managers in the public sector. More information can be found at: www.cortex.ca/fia-fsp/res-gsp.html.

UNIVERSITY RESEARCH FORESTS



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Research Forest**
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THE FACULTY OF FORESTRY operates three Research Forests: The Malcolm Knapp Research Forest (Knapp Forest) near Maple Ridge on the coast, the Alex Fraser Research Forest (Fraser Forest) near Williams Lake in the central interior of BC and the Aleza Lake Research Forest (Aleza 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 2006 – 07



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

- Initiated 11 new research projects, and completed 50 year re-measurement of the Douglas-fir spacing trials.
- Employed two UBC forestry students in 4-month internships and hosted three interns from Europe.
- Opened the \$2.5 million Walter C. Koerner Forestry Centre at Loon Lake, attended by over 100 guests. The new Centre includes accommodation, dining and conference facilities.
- Began design work to replace the original log cabins, the final phase of Loon Lake redevelopment.
- Increased Loon Lake facility use to 15,284 visitor-days in 2006 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 third Camp Goodtimes held at Loon Lake.
- Opened the new dock at Loon Lake funded by the Canadian Cancer Society and Ronald MacDonald House Charities.
- Cut 270,355 board feet at our sawmill facility.
- Opened a new training facility for log and timber frame construction, in partnership with Artisan Log Homes of Mission, BC.
- Completed silviculture surveys on 117 ha, brushing and deer repellent application on 42 ha, and planting of 23 ha.
- Constructed 1,891 m of new roads, and upgraded 3800 m, including the main road to Loon Lake.



ALEX FRASER FOREST
Ken Day
B.Sc.F. (Hons.), M.F., R.P.F.
Manager
ken.day@ubc.ca

- Initiated 13 new research projects.
- Recorded 505 contact days for extension activities with 250 attendees, including Fall Field School.
- Hosted the twentieth annual Fall Field School.
- Employed one UBC Forestry student, and hosted five international interns.
- Hosted two reading week volunteers.
- Led 13 tours and provided two presentations for international, Canadian and local audiences comprised of researchers, professionals, students and teachers.
- Became a member of the newly created Cariboo Chilcotin Coast Invasive Plant Committee.
- Completed AFRF Management and Working Plan #3.
- Submitted a Forest Stewardship Plan.
- Completed weather station renovations and secured silviculture history data.
- Improved signage to increase public awareness of the facility.
- Continued silviculture operations with surveys on 25.5 ha plus 115.8 ha with external funding, brushing on 10 ha plus 11 ha with external funding, and planting of 49,205 seedlings on 36.3 ha.
- Built 1.1 km of new permanent road and recommenced road ballasting and surfacing program.
- Completed two contract projects for government and industry.
- Conducted fuel management treatments on 9 ha.



ALEZA LAKE FOREST
Michael Jull
B.S.F., M.Sc., R.P.F.
Manager
jullm@unbc.ca

- Initiated 6 new research projects and maintained 23 active / ongoing projects.
- Initiated UBC research projects on LiDAR remote sensing, and nutrient cycling related to cyanolichens.
- Recorded 486 student-days for forest education, including forestry field schools, and graduate and undergraduate programs.
- Co-hosted forestry program recruitment activities for 50 Grade 10 and 11 students, in cooperation with COFI.
- Employed two UBC and UNBC Forestry students for four months each.

- Employed a forest history intern to research early ALRF projects dating from 1925 to 1970; over 50 older projects were identified for the research forest project database.
- Led 8 field tours for research and technical audiences.
- Completed fish habitat inventory on numerous stream reaches; fish species identified included rainbow trout, and Chinook salmon juveniles.
- Initiated a silviculture database, thanks to the kind assistance of Winton Global Ltd. of Prince George.
- Replaced four fish-stream crossings and drainage structures on the Aleza main road, originally built in the mid-1920s.
- Planted 75,000 seedlings on 47 ha; completed plantation assessments on 39 ha.
- Completed LiDAR and digital aerial photography data collection on > 1,200 ha.
- Remeasured 19 permanent growth-and-yield plots in shelterwood and selection partial cuts.
- Surveyed and prepared stand management plans on 135 ha of pre-1987 plantations, with BCMoFR funding.

Research Forests harvesting 2006					
		Knapp Forest	Fraser Forest	Aleza Forest	Total
Logging	m ³ ha	22,670 36	7,243 31	22,000 70	51,913 137
Commercial Thinning/ Partial Cutting	m ³ ha	3,811 10	9,598 61	1,000 8	14,409 79
Road Right-of-Way				400	400
Salvage	m ³	45	5,599	0	5,644

Knapp Forest utilized a variety of harvest methods in 2006 including ground based, skyline and helicopter. Silvicultural systems ranged from clearcut with reserves to group selection and variable retention. Commercial thinning was curtailed due to current market conditions. Fraser Forest harvesting focussed on stands with a significant component of veneer logs to take advantage of a strong market. Lodgepole pine harvest fell to 7% of total volume in 2006, as the harvest of beetle-killed pine approaches completion.

ALRF timber products included spruce and balsam sawlogs and spruce house logs. A pulplog market emerged in late 2006. In late 2006, we undertook selection (partial-cutting) operations in the “Pogue Sale”, a stand previously selection logged in 1947.

PLANS FOR 2007 – 08

Malcolm Knapp Forest

- Begin work on replacing the cabins at Loon Lake.
- 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 on-line database of all UBC Research Forest historical photographs.
- Host a portion of the Faculty’s summer recruitment camp.
- Maintain timber harvest levels at 23,000 cubic metres.

Alex Fraser Forest

- Secure historical weather data.
- Begin to address action items identified in MWP#3 (e.g. riparian inventory, including wetlands)
- Facilitate establishment of non-timber forest products research.
- Reduce timber harvest levels to 17,500 cubic metres.
- Continue to move more timber harvest into the summer and fall months.
- 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 a five-year business plan, including options for building of an ALRF forest education centre.
- Continue newly-funded remote-sensing research on LIDAR and digital photographic technologies, in partnership with UBC (Dr. Nicholas Coops), UNBC, and BCMoFR.
- Initiate “UBC Explores Aleza Lake Research Forest” travel grant program to support UBC researcher travel to ALRF
- Complete a new timber supply analysis and spatially-detailed total-resource harvesting plan.
- Continue existing wildlife monitoring programs (five species of owls; waterfowl) and upland bird and mammal species.
- Secure weather data in in-house database
- Expand the diversity of silvicultural systems used, and percentage of timber harvested under partial-cut systems.

FOREST STAFF

Cheryl Power
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Malcolm Knapp Research Forest
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Cathy Koot
B.Sc., R.P.Bio.
Research Coordinator
Alex Fraser Research Forest
cathy.koot@ubc.ca

Melanie Karjala
M.N.R.E.S.
Research Coordinator Aleza
Lake Research Forest karjal0@
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, Forest Genetics Council of BC.
- Deputy, IUFRO 2.04.01 – Population, Ecological and Conservation Genetics.
- Associate Editor, Tree Genetics and Genomes.
- Member, Editorial Board Evolutionary Applications.

ARCESE, P.

- Associate Editor, Journal of Avian Biology.
- Member, Steering Committee, MARXAN Best Practices Workshop.

AVRAMIDIS, S.

- Member, International Editorial Board, Drying Technology.
- Member, Editorial Board, Wood Material Science and Engineering.
- Member, Tecnologia, Scientific Committee, Maderas. Ciencia y.
- Member, Editorial Board, Prerada Drveta.

BULL, G.Q.

- Scientific Advisor, Chinese State Forest Administration Carbon Committee.
- Carbon Advisor, YouLead! Team and the Uganda House Planning Committee.

BOHLMANN, J.

- **UBC 2006 Charles A. McDowell Award for Excellence.**
- Fellow, NSERC 2006 E.W.R. Steacie Memorial.
- Member, Scientific Advisory Board, Amyris Biotechnologies Inc., Emeryville, CA, USA.
- Member, Science Advisory Committee, Genome BC.
- Member, Advisory Committee, Phytochemical Society of North America.
- Consultant, Procter & Gamble Co., USA & Italy.
- Consultant, Alberta Innovation and Science.
- External examiner, Stellenbosch University, South Africa; University of Melbourne, Australia.

BREUIL, C.

- Associate Editor, Mycological Research Journal.
- Member, Canadian College of Microbiologists.
- Member, American Phytopathology Society.

COOPS, N.C.

- Editor in Chief, Canadian Journal of Remote Sensing.

EL-KASSABY, Y.A.

- Associate Editor, Canadian Journal of Forest Research.
- Member, Editorial Review Board, Forest Genetics
- Task Force Coordinator, IUFRO Forests and Genetically Modified Trees.

EL-LAKANY, H.

- Member, External Advisory Group on World Bank Forest Strategy.
- Member, Executive Committee, Commonwealth Forestry Association.
- Finance Officer, Member of Management Committee, IUFRO.
- Patron, Tree Aid, UK.
- Professor Emeritus, Alexandria University.

ELLIS, S.C.

- Chair, Robert E. Dougherty Educational Foundation Scholarship Committee.

GERGEL, S.E.

- Member, Foreign Scholar Travel Award Committee, International Association for Landscape Ecology – US Chapter.
- Reviewer, National Science Foundation, Division of Environmental Biology, Ecosystem Science Cluster.
- Meeting Mentor and Fellowship Mentor, SEEDS – Strategies for Undergraduate Education, Development and Sustainability, ESA.

GRAYSTON, S.J.

- Editor (Guest), Canadian Journal of Forest Research Special Issue on Soil Biodiversity.
- Associate Editor, Canadian Journal of Forest Research.
- Associate Editor, Canadian Journal of Soil Science.
- Associate Editor, Soil Biology and Biochemistry.
- Member, NSERC Review Panel 18.

GUY, R.D.

- President, Canadian Society of Plant Physiologists.
- Member, Plant Canada Board of Directors.
- Communicating Editor and Managing Editor, Trees – Structure and Function.

INNES, J.L.

- Honorary Fellow, University of Melbourne, Australia.
- Adjunct Professor, Jianxi Agricultural University.
- Member, Editorial Board, BC Journal of Ecosystem Management.
- Member, Editorial Board, Forest, Snow and Landscape Research.
- Member, C-Questor Scientific Advisory Committee.
- Member, IUFRO Executive Board.
- Member, IUFRO Management Committee.
- Chair, IUFRO Policy Committee.

- Member, Academy of Finland, Centres of Excellence Review Group.
- Member, Canadian Intermountain Joint Venture Board.
- Americas Representative, Commonwealth Forestry Association, Executive Committee.
- Member, Forest Leadership Steering Committee.
- Member, Interdisciplinary Committee, World Cultural Council.
- Member, IUCN/SSC Sustainable Use Specialist Group.
- Member, IUFRO 2010 Congress Scientific Committee.

KADLA, J.F.

- Canada Research Chair in Advanced Biomaterials Chemistry.
- Adjunct Professor, North Carolina State University
- Fellow, International Academy of Wood Science.
- Chair, Cellulose and Renewable Materials Division, ACS.
- Editor, Journal of Wood Chemistry and Technology.
- Member, ISWPC Scientific Program Committee.
- Secretary, ACS Cellulose Renewable Materials (CELL) Division.
- Member, ISETPP Scientific Program Committee.
- Member, INWFPPC Scientific Program Committee.

KOZAK, R.A.

- **Winner, UBC Department of Wood Science Top Teacher Award.**
- Fellow, Institute of Wood Science.
- Member, Commonwealth Forestry Association.
- Member, Canadian Institute of Forestry.
- Associate Editor, Canadian Journal of Forest Research.
- Editor, Journal of Forest Products Business Research.
- Member, UN Economic Commission for Europe, Team of Specialists on Forest Products Marketing.
- Deputy Coordinator, International Union of Forest Research Organizations, Working Group 5.10.100.
- Member, Forest Products Society, Forest Products Marketing Technical Interest Group.
- Research Fellow (during sabbatical leave), Rights and Resources Initiative, Washington DC.

KRZIC, M.

- **UBC Killam Teaching Prize.**
- **North American Colleges and Teachers of Agriculture Teaching Award of Merit.**

LAM, F.

- Associate Editor (Guest), Canadian Journal of Civil Engineering.
- Member, American Society for Testing and Materials ASTM Committee D-7 on Wood.
- Member, Canadian Advisory Committee of ISO TC 165 Timber Structures.

LARSON, B.

- Honorary Member ABCFP.

LEMAY, V.M.

- Associate Editor, Forest Science.
- Associate Editor, Forestry Chronicle.
- Associate Editor, Remote Sensing of Environment.
- Co-ordinator, International Union of Forest Research Organizations, Research Group 4.01.
- Co-chair, IUFRO Complex Stands Meeting Organizational Committee (Ontario, 2007).
- Scientific Panel Member, IUFRO Modelling and Management Conference Committee (Portland, 2007).
- Scientific Panel Member, IUFRO Nearest Neighbor Workshop Conference Committee (2006, Minnesota, MN).
- Scientific Panel Member, IUFRO Nearest Neighbour Workshop (2007, Italy).

LYONS, K.C.

- Associate Editor, International Journal of Forest Engineering.

MANSFIELD, S.D.

- **Early Career Scholar, Peter Wall Institute for Advanced Studies.**
- Member, Editorial Board, Journal of Industrial Microbiology and Biotechnology.
- Member, International Advisory Board, Holzforschung.
- Member, American Chemical Society Executive Committee, Cellulose and Renewable Materials Division.

MARSHALL, P.L.

- 2nd 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.

- Fellow, International Academy of Wood Science.
- Fellow, Institute of Wood Science.
- Member, Policy and Critical Issues Committee, Society of Wood Science and Technology.
- Member, Sustainable Forest Management Network Research Advisory Committee.
- Member, SFM Network Management Team.
- Member, International Review Committee for NZ National Science Programs.
- Member, International Review Committee for the NZ Wood Quality Initiative.
- Member, Editorial Board, Appita Journal.
- Member, Editorial Board, NZ Journal Forestry Science.

McLEAN, J.A.

- VicePresident, Sigma Xi, UBC Chapter.
- President-elect, Entomological Society of BC.

MITCHELL, S.J.

- Member, Editorial Board, Forestry.
- Coordinator, IUFRO Unit 8.01.11, Wind and Trees.
- Chair, Scientific Committee, IUFRO Wind and Trees 2007 Conference.

MOORE, R.D.

- Junior Correspondent for Canada, International Association of Hydrological Sciences.
- Secretary, Canadian National Committee for International Association of Hydrological Sciences.
- Associate Editor, Canadian Journal of Forest Research.

NELSON, J.D.

- Member, IUFRO S4.04.10 Sustainable Harvest Scenarios.
- Member, Forest Estate Modelling Conference Organizing Committee.

PRESCOTT, C.E.

- Editor, Canadian Journal of Forest Research.
- Associate Editor, Ecosystems.
- Member, External Department Review Panel, Oregon State University.
- Chairperson, External Department Review Panel, Swedish University of Agricultural Sciences.
- Reviewer, National Science Foundation.

RICHARDSON, J.S.

- Professeur Invite, Universite Paul Sabatier, Toulouse 3.
- Associate Editor, Journal of Applied Ecology.
- Associate Editor, Journal of the North American Benthological Society.
- Associate Editor, Canadian Journal of Fisheries and Aquatic Sciences.
- Co-chair, Program Committee, North American Benthological Society.

RITLAND, K.M.

- Guest Professor, SLU, Umea Sweden.
- Associate Editor, Forest Genetics.
- Associate Editor, Heredity.

RUDDICK, J.N.R.

- Honorary Life Member – International Research Group Wood Protection.
- Honorary Life Member – American Wood Preservation Association.
- Member, International Research Group Wood Preservation IT Committee.
- Member, ISO Study Group.
- Member, AWP Executive Committee.

SADDLER, J.N.

- Editor, World Journal Microbiology and Biotechnology.
- Associate Editor, International Microbiology and Biotechnology (MIRCEN) Journal.
- Task Leader, IEA Biotechnology Network.
- Member, US DoE Biofuels Review Program.
- Member, BCMEM Wood Ethanol Technology Committee.
- Member, NREL Biofuels Program, (US Dept. of Energy).
- Leader, Liquid Biofuels Task 39, IEA Bioenergy.
- Reviewer, Food and Agriculture Organisation.

SIMARD, S.W.

- **UBC Killam Teaching Prize.**
- Committee Member, National Center for Ecosystem Analysis and Synthesis: Mycorrhizal Management.

SHEPPARD, S.R.J.

- Co-Chair, Centre for Interactive Research on Sustainability (Cirs), Research Cluster B1, Great Northern Way Campus.
- Co-Chair, International Symposium for Society and Resource Management Conference, 2006.
- Reviewer, International Panel on Climate Change 4th Assessment Report.

SMITH, G.D.

- Fellow, Institute of Wood Science.
- Member, Forest Products Society.

SOWLATI, T.

