

2010 Annual Report



Forestry
University of British Columbia

FORESTRY ADVISORY COUNCIL

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

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Mr Keith Atkinson

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Mr Ken Baker

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Forest Innovation Investment Ltd

Dr Clark Binkley

Managing Director

International Forestry Investment Advisors

Dr Bill Bourgeois

President

New Direction Resource Management Ltd

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Managing Partner

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Mr Wayne Clogg

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West Fraser Timber Co Ltd

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Coast Forest Products Association

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Ministry of Forests, Lands and

Natural Resource Operations

Ms Brenda Kuecks

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Mr Garry Merkel

Principal

Forest Innovations

Mr Paul McElligott

President and CEO

TimberWest Forest Corp

Mr Bruce McIntyre

Partner

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Mr Eduardo Rojas-Briales

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FAO Forestry Department

Mr Tom Rosser

Assistant Deputy Minister

Canadian Forest Service, Natural Resources Canada

Mr Gerry Salembier

Assistant Deputy Minister, Western Economic

Diversification

Government of Canada

Ms Frances Seymour

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President and CEO

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2010 Annual Report

Faculty of Forestry

University of British Columbia

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2010 SAW SOME substantial changes in the Faculty of Forestry, the biggest of which was the change of Dean. After almost 10 years in the position, Dr Jack Saddler stepped down, and on 1 July, I had the privilege

of taking over the position. Several other staff changes occurred, with Dr Paul MacFarlane stepping down as Head of Wood Science (being replaced in the interim by Dr Rob Kozak) and Dr Ron Trosper resigning from his position in the Department of Forest Resources Management to take up a position at the University of Arizona. Dr Thomas Tannert took up a position in the Department of Wood Science as Assistant Professor and Associate Chair in Wood Building Design. In addition, Christoph Clodius stepped down as Director of Development and was replaced on 1 April 2011 by Emma Starritt.

Several changes also occurred in the Forestry Advisory Council, with Jim Farrell, Ian Gill, David Hallman, Kimo Ito, Wulf Killman, Avrim Lazar, Charles Loewen and Dennis Rounsville stepping down after varying years of providing excellent advice. The importance of this Council cannot be over-stated; it provides a critical link between the Faculty and its stakeholders, and helps us set the direction for the Faculty's research,

teaching and outreach. We are therefore delighted that several new members have joined it, including Clark Binkley, Bill Bourgeois, Alana Husby, Brenda Kuecks, Eduardo Rojas-Briaes and Tom Rosser. In addition, Garry Merkel agreed to rejoin the Council. The First Nations Council of Advisors did not meet during the course of the year, but the co-chairs, Gordon Prest and Garry Merkel have been in frequent contact, providing invaluable advice and ensuring that Faculty's interactions with First Nations remain a priority.

During the year, the Faculty continued to build on the strategic initiatives started by Jack Saddler. For the first time, the number of ISI students exceeded 100, and 17% of the undergraduate population is now from outside Canada. This presents tremendous opportunities for all the students to learn about the cultures and forests of other countries. This is an area in which we expect to see continued expansion, especially as a result of the establishment of the "2+2" programs with several Chinese universities. At the graduate level, we saw a slight reduction in the number of students, primarily because of the reduced funding for forest-related research available from the Province of British Columbia and the continuing financial challenges faced by the forest sector in the province. This is prompting a re-examination of the Faculty's research priorities, and will likely lead to a greater proportion of the Faculty's research being undertaken outside British Columbia. There are approxi-

Faculty of Forestry activities, 2000/01 – 2010/11

	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11
Undergraduate enrolment ¹	508	447	441	448	453	454	467	504	507	557	589
Distance education (fte)	22	19	14	9	9	10	10	10	9	7	7
Graduate enrolment ¹	231	202	163	170	197	242	252	265	261	268	244
Teaching Evaluation Index ²	2.19	2.05	1.88	1.90	1.99	1.89	2.00	4.26	4.29	4.32	4.11
Extramural funding (\$000)	8,635	8,357	11,370	11,379	10,427	12,101	11,699	13,296	13,493	12,229	10,918
Endowment income (\$000)	1,330	1,342	2,031	1,981	1,706	1,698	1,575	1,902	1,843	1,207	1,075
Extramural funding per GPOB-funded faculty member (\$000)	225	214	274	295	260	304	286	365	374	307	279

¹ Headcount unless otherwise noted

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

mately 250 graduate students now enrolled in the various graduate programs offered by the Faculty, and just over half of these come from outside Canada. The healthy numbers of both undergraduate and graduate students reflect the efforts of our teams in Students Services and the Graduate Programs office.

2011 saw the opening of the UN International Year of Forests, which is intended to celebrate people's actions around the world to sustainably manage our forests. The Faculty has organized several events as part of this, although many occurred later in the year and after the time period that this report covers (April 2010 to March 2011). In February 2011, Environment Canada and the Department of Forest Resources Management jointly organized an international conference on "Proactive adaptation: Challenges and opportunities for incorporating climate change response within sustainable forest management". Speakers drawn from around the world discussed the strategies being adopted to help forests and forest-dependent communities adapt to climate change. Another event consisted of a tree planting ceremony, held on World Forestry Day (March 21), at which the new Minister of Forests, Lands and Natural Resource Operations (the Hon Steve Thomson), the Consul General for China (Liang Shugen) and the Consul General for India (Ashok Das) joined UBC Chancellor Sarah Morgan-Silvester and myself to plant a tree outside the Faculty. The species chosen was *Davidia involucrata*, symbolizing our growing links with Asia. A deciduous tree was selected as being appropriate for the Vancouver environment, providing shade in summer but allowing light in during the winter. The tree was donated by Faculty alumnus Jeremy Shelford and his company, McMillan LP.

Over the year, Faculty members took part in a wide range of activities, and several received significant international awards. These are detailed in the following pages and it would be invidious to single out any one achievement. We were able to co-sponsor a number of events and here I would like to particularly mention the Clayoquot Sound Scientific Panel Symposium Learning from our Past, held in Tofino and Ahousaht. The original panel, which produced landmark recommendations that significantly altered the course of forestry in coastal British Columbia, was co-chaired by (Professor emeritus) Fred Bunnell. The symposium was an opportunity to reflect on these changes and brought together many who were involved in the original panel discussions, as well as some of the new players in the field.

Our alumni represent an important part of our Faculty, and one of my first steps was to appoint an Alumni Officer. Jenna McCann moved into this position, having previously been with the Faculty's development team. Under her leadership, a number of new activities for alumni have been initiated, including a Vancouver dinner (to be repeated in other locations around the province), alumni breakfasts associated with major forestry meetings in Vancouver and Victoria (also to be repeated), and a regular alumni newsletter, which is circulated electronically. Our contacts with alumni have also been increased through a re-design of our Faculty magazine, *Branchlines*. Sue Watts and Jamie Myers have done a great job in making the magazine more accessible, and the interest that it has generated has prompted us to increase production to four issues a year. This is circulated to all alumni, and is now made available to students, as well as being circulated to a growing list of other individuals.

We have been trying to encourage more community involvement amongst our students, and this year we established links with Grandview Elementary School in downtown Vancouver. Some of our undergraduates and graduates have volunteered to work here, promoting environmental education. We are also looking into the possibility of becoming involved in the restoration of Beaver Lake in Vancouver's Stanley Park, following the Faculty's very successful involvement in the post-storm recovery of the Park.

As one of the leading faculties of forestry in the world, we are continuing to take a strong interest in international forestry. We have particularly close links with Asia and, as mentioned above, have established strong relationships with a number of universities in China. We are also becoming increasingly involved with research activities in China. Our links with Korea grew, partly as a result of the World Congress of the International Union of Forest Research Organizations being held in Seoul, and we are seeing significant numbers of students from this part of the world. In addition, we have embarked on a new activity, providing mid-career training for selected officers from the Indian Forest Service. This program is delivered in cooperation with the BC Ministry of Forests, Lands and Natural Resource Operations, the BC Ministry of Environment, and the Canadian Forest Service, and we hope will lead to closer ties between British Columbia and India. These efforts, together with those in other parts of world, are greatly enriching the experience that we can offer our students and are helping broaden the experience of our faculty. In addition, they are helping build the reputation of the faculty internationally.

My first year as Dean has been one of learning, assessment and reflection. I have made considerable efforts to familiarize myself with those aspects of the Faculty that I had previously had little exposure to. I met with all Faculty members individually, and with many of the Faculty's staff. I also met with many of our alumni and other stakeholders in order to build up a better picture of what others expect of us. External departmental reviews were initiated and their reports will be considered during the summer of 2011. All this information will be collated and used in the development of a new Strategic Plan for the Faculty, since our previous one expired in 2010. Our future activities will be consistent with the University's strategic plan, outlined in *Place and Promise: The UBC Plan*, and will focus on goals such as research excellence, student learning, aboriginal engagement and sustainability.



John Innes
Dean, Faculty of Forestry

Programs of Study



Peter Marshall
BScF, MScF, PhD, RPF
Associate Dean
Undergraduate Studies
604.822.4918
peter.marshall@ubc.ca

Sally Aitken
BSF (Hons), MSc, PhD
Director, Forest Sciences
Program
604.822.6020
sally.aitken@ubc.ca

Dennis Bendickson
BSF, RPF
Director, Forest
Operations Major
604.822.5932
dennis.bendickson@ubc.ca

Simon Ellis
BSc (Hons), MSc, PhD
Director, Wood Products
Processing Program
604.822.3551
simon.ellis@ubc.ca

Scott Hinch
BSc (Hons), MSc, PhD
Director, Natural
Resources Conservation
Program
604.822.9377
scott.hinch@ubc.ca

John Nelson
BSF, MBA, PhD, RPF
Director, Forest
Resources Management
Major
604.822.3902
john.nelson@ubc.ca

Bachelor of Science in Forestry

BSF

This degree integrates science and technology to advance the understanding and practice of sustainable forest management. It enables students to become Registered Professional Foresters.