- **Canadian Operational Research Society Practice Prize Competition, second prize.**
- President, Canadian Operational Research Society – Vancouver Chapter.
- Member, Forest Products Society.
- Member, Institute of Wood Science.
- Member, Society for Canadian Women in Science and Technology.

WEILER, M.

- Representative of CUAHSI for UBC.
- Member, Surface Water Technical Committee, American Geophysical Union (AGU).
- Member, Modular Course Hydrology Advancement.



Photo: Jamie Myers

EXTRAMURAL FUNDING AND SPONSORED RESEARCH



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Incomes

Between April 1, 2006 and March 31, 2007, members of our Faculty were awarded a total of \$11.7 million in research funding.

Federal funding represented 45.6% of our total funds received (down from 48.2% last year). Members of the Faculty held 16 NSERC Strategic grants, 4 Collaborative Research and Development grants, 1 Special Research Opportunity grant, 1 Industrial Research Chair, 39 Discovery grants, 2 SSHRC grants and 13 Network of Centres for Excellence awards, mostly from the Sustainable Forest Management NCE. Canada Research Chairs and Canada Foundation for Innovation awards contributed another \$710,534. Natural Resources Canada contributed \$1.55 million, mostly to support research addressing the mountain pine beetle problem.

Provincial funding increased again this year, as a result of a 3-fold increase in projects funded by the FIA – Forest Sciences Program (nearly \$2.5 million). The BC Ministry of Forests and Range funded an additional 16 projects for a total of just under \$1 million dollars. Forestry Innovation Investment funds supported nine research projects for a total of \$837,595.

Private industry support for research contributed another \$1.45 million in 50 projects. The largest industry contributors were Canfor Corporation, Ainsworth Lumber and the Coast Forest and Lumber Association.

International research support was down to \$449,497 or 3.8% of research funding.

We also received endowment income of \$1.6 million for the year. This funding is provided by endowments originally set up by Forest Renewal BC in support of five Chairs, as well as from private sources.

Extramural funding sources 2006 – 07*

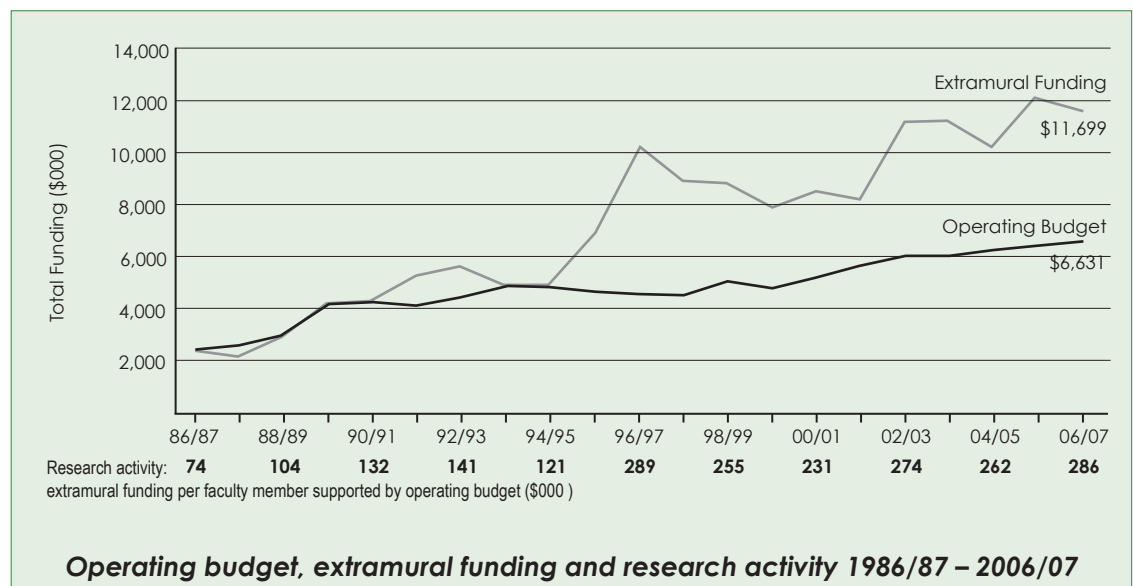
Source	\$000	Count	%
Federal			
NSERC/SSHRC	2,241	64	19.2
Natural Resources Canada	1,549	26	13.2
Canada Research Chairs	600	5	5.1
Network of Centres for Excellence	453	13	3.9
Environment Canada & Parks Canada	217	7	1.9
Canada Foundation for Innovation	111	8	1.4
Other	160	8	1.4
<i>Subtotal</i>	<u>5,330</u>	<u>131</u>	<u>45.6</u>
Provincial			
BC Ministry of Forests & Range	949	16	8.1
Forestry Innovation Investment	838	9	7.2
Forest Science Program	2,470	48	21.1
BC Ministry of Environment	184	8	1.6
Other	26	2	0.2
<i>Subtotal</i>	<u>4,466</u>	<u>83</u>	<u>38.2</u>
Private			
Industry	912	39	7.8
Other	541	11	4.6
<i>Subtotal</i>	<u>1,453</u>	<u>50</u>	<u>12.4</u>
International			
	450	7	3.8
Total	11,699	271	100

* Excluding endowments.

Outcomes

Faculty of Forestry members authored 160 articles published in 93 scientific peer-reviewed journals between April 1, 2006 and March 31, 2007. In a recent University of Auburn study on the research impacts of North American forestry programs, the UBC Faculty of Forestry was ranked as first in an index based on citations and publications.

Faculty members serve as senior Editors for six international peer-reviewed journals (Canadian Journal of Remote Sensing, Trees- Structure and Function, Journal of Forest Products Business, Journal of Wood Chemistry and Technology, Canadian Journal of Forest Research and World



Journal of Microbiology and Biotechnology), and on the editorial boards of 36 journals across the spectrum of forest-related journals.

Drs. Grayston and Nelson served on grant review panels for the Natural Sciences and Engineering Research Council of Canada.

Faculty members made presentations at over 100 scientific conferences around the world.

During the past year, twenty-one faculty members welcomed over 50 visiting researchers from 13 countries. Twenty-two of our faculty members hosted a total of 32 post-doctoral fellows.

Forestry faculty members made significant contributions to public discourse and understanding of key issues related to BC forests. A very major effort over the winter has been the contribution of several faculty members to the development of a restoration plan for Stanley Park following the devastating wind storms of December, 2006. In April of 2007 five members of the Faculty talked at an "Ask the Experts" public forum on the Park's blowdown.

Several of our faculty members are working on aspects of British Columbia's devastating mountain pine beetle epidemic. During our annual research evening in February, faculty members presented research and discussed forests and forestry in BC after the beetle epidemic.

Faculty members made several presentations in the media on diverse topics including windstorms, forest disturbance, the beetle epidemic, root-rot diseases, biofuels and bioenergy, flood risks related to the beetle epidemic and landscape effects of climate change.

Graduate students in the Faculty of Forestry continue to be actively engaged in the community. This year our students promoted science by talking to elementary and high-school students and Girl Guide troops about forests, soil, salmon and birds. Our students are active participants in the Let's Talk Science scientific literacy program which includes presentations, science fairs and summer camps.

The following list reflects research funding obtained between April 1, 2006 and March 31, 2007.

AITKEN, S.N.

- Population genomics of cold adaptation in spruce (**NSERC, \$34,000**)
- Proposal to establish a Centre for Forest Gene Conservation at the University of British Columbia (**BCMof&R, \$270,000**)
- Conifer forest health genomics (co-investigator) (**Genome British Columbia \$2,561,748**)

ALILA, Y.

- Tsitika River sediment budgets project: Effectiveness evaluation of road deactivation at Russell Creek using a sediment budget approach (**BCMof&R, \$40,000**)
- 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, \$71,400**)
- Forest management in interior BC: Moving beyond equivalent cut area (**BCMof&R, \$95,000**)
- Russell Creek water quantity modeling project (**BCMof&R, \$90,300**)
- Peak flow and water yield responses to mountain pine beetle infested and salvage logged watersheds (**BCMof&R, \$84,945**)
- Effects of varying logging rates on streamflow in upper Penticton Creek watershed experiment (**BCMof&R, \$31,500**)

ARCESE, P.

- Herbivores and exotic plants in endangered Garry oak ecosystems (Emily Gonzales) (**AAAS, \$28,600**)
- Capital improvements and support to field research on Mandarte Island (**Donation, \$15,000**)
- Application of ecological and evolutionary theory to the conservation of populations and species (**NSERC, \$48,300**)
- Where have all the flowers gone? Quantifying the processes that degrade Garry oak ecosystems (**Environment Canada, \$9,000**)
- Demography and genetics of island bird populations (**Environment Canada, \$9,000**)
- Population viability analysis for species at risk (**Parks Canada Agency, \$45,500**)
- Forest science ecosystem research pilot project (**BCMofE, \$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**)

BEATSON, R.

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

BOHLMANN, J.

- Forestry genomics project (co-investigator) (**Genome BC, \$33,241**)
- Conifer forest health genomics (**Genome British Columbia, \$2,561,748**)
- Terpenoid defenses in spruce (**NSERC, \$82,000**)
- E.W.R. Steacie Memorial Fellowship (**NSERC, \$ 90,000**)
- Conifer chemical defenses (**NSERC, E.W.R. Steacie Memorial Supplement Grant \$119,040**)
- The mountain pine beetle epidemic (co-investigator) (**NSERC, \$ 197,950**)
- GrapeGen (**Genome BC, Genome Canada, Genome Spain \$25,000**)
- TREENOMIX: Conifer forest health (co-investigator) (**Genome BC, Genome Canada, \$5,097,738**)

BREUIL, C.

- Molecular & genetic characterization of conifer host-laminated root rot pathosystems (**NRC, \$70,000**)
- Role of the proteinases in fungal growth and pigmentation on wood (**NSERC, \$18,000**)
- Decay fungi and associated rates of decay in standing trees killed by mountain pine beetle (**NRC, \$40,950**)
- Fitness and pathogenicity of the fungi associated with the MPB and other secondary beetle in green attack (**NRC, \$76,650**)
- The mountain pine beetle epidemic (co-investigator) (**NSERC, \$197,950**)

BULL, G.Q.

- Developments in Russian far east and east Siberia forest sector: Forest products and timber trade (**NRC, \$37,646**)
- The case of carbon in Mozambique's agro-forests (**Centre for International Forestry Research, \$16,814**)
- Institutional development of a domestic emission trading system that includes carbon offsets from the agriculture and forestry sectors (**BIOCAP, \$15,000**)
- Forestry Genomics Project (co-investigator) (**Genome BC, \$33,241**)
- Old-growth forests in eastern Canada: Exploring tradeoffs among timber, biodiversity, carbon, and public preferences (**NCE, \$12,000**)
- Conifer forest health genomics (co-investigator) (**Genome British Columbia, \$2,561,748**)

BUNNELL, F.L.

- Developing a conservation plan for Canadian Forest Products Ltd. operations in Northeastern BC (**industry, \$5,000**)
- Evaluating effectiveness of forest management practices at sustaining biological diversity in northeastern British Columbia (**BCMof&R, \$41,475**)
- Developing thresholds for within-stand biodiversity indicators (**BCMof&R, BCMoE, \$51,990**)
- Evaluating large-scale forest zoning to improve the efficiency of timber production and biodiversity objectives (**BCMof&R, \$82,688**)
- A species accounting system to integrate indicators of biological diversity (**BCMof&R, \$85,680**)

CHAN-MCLEOD, A.

- Factors affecting the ecological legacy of unsalvaged post-beetle stands (**NRC, \$124,709**)
- Effects of climate change on avian communities and implications for sustainable forest management (**BCMof&R, \$42,000**)
- An experimental study of variable-retention harvest methods on forest birds (**Western Forest Products Ltd., \$14,000**)
- Decision support framework for assessing alternative mountain pine beetle management strategies on sustainable forest management indicators (**NRC, \$36,080**)

CHANWAY, C.P.

- 15N foliar dilution of lodgepole pine: from where does the atmospheric N originate? (**NSERC, \$32,048**)

COOPS, N.C.

- LIDAR for forest inventory (**NRC, \$20,000**)
- Canada Research Chair in Remote sensing (**CRC, \$100,000**)
- Implications of precipitation changes on the carbon balance of pinon-juniper woodlands (**US Forest Service, \$10,000**)
- Determining year of death and nature of stand recovery using a time series analysis of remotely sensed data: Project Management (**NRC, \$96,255**)
- Multi-scale assessment of forest carbon dynamics using near-field, airborne and satellite remote sensing (**NSERC, \$25,300**)
- Using hyperspectral and Lidar imagery for improving land classifications and forest inventory (**Parks Canada Agency, \$24,281**)
- National biodiversity monitoring with satellite imagery (**NRC, \$60,000**)

- Monitoring to reduce the future risk of mountain pine beetle attack: Aerial and satellite image processing methods (NRC, \$68,500)
- Sustainable forestry indicators derived from airborne LIDAR data and high spatial resolution satellite imagery (BCMof&R, \$68,938)
- Predicting forest growth potential and climate change impacts using a MODIS satellite-constrained physiological model (\$132,900, NSERC)
- Establishment of a world-class remote sensing research laboratory (\$847, CFI)

DAI, C.

- Investigation of oriented strandboard (OSB) processing variables (Forintek Canada Corp., \$15,308)
- Hydro-thermal consolidation of wood strand composites (NSERC, \$29,600)

DAY, K.

- Alex Fraser Research Forest (BCMof&R, \$36,367)

EL-KASSABY, Y.A.

- Industrial Research Chair: Applied Forest Genetics and Biotechnology (Forest Genetics Council BC, NSERC, FERIC, industry, \$282,000)
- Applied forest genetics and biotechnology (Forest Genetics Council of BC, \$157,000)
- Gametic contribution estimates in a Douglas-fir seed orchard (Western Forest Products Ltd., \$46,363)
- Molecular breeding using Douglas-fir as a model species (NSERC, \$35,000)
- Use of DNA molecular markers to assess seed orchards' genetic efficiency (Ben Shu-Kwan Lai) (NRC, \$12,000)
- Yellow-cedar DNA finger-printing to determine co-ancestry in a phenotypically selected clonal production population (Nasim Massah) (NRC, \$12,000)

EVANS, P.D.

- Wood products processing education (AUCC, \$221,275)
- UBC 23- integrated protection of structural composites for exterior exposure (NRC, \$38,300)
- Finishing of MPB affected lodgepole pine wood (FII, \$49,560)
- UBC 73: Roller-application and UV curing of moisture resistant and fire retardant coatings on OSB (NRC, \$48,136) CFI infrastructure operating funds (CFI, \$10,902)

FANNIN, R.J.

- Seepage erosion - an improved technique for soils evaluation in till-core dams (BC Hydro & Power Authority, \$15,000)
- Seepage erosion - an improved technique for soils evaluation in till-core dams (NSERC, \$22,000)
- Piping erosion, and landslide travel distance (NSERC, \$28,000)

FELLER, M.C.

- UBC Malcolm Knapp experimental watershed infrastructure (BCMof&R, \$59,235)
- Ecology and management of riparian - stream ecosystems: a large-scale experiment using alternative streamside management techniques (BCMof&R, \$26,250)
- Maintaining open canopy conditions in Interior Douglas-fir forests at Isobel Lake, treatment effects on tree growth, forest fuels, and nutrients (BCMof&R, \$8,000)
- Fire hazard research in Mount Revelstoke and Glacier National Parks (Parks Canada Agency, \$30,000)

GERGEL, S.E.

- Clayoquot Sound Historic Air Photo Pilot Project (BCMof&R, \$45,000)
- Landscape indicators of watershed status (NSERC, \$15,590)
- Climate change, disturbance, and tall shrub dynamics in the Mackenzie Delta (Global Forest Science, \$5,500)
- Quickbird high resolution satellite imagery for riparian TEM classification (BCMof&R, \$25,714)
- Haida Gwaii 1937 air photo GIS project (Gwaii Trust Society, \$614)
- Climate change, disturbance, and tall shrub dynamics in the western Canadian arctic and subarctic (T. Lantz) (AAAS, \$29,429)

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 (NSERC, \$25,000)
- Forest fertilization and identification of microbial indicators to enhance C sequestration and reduce GHG emissions (NSERC, \$103,768)
- Green Crop Research Network - 2d Transforming plant carbon into soil carbon: process level controls on carbon sequestration (NSERC, \$44,000)
- Green tree retention: A tool to maintain ecosystem health and function (BCMof&R, \$105,099)
- Impact of nitrogen fertilization of coastal Douglas-fir stands in British Columbia on forest productivity, carbon sequestration and greenhouse gas emissions (NSERC, \$15,563)

GULATI, S

- Open access, common pool resources and non-timber values: a model for government intervention (**BCMof&R, \$16,852**)
- The effect of regulating sulfur dioxide from power plants on the coal industry in the United States (**Hampton Research Endowment Fund, \$2,250**)
- An economic analysis of the anti-dumping law in Canada – Petitioning behavior, trade diversion and retaliation (**Hampton Research Endowment Fund, \$35,000**)

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**)
- British Columbia Flux Station of Fluxnet-Canada: Influence of climate and disturbance on carbon cycling in forest and peatland ecosystems (**Canadian Foundation for Climate and Atmospheric Sciences, \$9,648**)
- Identification and selection of fast-growing poplar genotypes for carbon sequestration and biomass production (**BIOCAP, \$41,978**)

HINCH, S.G.

- Energetics, behaviour and fitness of anadromous migrating fish (**NSERC, \$26,100**)
- Abnormal migration and premature mortality in Pacific salmon (**NSERC, \$156,250**)
- 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, \$90,720**)
- A broad-scale investigation of the effects of streamside clear-cut timber harvesting on small stream ecosystems in British Columbia: Analyses of large-scale databases to forecast impacts on physical and thermal habitats and their salmonid prey (**BCMof&R, \$45,192**)

HOBERG, G.

- The challenge of institutional redesign: tenure, competitiveness and sustainability (**NCE, \$183,000**)
- Effecting Innovation: A preliminary evaluation of the results-based regulatory regime of the Forest and Range Act (**BCMof&R, \$13,230**)

HUMBLE, L.

- Canadian Barcode of Life Network (**NSERC, \$25,000**)

INNES, J.L.

- Application of sustainable forest management in a culturally-modified landscape (**SSHRC, \$24,000**)
- How can pre-harvest evaluation data be used to facilitate forests for tomorrow restoration activities and FREP stand-level biodiversity effectiveness evaluations in MPB areas? (**BCMofE, BCMof&R, \$29,500**)
- Improvement of social, economic and other indicators of sustainable forest management and tools for their integration (**BCMof&R, \$38,929**)
- Common ground for SFM criteria and indicators in British Columbia – SFM criteria and indicator matrix online (**Forest Research Extension Partnership, \$8,000**)

KADLA, J.F.

- SENTINEL research network – Nanoscale fibrous structures through electrospinning of novel cellulosic systems (**NSERC, industry \$23,000**)
- The development of value-added bioproducts from the bioconversion of lignocellulosics (**NSERC, \$75,000**)
- SENTINEL research network – Nanoscale fibrous structures through electrospinning of novel cellulosic systems (**industry, \$6,900**)
- Chemical, mechanical, and durability properties of mountain pine beetle infested timber (**NRC, \$28,000**)
- Canada Research Chair in Advanced Biomaterials (**CRC, \$100,000**)
- Development of thick MPB strand based wood composites (**FII, \$194,254**)
- Development of MPB wood-cement and wood-plastic composite products (**FII, \$127,841**)
- Biopolymers – precursors to advanced materials (**NSERC, \$26,960**)
- Self-assembly of ordered microporous materials from wood-based biopolymers (**Canadian Forest Products Ltd., NSERC, \$62,000**)
- Log quality of mountain pine beetle infested wood in relation to pulp and paper manufacture (**FII, \$92,715**)
- Processing of pyrolysis oils for co-product development and improved oil characteristics (**NSERC, \$51,400**)
- SENTINEL-The Canadian Network – Novel fibre structures for bioactive non-wovens (**NSERC, \$76,400**)

KIMMINS, J.P.

- Canada Research Chair in Forest Ecosystem Modelling (**CRC, \$200,000**)
- Role of hybrid poplar plantations for wood, farm diversification and carbon sequestration in Saskatchewan (**NSERC, \$30,000**)
- Critical loadings of acid and nitrogen to Georgia Basin ecosystems – modelling the ecological effects of nitrogen deposition (**Environment Canada, \$31,500**)
- Complexity and scale in forest ecosystem management and agroforestry modeling (**NSERC, \$25,000**)
- Incorporation of wildlife habitat capability into the multi-value, spatially-explicit, complex cutblock ecosystem management model LLEMS (**BCMoF&R, \$67,279**)
- Defining boreal mixedwoods and exploring their response to management and natural disturbance (fire, MPB) through spatially-explicit ecosystem management modeling (**BCMoF&R, \$71,400**)

KOZAK, R.A.

- Statistical process control of colour for wood products (**NSERC, \$16,200**)
- Wood in the human environment (**International Environmental Institute, \$25,000**)
- A proposed framework for the diffusion of corporate responsibility practices in the forestry sector (**International Environmental Institute, SSHRC, 28,000**)
- Sustainable forest management public opinion survey (co-investigator) (**FII, \$103,200**)
- Using interactive forest planning models and visualization of assess public preferences for tradeoffs among possible SFM futures (co-investigator) (**Sustainable Forest Management Network, \$145,060**)

KRZIC, M.

- Effects of land-use practices on soil compaction (**NSERC, \$9,400**)
- Yihai(Simon) Zhao: soil conditions and tree growth in BC's forests (**BCMoF&R, \$24,000**)

LAM, F.

- Structural performance of Japanese post and beam shear wall system (**Coast Forest and Lumber Association, \$90,000**)
- UBC 21- Procedures to qualify new constructions and species of glulam beams (**NRC, \$54,075**)
- Studies on strength of MSR lumber (**industry, \$9,693**)
- Seismic performance of timber structural systems (**NSERC, \$33,000**)

- Performance of floor panel (**Ainsworth Lumber Co. Ltd., \$93,967**)
- Timber engineering education in China - faculty exchange with Tongji University (**CFI, \$25,002**)
- Advanced structural analysis program for metal plated wood truss systems (**Canadian Wood Council, Jager Building Systems Inc., NSERC, \$42,148**)
- Supplemental testing and analysis on the properties of MPB lumber (**FII, \$68,250**)
- Development of MPB wood-cement and wood-plastic composite products (**FII, \$127,841**)
- Development of MPB thick laminate wood plate products (**FII, \$95,550**)
- Development of thick MPB strand based wood composites (co-investigator) (**FII, \$194,254**)
- Lateral performance of shearwalls and connections with laminated hemlock and russian redwood posts (**Coast Forest Products Association, \$60,000**)
- Detection methods of internal checks and rots in mountain pine beetle logs (**FII, \$59,850**)
- Literature review on the strength properties of BC coastal species wood products (**FII, \$2,100**)
- Conversion of MPB sawmill residues to flakes for OSB (**Dunkley Lumber Ltd., FII, \$167,475**)
- SC: Machining of post and beam structure (**Canadian Forest Products Ltd., \$1,573**)
- Bending and tensile strength properties of Australian slash pine and radiata pine (**Coe Newnes McGehee Inc., \$3,045**)

LARSON, B.C.

- The growth of natural regeneration under different partial cut silvicultural systems (**BCMoF&R, \$29,358**)
- Rating options for postattack cutting on affected stands (**BCMoF&R, \$43,260**)
- Forest dynamics basics curriculum (**Forest Research Extension Partnership, \$20,000**)

LAWSON, P.

- Malcolm Knapp Research Forest (**BCMoF&R, \$38,220**)

LEMAY, V.M.

- Modeling natural regeneration following mountain pine beetle attacks in the Southern and Central interior of BC (**NRC, \$64,500**)
- Structural diversity measures and relationships with remotely sensed data (**NSERC, \$15,000**)

LYONS, C.K.

- The mechanics of anisotropic materials applied to the management of forests (**NSERC, \$15,000**)

MANESS, T.C.

- Multi-criteria strategic planning for sustainable forest management (NSERC, \$19,000)
- Feasibility and conceptual design of a highly flexible manufacturing facility (NSERC, \$98,710)
- Decision support methods for simultaneous assessment of timber and non-timber resource objectives (Canadian Forest Products Ltd., \$110,000)
- Using interactive forest planning models and visualization to assess public preferences for trade-offs among possible SFM futures (SFM, NCE, \$123,301)

MANSFIELD, S.D.

- Identification and selection of fast-growing poplar genotypes for carbon sequestration and biomass production (BIOCAP, \$83,957)
- Evaluating Canada's underutilized species, hybrid poplar, for the value-added industry (NRC, \$80,000)
- Canada Research Chair in Wood & Fibre Quality (CRC, \$100,000)
- Elucidating cellulose biosynthesis in poplar (NSERC, \$19,320)
- Biomass improvement through genomics in populus (NSERC, \$43,666)
- Developing tools to select for robust *Populus* genotypes capable of adapting to environmental change (NSERC, \$40,450)
- Green Crop Research Network – Manipulating lignin deposition (NSERC, \$10,000)
- Genetic engineering of cellulose biosynthesis in hardwood and softwood trees (USDoA, \$40,501)
- Conifer forest health genomics (co-investigaor) (Genome British Columbia \$2,561,748)

MARSHALL, P.L.

- Modeling natural regeneration following mountain pine beetle attacks in the southern and central interior of BC (NRC, BCMoF&R, \$75,915)

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, \$10,000)
- Support for an NSERC – International Polar Year award entitled “Climate forcing of alpine tundra ecosystems” (UBC VPR Research Development Fund, \$7,500)

- The effects of environmental variability on parental effort, reproductive success and return rates in an alpine population of horned larks (NSTP, \$7,000)
- Potential effects of climate change on breeding biology and poopulation dynamics of rock and white-tailed ptarmigan in the southwest Yukon (NSTP, \$5,000)
- Vehicle for northern alpine avian ecology and climate variation (NSERC, \$42,407)
- Potential effects of climate change on breeding biology and population dynamics of rock and white-tailed ptarmigan in the Yukon Territory (UBC, Federal, \$5,000)
- The effects of environmental variability on parental effort, reproductive success and return rates in an alpine population of horned larks, (UBC, Federal, \$7,000)

McLEAN, J.

- Adelgid studies: taxonomy and life history (BCMof&R, \$26,862)
- Survey for invasive lepidoptera in Greater Vancouver (NRC, \$23,550)
- Evaluation of the impact of N fertilization on mountain pine beetle success in mature lodgepole pine stands at the leading edge of an infestation (BCMof&R, \$57,130)

MEITNER, M.J.

- Public perceptions of mountain pine beetle management alternatives (co-investigator) (NRC, \$55,598)
- Social sustainability: strategies for definition, measurement and management (NCE, \$11,985)
- A systems approach to integrating ecological, economic and social values within the SFM framework for Tree Farm Licence 49 (NCE, \$103,500)
- Developing new technologies to support the translation of complex environmental information into knowledge (NSERC, \$17,200)
- Developing a cumulative effects model of forest aesthetics at the landscape level: automating the spatial design and planning of variable retention (BCMof&R, \$36,750)
- Extension of ongoing research on existing tools and software to aid in the creation of information from existing GIS data sets (Envision Sustainability Tools Inc., \$19,250)

MITCHELL, S.J.

- Ecology and management of riparian - stream ecosystems: a large-scale experiment using alternative streamside management techniques (**BCMof&R, \$7,035**)
- Incorporating the effects of windthrow after retention harvesting into TASS and TIPSYP (**BCMof&R, \$18,370**)
- Wind drag on conifer crowns (**NSERC, \$26,000**)
- Effect of stand structure and riparian buffer design on wind damage susceptibility and large woody debris recruitment (**BCMof&R, \$67,562**)
- Wind hazard assessment for forested state trust lands in coastal Washington State. (**Washington State Natural Resources Agency, \$50,000**)

MOORE, R.

- Forest hydrology (**donation, \$10,000**)

NELSON, J.D.

- Exploring opportunities for mitigating the ecological impacts of current and future beetle MPB outbreaks through improved planning: a focus on Northeastern BC (**NRC, \$104,475**)
- Public perceptions of mountain pine beetle management alternatives (co-investigator) (**NRC, \$55,598**)
- A systems approach to integrating ecological, economic and social values within the SFM framework for Tree Farm Licence 49 (co-investigator) (**NCE, \$103,500**)
- Decision support systems for forest land use planning (**NSERC, \$25,000**)

PEARSON, A.

- Vancouver Island regeneration study manuscript preparation (**International Forest Products Ltd., \$13,000**)
- Baseline riparian forest conditions for Kennedy Lake Restoration Project (**International Forest Products Ltd., \$40,000**)

PRESCOTT, C.E.

- British Columbia Flux Station of Fluxnet-Canada: Influence of climate and disturbance on carbon cycling in forest and peatland ecosystems (**NSERC, Canadian Foundation for Climate and Atmospheric Sciences, \$6,268**)
- Nutrient biogeochemistry in Athabasca oil sands reclamation (co-investigator) (**NSERC, \$25,000**)
- Influence of soil fauna on litter decomposition (**NSERC, \$19,320**)
- SCHIRP: ecology and management of ericaceous shrub-dominated ecosystems in coastal BC (**BCMof&R, \$54,799**)

PRION, H.

- Timber connections for seismic applications (**NSERC, \$22,000**)
- Junior Industrial Research Chair in design engineering (**NSERC, \$40,000**)

RICHARDSON, J.S.

- Variation in detritus-based food webs and community structure based on quality of organic matter (**NSERC, \$20,000**)
- Human impacts on water quantity and quality, the implications for ecological and socio-economic processes, and policy development in the South Saskatchewan River Basin (**CWN, NCE, \$12,000**)
- Alternative indicators of the integrity of stream function as an assessment of sustainable forest management (**BCMof&R, \$74,283**)
- Definition and protection of habitat of the coeur d-alene salamander (**WWFC, \$10,872**)
- Aquatic sustainability indicator development in British Columbia (**BCMof&R, \$15,000**)
- Ecology and management of riparian - stream ecosystems: a large-scale experiment using alternative streamside management techniques (**BCMof&R, \$147,442**)
- Downed wood in riparian areas and its contribution to stand-level biodiversity (**BCMof&R, \$32,251**)
- Long-term trends in amphibians in riparian reserves: are riparian reserves effective for their conservation? (**BCMof&R, \$22,281**)
- Evaluation of the relationship between productivity and condition of Coho salmon and habitat features of restores off-channel ponds (**BC Pacific Salmon Forum, \$25,000**)

RITLAND, K.M.

- Population genomics of plants (**NSERC, \$80,000**)
- Conifer forest health genomics (co-investigator) (**Genome British Columbia, \$2,561,748**)
- Poplar genetics project in the Genetic Data Centre (**Agriculture and Agri-Food Canada, \$18,500**)

RUDDICK, J.N.R.

- Wood preservation – Factors impacting on the performance of wood preserving chemicals (**BASF Aktiengesellschaft, \$24,552**)
- Wood preservation (**Arch Wood Protection Inc., \$6,721**)
- The role of nitrogen compounds in the fixation of copper in wood (**NSERC, \$31,900**)

SADDLER, J.N.

- Participation of Forest Products Biotechnology, UBC, in the Biomass Consortium on Applied Fundamentals (NRC, \$31,593)
- Substrate and enzyme factors that affect the efficient hydrolysis of cellulose to ethanol (NSERC, \$22,000)
- Infrastructure operating funds – Bioprocessing Centre for Sustainable Fuels – Operations (CFI, \$75,000)
- IEA Bioconversion Task (IEA, \$274,152)
- Bioprocessing Centre for sustainable fuels (CFI, Forintek Canada Corp., \$7,153)
- The development of value-added bioproducts from the bioconversion of lignocellulosics (NSERC, \$75,000)
- Softwood residues-to-ethanol scale-up & bottleneck reduction (NRC, \$240,585)
- The development of biorefinery technologies for conversion of softwood residues to ethanol and co-products (NSERC, \$98,467)

SHEPPARD, S.R.J.

- Public perceptions of mountain pine beetle management alternatives (co-investigator) (NRC, \$55,598)
- A systems approach to integrating ecological, economic and social values within the SFM framework for Tree Farm Licence 49 (co-investigator) (NCE, \$103,500)
- Social sustainability: strategies for definition, measurement and management (NCE, \$9,439)
- Development and testing of advanced landscape visualization (NSERC, \$14,800)
- Canfor SFM public opinion survey (Canadian Forest Products Ltd., \$108,800)
- Future visioning of local climate change scenarios with integrated geomatics/visualization systems (BCMofE, Geomatics for Informed Decisions, NCE, \$75,000)
- A synthesis of BC public perception survey results and techniques for quantifying social indicators in forest planning (BCMof&R, \$36,382)
- Visualizing the industrial north: exploring new ways to engage and inform the public on extremely large projects (co-investigator) (SSHRC, \$27,000)

SIMARD, S.W.