Major in Forest Resources Management: This major focuses on the multidisciplinary aspects of forest resources and the management of forested ecosystems. Students learn about the unique characteristics of each resource, their interactions, and the management of forests to yield a variety of desirable products in the context of ecological, social, and economic objectives. Specializations are offered in International Forestry and Community and Aboriginal Forestry.

Major in Forest Operations: This major focuses on the engineering, planning, development, harvesting, and management of forest lands. It is designed to develop professionals who understand both environmental and social objectives and who can provide the link between the growing forest and its products. Students can add courses to create eligibility for registration as a Professional Engineer. A Minor in Commerce is offered through the UBC Sauder School of Business.

Forest Sciences

BSc (Forest Sciences)

This program develops individuals who can conduct research in forested ecosystems, and are well prepared for graduate studies. Students gain a strong foundation in the basic biological and environmental sciences, with emphasis on the interacting components and functions of forests. Areas of concentration include forest ecology, forest entomology or pathology, forest fire science, forest genetics or biotechnology, forest hydrology and aquatic sciences, forest soils, tree physiology, silviculture, conservation biology, or wildlife ecology. A four-year International Forestry Specialization is also available.

Wood Products Processing

BSc (Wood Products Processing)

This program is a fusion of science, engineering and business. Students gain a comprehensive understanding of wood science, advanced manufacturing and business operations, and can choose to complement their degree with a Minor in Commerce through the UBC Sauder School of Business. This program was developed in response to the need for university graduates

qualified to become leaders in the wood products manufacturing sector. Graduates are always in demand and enjoy diverse career opportunities with the highest average salary compared to other UBC undergraduate degrees.

Natural Resources Conservation

BSc (Natural Resources Conservation)

This trans-disciplinary program provides students with a solid foundation in the function, process, and structure of natural ecosystems, with an appreciation for the political, legal, and socio-economic contexts of conservation and management strategies. The development of communication and problem-solving skills, teamwork, and leadership is emphasized. Students select a major at the end of second year:

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

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

ACHIEVEMENTS IN 2010 – 11

The "Community and Aboriginal Forestry" specialization within the BSF program was implemented in September 2010 and there are currently 5 students enrolled in this new program. There are also other students within Forestry and from across the UBC campus who are taking some of the new courses offered in this program as electives.

PLANS FOR 2011 – 12

- Explore the concept of a "Forest Sciences Honours Program" with entry after completion of second year.
- Implement a new in-house Forestry Communications course for first year students to replace three credits of the first year English requirement. The curriculum has been designed and the course will be offered once a Faculty member has been identified to teach it.

Co-op Programs



Geoffrey Anderson
BComm
Coordinator, Co-op Education
Forestry Programs
604.827.5196
geoff.anderson@ubc.ca



Linda Dom
BA, MA
Coordinator, Co-op Education
and Recruitment Officer, Wood
Products Processing Program
604.822.4793
linda.dom@ubc.ca

CO-OPERATIVE EDUCATION (co-op) enables students to combine their classroom learning with practical and relevant work experience. Since its beginning in 1996, the UBC Forestry Co-op Program has secured work term opportunities for students locally, nationally and throughout the world. Students are able to explore different career options through a variety of work terms, while employers have the opportunity to recruit, train and assess potential future employees.

ACHIEVEMENTS IN 2010 – 11

- Co-op students completed work terms with consultants, government, industry and non-governmental organizations.
- Work terms were completed in British Columbia, Alberta, Ontario, New Brunswick, Nova Scotia, Quebec, South Africa, China, Germany, Australia, and the United States.
- International work terms were completed with Coneco Engineers and Scientists, Great Basin Institute, University of Kansas (United States) and Universiteit Stellenbosch (South Africa) Forest Enterprises Australia, and Gunns Timber Products (Tasmania); Nature Flooring (China); and Hochschule Rosenheim University of Applied Sciences (Germany).
- New employers included: 100 Mile Lumber (100 Mile House, BC), Agriculture and Agri-Food Canada – Beaverlodge Research Farm (Beaverlodge, AB), Coneco Engineers & Scientists (Bridge-water, MA), Great Basin Institute (Reno, NV & Lake Tahoe, CA), Ministry of Environment (Victoria) and Parks Canada – Ecological Integrity/Fire Management (Gatineau, QC).
- The geographical distribution of co-op work terms was 66.2% BC locations; 13.8% Canada outside of BC; and 20% international.
- A joint Co-op Presentation Evening/Mentoring event for forestry students was held in October which provided the opportunity for students to share their learning and experiences from their summer work terms.
- Along with other UBC co-op programs we hosted UBC co-op information sessions in Victoria and Ottawa for hiring-managers of various federal and BC provincial government agencies, departments and ministries.
- A well-attended Co-op Presentation Evening for Wood Products Processing students was co-hosted with an Open House for the Centre for Advanced Wood Processing (CAWP) in October. Students had the opportunity to showcase their learning and experience gained from their summer work terms as well as network with industry employers.

Number of work terms completed

	07/08	08/09	09/10	10/11
Forestry	9	8	3	9
Forest Sciences	9	7	2	2
Natural Resources Conservation	26	24	20	27
Wood Products Processing	52	34	32	27
Total	96	73	57	65

PLANS FOR 2011 – 12

- Further develop international co-op opportunities to broaden students' cultural awareness and understanding of global issues related to their degree and future career.
- Increase the number of new employers participating in co-op.
- Review employer and student marketing strategies.
- Continue and further develop joint marketing initiatives with other UBC co-op programs.
- Apply for accreditation from the Canadian Association for Co-operative Education (CAFCE).

Student Services and Recruitment



Candace Parsons
BSF, RPF
Director, Student Services
604.822.3547
candace.parsons@ubc.ca



Chiara Longhi
BA, MA
Officer, International
Recruitment
604.822.9187
chiara.longhi@ubc.ca

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

ACHIEVEMENTS IN 2010 – 11

Student Services

Student Services staff provide many different types of assistance, including admissions and registration support, orientations and tours, personal and program advising, referrals to other UBC services and more. We pride ourselves on our personalized approach. Graduate Program staff are located in adjacent office space, creating “one-stop shopping” student services for all Forestry students.

Recruitment Activities

Chiara Longhi is the primary staff member who recruits and advises both international and domestic students, as well as visiting and exchange students, supported by the rest of the Student Services Team as required. Linda Dom provides both co-op and recruitment activities for the Wood Products Processing program. Our Faculty-wide recruitment priority again this year has been to increase international student enrolment and retention, in China and the US in particular. The 2+2 transfer agreements with several Chinese universities are already resulting in increased numbers of international students from China entering our programs.

Outstanding Students

Robyn Hooper, a Natural Resources Conservation Co-op student (Major in Global Perspectives), was successful in receiving UBC's most prestigious undergraduate student awards – the Wesbrook Scholar and the Premier Undergraduate Award for outstanding academics, leadership and involvement in student and community activities. Robyn also had the highest academic standing of the Spring 2011 graduating class.

Brian Scott, a BSF Forest Operations (Minor in Commerce) student, was chosen to receive this year's Canadian Institute of Forestry Gold Medal, recognizing him as the most outstanding student of this year's graduating class. Brian worked closely with the Faculty to organize the student trip to Jasper, a chili cookoff, and the silver ring graduation ceremony, all CIF-affiliated events.

Forestry Mentoring Program

This year was the third delivery of our Mentoring Program. Groups are comprised of one alumnus/professional mentor plus 1-3 students (senior and junior). This program helps students to develop their skills in career planning and provides links to their future job market. Mentors included entrepreneurs, retirees and industry and government representatives; participation provided the opportunity to inspire future colleagues, to enhance coaching skills, to network with other mentors and to maintain a connection with the

UBC community. This year's program was well received by all participants. Mentoring is popular with students and growing every year – we had 14 groups involved this year and project 15-20 groups next year. We are always looking for more mentors – to learn more, please contact Geoff Anderson at geoff.anderson@ubc.ca.

Student Events

This year's Forestry Undergraduate Society (FUS) executive and representatives were Chantelle Chan, Matthew Zustovic, Owen Johnston, Tracy Wotten, Cassandra Storey, Amanda Harvey, Amanda Girard, Cory Wallace, Mitch Wood, Sam James, Chris Boulton, Kit Burke, Marcus Schonnop and Jesse Hodgins. Student Services worked with the FUS to organize and support the following student events:

- “Imagine” – the university-wide orientation session held on the first day of classes;
- Forestry Week – our week to showcase our Faculty to the rest of campus;
- Trip to Jasper, Alberta for the Canadian Institute of Forestry (CIF) 102nd annual conference, including the nationwide Forestry Student Quiz Bowl competition – three UBC teams competed but despite valiant efforts, were out-competed by the University of Alberta;
- Dean's Welcome Back BBQ, a well-attended annual function
- CIF Chili Cookoff – complete with “just for fun” Quiz Bowl competition;
- International Food Extravaganza, a sampling of student-prepared dishes from the world over;
- CIF Silver Ring Ceremony, our magnificent graduation celebration held each spring;
- “Coconut” – the legendary year-end event, held again this year at the UBC Farm.