- Cultivation *Toona ciliata* var. *australis* (F. Muell.) in subtropical mixed species plantations in Misiones, Argentina (Danzer Forestacion S.A., \$5,557)
- Nutrient dynamics in the mycorrhizosphere of Douglas-fir seedlings establishing after the BC wildfires of 2003 (NSERC, \$35,306)

- Predicting development and productivity of southern interior mixed species stands following mountain pine beetle attack (BCMof&R, \$57,855)
- CFI infrastructure operating funds (CFI, \$5,000)
- Determining stand level structures in dry Douglas-fir forests that maintain appropriate levels of ectomycorrhizal genetic diversity to facilitate Douglas-fir regeneration (BCMof&R, \$46,777)
- Analysis of insect, disease, and factors affecting post-free-growing lodgepole pine in southern interior British Columbia (BCMof&R, \$29,996)
- Role of common mycorrhizal networks in plant community dynamics (NSERC, \$35,000)
- Conifer/broadleaf mixture experiments in the southern interior of BC (BCMof&R, \$32,623)
- Effects of partial retention and common mycorrhizal networks on seedling recruitment in Douglas-fir forests across British Columbia (BCMof&R, \$52,500)
- PROBE (PRotocol for Operational Brushing Evaluations) (BCMof&R, \$29,400)
- *In situ* ecophysiology of ectomycorrhizal associations (NSERC, \$1,150)
- Improving predictions of juvenile tree growth in complex mixtures for sustainable forest management (BCMof&R, \$19,999)
- Effects of young stand silviculture on conifer/broadleaf mixtures in seral ICH forests of southern interior BC (BCMof&R, \$11,277)
- Ectomycorrhizae and networks: their role in facilitating Douglas-fir regeneration under water, site and climatic stresses (BCMof&R, \$30,000)
- Predicting development and productivity of southern interior mixed species stands through calibration and modelling (BCMof&R, \$46,998)
- Carbon-flux and plant-microbial community dynamics in low-Arctic tundra (Government of Canada, \$36,148)
- Soil diversity and function in forest ecosystems (NSERC, \$48,109)

SMITH, G.D.

- Investigation of the resination process for oriented strand board (NSERC, \$25,100)
- Development of thick MPB strand based wood composites (co-investigator) (FII, \$194,254)

SOWLATI, T.

- UBC 20 – life cycle analysis of windows for North American residential market (NRC, \$54,000)
- Efficiency measurement and improvement in the Canadian wood industry (NSERC, \$12,000)
- Modeling of off-gassing for wood pellets (NSERC, \$111,900)

SULLIVAN, T.P.

- Incremental silviculture of lodgepole pine and non-timber forest products (BCMof&R, \$31,500)
- Impact of cattle foraging on understory plant biodiversity (range health) using long-term exclosures (BCMof&R, \$37,800)
- Group selection systems to maintain caribou habitat in high elevation forests (ESSFwc3) in central BC–Small Mammal Component (BCMof&R, \$30,000)
- Stand structure and maintenance of biodiversity in green-tree retention stands at 30 years after harvest: A vision into the future (BCMof&R, \$54,600)
- Vole population and seedling damage monitoring with diversionary feeding methods (BCMof&R, \$48,300)
- Dry forests and grasslands: Stand structures, habitat, and small mammals as indicators of biodiversity (BCMof&R, \$44,100)
- Vole populations, grass seeding, and management of feeding damage to trees in forest plantations (BCMof&R, \$207,900)

TINDALL, D.B.

- The power of “Giant Trees”: Exploring audience reception of environmental frames (Hampton Research Endowment Fund, \$20,000)
- Understanding perspectives and resolving conflicts over the ethical treatment of food animals (SSHRC, \$56,384)
- Linking framing and social network analysis in social movements research: A mixed methods approach (SSHRC, \$10,250)
- Understanding the social structural basis of environmental activism and pro-environmental behaviour: regional, temporal, and sectoral comparisons (SSHRC, \$51,957)

TROSPER, R.

- Institutional conditions of success (FPAC, \$5,000)
- Gifts, chiefs and contingency – research associate funding (NCE, \$20,000)
- A participatory approach to Aboriginal tenure reform in Canada (NCE, \$41,500)

- Contemporary and traditional values of a landless Cree First Nation in northern Ontario (SSHRC, \$35,312)
- Common knowledge, values and perceptions of sustainable forest management held by First Nations communities (BCMof&R, \$97,650)

WATTS, S.

- Status of and recent trend in forestry-related research in Canada, 2005 (BCMof&R, \$23,625)

WEILER, M.

- Integrated sensor web infrastructure for watershed monitoring (NCE, \$6,000)
- Tools for generating maps of hydrologically sensitive areas for use in forest operations planning (NCE, \$38,675)
- Infrastructure operating funds (CFI, \$7,500)
- Russell Creek water quantity modeling project (BCMof&R, \$90,300)
- Water and solute response of runoff generation processes (NSERC, \$23,500)
- Tsitika River Sediment Budgets Project: Effectiveness evaluation of road deactivation at Russell Creek using a sediment (BCMof&R, \$40,000)
- Forest management in interior BC: moving beyond equivalent cut area (BCMof&R, \$94,999)
- Mountain pine beetle effects on hydrology: Input characteristics and implications of the proposed approach with a larger catchment. (BCMof&R, \$20,000)

WELLS, R.

- Effective landscape planning approaches to sustain biodiversity in the managed forests of southeast British Columbia (BCMof&R, BCMof&R, \$40,621)

WOOD, P.M.

- Conifer forest health genomics (co-investigator) (Genome British Columbia, \$2,561,748)
- Writing WELL: Writing Effectively, Learn for Life (TLEF, \$46,000)
- The case for listing western red cedar (*Thuja plicata*) in CITES (Imajo, \$5,000)

ZHANG, Y.

- Cumulative watershed effects of forestry practices on stream ecosystems (BCMof&R, \$79,978)

THIS LIST INCLUDES documents published between April 1, 2005 and March 31, 2006. 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.

- Ackom, E., and **P. McFarlane**. 2006. Impact of technological changes in the North American forest industry. pp. 33-46 *in* Proc. Second International Conference on Environmentally Compatible Forest Products. Porto, Portugal.
- Akindele, S.O., and **V.M. LeMay**. 2006. Development of tree volume equations for common timber species in tropical rain forest areas of Nigeria. *Forest Ecol. Manage.* 226:41-48.
- Alamouti, S.M., J.J. Kim, and **C. Breuil**. 2006. A new *Leptographium* species associated with the northern spruce engraver, *Ips perturbatus*, in western Canada. *Mycologia* 98:149-160.
- Alamouti, S., J.-J. Kim, L. Humble, A. Uzunovic, and **C. Breuil**. 2007. Ophiostomatoid fungi associated with the northern spruce engraver, *Ips perturbatus*, in western Canada. *Antonie van Leeuwenhoek* 167:239-34.
- Alexiadis, P., **D.H. Cohen**, **R.A. Kozak**, **S. Avramidis**, and J. Welling. 2006. Canadian kiln drying survey: benchmarks of problems and issues and a comparison to Europe. *J. I. Wood Sci.* 17(4):183-193.
- Ally, D., and **K. Ritland**. 2006. A case study: looking at the effects of fragmentation on genetic structure in different life history stages of old-growth mountain hemlock (*Tsuga mertensiana*). *J. Heredity* 98:73-78.
- Anand, R., L. Paul, and **C.P. Chanway**. 2006. Research on endophytic bacteria: Recent advances with forest trees. pp. 89-106 *in* B. Schulz, C. Boyle and T.N. Sieber (eds.) *Soil Biology*, Vol. 9 Microbial Root Endophytes. Springer-Verlag, Berlin.
- Anderson, A.E., **J.D. Nelson**, and R.G. D'Eon. 2006. Determining optimal road class and deactivation strategies using dynamic programming. *Can. J. For. Res.* 36:1509-1518.
- Appaw, C., R.D. Gilbert, S.A. Khan, and **J.F. Kadla**. 2007. Viscoelastic behaviour of cellulose acetate in a mixed solvent system. *Biomacromolecules* 8:1541-1547.
- Astrup R., and **B.C. Larson**. 2006. Variability of species-specific crown openness for mature boreal aspen and spruce. *Forest Ecol. Manage.* 228:241-250.
- Avramidis, S.**, L. Iliadis, and **S.D. Mansfield**. 2006. Wood dielectric loss factor prediction with artificial neural networks. *Wood Sci. Technol.* 40:563-574.
- Avramidis, S.**, and H. Wu. 2006. Artificial neural network and mathematical modeling comparative analysis of nonisothermal diffusion of moisture in wood. *Holz als Roh und Werkstoff*. Published online, [http://www.springerlink.com/content/g755888088tm17pu/?p=6635caf9a51b4ab1a5e85bca0c8644c4?&=0](http://www.springerlink.com/content/g755888088tm17pu/?p=6635caf9a51b4ab1a5e85bca0c8644c4?)
- Bailey, J., and **P.M. Wood**. 2006. Public participation in forest genomics in British Columbia. p. 80 *in* Proc. Genomics and society: towards a socially robust science. Centre for Society and Genomics. Amsterdam, Netherlands.
- Barrett, J.D.**, **F. Lam**, F. Rouger, and Y. Wang. 2006. The proposed ISO strength class system: An update. *In* Proc. 9th WCTE. Portland USA (CD).
- Bérubé, Y., J. Zhuang, D. Rungis, S. Ralph, **J. Bohlmann**, and **K. Ritland**. 2007. Characterization of EST-SSRs in loblolly pine and spruce. *Tree Genet. Genomics* 10.1007/s11295-006-0061-1.
- Berlin, A., M. Balakshin, **N. Gilkes**, **J.F. Kadla**, V. Maximenko, S. Kubo, and **J. Sandler**. 2006. Inhibition of cellulase, xylanase and β -glucosidase activities by softwood lignin preparations cellulase, xylanase and β -glucosidase activities by softwood lignin preparations. *J. Biotechnol.* 125:198-209.
- Blevins, L.L., **C.E. Prescott**, and A.V. Niejenhuis. 2006. The effect of phosphorus fertilization on nitrogen and phosphorus deficient sites on northern Vancouver Island. *Forest Ecol. Manage.* 234:116-122.
- Bondar, C.A., K. Zeron, and **J.S. Richardson**. 2006. Risk-sensitive foraging by juvenile signal crayfish (*Pacifastacus leniusculus*). *Can. J. Zool.* 84:1693-1697.
- Bower, A.D., and **S.N. Aitken**. 2006. Genetics of cold hardiness in whitebark pine. *Can. J. For. Res.* 36:1842-1850.
- Bowering, M., **V.M. LeMay**, and **P.L. Marshall**. 2006. Effects of forest roads on the growth of adjacent lodgepole pine (*Pinus contorta* Dougl. var. *latifolia* Englem.) trees. *Can. J. Forest Res.* 36:919-929.
- Boyland, M.**, **J. Nelson**, **F. Bunnell**, and R. D'Eon. 2006. An application of fuzzy set theory for seral-class constraints in forest planning models. *Forest Ecol. Manage.* 223(1-3):395-402.

- Bradic, S., and **S. Avramidis**. 2006. Longitudinal air permeability of pinewood with beetle transmitted blue-stain. *Holz als Roh und Werkstoff*. Published online. <http://www.springeronline.com/sgw/cda/frontpage/0,11855,5-111-2-71152-0,00.html>
- Bradic, S., and **S. Avramidis**. 2006. Impact of compression wood and slope of grain on timber drying of second growth hemlock. *Prerada Drveta (Wood Processing) J.* 4(15-16):3-11.
- Bull, G.Q.** 2006. The role of emerging countries in the paper and forest products world markets: Item 4, role of emerging countries. Published online. <http://www.fao.org/forestry/webview/media?mediald=10759&langId=1>. 5pp FAO. Advisory Committee on Paper and Wood Products. 47th Session. China. Rome, Italy.
- Bull, G.Q.**, and J. Williams. 2006. The BC forest products sector in a globally competitive market: developing a strategic response. BC Forum on Economics and Policy. 85 pp.
- Bulmer, C.E.**, M.G. Schmidt, **M. Krzic**, and V. Blouin. 2006. Soil mechanical resistance and water content in BC's forest soils. pp. 21-22 in Proc. of the Annual Conference of the Canadian Society of Soil Science. Banff, AL.
- Canam, T., J.-Y. Park, K. Yu, M.M. Campbell, D.D. Ellis, and **S.D. Mansfield**. 2006. Varied growth, biomass and cellulose content in tobacco expressing yeast-derived invertases. *Planta*. 224:1315-1327.
- Chedgy, R.J., C.R. Daniels, **J. Kadla**, and **C. Breuil**. 2007. Screening fungi tolerant to Western red cedar (*Thuja plicata* Donn) extractives. Part 1. Mild extraction by ultrasonication and quantification of extractives by reverse-phase HPLC. *Holzforschung* 61:190-194.
- Chen, Y., **F. Lam**, and **J.D. Barrett**. 2006. Bending strength and modulus of elasticity of BC coastal timbers. In Proc. 9th WCTE. Portland, USA. (CD).
- Chuine, I., G.E. Rehfeldt and **S.N. Aitken**. 2006. Height growth determinants in pines: a case study of *Pinus contorta* and *Pinus monticola*. *Can. J. For. Res.* 36:1059-1066.
- Cohen, S., D. Nelson, S. Smith, T. Neale, B. Taylor, M. Barton, W. Merritt, **Y. Alila**, P. Shepherd, R. McNeill, J. Tansey, J. Carmichael, and S. Langsdale. 2006. Learning with local help: Expanding the dialogue on climate change and water management in the Okanagan Region. *Climatic Change* 75:331-358. Published online. DOI:10.1007/s10584-006-9336-6 Springer.
- Cooke, S.J., and **S.G. Hinch**. 2006. Fisheries employment in Canada. pp. 135-150 in D.A. Hewitt, W.E. Pine, III, and A.V. Zale, (eds.) *The AFS guide to fisheries employment*, 2nd edition. American Fisheries Society, Bethesda, Maryland, USA.
- Cooke, S.J., **S.G. Hinch**, G.T. Crossin, D.A. Patterson, K.K. English, M.C. Healey, J.M. Shrimpton, G. Van Der Kraak, and A.P. Farrell. 2006. Mechanistic basis of individual mortality in Pacific salmon during spawning migrations. *Ecology* 84:88-97.
- Cooke, S.J., **S.G. Hinch**, G.T. Crossin, D.A. Patterson, K.K. English, J.M. Shrimpton, G. Van Der Kraak, and A.P. Farrell. 2006. Physiology of individual late-run Fraser River sockeye salmon *Oncorhynchus nerka* sampled in the ocean correlates with fate during spawning migration. *Can. J. Fish. Aquat. Sci.* 63:1469-1480.
- Cooperman, M.S., and **S.G. Hinch**. 2006. Scientific assessment of restoration projects: evaluating the effectiveness of restoration actions in the southern interior of British Columbia. Final contract report for project F1651-050010, report prepared for The Pacific Salmon Commission, Vancouver, British Columbia, and Fisheries and Oceans Canada - Vancouver, Vancouver, British Columbia.
- Cooperman, M.S., **S.G. Hinch**, S. Bennett, J.T. Quigley, R.V. Galbraith, and M.A. Branton. 2006. Rapid assessment of the effectiveness of engineered off-channel habitats in the southern interior of British Columbia for coho salmon production. Canadian Manuscript Report of Fisheries and Aquatic Sciences. 2768:v + 30 pgs.
- Coops, N.C.**, S.B. Coggins, and W.A. Kurz. 2007. Mapping the environmental limitations to growth of coastal Douglas-fir stands on Vancouver Island, British Columbia. *Tree Physiology*. 27:805-815.
- Coops, N.C.**, M. Wulder, and J. White. 2006. Integrating remotely sensed and ancillary data sources to characterize a mountain pine beetle infestation. *Remote Sens. Environ.* 105:83-97.
- Coops, N.C.**, M. Wulder, and J. White. 2006. Identifying and describing forest disturbance and spatial pattern: data selection issues and methodological implications. pp. 33- 60 in M. Wulder, S. Franklin (eds.), *Forest Disturbance and Spatial Pattern: Remote Sensing and GIS Approaches*. Taylor and Francis. CRC Press.
- Coops, N.C.**, M. Johnson, M. Wulder, and J. White. 2006. Assessment of Quickbird high spatial resolution imagery to detect red-attack damage due to mountain pine beetle infestation. *Remote Sens. Environ.* 103:67-80.