PLANS FOR 2011 – 12

- Take a Forestry Quiz Bowl team to Huntsville, Ontario for the 103rd CIF Conference and AGM, where they will compete against college and university forestry teams from across Canada and bring back the Quiz Bowl trophy to UBC!
- Find ways to improve and streamline Student Services activities to maximize recruitment and the overall student academic experience.
- Continue to enhance the reputation of the Faculty of Forestry and increase awareness of our undergraduate programs, both on campus and beyond.
- After over seven years with UBC Forestry, Candace Parsons, our Director of Student Services, will be taking a one year Leave of Absence from July 1, 2011 to June 30, 2012. Chiara Longhi will be stepping into her role, Yuko Lee will be taking over for Chiara, and we will welcome a new Student Services Assistant (Ana Curcin) in May 2011.

Enrolment Statistics

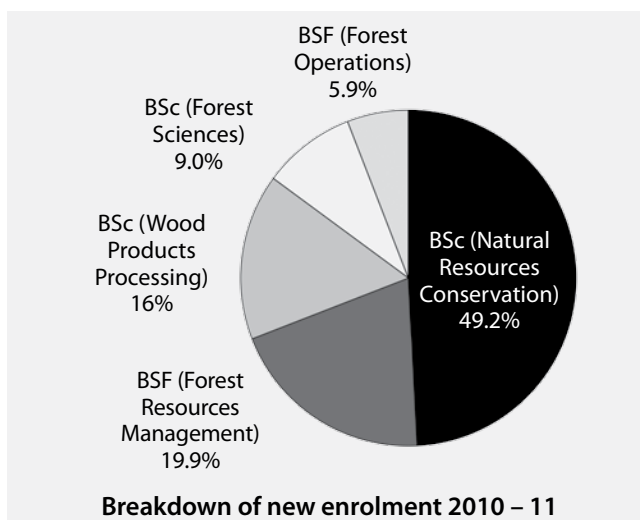
New Student Enrolment

New student enrolment this year was 236, up by over 14%. Our admission GPA for students entering directly from secondary school remained the same as last year: 78% for the Forest Sciences and Natural Resources Conservation programs and 75% for Wood Products Processing and BSF Forest Resources Management and Forest Operations majors.

New students entering into different program years are tabulated below.

New students 2010 – 11

Year of study	Number of new students entering
1	203
2	25
3	7
4	1
Total	236

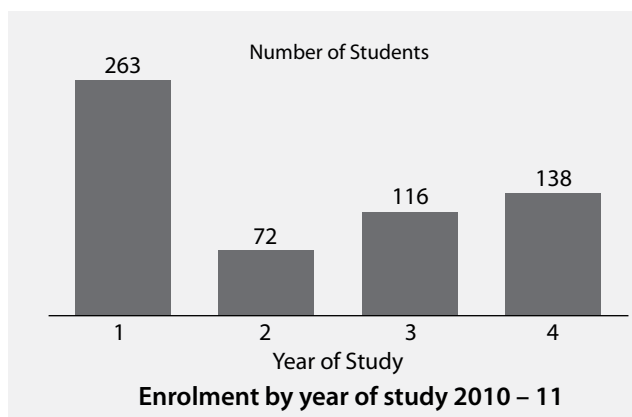
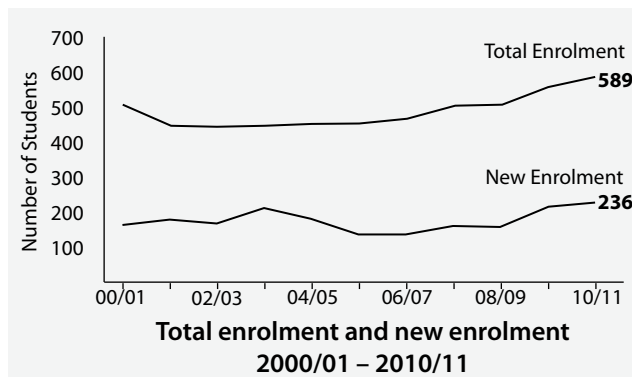


Total Enrolment

Total undergraduate enrolment grew to 589, an increase of 32 students over the previous year. This increase is a consequence of the higher secondary school entrance standards we have adopted in the past few years, which have resulted in higher retention rates (fewer failures) as well as a larger new student intake. We remain an attractive location for undergraduate visiting and exchange students from elsewhere in Canada and the world. This year we hosted 14 visiting and exchange students. In addition to visiting and exchange student enrolment, the number of international students enrolled in our degree programs continues to increase. This year we had 102 international students, up from 90 the previous year. We remain second in the university to the Sauder School of Business in terms of the proportion of international students in our undergraduate programs. The primary sources of our growing number of international students are the United States and China. The Faculty of Forestry

has partnership arrangements with Nanjing Forestry University and Fujian Agriculture and Forestry University and memoranda of understanding with several other Chinese universities which have helped us with attracting suitably qualified students.

The percentage of female students in our undergraduate programs is 42.4%, up about two percent over the previous year. This percentage varies considerably among our programs, from about 60% for the Natural Resources Conservation program to about 13% for the Wood Products Processing program.



Enrolment by program 2010 – 11

	Number enrolled	% of total
Forest Resources Management (BSF)	117	19.9
Forest Operations (BSF)	35	5.9
Forest Sciences (BSc)	53	9.0
Wood Products Processing (BSc)	94	16.0
Natural Resources Conservation (BSc)	290	49.2

Awards

First Year Students

Eddy, Ian Murray Sember	ABCFP ³
Feischl, Caroline Lauren	WOOD
Jackman, Thomas Robert	TRUCK ¹
Lloyd, Fraser Emerson	TRUCK ¹
MacKay, Benjamin	KETCHAM
Powell, Evan Hunter	TRUCK ¹
Sanchez, Olivia	MAC ¹ , SIDDOO ²
Sheppard, Julie Marika	ALUMNI ²
Tench, Hannah Mei	DEAN
Trommel, Steven Jeffrey	CS JOHNSON

Second Year Students

Burns, Janice	SPLAN, CARIBOO
Da Ros, Letitia	NORTHWOOD
Langley, Benjamin	TRUCK ²
Lam, Trueman	MAC ¹ , WELDWOOD, WEST
Leclerc, Marc-Antoine François	BURCH
Marciniak, Amberly Rae	WEST
Storey, Cassandra Selby	GOLOUBEF
Trieu, Hong Diem	BANKS
Yuan, Qiao Si	DEAN

Third Year Students

Albrecher, Stefan	SPLAN
Beaudoin Nadeau, Martin	WEST, WORRALL
Bissell, Charles David	WOOD, CANADIAN
Fegyverneki, James	SPLAN
Field, Samuel Patrick Lennon	TRUCK ²
Gierc, Braden	WOOD
Gleasure, Elizabeth Anne	WELDWOOD

ABCFP Scholarship in Forestry¹, Graduating Prize in Forestry², UBC-O Award³

UBC Forestry **ALUMNI** Division Scholarship¹ and Entrance Scholarship²

BACKMAN Scholarship in Forest Resources Management

Charles and Jane **BANKS** Scholarship

John E **BIER** Memorial Prize in Forest Pathology

Emily and Francis **BINKLEY** Scholarship

Gerry **BURCH** Scholarship in Forest Sciences

CANADIAN Woodworking Machinery Distributors Association Prize

CARIBOO Woodlot Education Society Scholarship in Forestry

Hugh RD **CHISHOLM** Scholarship in Forestry

Canadian Institute of Forestry (**CIF**) Medal

Robert J **CRAIG** Memorial Scholarship

August and Cristina **CRUCIL** Scholarship in Forestry

Charlie and Sue **JOHNSON** Forestry Entrance Scholarship

DEAN of Forestry Scholarship

Elizabeth **BACKMAN** Scholarship in Natural Resources Conservation

Galt **ELKINGTON** Memorial Scholarship

Grills, Chantelle	MAC ¹ , STEINER
Hiebert, Matthias	WOOD, CANADIAN
Lambke, Kristen Nicole	BINKLEY, DEAN
Nethercut-Wells, Acacia Rae	WEST, ABCFP ¹
Niddrie, Nicholas	WEST
Parhar, Ravi	MACHINERY, WOOD
Rickbeil, Greg James	DEAN
Ristic, Milica	McINTOSH ¹
Schlenker, Nora	MAC ¹ , DEAN
Shearer, Mark Daniel	LITTLE, SPLAN
Katamay-Smith, Tanya	ROLLER
Wahn, Eric	SMITH
Xie, Shenghao	WOOD
Zustovic, Matthew	McINTOSH ² , RE MILLS

Fourth Year Students

Boulton, Chris	SODERMAN, ALUMNI ¹ , BACKMAN, SPLAN
Burke, Christopher Neville	ENGLISH
Buschhaus, Catherine Tobi Elizabeth	HADDOCK
Chalmers, Eric Cameron	SPLAN
Chiu, Tse-Lun Stephen	WOOD
Fraser, Stephen James	SPLAN
Guo, Xuan	CRUCIL
Hodgins, Jesse Kenichi	GRADUATING
Hole, Blair Edwin	WOOD
Huntley, Matthew Daniel	BANKS, SODERMAN
Iskandar, Andre Mahajaya	WOOD
James, Samantha Elizabeth	SOPRON
Kofoed, Michael James	SIDDOO ¹
Lawrence, Michael	BANKS, JOHNSON,

Barry **ENGLISH** Memorial Prize

FORED BC Society Ken Haley Memorial Prize

Joseph & Joyce **GARDNER** Scholarship in Forestry

Peter Andrew **GOLOUBEF** Scholarship in Forestry

GRADUATING Class of Forestry 1957 Prize

Phil **HADDOCK** Prize in Silviculture

Harry **HOBSON** Memorial Prize

Ted **JOHNSON** Scholarship in Forestry

Bart van der **KAMP** Prize in Forestry

Janet **KETCHAM** Scholarship

Malcolm **KNAPP** Spring Camp Prize

Tony **KOZAK** Scholarship in Forest Measurement

Charles **LARRE** Memorial Graduating Prize

David Bell **LITTLE** Memorial Scholarship

Independent **LUMBER** Remanufacturers Association Scholarship in Wood Products

MACHINERY and Supply Companies Group Forestry Scholarship

H R **MACMILLAN** Prizes in Forestry¹, Forest Harvesting², Scholarship in Forestry³