- Coops, N.C.**, A. Black, R.S. Jassal, J.A. Trofymow, and K. Morgenstern. 2007. Comparison of MODIS, eddy covariance determined and physiologically modelled gross primary production (GPP) in a Douglas-fir forest stand. *Remote Sens. Environ.* 107(3):385-401.
- Coops, N.C.**, T. Hilker, M. Wulder, B. St-Onge, A. Siggins, G. Newhnam, and J.A. Trofymow. 2007. Estimating canopy structure of Douglas-fir forest stands from discrete-return LIDAR. *Trees-Struct. Funct.* 21(3):295-310.
- Craig, V., W. Klenner, **M.C. Feller**, and **T. Sullivan**. 2006. Relationships between deer mice and downed wood in managed forests of southern British Columbia. *Can. J. For. Res.* 36:2189-2203.
- Dai, Q., R.D. Gilbert, S. A. Khan, and **J.F. Kadla**. 2006. Rheological behavior of lyotropic (acetyl) (ethyl) cellulose solutions with different chiroptical properties. *Cellulose* 13:213-223.
- De Groot, J.D., **S.G. Hinch**, and **J.S. Richardson**. 2007. Effects of logging second-growth forests on headwater populations of coastal cutthroat trout: a 6-year, multi-stream, before-and-after field experiment. *Transactions of the American Fisheries Society* 136:211-226.
- Diguistini, S., S.G. Ralph, Y.W. Lim, R. Holt, S. Jones, **J. Bolhmann**, and **C. Breuil**. 2007. Generation and annotation of expressed sequence tags (ESTs) from the blue-stain fungus *Ophiostoma clavigerum*, a mountain pine beetle (*Dendroctonus ponderose*) associated pathogen. *FEMS Microbiol. Letters* 267:151-158.
- Drever, M.C., and **K. Martin**. 2007. Spending time in the forest: responses of cavity nesters to temporal changes in forest health in interior British Columbia. pp. 236-251 in J. Bissonnette and I. Storch (eds.), *Temporal Explicitness in Landscape Ecology; Understanding Wildlife Responses to Changes in Time*. Springer-Verlag, New York, USA.
- Durrall, D.M., S. Gamiet, **S.W. Simard**, L. Kudrna, and S.M. Sakakibara. 2006. Effects of clearcut logging and tree species composition on the diversity and community composition of epigeous fruit bodies formed by ectomycorrhizal fungi. *Can. J. Bot.* 84:966-980.
- Eissa, A.S., C. Puhl, S. Khan, and **J.F. Kadla**. 2006. Enzymatic crosslinking of b-lactoglobulin: Conformational properties using FTIR spectroscopy. *Biomacromolecules* 7:1707-1713.
- El-Kassaby, Y.A.**, F. Perscher, F. and D. Lindgren. 2007. Advanced generation seed orchards turnover as affected by breeding advance, time to sexual maturity, and costs: special reference to *Pinus sylvestris* in Sweden. *Scand. J. For. Res.* 22:88-98.
- El-Kassaby, Y.A.**, M. Lstibůrek, C. Liewlaksaneeyanawin, G.T. Slavov, and G.T. Howe. 2007. Breeding without breeding: approach, example, and proof of concept. pp. 43-54 in *Proc. IUFRO, Low input breeding and genetic conservation of forest tree species*. Antalya, Turkey. Published online <http://www.akdeniz.edu.tr/english/iufro/2007.pdf>.
- Fakhri, H.R., **K. Semple**, and **G.D. Smith**. 2006. The effects of core fines content and mat density on transverse permeability. *Wood Fiber Sci.* 38(3):450-462.
- Fakhri, H.R., **K. Semple**, and **G.D. Smith**. 2006. Transverse permeability of OSB. Part II. Modeling the effects of density and core fines content. *Wood Fiber Sci.* 38(3):463-473.
- Fang, Z., **J.R. Ruddick**, and **G. Smith**. Evaluating wood preservatives for use with OSB. Part 1: Compatibility with typical resin systems. *J. I. Wood Sci.* 17(4):216-222.
- Fang, Z., **J.R. Ruddick**, and **G. Smith**. 2006. Use of a formulated wood preservative (K-HDO and fenpropimorph) to enhance the durability of PF resin bonded waferboard. *J. I. Wood Sci.* 17(4):216-222.
- Fannin, R.J.**, E.R. Bobicki, and P. Jordan. 2007. A sensitivity analysis of debris flow travel distance at Blueberry Creek, B.C.. pp. 335-341 in *Proc. 59th Canadian Geotechnical Conference*, Vancouver, B.C.
- Fannin, R.J.**, and A. Srikongsri. 2007. Geotextile filters in cyclic flow: test results and design criteria. pp. 170-185 in *Proc. IFAI. Geosynthetics* Washington, D.C. USA.
- Fannin, R.J.**, and M. Li. 2007. A comparison of two criteria for stability of granular soil. pp. 1178-1184 in *Proc. 59th Canadian Geotechnical Conference*, Vancouver, B.C.
- Fannin, R.J.**, and R. Moffat. 2006. Observations on internal stability of granular soils. *Geotechnique* 56(7):497-500.
- Feller, M.C.**, and S.L. Pollock. 2006. Variation in surface and crown fire hazard with stand age in managed coastal western hemlock forests in southwestern B.C. pp. 367-380 in *Proc. USDA For. Serv. RMRS-P-41 B.W. Bret and P.L. Andrews (Comp.) Fuels Management – How to Measure Success*.
- Fleming, S., **R.D. Moore**, and G.K.C. Clarke. 2006. Glacier-mediated streamflow responses to the arctic oscillation. *Int. J. Climatol.* 26:619-636.

- Friedmann, M., S.G. Ralph, D. Aeschliman, J. Zhuang, **K. Ritland**, B.E. Ellis, **J. Bohlmann**, and C.J. Douglas. 2007. Microarray gene expression profiling of the developmental transition from primary to secondary growth and constitutive defence in sitka spruce (*Picea sitchensis*) apical shoots. *J. Exp. Bot.* 58:593-614.
- Gergel, S.E.**, and T. Reed-Andersen. 2007. Modeling ecosystem processes. pp. 266-274 in **S.E. Gergel** and M.G. Turner (eds.), *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. In Korean. Life Science Publisher Co, Seoul, Korea.
- Gergel, S.E.**, and M.G. Turner. (eds.). 2007. *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. In Korean. Life Science Publisher Co, Seoul, Korea.
- Gergel, S.E.**, M.G. Turner, and D.J. Mladenoff. 2007. Collecting spatial data at broad scales. pp. 9-16 in **S.E. Gergel** and M.G. Turner (eds.), *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. Life Science Publisher Co, Seoul, Korea.
- Giannico, G.R., and **S.G. Hinch**. 2007. Juvenile coho salmon responses to salmon carcasses and in-stream wood manipulations during winter and spring. *Can. J. Fish. Aquat. Sci.* 64:324-335.
- Gomi, T., **R.D. Moore**, and A.S. Dhakal. 2006. Headwater stream temperature response to clear-cut harvesting with different riparian treatments, coastal British Columbia, Canada. *Water Resour. Res.* 42.W08437. Published online doi:10.1029/2005WR004162.
- Goodwille, C., **C. Ritland**, and **K. Ritland**. 2006. The genetic basis of floral traits associated with mating system evolution in *Leptosiphon* (*Polemoniaceae*): an analysis of quantitative trait loci. *Evolution* 60:491-504.
- Goodwin, N., **N.C. Coops**, and D.C. Culvenor. 2006. Assessment of forest structure with airborne LIDAR and the effects of flying altitude. *Rem. Sens. Env.* 103:140-152.
- Grayston, S.J.**, and H. Rennenberg. 2006. Assessing effects of forest management on soil microbial communities in a Central European beech forest. *Can. J. For. Res.* 36:2595-2604.
- Greenberg, J.D., **S.E. Gergel**, and M.G. Turner. 2007. Understanding landscape metrics: effects of changes in scale. pp. 101-113 in **S.E. Gergel** and M.G. Turner (eds.), *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. Life Science Publisher Co, Seoul, Korea.
- Groover, A.T., **S.D. Mansfield**, S.P. DiFazio, G. Dupper, J.R. Fontana, R. Millar, and Y. Wang. 2006. The Populus homeobox gene ARBORKNOX1 reveals overlapping mechanisms regulating the shoot apical meristem and the vascular cambium. *Plant Mol. Biol.* 61:917-932.
- Gu, J., **F. Lam**, and R.O. Foschi. 2006. Comparison of seismic performance of Japanese wood shear walls. *In Proc. of the 9th WCTE*. Portland USA. (CD).
- Gulati, S.** and N. Malhotra. 2006. Estimating export response in Canadian provinces to the US-Canada softwood lumber agreement. *Canadian Public Policy* 32(2):157-172.
- Gulati, S.**, and D. Roy. 2007. How standards drive taxes: the political economy of tailpipe pollution. *B.E. J. Econ. Anal. Policy* 7(1):9.
- Gulati, S.**, and J. Vercammen. 2006. Time inconsistent resource conservation contracts. *J. Environ. Econ. Manage.* 52(1):454-468.
- Hamberger, B. and **J. Bohlmann**. 2006. Cytochrome P450 monooxygenases in conifer genomes: Discovery of members of the terpenoid oxygenase superfamily in spruce and pine. *Biochem. Soc. T.* 34:1209-1214.
- Han, T., M.A. Wulder, J.C. White, **N.C. Coops**, M.F. Alvarez, and C. Butson. 2007. An efficient protocol to process Landsat images for change detection with Tasseled Cap Transformation. *IEEE Geosci. Rem. Sens. Letters* 4(1):147-151.
- Hannon, S.J., and **K. Martin**. 2006. Ecology of juvenile grouse during the transition to adulthood. *J. Zool.* 289:422-433.
- Hao, B., and **S. Avramidis**. 2006. Timber moisture class assessment in kiln drying. *J. I. Wood Sci.* 17(3):121-133.
- Harrison, M.L., T.M. Hoover, and **J.S. Richardson**. 2006. Agonistic behaviours and movement in the signal crayfish *Pacifastacus leniusculus*: can dominance interactions influence crayfish size class distributions in streams? *Can. J. Zool.* 84:1495-1504.
- Harshaw, H.W., **R.A. Kozak**, and **S.R.J. Sheppard**. 2006. How well are outdoor recreationists represented in forest land-use planning? Perceptions of recreationists in the Sea-to-Sky corridor of British Columbia. *Landscape Urban Plan.* 78:33-49.
- Harshaw, H.W., **S.R.J. Sheppard**, and **R.A. Kozak**. 2007. Outdoor recreation and forest management: a plea for empirical data. *The Forestry Chron.* 83(2):231-238.

- Hausner, G., M. Iranpour, J.J. Kim, **C. Breuil**, C.N. Davis, E.A. Gibbs, J. Reid, P.C. Loewen, and A.A. Hopkin. 2006. Fungi vectored by the introduced bark beetle *Tomicus piniperda* in Ontario, Canada and comments on the taxonomy of *Leptographium lunderbergii*, *Leptographium terebrantis*, *Leptographium truncatum*, and *Leptographium wingfieldii*. *Can. J. Bot.* 83(10):1222-1237.
- Hickey, G.M., and **J.L. Innes**. 2006. Monitoring and information reporting through regulation: An inter-jurisdictional comparison of forestry-related hard laws. *Silva Fennica* 40(2):365-387.
- Hickey, G.M., **J.L. Innes**, **R.A. Kozak**, **G.Q. Bull**, and I. Vertinsky. 2006. Monitoring and information reporting for sustainable forest management: an inter-jurisdictional comparison of soft law standards. *Forest Pol. Econ.* 9:297-315.
- Hilborn, R., **P. Arcese**, M. Borner, J. Hando, G. Hopcraft, M. Loibooki, S.A.R. Mduma, and A.R.E. Sinclair. 2006. Effective enforcement in a conservation area. *Science* 314:1266.
- Hilborn, R., G. Hopcraft and **P. Arcese**. 2007. Wildlife population increases in Serengeti National Park – Response. *Science* 315:1790-1791.
- Hilker, T., **N.C. Coops**, Z. Nestic, A. Black, and M. Wulder. 2007. An instrument for year round measurements of fast response physiological processes from spectral reflectance. *Comput. Electron. Agr.* 56:72-84.
- Hill, M., A. Held, R. Leuning, **N.C. Coops**, D. Hughes, and H.A. Cleugh. 2006. MODIS spectral signals at flux tower sites: relationships with daytime carbon flux and LUE estimates. *Rem. Sens. Environ.* 103:351-368.
- Holtman, M., H-m Chang, H. Jameel, and **J.F. Kadla**. 2006. Quantitative ¹³C NMR characterization of milled wood lignins isolated by different milling techniques. *J. Wood. Chem. Technol.* 26:21-34.
- Hruska, K.A., **S.G. Hinch**, M.C. Healey, and A.P. Farrell. 2007. Electromyogram telemetry, non-destructive physiological biopsy, and genetic markers: linking recent technologies with behavioural observations for the study of reproductive success in sockeye salmon mating systems. 54:17-29 in C.A. Woody, (ed.). *Sockeye salmon ecology, evolution, and management*. American Fisheries Society, Symposium, Bethesda, Maryland, USA.
- Hu, Z., T. Yeh, H-m Y. Chang, Matsumoto, and **J.F. Kadla**. 2006. Elucidation of the structure of cellulolytic enzyme lignin. *Holzforschung* 60: 389-397.
- Huber, D.P.W., M.L. Erickson, C.M. Leutenegger, **J. Bohlmann**, and S.J. Seybold. 2007. Isolation and extreme sex-specific expression of cytochrome P450 genes in the bark beetle, *Ips paraconfusus*, following feeding on the phloem of host ponderosa pine, *Pinus ponderosa*. *Insect Mol. Biol.* 16(3):335-349.
- Hudgins, J.W., S.G. Ralph, V.R. Franceschi, and **J. Bohlmann**. 2006. Ethylene in induced conifer defense response: FLcDNA cloning, wound-induced protein expression, and cellular and subcellular localization of 1-aminocyclopropane-carboxylic acid oxidase (ACO) in specialized resin duct cells and polyphenolic phloem parenchyma cells. *Planta* 224:865-877.
- Innes, J.L.** 2006. Forest management and indigenous peoples in western Canada. pp. 109-110 in K.A. Vogt, J.M. Honea, D.J. Vogt, R.L. Edmonds, T. Patel-Weynand, R. Sigurdardottir, and M.G. Andreu (eds.) *Forests and Society: Sustainability and Life Cycles of Forests and Human Landscapes*. CABI International, Wallingford.
- Innes, J.L.** 2006. Acid rain, air pollution and forest decline. pp. 177-179 in K.A. Vogt, J.M. Honea, D.J. Vogt, R.L. Edmonds, T. Patel-Weynand, R. Sigurdardottir, and M.G. Andreu (eds.) *Forests and society: Sustainability and Life Cycles of Forests and Human Landscapes*. CABI International, Wallingford.
- Innes, J.L.**, and G.M. Hickey. 2006. The importance of climate change in considering the role of forests in the alleviation of poverty. *International Forestry Review* 8(4):406-416.
- Jayasinghe, P., S.D. Allen, **G.Q. Bull**, and **R.A. Kozak**. 2007. The status of forest certification in the Canadian value-added wood products manufacturing sector. *Forestry Chron.* 83(1):113-125.
- Jeakins, P., **S.R.J. Sheppard**, **F.L. Bunnell**, and R. Wells. 2006. Arrow IFPA series: Note 1 of 8. A framework for sustainable forest management, #1 in *The Sustainability Project Extension Note Series*. BC J. Ecosyst. Manage. 7(1):37-49.
- Johnson, NC, J. Hoeksema, L. Abbott, J. Bever, V.B. Chaudhary, C. Gehring, J. Klironomos, R. Koide, R.M. Miller, J. Moore, P. Moutoglis, M. Schwartz, **S.W. Simard**, W. Swenson, J. Umbanhowar, G. Wilson, and C. Zabinski. 2006. From Lilliput to Brobdingnag: extending models of mycorrhizal function across scales. *Bioscience* 56(11):889-900.
- Kadla, J.F.**, F. Asfour, and B. Bar-Nir. 2007. Micropatterned thin film honeycomb materials from regiospecifically modified cellulose. *Biomacromolecules* 8:161-165.