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

James Russell **MILLS** Memorial Award

NORTHWOOD Pulp and Timber Limited Scholarship

Lee, Charles	GARDNER
Loewen, Katherine Rebecca	WOOD, LUMBER
Lu, Cynthia Fane	BANKS
Matthies, Brent David	MAC ¹
Mellstrom, Charlotte	BANKS
	SPLAN,
	WELDWOOD, KOZAK, BIER
Ng, Tracy Wen Hun	BANKS
Pokorny, Stanley Wolf	SPLAN
Pu, Ting	BACKMAN, CRAIG, SPLAN
Russell, Kelsey Linnaea Mchale	
	SODERMAN
Sakamoto, Janelle Mary Aiko	SPLAN
Scott, Brian Martin	BANKS, MILLS
Smith, Jason Anthony	KAMP
Spence, Andrew Martin	KNAPP,
	O'FARRELL
Strimbu, Vlad Codrut	SPLAN, SISCO,
	ELKINGTON
Tan, Rynehvee	BANKS, WELLWOOD
Ukpabi, Houston Eke Willis	WOOD,
	LUMBER
Wildeman, Jesse Michael	SPLAN
Yu, Joe	CRUCIL

Graduating Awards

(Spring 2010)

Bemmels, Jordan Brian	MAC ¹ , ABCFP ²
Coleman, Richard Andrew	LARRE
Demille, Gregory John	MAC ²
Spence, Andrew Martin	HOBSON,
	ABCFP ²
Swift, Natalie Amelia	CIF

Tyler **O'FARRELL** Memorial Prize in Sustainable Forest Management

Robert **E MILLS** Memorial Award

KJ **ROLLER** Sopron Scholarship in Forestry

Kapoor Singh **SIDDOO** Scholarships in Forestry¹ and Forest Ecology²

Dave White **SISCO** Memorial Award in Forestry

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

Oscar **SODERMAN** Memorial Scholarship

SOPRON Alumni Scholarship

William John **SPLAN** Scholarship in Forestry

Paul Robert **STEINER** Memorial Scholarship in Wood Science

TRUCK Loggers Association Scholarship¹ and Scholarship in Harvesting²

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 Forestry¹, Award in Forestry² and Aboriginal Award in Forestry³

University of BC **WOOD** Products Processing Awards

John **WORRALL** "Tree Enthusiast" Prize

Graduation Statistics

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.

British Columbia KILN Association

Bursary in Forestry

Canfor Corporation Bursary

Coastal Silviculture Committee Bursary

Doris M Dowling Memorial Bursary

EG & WD Touzeau Bursary

Eurocan Pulp & Paper Co Bursary

Gerry and Jack Burch Bursary

Henri J Pigeon Bursary in Wood Science
and Industry

Herschel H Boydston, Jr Memorial
Bursary in Forestry

Ian T Cameron Memorial Bursary

JD Hetherington Memorial Bursary

Jeanette Lindsay Memorial Bursary

John Worrall Alumni Bursary in Forestry

Norris-Mebius Bursary

Oscar Soderman Memorial Bursary

Oscar Sziklai Memorial Bursary in
Forestry

PL Northcott Memorial Bursary

Tommy Burgess Memorial Forestry
Bursary

Tudor Ommaney Memorial Bursary in
Forestry

Vinten Fund Forestry Bursary

DEGREES CONFERRED, MAY 2010 AND NOVEMBER 2010 CONGREGATIONS

BSc (Natural Resources Conservation, Global Perspectives Major)

Cheung, Angus Yan Man

Cheung, Cheuk Wayne

Chow, Amanda

Cobo, Roberto

DiBona, Matthew

Feinstein, Asa

Fischer, Samantha

Forsman, Shannon

Galenza, Dustin

Heiberg-Harrison, Alexandra

Janeway, Katie

Massa, Christopher

Miners, Melissa

Myrans, Elyse

Swift, Natalie

Yeung, Chris Pui Hang

BSc (Natural Resources Conservation, Science and Management Major)

Bichel, Patricia

Carney, Rad

Chan-Ying, Doreen

Co, Ralph

Connolly, April

Crombie, Merle

Driedger, Erika

Guy, Brendan

Harrison, Sophia

Hebert, Allison

Herring, Lindsay

Hiraga, Eri

Jablkowski, Patrick

Lievesley, Megan

Lim, Jennifer Sun Young

Lukic-Kegel, Amelia

McGinty, Bonnie

McKay, Ariana

Mortell, Michael

Nelson, Dean

Piwek, Jeffrey

Radatzke, Kristin

Senda, Teio

Thompson, Claire

Thomson-Toth, Chelsey

Tian, Ning Barry

Vogt, Eric

Won, Chia-Yun Mimi

Wong, Simon Man Pok

Young, Emily

BSc (Wood Products Processing)

Blom, Garrett

Borslein, Daniel

Cheng, Kenneth

Coleman, Richman

Crabbe, Patrick

Hart, Foster

Hsieh, David Min-Han

Hu, Miao

Jervis, Harlan

Lauryzen, Michael

Liao, Peiwen

Ng, Jeffrey Kwun Hung

Opacic, Luke

Seo, Peter

Sills, Nicholas

Utama, Stefanus

BSc (Forest Sciences)

Bemmels, Jordan

Buschhaus, Catherine

Morton, Renee

Quamme, Linda

Russell, Ryan

Tchir, Amy

Toon, Sandra

Vickers, Brian

Wilson, Rebecca

BSF (Forest Operations)

Demille, Gregory

Hromadnik, Kristi

Kirk, Melissa

BSF (Forest Resources Management)

Augustine, Carmen

Cancino, Karen

Capitulo, Felix

Chen, Ching-I Sherry

Chiang, Amity Yen Ju

Dolejsi, Douglas

Doyon, Erika

Hsu, Tian-En

Irvine, Shannon

Mckenzie, Heather

Molander, Mariko

Schonnop, Marcus

Smith, Jason

Spence, Andrew

Thy, Emilie

Wilson, Mitchell

Wylie, Karen

Yeung, Dorothy

Enrolment Statistics



Cindy Prescott
BSc (Hons), MSc, PhD
Associate Dean
Graduate Studies &
Research
604.822.4701
cindy.prescott@ubc.ca

Gayle Kosh
Dip T
Manager, Graduate
Programs
604.827.4454
gayle.kosh@ubc.ca

Dan Naidu
Coordinator, Graduate
Awards and Scholarships
604.822.6177
dan.naidu@ubc.ca

Erika Helmersen
Assistant, Graduate
Programs
604.822.6784
erika.helmerson@ubc.ca

THE FACULTY OF FORESTRY offers four graduate degrees:

- Doctor of Philosophy – PhD (in Forestry)
- Master of Science – MSc (in Forestry)
- Master of Applied Science – MASc (in Forestry)
- Master of Forestry – MF

Enrolment and Graduation Trends

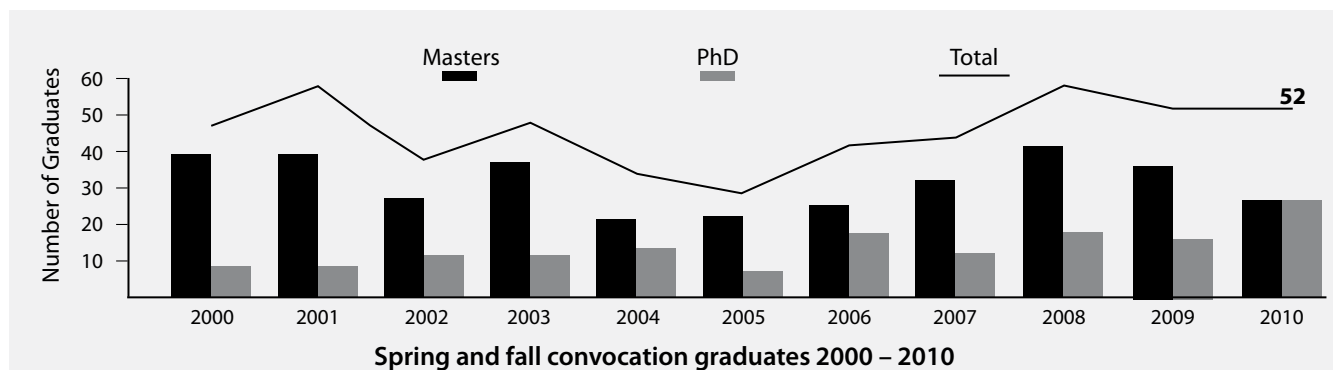
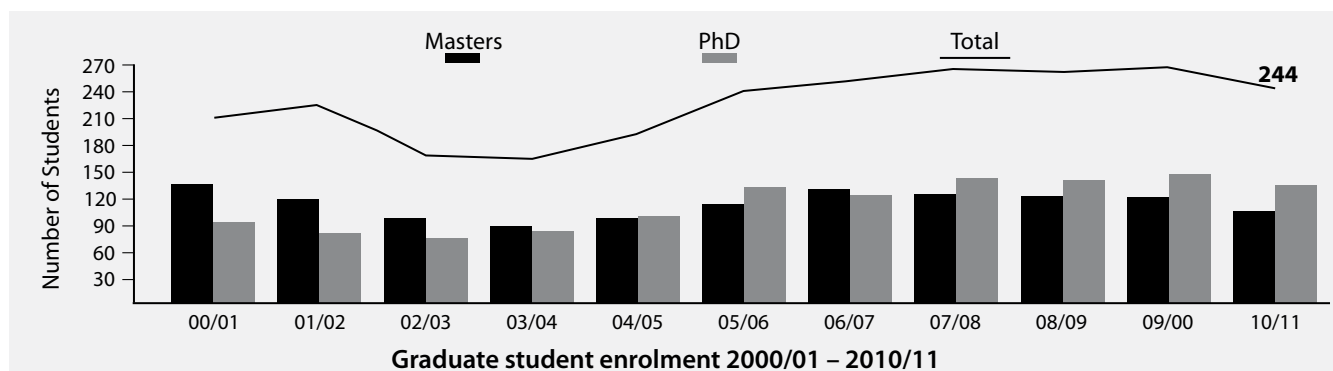
The Forestry Graduate Program had 244 registered students this past year, with 56% enrolled in PhD programs. Women comprised 53% of our master's and 37% of our doctoral students. We welcomed 18 new PhD students and 22 new master's students in 2010/11.

The average graduate student complement of supervising faculty members is 5. Fifty-two students successfully completed their graduate programs last year, 26 with master's degrees and 26 with PhD degrees. Average time-in-program of students finishing their programs in 2010 was 2.6 years for research-based master's, 2 years for course-based master's and 5.6 years for doctoral students.

Distribution of students by degree program 2010 – 11*

	Male	Female	Total
PhD	86	51	137
MSc	37	44	81
MASc	4	3	7
MF	9	10	19
Total	136	108	244

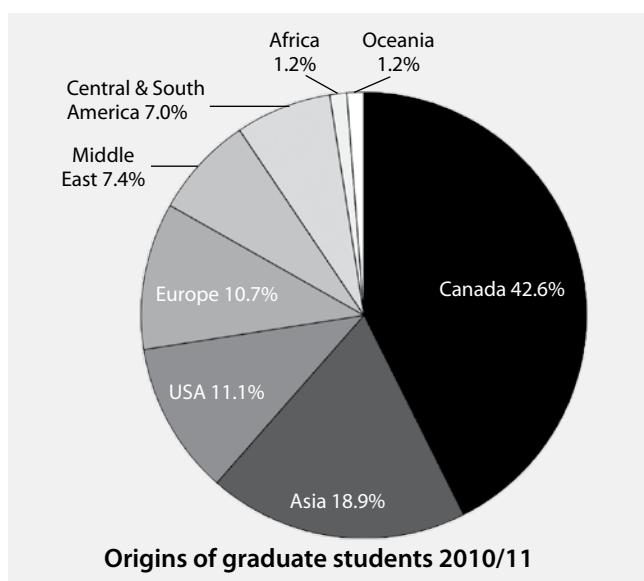
*As of October, 2010



Achievements and Plans

The Forestry Graduate Program – An International Community

The Faculty of Forestry continues to attract excellent graduate students from around the world. Fifty-seven percent of our graduate students are from countries other than Canada – we have students from 39 different countries – continuing to make Forestry one of the most culturally diverse graduate programs on campus. Each year we link incoming international students with a current student from the same country or region, to ease their transition to UBC and Vancouver. In 2010/11, 13 current students served as “buddies” for incoming students from Chile, China, Iran, Japan and Romania. The FGSA hosted the third annual Global Tea House talk series with presentations by students from Austria, Canada, China Guatemala, Palestine and Panama about the forests and culture in their native countries.



ACTIVITIES AND ACHIEVEMENTS IN 2010 – 11

Jennifer Burt (MSc, Hinch) received the Graduate Teaching Assistant Award. Scott Diguistini (PhD, Breuil) received the Best PhD Thesis Award and Ana Elia Ramon Hidalgo (MSc, Harshaw/Sheppard) received the Best Master's Thesis Award.

The Forestry Graduate Student Association (FGSA) once again had an excellent executive council this year and played a key role in helping us provide a sense of community for our graduate students. The FGSA organized our key annual social events, the wine and cheese evening in the fall, as well as the much-anticipated musical 'coffee house' in February. Special monthly socials included a “Bake and Skate” holiday party at the Thunderbird Ice Rink, a Beer Tasting and Trivia evening, a Chinese New Year lunch celebration, an Irish Ceilidh, and International Food Night. The FGSA were active in a number of other areas this year, including the development of a new student website and Facebook page, the creation of an International Coordinator position in the FGSA executive and renewed membership in the International Forestry Student Association. The FGSA became sustainability leaders on campus with the launch of a “Zero Waste Events” initiative. The FGSA executive and representatives were Tim Philpott, Dave Pérez, Matt Boyes, Andrea Rivers, Allyson Clark, Colin Ferster,

Suzi Malan, Ana Elia Ramon Hidalgo, Richard Schuster, Gwen Huber, Victor Nery, Jonathan Haase, Phil Grace, Ella Furness, Jeff Stephens, Jean-Michel Beaudoin, and Trevor Jones.

Thirty students presented their research at the Faculty's Research Poster Evening and awards for outstanding posters were presented to Jean-Simon Michaud (Coops), Nuwan Sella Kapu (Saddler) and Richard Hewitt (Sowlati). Our students also participated in the first annual UBC “Three Minute Thesis” (3MT) competition, with the Forestry graduate program heat attracting 14 competitors. Congratulations to the finalists who will represent Forestry in the UBC 3MT semi-finals: Carolina Chanis (Saddler), Chunling Liu (Evans) and Colin Ferster (Coops). The 3MT presentations can be viewed on the Faculty YouTube page (www.youtube.com/user/UBCForestry#g/u).

In August, graduate students from the Faculty of Forestry organized a sub-plenary session at the 23rd IUFRO World Congress in Seoul, Korea. As far as we know, this was the first time that a sub-plenary session at a IUFRO World Congress had all female presenters, was dominated by graduate students and had all of its presenters from a single institution. Their session reflected on the Faculty of Forestry: the diversity and quality of our graduate students and post-doctoral associates, the reputation of the Faculty of Forestry globally, and the recognition of the relevance of our research to global issues.

UBC Forestry graduate students were active leaders and participants again this year in CONFOR West, an annual conference organized by graduate students for graduate students studying forestry and environmental sciences.

Dr Phil Evans offered a 12-workshop series on advanced scientific writing for graduate students and postdoctoral fellows. Our graduate students also continue to benefit from graduate skills-training courses in oral presentation and technical writing offered by Dr Susan Watts. Faculty of Forestry Research Seminars were presented by faculty members Peter Arcese, John Kadla, Cindy Prescott, Stephen Sheppard and Taraneh Sowlati.

Our excellent graduate program staff continue to provide multi-faceted service to both prospective and current grad students and their supervisors. An exciting initiative undertaken by our Graduate Program staff this year was a series of digital video interviews with recently completed students who share their thoughts on their experience as graduate students at UBC Forestry. The videos can be seen on both our web site (www.forestry.ubc.ca/Students/Graduate/Profiles/tabid/4799/Default.aspx) as well as the Forestry YouTube page. Graduate Program staff also launched a new database system this year to track applications from prospective students and academic progress of current students. We also updated our database of former students so that we can keep track of our alumni. Staff also created an electronic file system for student records to reduce our reliance on paper files. Finally, we recently welcomed a new graduate Admissions Coordinator to the team, Ms Robin Poirier-Vasic.

PLANS FOR 2011 – 12

- Complete development of two new course-based master's degree programs for launch in 2012.
- Participate in the newly approved TRANSFOR-M dual degree master's program with Canadian and European university partners.

www.forestry.ubc.ca/programs/grad

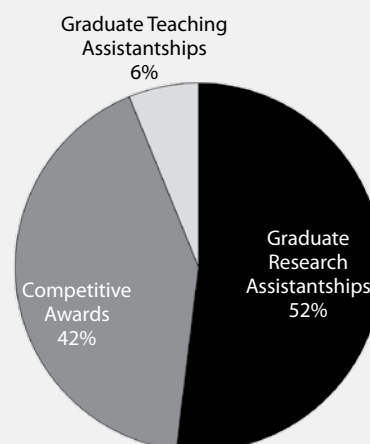
Scholarships and Fellowships

Graduate Student Funding 2010 – 11

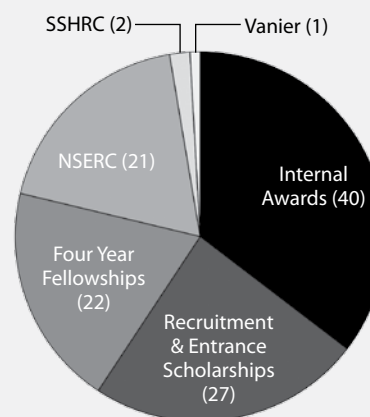
Adequate funding of our graduate students is a priority in the Faculty of Forestry. More than \$3.6 million was invested in graduate student stipends in 10/11. The average annual stipend for doctoral students (during the first four years of their program) was just over \$19,000; for research-based master's students (during the first two years of their program) it was just over \$15,000. Graduate research assistantships (\$1,897,539) are the primary source of student stipends, especially for master's students, while graduate teaching assistantships contribute about 6% of our student funding (\$225,610). Competitive awards (not including tuition awards) contribute about three-quarters of doctoral student stipends and about one-quarter of master's student stipends (\$1,530,805).