- Kadla J.F.**, and S. Kubo. 2006. Kraft Lignin/ Poly(ethylene oxide) blends: effect of lignin structure on miscibility and hydrogen bonding. *Holzforschung* 60:245–252.
- Kang, K-Y., S. Bradic, **S. Avramidis**, and **S.D. Mansfield**. 2007. Kiln drying lumber quality of hybrid poplars clones. *Holzforschung* 61(1):65-73.
- Katsigris, E., **G.Q. Bull**, A. White, C. Barr, K. Barney, Y. Bun, S.Y. Chrystanto, F. Kahl, T. King, A. Lankin, A. Lebedev, P. Shearman, A. Sheingauz, Y. Su, and H. Weyerhauser. 2006. The Chinese forest products trade: Overview of Asia Pacific supplying countries, impacts and implications. *Spatial Economics* 2(6):91-119 [Russian reprint].
- Keeling, C.I., and **J. Bohlmann**. 2006. Diterpene resin acids in conifers. Invited “Molecules of Interest” paper. *Phytochemistry* 67:2415-2423.
- Keim, R.F., A.E. Skaugset, and **M. Weiler**. 2006. Storage of water on vegetation under simulated rainfall of varying intensities. *Adv. Water Resour.* 29:974-986.
- Klenk N., **G. Q. Bull**, and **R.A. Kozak**. 2006. Dwelling in dialogues: being-at-home in relation to clutter, nature, and people. *Worldviews: Environment, Culture, Religion* 10(3):404-429.
- Kozak, R.A.** 2007. Value-added wood products from British Columbia – getting beyond the rhetoric. *BC Forest Professional* 14(1):12-13.
- Krzic, M.**, A. Bomke, K. Watson, T. Ballard, P. Sanborn, C. Cross, A. van Ryswyk, and C. Crowley. 2006. Virtual soil identification and classification. p. 14 *in* Proc. of the North American Colleges and Teachers of Agriculture (NACTA) Conference. Vancouver, BC.
- Krzic, M.**, C.E. Bulmer, F. Teste, L. Dampier, M.G. Schmidt, and Y. Zhao. 2006. Soil properties influencing compactability of forest soils in British Columbia, Canada. *In* CD-Rom abstract no. 177-11 Proc. of the 18th World Congress of Soil Science, International Union of Soil Science. Philadelphia, PA.
- Krzic, M.**, R.F. Newman, C. Trethewey, C.E. Bulmer, and B. Chapman. 2006. Impacts of cattle grazing on vegetation and soil properties on rehabilitated landings in central interior of British Columbia. *J. Soil Water Conserv.* 61:137-144.
- Krzic, M.**, K. Wiseman, L. Dampier, and D. Gaumont-Guay. 2006. SoilWeb: A tool for the enhancement of teaching and learning in soil science. p. 38 *in* Proc. North American Colleges and Teachers of Agriculture (NACTA) Conference. Vancouver, BC.
- Krzyzanowski, J., I.G. McKendry, and **J.L. Innes**. 2006. Evidence of elevated ozone concentrations in the Lower Fraser Valley, British Columbia, Canada. *Water Air Soil Poll.* 173:273-287.
- Lam, F.** 2006. State of earthquake research in North America and Japan. pp. 1-8 *in* Proc. 12th International Wood Construction Conference Holzbauforum Garmisch-Partenkirchen Germany.
- Lam, F.**, J. Gu, and I. Zakurecky. 2006. Performance of posts laminated with mountain pine beetle transmitted blue-stained lodgepole pine. *Forest Prod. J.* 56(9):60-64.
- Lam, F.**, M. Li, and J. Gu. 2006. Structural performance of one storey Japanese post-and-beam building. *In* Proc. of the 9th WCTE. Portland USA. (CD).
- Langford, W., **S.E. Gergel**, T.G. Dietterich, and W. Cohen. 2006. Map misclassification can cause large errors in landscape pattern indices: examples from habitat fragmentation. *Ecosystems* 9(3):474-488.
- Lazarescu, C., W. Hongwei, and **S. Avramidis**. 2006. Shrinkage strain in wood under kiln drying conditions. *PRO Ligno* 2(2):19-28.
- Lee, S., J.-J. Kim, and **C. Breuil**. 2006. Diversity of fungi associated with the mountain pine beetle, *Dendroctonus ponderosae* and infested lodgepole pines in British Columbia. *Fungal Divers.* 22:91-105.
- Lee, S., J-J Kim, and **C. Breuil**. 2006. Pathogenicity of *Leptographium longiclavatum* associated with *Dendroctonus ponderosae* to *Pinus contorta*. *Can. J. For. Res.* 36:2864-2872.
- Lefaix-Durand, A., D. Poulin, R. Beauregard, and **R.A. Kozak**. 2006. Relations Interorganisationnelles et Création de Valeur: Synthèse et Perspectives (Interfirm Relationships and Value Creation: Synthesis and Perspectives). *Revue Française de Gestion* 32(164):205-227.
- Lefaix-Durand, A., F. Robichaud, R. Beauregard, **R.A. Kozak**, J.-M. Frayret, and D. Poulin. 2006. Procurement strategies in the homebuilding industry: an exploratory study on the largest builders in the United States. *J. Forest Prod. Bus. Res.* 3:6.
- Leijten, A.J.M, S. Ruxton, **H. Prion**, and **F. Lam**. 2006. Reversed-cyclic behavior of a novel heavy timber tube connection. *J. Struct. Eng. ASCE* 132(8):1314-1319.
- LeMay, V.**, and W. Kurz. 2006. Estimating carbon stocks and stock changes in forests: linking models and data across scales. pp. 6 (abstract) and *in* Proc. IUFRO Div. 4. International Meeting: Managing Forest Ecosystems: The Challenges of Climate Change. Universidad de Valladolid, Spain. (CD).

- LeMay, V.**, T. Lee, R. Scott, D. Sattler, D. Robinson, A.-A. Zumrawi, and **P. Marshall**. 2006. Modeling natural regeneration following mountain pine beetle attacks in the Southern and Central Interior of British Columbia. Results for Year 1. Natural Resources Canada, MPB Standard Contribution Agreement PO 8(25):96.
- Leuning, R., D. Hughes, P. Daniel, **N.C. Coops**, and G. Newnham. 2006. A multi-angle spectrometer for automatic measurement of plant canopy reflectance spectra. *Remote Sens. Environ.* 103:236-245.
- Lewis, J.L., and **S.R.J. Sheppard**. 2006. Culture and communication: using integrated gis-landscape visualization to improve forest management consultation with indigenous communities. *Landscape Urban Plan.* 77:291-313.
- Li, M., **F. Lam**, and, G. Lee. 2007. Structural assessment of trailer floor systems with aluminum frame and wood decking. *International J. Heavy Veh. Syst.* 14(2):213-226.
- Lim, Y.W., R.J. Chedgy, S. Amirthalingam, and **C. Breuil**. 2007. Screening fungi tolerant to western red cedar (*Thuja plicata* Donn) extractives. Part 2. Development of a feeder strip assay. *Holzforshing* 61:195-200.
- Lin, Y., and **T.C. Maness**. 2006. A goal-seeking optimization algorithm for optimizing chop saws. *Forest Prod. J.* 56(11/12):73-78.
- Lindgren, P.M.F., D.B. Ransome, D.S. Sullivan, and **T.P. Sullivan**. 2006. Plant community attributes 12 to 14 years following pre-commercial thinning in a young lodgepole pine forest. *Can. J. Forest. Res.* 36:48-61.
- Lippert, D., S. Chowrira, S.G. Ralph, J. Zhuang, D. Aeschliman, **C. Ritland, K. Ritland**, and **J. Bohlmann**. 2007. Conifer defense against insects: Proteome analysis of sitka spruce (*Picea sitchensis*) bark induced by mechanical wounding or feeding by white pine weevils (*Pissodes strobi*). *Proteomics* 7:248-270.
- Liu, G., S. Han, X. Zhao, **J. Nelson**, H. Wang, and W. Wang. 2006. Optimisation algorithms for spatially constrained forest planning. *Ecol. Model.* 194:421-428.
- Lstibůrek, M., T. Mullin, and **Y.A. El-Kassaby**. 2006. The impacts of positive assortative mating, differential success of somatic embryogenesis, and multi-trait selection on the outcome of clonal forestry programs. *Can. J. For. Res.* 36:1376-1384.
- Lyons, C.K.**, and **R.J. Fannin**. 2006. A comparison of two design methods for unpaved roads reinforced with geogrids. *Can. Geotech. J.* 43(12):1389-1394.
- Lyons, C.K.**, and M. Lansdowne. 2006. Vertical stress in the gravel decking of log bridges. *Western J. Appl. Forest.* 21(2):61-67.
- Mabee, H.N.S, and **G. Hoberg**. 2006. Equal partners? Assessing co-management of forest resources in Clayoquot Sound. *Soc. Natur. Res.* 19(10):875-888.
- MacNutt, M.J, **S.G. Hinch**, C.G. Lee, and A.P. Farrell. 2006. Stock specific differences in the swimming ability, metabolic rates and post-exercise metabolic recoveries of Fraser River pink and sockeye salmon in relation to migration distance and temperature. *Can. J. Zool.* 84:88-97.
- Mahon, C.L., and **K. Martin**. 2006. Nest survival of chickadees in managed forests: habitat, predator, and year effects. *J. Wildlife Manage.* 70:1257-1265.
- Mahony, N., P.G. Krannitz, and **K. Martin**. 2006. Seasonal fecundity of sagebrush Brewer's sparrows at the northern edge of the range. *The Auk* 123:512-523.
- Manning, P., J.N. Newington, H.R. Robson, M.A. Saunders, M.A. Bradford, T. Eggers, R.J. Ellis, A.C. Gange, S. Marhan, E. Kandeler, D. Tscherko, E. Reid, **S.J. Grayston**, M. Bonkowski, R.D. Bardgett, C.H.J. Godfray, and M. Rees. 2006. Decoupling the direct and indirect effects of nitrogen deposition on ecosystem function. *Ecol. Lett.* 9:1015-1024.
- Mao, J.-D., K.M. Holtman, J.T. Scott, **J.F. Kadla**, and K. Schmidt-Rohr. 2006. Differences between lignin in unprocessed wood, wiley-milled wood, mutant wood, and MWL detected by ¹³C solid-state NMR. *J. Agri. Food Chem.* 54:9677-9686.
- Martin, K.**, and A.R. Norris. 2007. Life in the small-bodied cavity nester guild: demography and reproduction of sympatric mountain and black-capped chickadees within nest web communities under changing habitat conditions. pp. 111-130 in Ken Otter (Ed.), *Ecology and Behavior of Chickadees and Titmice; An Integrated Approach*. Oxford University Press, UK.
- Martin, K.**, A.R. Norris, and M.C. Drever. 2006. Beetles in the nest web: Impacts of bark beetle populations on avian biodiversity in interior British Columbia forests: implications for critical habitat management. *B.C. J. Ecosyst. Manage.* 7:10-24.
- Martin, K.**, and K.L. Wiebe. 2006. Impacts of extreme climate events on alpine birds. *Acta Zool. Sinica* 52:162-164.
- Mathey, A., E. Kremar, **D. Tait**, I. Vertinsky, and **J.L. Innes**. 2007. Forest planning using coevolutionary cellular automata. *Forest Ecol. Manage.* 239:45-56.

- Mazur, M., K. Hope-Ross, R. Sederoff, H-m. Chang, and **J.F. Kadla**. 2007. Synthesis of hydroxyphenylpropanoid b-D-glucosides. *J. Wood Chem. Technol.* 27(1):1-8.
- McGuire, K., **M. Weiler** and J. McDonnell. 2006. Integrating field experiments with modeling to infer water residence times. *Advances in Water Resources*. Published online, doi:10.1016/j.advwatres.
- McKendry, I.G., K. Stahl, and **R.D. Moore**. 2006. Synoptic sea-level pressure patterns generated by a general circulation model: Comparison with types derived from NCEP analyses and implications for downscaling. *Int. J. Climatol.* 26:1727-1736. Published online, doi:10.1002/joc.1337.
- McLean, J.A.**, and F.P. Hain. 2006. Challenges of using on-line resources to aid in forest entomology education. pp. 76-79 in *Proc. of the North American Forest Insect Work Conference*, Asheville, NC, USA.
- McLean, J.A.**, and D.C. Jones. 2006. Beetle diversity in forest and pastoral areas, Whangamata, Coromandel Peninsula. *New Zeal. J. Nat. Sci.* 31:25-42.
- Meitner, M.**, R. Gandy, and **J. Nelson**. 2006. Application of texture mapping to generate and communicate the visual impacts of partial retention systems in boreal forests. *For. Ecol. Manage.* 228(1-3):225-233.
- Meitner, M.**, H. Harshaw, **S.R.J. Sheppard**, and P. Picard. 2006. Arrow IFPA SeriesL: Note 8 of 8. Criterion 9: Quality of life benefits. *BC J. Ecosyst. Manage.* 7(1):99-105.
- Mennill, D.J., T.M. Burg, R.L. Curry, **K. Martin**, A.R. Norris, L. Ratcliffe, M.W. Reudink, L.M. Rossano, and K.A. Shubert. 2007. Parid reproductive behavior. pp. 147-150 in Ken Otter (ed.), *Ecology and Behavior of Chickadees and Titmice; An Integrated Approach*. Oxford University Press, UK.
- Merritt, W.S., **Y. Alila**, M. Barton, B. Taylor, S. Cohen, and D. Neilson. 2006. Hydrologic response to scenarios of climate change in sub watersheds of the Okanagan basin, British Columbia. *J. Hydrol.* 326:79-108.
- Meyn, A., and **M.C. Feller**. 2006. Fire history of forest remnants in wetter lodgepole pine dominated forests in southern British Columbia, Canada. *Northwest Sci.* 80:86-94.
- Moffat, R.A., and **R.J. Fannin**. 2006. A large permeameter for study of internal stability in cohesionless soils. *ASTM Geotech. Test. J.* 29(4):273-279.
- Mofidpoor, M., **M. Krzic**, and L. Principe. 2006. Quality of peat moss as a growing media base. pp. 91-92 in *Proc. Annual Conference of the Canadian Society of Soil Science*. Banff, AL.
- Moore, T.R., J.A. Trofymow, **C.E. Prescott**, J. Fyles and B.D. Titus. 2006. Patterns of carbon, nitrogen and phosphorus dynamics in decomposing foliar litter in Canadian forests. *Ecosystems* 9:46-62.
- Morford, S., **R.A. Kozak**, M. Suvedi, and **J.L. Innes**. 2006. Factors affecting program evaluation behaviours of natural resource extension practitioners - motivation and capacity building. *J. Extension* 44(3), Article No. 3FEA7.
- Morin, C., P. Tanguay, **C. Breuil**, D. Qing Yang, and L. Bernier. 2006. Bioprotection of spruce logs against sapstain using an albino mutant from *Ceratocystis resinifera*. *Phytopathology* 96:526-533.
- Murray, P.J., R. Cook, A.F. Currie, L.A. Dawson, A.C. Gange, **S.J. Grayston**, and A.M. Treonis. 2006. Interactions between plants and the soil environment: implications for soil faunal structure and diversity. *Appl. Soil Ecol.* 33:199-207.
- Neilsen, D., S. Smith, G. Frank, W. Koch, **Y. Alila**, W. Merritt, B. Taylor, M. Barton, and S. Cohen. 2006. Potential impacts of climate change on water availability for crops in the Okanagan Basin, British Columbia. *Can. J. Soil Sci.* 86:921-936.
- Nelson, J.** 2006. Arrow IFPA Extension Note 7: Timber economic benefits. *BC J. Ecosystems Manage.* 7(1):92-98.
- Nitschke, C.R., and **J.L. Innes**. 2006. Interactions between fire, climate change and forest biodiversity: A review. *Perspect. Agric. Vet. Sci. Nutr. Nat. Res.* 1(60):1-9.
- Northway, S., and **G.Q. Bull**. 2006. International forest and forest products trade model: Scenarios for China and Indonesia's forest supply, forest products processing, consumption and trade. p. 31 in *CIFOR report*. Bogor, Indonesia.
- O'Connor, K.D., A.B. Marr, **P. Arcese**, L.F. Keller, K.J. Jeffery, and M.W. Bruford. 2006. Extra-pair fertilization and effective population size in the song sparrow (*Melospiza melodia*). *J. Avian Biol.* 37:572-578.
- Pan, X., K. Ehara, **N. Gilkes**, **J.F. Kadla**, and **J. Saddler**. 2006. Organosolv ethanol lignin from hybrid poplar as a radical scavenger: Relationship between lignin structure, extraction conditions and antioxidant activity. *J. Agr. Food Chem.* 54:5806-5813.
- Pan, X.J., **N. Gilkes**, and **J. Saddler**. 2006. Effect of acetyl groups on enzymatic hydrolysis of cellulosic substrates. *Holzforchung* 94:851-861.