Twenty-three Forestry graduate students received Tri-Council (NSERC and SSHRC) scholarships. Tri-council scholarships accounted for 35% of the \$1.5 million received by our graduate students in competitive awards in 10/11. Lee Kalcsits won a 3-year Vanier Canada Graduate Scholarship valued at \$50,000 per year. The Faculty of Forestry allocation of 5 FYF-GESs were awarded to incoming doctoral students Ryan Germain, Rebecca Klady, Fattane Nadimi, Ana Elia Ramon Hidalgo, and Solace Sambrew. FYF designations are given to students who win Tri-Council scholarships and students who were awarded UGF in 2009/10 transitional year. Faculty of Forestry Strategic Recruitment Fellowships (SRF) were awarded to an additional 15 incoming MSc and PhD students. The SRF program is funded through the Graduate Student Initiative program at UBC. A total of 44 Forestry graduate students received University Awards (FYF-GES, FYF, SRF or Affiliated Fellowships) worth \$452,575, which accounted for 29% of the total received in competitive awards.

Endowed, merit-based, Faculty of Forestry awards continue to be a vital resource for our graduate students; in 10/11 40 students received part of their stipend from these internal awards, despite the downturn in endowment values. One-time gifts through Mary and David Macaree Fellowship and Kathleen and Sheldon Rothwell Fund were awarded to 28 MSc and PhD students. Louise Blight holds the Graduate Fellowship in Sustainable Forestry, sponsored by the Koerner Foundation.



All graduate sources of funds 2010/11



Competitive awards (\$1,530,805) 2010/11

Scholarships and Fellowships

Doctoral Students

Abdollahzadeh, Negar	SRF
Abreham, Yonas	SRF
Ahmed, Suborna	MACAREE, VANDUSEN
Atwood, Trisha	FYF-GES
Beaudoin, Jean-Mitchel	SSHRC
Bedelean, Bogdan	WELWOOD, COCHRAN, CHISHOLM, ROTHWELL
Blight, Louise	KOERNER
	Graduate Fellowship in Sustainable Forestry
Bull, Justin	LUMBER, MCPHEE, MACAREE
Chamberlain, Brent	NSERC, FYF
Chen, Baozhang	NSERC, MSFSS
Chen, Juan	MACAREE
Churchland, Carolyn	NSERC
Coggins, Samuel	FYF
Curtis-McLane, Sierra	FYF
De La Torre Cuba, Amanda	FYF
Del Rio, Luis	FYF
Devi, Shalima	FYF-GES
DeWaard, Jeremy	FYF, MACAREE, WRIGHT
DiGuistini, Scott	Faculty of Forestry Best Dissertation
Donaldson, Michael	SRF, NSERC
Drenner, Matthew	FYF-GES
Ebadian, Mamood	FYF
Eddington, Margaret	SRF
Ferster, Colin	AFFILIATED
Funda, Tomas	FYF
Germain, Ryan	FYF-GES
Gourlay, Keith	FYF-GES
Guichon, Shannon	BASSETT
Haghdan, Shayesteh	SRF
Hajjar, Reem	FYF, MCPHEE
Hamilton, Jill	NSERC, FYF, SRF
Hember, Robbie	NSERC
Hilsendager, Kyle	SRF
Hu, Jinguang	CSC
Huang, Yu	CSC, MACAREE, SRF
Ibarra, Tomas	CONICYT
Jack, David	BUCKLAND, SMITH, MACAREE
Jeffries, Kenneth	FYF
Jones, Trevor	FYF
Kalcsits, Lee	VANIER
Klady, Rebecca	FYF-GES
Korehei, Reza	MCPHEE
Levy-Booth, David	NSERC, FYF-GES
Li, Yu	VANDUSEN
Lim, Sang Seop	MACAREE
Man, Cosmin	SRF
Massoumi-Alamouti, Sepideh	FYF
Mcguigan, Erin	FYF
Mobini Dehkordi, Mohammad Mahd	FYF
Nadimi, Fattane	FYF-GES
Norris, Andrea	FYF
Oaten, Dustin	FYF, NSERC
Paudel, Shyam	FYF, NSERC

Pittl, Elisabeth	IMAJO
Powers, Ryan	SRF
Ramon Hidalgo, Ana Elia	FYF-GES, Faculty of Forestry Best Poster, Faculty of Forestry Best Master's Thesis Award
Rathbun, Leah	MACAREE
Read, Wolf	CANFOR, MACAREE
Ristea, Catalin	PICS
Sam-Brew, Solace	FYF-GES
Singh, Monika	NAMKOONG, IDRC
Sopinka, Natalie	FYF, NSERC
Stephen, James	FYF, NSERC
Tooke, Rory	FYF, NSERC
Tsai, Ying-Li	MCPHEE
Twieg, Brendan	NSERC
Varhola, Andres	FYF, NSERC
Waeber, Patrick	MCPHEE
Xi, Li	CSC
Xu, Lianzhen	CSC

Master's Students

Arias, Jose	CONICYT
Baker, Kahlil	SSHRC
Bird, Laura	MCPHEE, MACAREE
Buffo, Mike	MCPHEE
Burt, Jennifer	MACAREE, KILLAM Graduate Teaching Assistant Award
Clarke, Allyson	MCPHEE
Edworthy, Amanda	HOFFMEISTER, MCPHEE, MACAREE
Essak, Martha	NSERC, SRF
Fundova, Irena	ALLEN, MACAREE
Gale, Marika	MACAREE, ROTHWELL
Gates, Jodie	MCPHEE
Grace, Philip	MAP
Haase, Jonathan	RIX
Hryniewicz-Moczulski, Magdalena	HELLER
Jackson, Cheyney	NSERC, SRF
Kess, Tony	MACAREE, ROTHWELL, VANDUSEN
Klemmer, Amanda	MACAREE, ROTHWELL
Little, Patrick	NSERC, PICS
Lobo, Nina	MACAREE
MacDonald, Elizabeth	AFFILIATED, NSERC, MACAREE
Marcoux, Helene	FMIBC, GRAHAM, MACAREE
Nadeau, Simon	NSERC, SRF
Nery, Victor	NSERC IPS
Perez, David	HANSON, MACAREE, VANDUSEN
Philpott, Timothy	MACAREE, MCPHEE, SRF, WEBER,
Rivers, Andrea	AFFLECK, MACAREE
Robertson, Adam	MCPHEE
Robinson, Kendra	NSERC, SRF
Ryan, Natalie	MCPHEE
Switzer, Joshua	MCPHEE, VANDUSEN
Tomaselli, Maria	MACAREE, OAS
Tomscha, Stephanie	SRF
Vollmer, Stephan	RIX
Whitney, Charlotte	NSERC
Yoshida, Tomoko	MCPHEE

Scholarships and Fellowships

AFFILIATED Fellowships

Peter N **AFFLECK** Memorial Graduate Scholarship in Forest Policy

George S **ALLEN** Memorial Scholarship

Edward W **BASSETT** Memorial Scholarship in Reforestation

Don **BUCKLAND** Memorial Scholarship in Forest Pathology

CANFOR Corporation Fellowship in Forest Ecosystem Management

China **Scholarship Council**

Hugh Robert Duncan **CHISHOLM** Scholarship in Forestry

Ralph and Elizabeth **COCHRAN** Scholarship

CONICYT National Commission for Scientific and Technological Research

Forest **Management Institute of British Columbia**

Four Year Fellowship

Four Year Fellowship – Graduate Entrance Scholarship

Kenneth **GRAHAM** Memorial Scholarship

Brenda **HANSON** Memorial Scholarship in Forestry

Paul **HELLER** Fellowship

Bert **HOFFMEISTER** Scholarship in Forest Wildlife

International **Doctoral Research Centre Awards**

IMAJO Cedar Management Fund

KILLAM Graduate Teaching Assistant Award

KOERNER Foundation

LUMBER Inspector's Benevolent Society Scholarship

Mary and David **MACAREE** Fellowship

Donald S **MCPHEE** Fellowships

Michael Smith Foreign Study Supplement

Mitacs Accelerate Program

NAMKOONG Family Fellowship in Forest Sciences

Natural Sciences and Engineering Research Council of Canada

NSERC Industrial Postgraduate Scholarships

Organization of American States Scholarships

Pacific Institute for Climate Solutions

RIX Family Leading Edge Student Awards

Kathleen and Sheldon **ROTHWELL** Fund

J Harry G **SMITH** Scholarship in Forest Resources Management

Strategic Recruitment Fellowship

Social Science and Humanities Research Council of Canada

VANDUSEN Graduate Fellowships in Forestry

VANIER Canada Graduate Scholarship

Adrian **WEBER** Memorial Scholarship in Forest Ecology

WELDWOOD of Canada Limited Scholarship in Forestry

WRIGHT Fellowship in Forestry

DEGREES CONFERRED, MAY 2010 AND NOVEMBER 2010 CONGREGATIONS

MASc

BLAIR, Timothy*Dr Y Alila*

Stage discharge estimation using a 1D river hydraulic model and spatially-variable roughness.

MF

AVILA VELASCO, Ana*Dr H Nelson (essay)*

Keeping current forest management or use community forestry with indigenous and local communities' knowledge to improve forests and human well-being.

BONUCELLI, Marco*Dr T Sullivan (essay)*

The contribution of agroforestry to food security.

GIBSON, Christine*Dr J Innes (essay)*

Biodiversity conservation and livelihoods in rural tropical human-modified landscape mosaics: An integrated landscape approach.

LANE, Oliver*Dr M Meitner (essay)*

Integrating climate change and sustainable development: The role of participatory scenario planning.

LYNE, Margot*Dr H Nelson (essay)*

Forest management in a global climate: A comparative analysis of large and small scale operations.

MACDONALD, Ian*Dr B Larson (essay)*

The use of plethodontid salamanders as bio-indicators of forest health across different land-use practices.

MVUNDURA, Floyd(Hati)*Dr H Harshaw (essay)*

Preserving the communal area management program for indigenous resources (CAMPFIRE) in Zimbabwe through the church.

SEDLACEK, Klara*Dr R Trosper (essay)*

Clayoquot Sound UNESCO biosphere reserve: The path to sustainability?

WALKER, Jenna*Dr P McFarlane (essay)*

The fate and transport of creosote constituents in a subsurface environment: A hypothetical case scenario.

MSc

ABUBAKARI, Alhassan*Dr S Avramidis*

Radio frequency heating pre-treatment of sub-alpine fir to improve kiln drying.

ADAMS, Seth*Drs S Grayston and C Prescott*

Enzyme activities and nitrogen transformations following fertilization of a Douglas-fir forest in coastal British Columbia.

ASADIAN, Yeganeh*Drs M Weiler and RD Moore*

Rainfall interception in an urban environment.

BARCHET, Genoa*Dr S Mansfield*

Effects of drought stress on metabolite profiles of hybrid and pure lines of *Populus* spp.

GERZON, Michael*Drs JP Kimmins and B Seely*

Modelling the recovery of old-growth attributes in coastal western hemlock forests following management and natural disturbance.

KEHBILA, Atenkeng Taku (Viola)*Dr P McFarlane*

Evaluation of primary wood processing residues for bioenergy in British Columbia.

KHAN, Amer*Drs S Grayston and C Prescott*

Nitrous oxide emissions, nutrient dynamics and nitrifier communities following fertilization of western hemlock, lodgepole pine and Douglas-fir forests.

LIU, Michael*Dr J Saddler*

Fermentation of hemicellulose rich liquid fractions derived from steam-pretreated softwoods.

NOLL, Florian*Dr K Lyons*

New methods for manually falling trees using hydraulically powered flange spreaders.

QIN, Wenjuan*Dr J Saddler*

High consistency enzymatic hydrolysis of lignocellulose.

Degrees Granted

RAMON HIDALGO, Ana Elia

Drs H Harshaw and S Sheppard

Outdoor recreation conflict on trails in Squamish, British Columbia: An examination of theoretical models and management.

SAM-BREW, Solace

Dr G Smith

The development of hollow core composite panels for value added applications.

SHELDON, Kim

Dr J Richardson

Season-specific survival and growth rates of coastal cutthroat trout across a gradient of stream sizes in southern British Columbia.

SHEN, Juecui (Joyce)

Dr S Grayston

Microbial communities and enzyme activities related to C and N cycling in fertilized and unfertilized forests.

SOVEREL, Nicholas

Dr NC Coops

Validating burn severity classifications using Landsat imagery across Western Canadian National Parks.

YOU, Shijun

Dr J Innes

Improvement of China's air pollution (sulphur dioxide and acid rain) control and countermeasures by introducing emissions trading system.

PhD

ALEXIADIS, Pavlos

Dr D Cohen

Factors affecting environmental behaviour of house inhabitants in Canada.

BROOKS, Denise

Dr S Grayston

Fungal and bacterial contributions to hyphosphere enzyme activity.

CAMPBELL, Jocelyn

Dr C Prescott

Relationships between cyanolichen communities and nutrient cycling in sub-boreal spruce forests.

COCKLE, Kristina

Dr K Martin

Cavity-nesting birds in a neotropical forest: Nest webs and nest-site limitation.

DESLIPPE, Julie

Dr S Simard

Carbon, plant and microbial community dynamics in low-arctic tundra.

DIGUISTINI, William (Scott)

Dr C Breuil

Creating a genomic resource for a non-model organism: An investigation into the physiological and chemical interactions between a mountain pine beetle fungal associate, *Grosmannia clavigera*, and lodgepole metabolites involved in tree defense.

FAIRHURST, Ken

Dr S Sheppard

GEOptics landscape apparency: A dynamic visual resource indicator for multi-functional landscape planning.

FARNDEN, Craig

Dr B Larson

The development of regeneration standards for sustainable forest management.

FELL, David

Drs R Kozak and D Cohen

Wood in the human environment.

GONG, Yazhen

Dr G Bull

Integrating social capital into institutional analysis of forest carbon sequestration projects in the Chinese context.

HEGDE, Ravi

Dr G Bull

Payments for ecosystem services and farm household behaviour: The case of carbon in Mozambique's agroforests.

HRUSKA, Kimberly

Dr S Hinch

Factors affecting egg retention and longevity in spawning female sockeye salmon.

ISMAIL, Mohamed

Dr Y El-Kassaby

Molecular genetic diversity among natural populations of *Populus*.

KRZYZANOWSKI, Judi

Dr J Innes

Evaluating the cumulative impacts of air pollution in northeast British Columbia.

MALONEY, Victoria

Dr S Mansfield

Function, functional conservation and interactions of the membrane-bound endo-1,4-beta-glucanase orthologous to korrigan.

Degrees Granted

PALMA, Cristian*Dr J Nelson*

Robust optimization for forest resources decision-making under uncertainty.

ROSIN, Klemens*Drs RD Moore and M Weiler*

Development, evaluation, and application of dominant runoff generation processes in hydrological modeling.

SACKEY, Emmanuel*Dr G Smith*

Development and modeling of a novel particle mixture for the core configuration of particulate wood composites.

SAJEDI, Toktam*Dr C Prescott*

The effects of excessive moisture on soil carbon and nitrogen mineralization and forest productivity.

SAKALS, Matthew*Dr J Innes*

Forest and hydrogeomorphic processes in shallow landslide initiation zones.

SPETIC, Wellington*Dr R Kozak*

Value-focused forestry in British Columbia: Competitiveness and sustainability issues in the secondary wood products industry.

TEDDER, Sinclair*Drs G Hoberg and R Trosper*

Common pool resources and state intervention: Why, when, and how.

TEKLEYOHANNES TESFAYE, Anteneh*Dr S Avramidis*

Unified and heterogeneous modeling of water vapour sorption in Douglas-fir wood with artificial neural networks.

VIDAL, Natalia*Dr R Kozak*

Diffusion, adoption, and implementation of corporate responsibility practices in the forest sector: A proposed framework.

WANG, Bing (Jasmine)*Dr F Lam*

Duration-of-load and creep effects in thick MPB strand based wood composite.

ZHOU, Cheng*Drs G Smith and C Dai*

Modelling mat consolidation of strand-based wood composites during hot pressing.



Hosny El-Lakany
BSc, MSc, PhD, DSc
Director, International
Forestry
604.822.6921
hosny.ellakany@ubc.ca



Jorma Neuvonen
MBA, MSc
Director, Special Projects
604.822.2807
jorma.neuvonen@ubc.ca



Chiara Longhi
BA, MA
Officer, International
Recruitment
604.822.9187
chiara.longhi@ubc.ca



Guangyu Wang
BS, MBA, PhD
Director, Asian Strategies
604.822.8437
guangyu.wang@ubc.ca

THE FACULTY OF FORESTRY at UBC is characterized by its large number of international undergraduate and graduate students and a range of significant international research and teaching activities. We are committed to further internationalization and better communicating our ongoing successes within UBC, our community and globally. The challenges faced by forests around the globe affect people locally and the issues facing local forests have global impacts. Our future graduates need to understand their role in the context of global forests and environmental issues. We wish to broaden global awareness of both faculty and students through cross-border experiences and exchange of knowledge through international partnerships and collaboration.

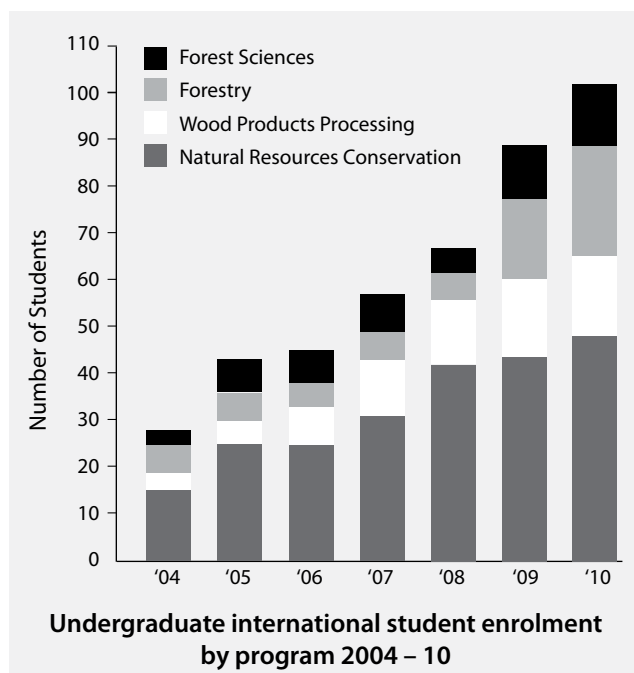
International Students and Student Exchange

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

Currently international students comprise 17% of the undergraduate student body (representing 16 countries) and 57% of all graduate students (representing 39 countries). We continue our efforts to make international students more aware of our Faculty's offerings through participation in international recruitment activities.