- Pan, X, N. Gilkes, **J. Kadla**, K. Pye, S. Saka, K. Ehara, D. Gregg, D. Xie, D. Lam, and **J. Saddler**. 2006. Bioconversion of hybrid poplar to ethanol and co-products using an organosolv fractionation process: optimization of process yields. *Biotechnol. Bioeng.* 94:851-861.
- Park, H.J., **K. Semple**, and **G.D. Smith**. 2006. Screw withdrawal resistance, bending moment resistance, and failure load of corner joints constructed with different fasteners in furniture grade particleboard. *Forest Prod. J.* 56(4):48-55.
- Patra, A.K., A. Clays-Josserand, V. Degrange, **S.J. Grayston**, N. Guillaumaud, P. Loiseau, F. Louault, S. Mahmood, S. Nazaret, L. Philippot, F. Poly, J.I. Prosser, and X. Le Roux. 2006. Effects of management regime and plant species on the enzyme activity and genetic structure of N-fixing, denitrifying and nitrifying bacterial communities in grassland soils. *Environ. Microbiol.* 8:1005-1016.
- Paul, L.R., B.K. Chapman, and **C.P. Chanway**. 2006. *Suillus tomentosus* tuberculate ectomycorrhizal abundance and distribution in *Pinus contorta* woody debris. *Can. J. Forest. Res.* 36:460-466.
- Perscher, F., D. Lindgren, and **Y.A. El-Kassaby**. 2006. Is linear deployment of clones optimal under different clonal outcrossing contributions in seed orchards? *Tree Genet. Genom.* 2:25-29.
- Phillips, M., **J. Bohlmann**, and J. Gershenzon. 2006. Molecular regulation of induced terpenoid biosynthesis in conifers. *Phytochemistry Reviews* 5:179-189.
- Pon, L.B., **S.G. Hinch**, G.N. Wagner, A.G. Lotto and S.J. Cooke. 2007. Swimming performance and morphology of juvenile sockeye salmon, *Oncorhynchus nerka*: A comparison of an inlet and outlet fry population. *Environ. Biol. Fishes.* 78:257-269.
- Quigley, J.T., and **S.G. Hinch**. 2006. Effects of rapid experimental temperature increases on acute physiological stress and behaviour of stream dwelling juvenile chinook salmon. *J. Therm. Biol.* 31:429-441.
- Quilty, E. and **R.D. Moore**. 2007. Measuring stream temperature. *Streamline Watershed Manage. Bull.* 10(2):25-30.
- Ralph S.G., J.W. Hudgins, S. Jancsik, V.R. Franceschi, and **J. Bohlmann**. 2007. Aminocyclopropane carboxylate synthase is a regulated step in ethylene-dependent induced conifer defense. Full-length cDNA cloning of a multigene family, differential constitutive and wound- and insect-induced expression, and cellular and subcellular localization in spruce and Douglas fir. *Plant Physiol.* 143:410-424.
- Ralph, S., H. Yueh, M.F. Friedmann, D. Aeschliman, J.A. Zeznik, C.C. Nelson, Y.S.N. Butterfield, R. Kirkpatrick, J. Liu, S.J.M. Jones, M.A. Marra, C.J. Douglas, K. Ritland, and **J. Bohlmann**. 2006. Conifer defense against insects: Microarray gene expression profiling of Sitka spruce (*Picea sitchensis*) induced by mechanical wounding or feeding by spruce budworm (*Choristoneura occidentalis*) or white pine weevil (*Pissodes strobi*) reveals large-scale changes of the host transcriptome. *Plant Cell Environ.* 29:1545-1570.
- Rand, P.S., **S.G. Hinch**, J. Morrison, M.G.G. Foreman, M.J. MacNutt, J.S. Macdonald, M.C. Healey, A.P. Farrell, and D.A. Higgs. 2006. Effects of changes to river discharge, temperature, and future climates on energetics and mortality of adult migrating Fraser River sockeye salmon. *T. Am. Fish. Soc.* 135:655-667.
- Rangel-Salazar, J.L., P.L. Enriquez, and **P. Marshall**. 2006. Taxonomical allocation of sampling effort for studying tropical owls. pp. 308-323 in Ricardo Rodriguez Estrella, (ed.) Comisión Nacional para el Conocimiento y Uso de la Biodiversidad.
- Reid, J., **P. Arcese**, and D. Hasselquist. 2006. Long-term maternal effect on offspring immune response in song sparrows *Melospiza melodia*. *Biol. Lett.* 2:573-575.
- Reid, J.M., **P. Arcese**, and L.F. Keller. 2006. Intrinsic parent-offspring correlation in inbreeding level in a song sparrow (*Melospiza melodia*) population open to immigration. *American Naturalist* 168:1-13.
- Reid, J., **P. Arcese**, L.F. Keller, K. Elliott, L. Sampson and D. Hasselquist. 2006. Sex-specific inbreeding effects on cell-mediated and humoral immunity in free-living song sparrows (*Melospiza melodia*). *Proc. Royal Society of London. Series B* 274:697-706.
- Rice, J., **R.A. Kozak**, **M.J. Meitner**, and **D.H. Cohen**. 2006. Appearance wood products and psychological well-being. *Wood Fiber Sci.* 38(4):644-659.
- Ripley, S.W., **M. Krzic**, and A.A. Bomke. 2007. Native forage production and soil quality in subtropical forest ecosystems of southwestern Jujuy, Argentina. Abstract 96 in Proc. 60th Conference of the Society for Range Management. Reno, NV, USA.
- Ross, D.J., **S.J. Grayston**, and D. Whitehead. 2006. Changes in soil carbon and nitrogen properties and microbial communities in relation to growth of *Pinus radiata* and *Nothofagus fusca* trees after 6 years at ambient and elevated CO₂. *Glob. Change Biol.* 12:1690-1706.

- Rouse, P.C., D.A. Shuttle, and **R.J. Fannin**. 2006. Implementation of critical state models within FLAC. pp. 379-385 in Proc. 4th International FLAC Symposium on Numerical Modelling in Geomechanics, Madrid, Spain.
- Sakals, M.E., **J.L. Innes**, D.J. Wilford, R.C. Sidle, and G.E. Grant. 2006. The role of forests in reducing hydrogeomorphic hazards. For. Snow Landscape Res. 80(1):11-22.
- Salas, C., **V. LeMay**, P. Nunez, P. Pacheco, and A. Espinosa. 2006. Spatial patterns in an old-growth *Nothofagus obliqua* forest in South-Central Chile. For. Ecol. Manage. 231:38-46.
- Salazar, J., and **T. Sowlati**. 2006. Life cycle assessment of windows. UBC Faculty of Forestry Newsletter Branchlines 17(1):4-5.
- Salehirad, N., and **T. Sowlati**. 2007. Dynamic efficiency analysis of the primary wood producers in British Columbia. Math. Comput. Model. 45(9/10):1179-1188.
- Salehirad, N., and **T. Sowlati**. 2006. Productivity and efficiency assessment of the wood industry – A review with a focus on Canada. For. Prod. J. 56(11/12):25-32.
- Scott, A., D.F. Scott, and **M. Krzic**. 2006. Wildfire-induced water repellency in forest soils of the southern interior of British Columbia. pp. 117 in Proc. Annual Conference of the Canadian Society of Soil Science. Banff, AL.
- Selosse, M.-A., F. Richard, X. He, and **S.W. Simard**. 2006. Mycorrhizal networks: les liaisons dangereuses? Trends Ecol. Evol. 21:621-628.
- Seiple, K.**, and **G.D. Smith**. 2006. Prediction of internal bond strength in particleboard from screw withdrawal resistance models. Wood Fiber Sci. 38(2):256-267.
- Seiple, K.**, E. Sackey, H. Fakhri, T. McConchie, and **G.D. Smith**. 2006. Effect of extended mat open assembly time on properties of OSB bonded with pMDI. Wood Fiber Sci. 38(3):546-552.
- Seybold, S.J., D.P.W. Huber, L.C. Lee, and **J. Bohlmann**. 2006. Pine monoterpenes and pine bark beetles: A marriage of convenience for defense and chemical communication. Phytochemistry Reviews 5:143-178.
- Sheppard, S.R.J.** 2006. Bridging the sustainability gap with landscape visualization in community visioning hubs. Integrated Assessment J. 6(4): 79-108.
- Sheppard, S.R.J.**, **M. Meitner**, N. Wilson, H. Harshaw, and C. Pearce. 2006. Arrow IFPA Series Note 1 of 8. Public processes in sustainable forest management for the Arrow Forest District. BC J. Ecosyst. Manage. 7(1):37-49.
- Sheppard, S.R.J.**, **M. Meitner**, N. Wilson, H. Harshaw, and C. Pearce. 2006. Arrow IFPA Series Note 3 of 8. Public processes in sustainable forest management for the Arrow Forest District. BC J. Ecosyst. Manage. 7(1):57-66.
- Beckley, T.M., J.R. Parkins, **S.R.J. Sheppard**. 2006. Public participation in sustainable forest management: a reference guide. SFM., 55pp. in Sustainable Forest Management Network. Knowledge Exchange and Technology Extension Program (KETE).
- Shetty, M.K., and **C.K. Lyons**. 2006. An onboard load measuring device for off-highway log trucks. Int. J. For. Eng. 18(1):33-40.
- Simard, S.W.**, S.R. Radosevich, D.L. Sachs, and S.M. Hagerman. 2006. Evidence for competition/facilitation trade-offs: Effects of sitka alder density on pine regeneration and soil productivity. Can. J. For. Res. 36:1286-1298.
- Simard, S.W.**, and A. Vyse. 2006. Trade-offs between competition and facilitation: A case study of vegetation management in the interior cedar-hemlock forests of southern British Columbia. Can. J. For. Res. 36:2486-2496.
- Sims, N., C. Stone, **N.C. Coops**, and P. Ryan. 2007. A decision tree modelling strategy for assessing the health of *Pinus radiata* using remote sensing imagery. New Zeal. J. For. Res.. 37(1):57-80.
- Song, X., and **F. Lam**. 2006. Three dimensional stability analysis of wood beam-columns. In Proc. of the 9th WCTE. Portland USA. (CD).
- Sowlati, T.** 2007. The use of nonparametric statistical tests in defining the number of periods to include in an intertemporal DEA analysis. Inte. Transact. Oper. Res. 14:203-215.
- Sowlati, T.**, and S. Vahid. 2006. Malmquist productivity index of manufacturing sector in Canada from 1994 to 2004 - with a focus on wood industry. Scand. J. Forest. Res. 21(5):424-433.
- Squires, K.A., **K. Martin**, and R.I. Goudie. 2007. Vigilance behavior in the harlequin duck (*Histrionicus histrionicus*) during the preincubation period in Labrador: Are males vigilant for self or social partner? The Auk 124:241-252.
- Stahl, K., and **R.D. Moore**. 2006. Influence of glacier cover on late summer streamflow in British Columbia, Canada. Water Resources Research 42, W06201, Online, doi:10.1029/2006WR005022.
- Stahl, K., I.G. McKendry, and **R.D. Moore**. 2006. Climatology of winter cold spells in British Columbia, Canada, in relation to mountain pine beetle mortality. Climate Res. 32:13-23.

- Stahl, K., **R.D. Moore**, J. Floyer, M. Asplin, and I.G. McKendry. 2006. Spatial interpolation of daily air temperature in a large region with complex topography and highly variable station density. *Agr. Forest Meteorol.* 139:224-236.
- Staudhammer, C., **R.A. Kozak**, and **T.C. Maness**. 2006. SPC Methods for detecting simple sawing defects using real-time laser range sensor data. *Wood Fiber Sci.* 38(4):696-716.
- Steventon, J.D., G.D. Sutherland, and **P. Arcese**. 2007. A population-viability-based assessment of marbled murrelet nesting habitat policy in British Columbia. *Can. J. For. Res.* 36:3075-3088.
- Stewart, J., **J.F. Kadla**, and **S. Mansfield**. 2006. Isolation and characterization of lignin from clones of aspen (*Populus tremuloides* Michx.) *Holzforschung.* 60:111-122.
- Sullivan, T.P.**, and D.S. Sullivan. 2006. Plant and small mammal diversity in orchard vs. non-crop habitats. *Agr. Ecosyst. Environ.* 116:235-243.
- Sullivan, T.P.**, D.S. Sullivan, P.M.F. Lindgren, and D.B. Ransome. 2007. Long-term responses of ecosystem components to stand thinning in young lodgepole pine forest: IV. Relative habitat use by mammalian herbivores. *For. Ecol. Manage.* 240:32-41.
- Sullivan, T.P.**, D.S. Sullivan, P.M.F. Lindgren, and D.B. Ransome. 2006. Influence of repeated fertilization on forest ecosystems: Relative abundance and habitat use by snowshoe hares. *Can. J. For. Res.* 36:2080-2089.
- Sullivan, T.P.**, D.S. Sullivan, P.M.F. Lindgren, and D.B. Ransome. 2006. Influence of repeated fertilization on forest ecosystems: Relative habitat use by mule deer and moose. *Can. J. For. Res.* 36:1395-1406.
- Sullivan, T.P.**, D.S. Sullivan, P.M.F. Lindgren, and D.B. Ransome. 2006. Long-term responses of ecosystem components to stand thinning in young lodgepole pine forest: III. Growth of crop trees and coniferous stand structure. *For. Ecol. Manage.* 228:69-81.
- Suratman, N., D. Leckie, N. Walsworth, **G.Q. Bull**, **V.M. LeMay**, and **P. Marshall** 2006. Land-use/cover change detection using classification of temporally normalized Landsat TM. pp. 45-57 *in*. Lee S.S. and Lim F. Conference on Forestry and Forest Products Research Investment for sustainable heritage and wealth. Kuala Lumpur, Malaysia.
- Svenson, D.R., H-m. Chang, H. Jameel, and **J.F. Kadla**. 2006. Inorganic reactions in chlorine dioxide bleaching of softwood kraft pulp. *J. Wood Chem. Technol* 26:201-213.
- Sykes, R., B. Li, F. Isik, **J.F. Kadla**, and H-M. Chang. 2007. Genetic variation and genotype by environment interaction of juvenile wood properties in *Pinus taeda* L. *Annal. Forest Sci.* 63:897-904.
- Tak, K., Y. Chun, and **P.M. Wood**. 2007. The South Korean forest dilemma. *Int. Forest. Rev.* 9(1):548-557.
- Tanguay, P., S. Bozza, and **C. Breuil**. 2006. Assessing RNAi frequency and efficiency in *Ophiostoma floccosum* and *O. piceae*. *Fung. Biol. Genetics* 85:688-812.
- Tanguay, P., P. Loppnau, C. Morin, L. Bernier, and **C. Breuil**. 2006. A spontaneous albino mutant of *Ceratocystis resinifera* results from a point mutation in the polyketide synthetase gene (PKS1). *Can. J. Microbiol.* 52:501-507.
- Tannert, T., and **F. Lam**. 2006. Geometry parameters of rounded dovetail connections. *In Proc. of the 9th WCTE.* Portland, USA. (CD).
- Teste, F.P., J. Karst, M.D. Jones, **S.W. Simard**, and D.M. Durall. 2006. Methods to control ectomycorrhizal colonization: Effectiveness of chemical and physical barriers. *Mycorrhiza* 17:51-65.
- Thompson, S.L., and **K. Ritland**. 2006. A novel mating system analysis for modes of self-oriented mating applied to diploid and polyploid arctic Easter daisies (*Townsendia hookeri*). *Heredity* 97:119-126.
- Tindall, D.B.** 2007. From metaphors to mechanisms: Some critical issues in networks and social movements research. *Soc. Networks* 29:160-168.
- Tindall, D.B.**, and T. Malinick. 2007. Weak ties (Strength of). pp. 5222-5225 *in* George Ritzer (ed.) *Blackwell Encyclopedia of Sociology.* Oxford, UK: Blackwell Publishing. Blackwell Publishing. Oxford, UK.
- Titus, B.D., **C.E. Prescott**, D.G. Maynard, A.K. Mitchell, R.L. Bradley, M.C. Feller, W.J. Beese, B.A. Seely, R.A. Benton, J.P. Senyk, B.J. Hawkins, and R. Koppelaar. 2006. Post-harvest nitrogen cycling in clearcut and alternative silvicultural systems in a montane forest in coastal BC. *Forestry Chron.* 82:844-859.
- Trosper, R.** 2006. Contributions of aboriginal governance ideas to forest land management in British Columbia. *The Centre for Native Policy Research Monitor* 1(3):60-67.

- Trosper, R.** 2006. Indigenous influence on forest management on Indian reservations in the United States. Cultural heritage and sustainable forest management: The role of traditional knowledge. pp. 92-99 *in* Proc. of the Conference, Florence, Italy. Sponsored by International Union of Forest Research Organizations, Task Force on Traditional Forest Knowledge Ministerial Conference on the Protection of Forests in Europe, Warsaw, Poland
- Turner, M.G., D.B. Tinker and **S.E. Gergel**. 2007. Landscape Disturbance: Location, Pattern and Dynamics. pp. 157-172 *in* **S.E. Gergel** and M.G. Turner (eds.) Learning Landscape Ecology: A Practical Guide to Concepts and Techniques. In Korean. Life Science Publisher Co, Seoul, Korea.
- Tuskan, G.A., S. DiFazio, S. Jansson, **J. Bohlmann**, I. Grigoriev, U. Hellsten, N. Putnam, S. Ralph, S. Rombauts, A. Salamov, J. Schein, L. Sterck, A. Aerts, R.R. Bhalerao, R.P. Bhalerao, D. Blaudez, W. Boerjan, A. Brun, A. Brunner, V. Busov, M. Campbell, J. Carlson, M. Chalot, J. Chapman, G.-L. Chen, D. Cooper, P. M. Coutinho, J. Couturier, S. Covert, Q. Cronk, R. Cunningham, J. Davis, S. Degroove, A. Déjardin, C. dePamphilis, J. Detter, B. Dirks, I. Dubchak, S. Duplessis, J. Ehlting, B. Ellis, K. Gendler, D. Goodstein, M. Gribskov, J. Grimwood, A. Groover, L. Gunter, B. Hamberger, B. Heinze, Y. Helariutta, B. Henrissat, D. Holligan, R. Holt, W. Huang, N. Islam-Faridi, S. Jones, M. Jones-Rhoades, R. Jorgensen, C. Joshi, J. Kangasjärvi, J. Karlsson, C. Kelleher, R. Kirkpatrick, M. Kirst, A. Kohler, U. Kalluri, F. Larimer, J. Leebens-Mack, J.-C. Leplé, P. Locascio, Y. Lou, S. Lucas, F. Martin, B. Montanini, C. Napoli, D.R. Nelson, C. Nelson, K. Nieminen, O. Nilsson, V. Pereda, G. Peter, R. Philippe, G. Pilate, A. Poliakov, J. Razumovskaya, P. Richardson, C. Rinaldi, **K. Ritland**, P. Rouzé, D. Ryaboy, J. Schmutz, J. Schrader, B. Segerman, H. Shin, A. Siddiqui, F. Sterky, A. Terry, C.-J. Tsai, E. Uberbacher, P. Unneberg, J. Vahala, K. Wall, S. Wessler, G. Yang, T. Yin, I. C. Douglas, M. Marra, G. Sandberg, Y. Van de Peer, D. Rokhsar. The genome of black cottonwood, *Populus trichocarpa*. Science 313:1596-1604.
- Uner, B., **J.F. Kadla**, S. Zauscher, and M. Ramasubramanian. 2006. Determination of adhesion forces between poly(vinyl alcohol) and an iron oxide surface using atomic force microscopy. J. Appl. Polym. Sci. 99:3528-3534.
- Vahid, S., and **T. Sowlati**. 2007. Efficiency analysis of the Canadian wood products manufacturing. For. Prod. J. 57(1/2):71-77.
- Vyse, A., C. Ferguson, **S.W. Simard**, T. Kano, and P. Puttonen. 2006. Growth of Douglas-fir, lodgepole pine, and ponderosa pine seedlings underplanted in a partially-cut, dry Douglas-fir stand in south-central British Columbia. Forestry Chron. 82:723-732.
- Wagener, T., **M. Weiler**, B. McGlynn, M. Gooseff, T. Meixner, L. Marshall, L. McGuire, and M. McHale. 2006. Teaching hydrology - Are we providing an interdisciplinary education? IAHS Newsletter 87:10.
- Wallace, B.M., **M. Krzic**, T.A. Forge, K. Broersma, and R.F. Newman. 2006. Effects of biosolids on aggregate stability in three forage production systems in the southern interior of British Columbia. p. 137 *in* Proc. Annual Conference of the Canadian Society of Soil Science. Banff, AL.
- Wallace, B.M., T.A. Forge, **M. Krzic**, K. Broersma, and R.F. Newman. 2006. Effects of biosolids on soil properties in three forage production systems in the southern interior of British Columbia. *In* Proc. Northwest Biosolids Management Conference. Blaine, WA, USA. (CD).
- Wang, B., C. Dai, and **S. Ellis**. 2006. Veneer surface roughness and compressibility pertaining to plywood/LVL manufacture. Part 1. Experimental investigation and implication. Wood Fiber Sci. 38(3):535-545.
- Wang, B., **S. Ellis**, and C. Dai. 2006. Veneer surface roughness and compressibility pertaining to plywood/LVL manufacture. Part 2. Optimal panel densification. Wood Fiber Sci. 38(4):727-735.
- Wang, Y., V. **LeMay**, and T. Baker. 2006. Nonlinear mixed effects modelling for improving site-specific prediction of dominant height growth of *Eucalyptus globulus* plantations. *In* CD Proc. XXIII International Biometric Conference in Montreal, Canada.
- Wang, B., X. Liu, and **F. Lam**. 2006. Computational modeling of lateral load transfer capacity of rimboard. *In* Proc. 9th WCTE. Portland USA. (CD).
- Wang, B., X. Zhou, C. Dai, and **S. Ellis**. 2006. Air permeability of aspen veneer and glueline. Experimentation and implication. Holzforchung 60:304-312.
- Wang, T., A. Hamann, A. Yanchuk, G.A. O'Neill, and **S.N. Aitken**. 2006. Use of response functions in estimating current and future forest productivity of lodgepole pine. Glob. Change Biol. 12:1-13.
- Wang, Y., **V. LeMay**, and T. Baker. 2006. Nonlinear mixed effects modelling for improving site-specific prediction of dominant height growth of *Eucalyptus globulus* plantations. Proc. XXIII International Biometric Conference in Montreal, Canada. (CD).

- Waring, R.H., **N.C. Coops**, W. Fan, and J. Nightingale. 2006. MODIS enhanced vegetation index predicts tree species richness across forested ecoregions in the contiguous U.S.A. *Rem. Sen. Environ.* 103:218-226.
- Weiler, M.**, and J.J. McDonnell. 2007. Conceptualizing lateral preferential flow and flow networks and simulating the effects on gauged and ungauged hillslopes. *Water Resour. Res.* 43:W03403.
- Wells, R., and **J. Nelson**. 2006. Arrow IFPA Extension Note 4: SFM Basecase analysis: The lemon landscape unit pilot project. *BC J. Ecosyst. Manage.* 7(1):67-75.
- White, A., **G.Q. Bull**, and S. Maginnis. 2006. Subsidies for industrial plantations: turning controversy into opportunity. *Aborvitae* 31:15.
- Wiebe, K.L., W.D. Koenig, and **K. Martin**. 2006. Evolution of clutch size in cavity-excavating birds: the nest site limitation hypothesis revisited. *Am.Nat.* 167:343-353.
- Wilford, D.J., **J.L. Innes**, and D.L. Hogan. 2006. Protection forests: Recognizing and maintaining the forest influence with regard to hydrogeomorphic processes. *Forest, Snow and Landscape Research* 80(1):7-10.
- Wilson, S., and **P. Arcese**. 2006. Nest depredation, brood parasitism and reproductive variation in island song sparrow populations. *The Auk* 123:784-794.
- Winkler, R.D., and **R.D. Moore**. 2006. Variability in snow accumulation patterns within forest stands on the interior plateau of British Columbia, Canada. *Hydrol. Process.* 20:3683-3695.
- Wipfli, M.S., **J.S. Richardson**, and R.J. Naiman. 2007. Ecological linkages between headwaters and downstream ecosystems: Transport of organic matter, invertebrates, and wood down headwater channels. *J. Am. Water Resour. As.* 43:72-85.
- Wood, P.M.** 2006. Sustainability, biodiversity, and western governance. *UBC Faculty of Forestry Newsletter Branchlines* 17(2):6-7.
- Wood, P.M.** 2006. Professional reliance: consistently good decision-making. *BC Forest Prof.* 13(6):10-11.
- Wood, P.M.** 2006. Western governance and species-at-risk policies. pp. 75-80 *in Proc. Multi-Disciplinary Approaches to Recovering Caribou in Mountain Ecosystems.* Columbia Mountain Institute of Applied Ecology. Revelstoke, BC.
- Wood, P.M.**, and J. Bailey. 2007. Ethical issues in forest genomics: Stakeholder perspectives in British Columbia. p. 60 *in Proc. 4th CESAGen/CSG International Conference: Genetics and Society – Retrospects and Prospects.* The Royal Society, London.
- Wu, H., and **S. Avramidis**. 2006. Prediction of timber kiln drying rates by neural networks. *Dry. Technol.* 24:1-5.
- Wulder, M., J. White, B. Bentz, F. Alvarez, and **N.C. Coops**. 2006. Estimating the probability of mountain pine beetle red-attack damage, *Remote Sens. Environ.* 101:150-166.
- Yamada, T., T-F Yeh, H-M Chang, L. Li, V. L. Chiang, and **J.F. Kadla**. 2006. Rapid analysis of transgenic trees using transmittance near infrared spectroscopy. *Holzforschung* 60:24-28.
- Yeh, T-f, J. Braun, B. Goldfarb, H-m. Chang, and **J.F. Kadla**. 2006. Morphological and chemical variations between juvenile wood, mature wood, and compression wood of loblolly pine (*Pinus taeda* L.). *Holzforschung* 60:1-8.
- Yeh, T-f, R.M. Cameron, B. Goldfarb, H-m Chang, and **J.F. Kadla**. 2006. Utilization of polar metabolite profiling in the comparison of juvenile wood and compression wood in loblolly pine (*Pinus taeda*) *Tree Phys.* 26:1497-1503.
- Yeh, T-f, J. Braun, B. Goldfarb, H-m. Chang, and **J.F. Kadla**. 2006. Morphological and chemical variations between juvenile wood, mature wood and compression wood in loblolly pine (*Pinus taeda*) *Holzforschung* 60:1-8.
- Young, J.L., **S.G. Hinch**, S.J. Cooke, G.T. Crossin, D.A. Patterson, A.P. Farrell, G. Van Der Kraak, A. Lotto, A.Lister, M.C. Healey, and K. English. 2006. Physiological and energetic correlates of en route mortality for abnormally early migrating adult sockeye salmon in the Thompson River, British Columbia. *Can. J. Fish. Aquat. Sci.* 63:1469-1480.
- Young, J.L., Z.B. Bornik, M.L. Marcotte, K.N. Charlie, G.N. Wagner, **S.G. Hinch**, and S.J. Cooke. 2006. Integrating physiology and life history to improve marine fisheries management and conservation. *Fish Fisheries* 7:262-283.
- Zhao, Y., M. Krzic, **C.E. Bulmer**, M.G. Schmidt, and **S. Simard**. 2006. Soil properties affecting compactability of forest soils in British Columbia. pp. 147-148 *in Proc. Annual Conference of the Canadian Society of Soil Science.* May, Banff, AL.



Photo: Jamie Myers

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OVER RECENT YEARS the Faculty of Forestry has sought to strengthen our connections with alumni and those in the broader community to raise awareness and understanding of the diversity of programs and research in our Faculty that we term 'forestry'. Many of the projects that have been generously supported over the previous year by our alumni and friends have made a significant contribution to helping us reach out to the community; to building our research capacity; and to providing our students with the financial support and facilities needed to further their academic endeavours. It is with this support that the Faculty can continue to promote itself as a world leader in Forestry research and education.

For the period April 2006 to March 2007 the Faculty of Forestry raised \$1,881,005 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 \$54,189.45 in support of projects such as the Loon Lake Redevelopment (\$24,744), the Dean of Forestry Scholarship Fund (\$7,022), the John Worrall Alumni Bursary in Forestry (\$4,877), and the Forestry student lounge known as the "Treehouse."

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.

Events

Major alumni and development events held during the year included:

- The Malcolm Knapp Research Forest Spring Camp Tour and BBQ was held in April 2006, in conjunction with the 3rd year students annual Spring Camp. The event included tours of forestry research sites, the new sawmill, the log building training facility and the student thinning exercise. Later in the day the group also visited the almost complete Walter C. Koerner Forestry Centre and enjoyed a presentation from a team of 4th year students on their recent research project that was undertaken with the Katzie First Nations.
- Alumni, current students, industry partners and friends joined the Faculty in April of 2006 to celebrate the 10th Anniversary of the UBC Wood Products Processing Program. The event included receptions, speakers and an open house at the Centre for Advanced Wood Processing at UBC in Vancouver.
- In May 2006 the Faculty of Forestry hosted a Convocation morning tea for students, parents, alumni and guests to celebrate the achievements of graduating Faculty of Forestry students, both undergraduate and graduate. Mike Apsey ('61) gave a warm and humorous speech congratulating the students, and welcoming them to the ranks of the over 4500 UBC forestry alumni.
- UBC welcomed alumni and friends during Alumni Weekend, September 14 – 16, 2006. The weekend included such events as breakfast with the president, exhibits, tours and presentations. An informal lunch was held for Forestry alumni in the Forest Sciences Centre and included a special presentation to honour Bart van der Kamp (BSF '64) for his outstanding contribution to student education and research during his 40 year career with the Faculty.

Donor gifts and contributions to the Faculty of Forestry – 2006/07

Area of designation	\$ pledged	% of \$ pledged	\$ received	% of \$ received
Scholarships, Bursaries and Awards Peter N. Affleck Graduate Scholarship (\$32,950) Dean of Forestry Scholarship (\$7,311)	244,874	13	168,150	6
Property, Building and Equipment Loon Lake redevelopment (\$447,719) Treehouse (\$5,521)	471,553	25	1,399,306	45
Research BC Forum on Forest Economics & Policy (\$215,000)	231,500	12	116,500	4
Academic Programs CAWP Partnership Program (\$46,750)	191,956	10	67,455	2
Endowments and Chairs BC Leadership Chair in Advanced Forest Products (\$534,625) Chair in Wood Building Design and Construction (\$200,484)	741,122	40	1,336,871	43
Total donations & contributions	1,881,005	100	3,088,283	100

- Bruce Larson, head of the Department of Forest Resources Management, welcomed forestry graduates and spouses to our Northern Alumni Event, held in Prince George, on the evening of November 17, 2006. The Faculty plans to hold this event every second year.

ACHIEVEMENTS IN 2006 – 07

- Opening of the Walter C. Koerner Forestry Centre at Loon Lake on October 26th 2006. The new building is now the premier facility on site and provides overnight accommodation for 40 people. The Koerner Centre is available as a conference and retreat facility for forestry, community and corporate groups, as well as alumni class reunions. The Faculty is proud to have installed a Loon Lake donor wall within the Koerner Centre that will honour cumulative gifts totalling over \$500 toward the redevelopment of Loon Lake.
- Fundraising continued for the Chair in Wood Building, Design and Construction with a further \$200,484 received during the 2006/07 financial year. The endowment has now reached \$2,022,500.
- Funding continued for the CAWP Industry Partnership Program in support of student scholarships, recruitment and co-op, equipment purchases and hiring of industry experts for training. The following companies are CAWP Partners as of March 31: Goodfellow, Interforest, Raywal Kitchens, Tolko, Unison Windows and Weyerhaeuser.
- A fundraising plan for the BC Forum on Forest Economics and Policy was developed as it moves into its second phase. To-date the Forum has been successfully stimulating dialogue on economics and policy issues relating to the forestry industry throughout the province on such topics as BC Forest Sector Competitiveness, Land Tenure and Management, Economic Impacts of the mountain pine beetle, Community Economics and Value Focused Forestry.
- The First Nations Council of Advisors, in partnership with the Faculty, developed a new aboriginal forestry strategy entitled “Furthering Aboriginal Forestry: A Strategic Plan for 2007-2010”. Fundraising and implementation plans for the next three years are in the process of being developed.
- Eight new student awards were established and will provide an additional \$14,050 in support for our students. New awards include the: Weyerhaeuser Award/Scholarship in Forestry, Weyerhaeuser Aboriginal Award in Forestry, Tolko Industries Ltd. Scholarship in Forestry, Canadian Institute of Forestry Medal

and Prize, FMIBC Scholarship in Forestry, Kenneth Graham Memorial Scholarship, Bart van der Kamp Prize in Forestry and the Peter N. Affleck Memorial Graduate Scholarship in Forest Policy.

PLANS FOR 2007 – 08

In the coming year the Faculty’s Alumni and Development Program will assist the Faculty to secure the resources and its 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. Attention to connecting with alumni throughout the Province will remain a priority, as well as developing areas where our alumni can be more involved in mentoring our students and new graduates.
- Increase financial support available to our students through scholarships, bursaries, prizes and awards.
- Secure remaining \$2.25 million of matching support required to establish the BC Leadership Chair in Advanced Forest Products Manufacturing Technology. This is the only BC Leadership Chair focused on the forest sector and improving BC, and Canada’s, global competitiveness through technical innovation.
- Finalize funding to complete the redevelopment of the Loon Lake Research and Education Centre. Focus will be on securing funding and in-kind materials for the new cabins as well as other infrastructural and landscape improvements.
- Strengthen support for forest economics and policy research in the Faculty through the BC Forum in Forest Economics and Policy, and the establishment of a Chair in Forest Resource Economics.
- Implement the Faculty’s new Aboriginal Forestry Strategy. In particular secure support for new Aboriginal Coordinator and associated recruitment programs; student financial aid; and developing extension programs.
- Secure support for two Chairs in Forest Health – forest entomology and forest pathology - to fill faculty retirements in these areas.
- Continue support for the Centre for Applied Conservation Research (CACR) and graduate education.
- Continue to increase the number of industry members for the CAWP Industry Partnership Program.

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.

PRODUCTION INFORMATION

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Explore our Undergrad programs ▶▶

- Bachelor of Science Forest Sciences**
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UBC FORESTRY 2005 ANNUAL REPORT

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2006 Annual Report

ANNUAL REPORTS FOR PREVIOUS YEARS

- 2006 Annual Report
- 2005 Annual Report
- 2002 Annual Report
- 2003 Annual Report

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WHAT IS FORESTRY?

Forestry is the science, art and practice of understanding, managing and using wisely resources associated with, and derived from forest lands.

These resources include timber, water, fish, wildlife, soil, plants, and recreation. Forests are instrumental in the beauty and spiritual impact of our landscape. The utilization of all of these resources is part of the cultural heritage of British Columbia, and modern resource management embraces these values. Finding a balance between these multiple uses, while sustaining and conserving forest resources is the basis of this challenging and exciting program of study.

The diverse *degrees programs* offered at the UBC Faculty of Forestry reflect the special resources and the businesses they generate. Students learn to combine social and biological sciences with technical skills, striving to achieve a balance between society's ever-increasing demand for goods and services and environmental sustainability.

Forestry *career paths* that graduates follow include forest biologists, professional foresters, forestry business administrators, conservationists, and renewable resource managers. As an applied science, a forestry education can also serve as a foundation for entry into professions such as education, business, and law.

The UBC Faculty of Forestry prepares students to manage our natural resources in an environmentally, socially and economically sustainable manner.

50th Sopron-UBC Anniversary Celebration June 14 & 15 2007

- ▶ Faculty of Forestry announces new major: Global Perspectives in Conservation

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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