We provide students with opportunities for foreign experiences through our international exchange programs. Our undergraduate and graduate students can select from 167 institutions in 37 countries that share formal agreements with UBC. During the past year, 10 of our students went on exchange to The Philippines, The United Kingdom, Australia and New Zealand. We hosted 11 international exchange/visiting students from 6 different countries, including Chile, Germany, Netherlands, New Zealand, United Kingdom and United States

The Transatlantic Forestry Master dual-degree program (TRANSFOR-M) is a two-year program leading to a European and a Canadian master's degree in forestry and environmental management. Starting September 2011, 44 students – 24 from Canadian and 20 from European universities – will have an opportunity to participate in the TRANSFOR-M program and



earn a dual Canadian and European degree. TRANSFOR-M students will study modern sustainable forestry and environmental management approaches and gain multicultural perspectives on environmental, economic, and social issues. TRANSFOR-M is funded under the Transatlantic Degree Partnership (TDP) Program by the European Commission (EC) of the European Union and Human Resources and Skills Development Canada (HRSDC). This project follows from the highly successful EU- and HRSDC-funded TRANSFOR project (2005–2008) that supported student exchanges in forestry and environmental management. TRANSFOR-M is a consortium that comprises three Canadian and four European universities: University of British Columbia, University of New Brunswick, University of Alberta, Albert-Ludwigs-University (Freiburg, Germany), Bangor University (Wales), University of Eastern Finland, and the Swedish University of Agricultural Sciences

The Faculty continues to develop strong ties with Chinese forestry universities through the transfer programs in which Chinese students study for two years at home before transferring to UBC Forestry for two years to finish their undergraduate degrees. This transfer program is currently in place with 3 universities in China. In 2010, 15 students from the transfer program studied at UBC, and 25 students were registered in the UBC stream in the partnering universities. These students hope to be admitted to UBC Forestry undergraduate programs in 2011. Our faculty members are involved in teaching these students during their first two years in China through short teaching modules delivered in China and through video conference lectures from UBC. Nanjing Forestry University (NFU) has implemented curriculum changes that better reflect the equivalent programs in UBC Forestry. Nanjing Forestry University and Beijing Forestry University (BFU) have also been working with us on the Go Global programs. A four-week intensive program offered by NFU will provide a unique opportunity for students to better understand local and global forestry issues in China through various activities, including class lectures, field trips in nature reserves, visits to local industries, etc. An individual student exchange program offered by BFU with a full scholarship in China has gone very well. In 2010, as a pilot, we sent one student to China through this program. We are expecting to send two students to, and receive five students from, China in 2011.

International Partnership for Forestry Education (IPFE)

The International Partnership for Forestry Education (IPFE, www.ipfe.fi) is a global network that assists university-level forestry educators to meet society's needs. IPFE facilitates partnerships between university forestry educators and other relevant institutions to improve the quality and relevance of forestry education programs. Our Faculty has a leadership role in IPFE through Dr Hosny El-Lakany, elected Chair, and by hosting the network's secretariat jointly with the University of Eastern Finland. The Canadian Forest Service has provided financial support to help implement IPFE-related activities. Similarly, the Finnish Ministry of Education has allocated funds to the University of Eastern Finland to help with co-hosting the IPFE secretariat.

International Events and Collaboration

Faculty members participated in many international events throughout 2010 as reported elsewhere in this document. Hosny El-Lakany, Director of International Forestry, participated in several conferences and international meetings including the 18th Commonwealth Forestry Conference which was held in Edinburgh, and had a special session on forestry education. Led by John Innes, we organized an Asian Forestry section in the 23rd IUFRO World Congress in Seoul in August, 2010, partnering with the Chinese Academy of Forestry. The Chair of IPFE was also invited to make presentation on forestry education at the President's Forum of the Congress.

We hosted a number of international delegations during the year including 23 from China and several others from Asia, Europe and South America. Faculty members also hosted several visiting faculty members from around the world.

We facilitate collaboration between major international research institutions such as CIFOR and ICRAF through Hosny El-Lakany who is a board member of both organiza-

tions. The Faculty is also well represented in IUFRO and in the Commonwealth Forestry Association (Dr John Innes serves as its chair) and the Asian Pacific Network for Sustainable Forest Management and Rehabilitation.

UBC Forestry has also been actively involved in building educational collaboration between Chinese forestry universities and western universities. Together with the Chinese State Forestry Administration, the Canadian Forest Service, the Chinese Education Association of Forestry, the Association of University Forestry Schools of Canada, Beijing Forestry University, and the International Partnership for Forestry Education, we organized a symposium in May 2010 as a follow up to the Beijing 2008 Symposium. This symposium brought together senior-level administrators of Chinese and Canadian forestry education institutions, and representatives from other international organizations concerned with forestry education. The primary goal of the meeting was to discuss progress with issues and themes that were identified at the Beijing symposium. This symposium provided a forum for reporting on joint educational programs and initiatives and explored future synergies and collaborations in areas of forestry education promotion, enhancing effectiveness of regional forestry education networks, E-learning and course-based master's graduate programs.

Mid-career training for the Indian Forestry Service

We are providing top-level leaders of the Indian Forest Service with mid-career training through programs delivered jointly by the UBC Faculty of Forestry, BC Ministry of Forests, Lands and Natural Resource Operations, BC Ministry of Environment, and the Canadian Forest Service. Two groups of 30 participants were trained in the summer of 2010. Six more groups of Indian Forest Service personnel will be visiting British Columbia and UBC Forestry in 2011 and 2012. The purpose of these programs is to provide senior Indian Forest Service officers with an increased knowledge of strategic planning, policy making and governance aspects of forest management. Each program starts in India with a one-week orientation involving 60 participants. Half of this group then travels to the US and the other half to British Columbia for an intensive two-week training program. The program concludes with a final week in India where participants share their experiences in both countries. The training programs are coordinated by a consortium consisting of the UBC Faculty of Forestry, the Maxwell School of Citizenship & Public Affairs at Syracuse University in New York, the Indian Institute of Management in Bangalore and the Indira Gandhi National Forest Academy in Dehradun.

Curriculum Development

Our new International Forestry master's degree is designed for students who wish to work in the area of international forestry and land management. Graduates will be equipped with a solid foundation in forestry and land use in combination with international law and global policies addressing the environment and natural resources management. Dr Hosny El-Lakany is leading the development of this program which is scheduled to start in September 2012.

Fax: 604.822.8645
E-mail: int.progs@ubc.ca
www.forestry.ubc.ca/intprogs
www.forestry.ubc.ca/exchange



Ronald Trosper
BA, MA, PhD
Associate Professor
Aboriginal Forestry
604.822.8089
ronald.trosper@ubc.ca.



FOR MORE THAN 15 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.

In British Columbia, the need for First Nations involvement in forested land activities is 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. This eventually led to a land planning agreement. In other cases, BC courts have continued to insist that the government consult and accommodate Aboriginal rights, whether proved or likely to be proved.

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, BC Assembly of First Nations and the Union of BC Indian Chiefs agreed to work on developing the New Relationship. A New Relationship document described the BC Government's intent to establish new legislation and policy affecting First Nations rights and access to traditional territories. Implementing the policy in legislation has not occurred, however. 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, Forest and Range Opportunity Agreements, the new Forest and Range Consultation and Revenue Sharing Agreements, and other Interim Measures Agreements. Although many of the tenures are non-replaceable or have other drawbacks, progress appears to be occurring. Much remains uncertain, however, because the forest sector is in an extended economic slump, and the consequences of the mountain pine beetle infestation remain uncertain.

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 2010 – 11

- The position of manager of aboriginal initiatives remained vacant this year. Gordon Prest, formerly employed full-time, provided some recruitment activities under contract. During his "retirement" he continued to serve as co-chair of the First Nations Advisory Council. The other co-chair is Keith Atkinson.
- Dr Ronald Trosper from the Salish and Kootenai Tribes of the Flathead Reservation, Montana, began his seventh year in the Faculty and was promoted to Professor of Aboriginal Forestry. He continued to teach the graduate course FRST 522, "Indigenous Peoples and Forest Land Management," and the undergraduate course CONS 370, renamed "Aboriginal Forestry." This year he also began a new course in Community Forestry, FRST 270.
- A total of 8 undergraduate students and 1 graduate Aboriginal student were enrolled in forestry programs in 2010-2011. Three Aboriginal students will receive their bachelor's degree in forestry in 2011.
- 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 BSF degree program for block credit transfer to UBC. We continue to implement this partnership, and are looking for ways to encourage Aboriginal students to use this route to UBC.
- Dr Trosper was a co-investigator on a completed project, "A Participatory Approach to Aboriginal Tenure Reform in Canada." The Carrier-Sekani Tribal Council and Stellaquo First Nations participated in this project, which examined Aboriginal tenures and governance. This project has generated a chapter by Dr Trosper and Eddison Lee-Johnson in a book edited by David Natcher and Mark Stevenson, *Planning Co-existence: Aboriginal Issues In Forest and Land Use Planning* (CCI Press, 2010).
- Dr Trosper completed his role as the North American focal point for the Task Force on Traditional Forest Knowledge of the International Union of Forest Research Organizations. He is co-editor, with John Parrotta, of the final report of the Task Force, which is forthcoming as a book, *Traditional Forest-Related Knowledge: Sustaining Communities, Ecosystems and Biocultural Diversity* (Springer).
- In December, 2010, Dr Trosper accepted a new position as Head of the American Indian Studies Program at the University of Arizona in Tucson. He begins that position on July 1, 2011.

PLANS FOR 2011 – 12

Efforts in 2011 – 2012 begin with recruitment of a replacement for Dr Trosper's position. In addition, effort will be directed toward funding and implementing the strategic plan and the new community and Aboriginal forestry specialization in the forest resources management degree program.

The 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 mission is as follows:

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

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

First Nations Council of Advisors

Keith Atkinson	FNCOA Co-Chair, CEO BC First Nations Forestry Council
Gordon Prest	FNCOA Co-Chair, Sto:lo
Jeremy Boyd	Forestry Director Shuswap Nation Tribal Council
John Innes	Dean of Forestry, UBC
Lennard Joe	Owner-Operator, Grizzly-man Resource Management Ltd
Linc Kesler	Director, First Nations' House of Learning Professor and Head Dep't of Indigenous Studies
Bruce Larson	Professor & Head FRM, UBC
Maxine Lepine	Undergraduate Student
Andrea Lyall	Stewardship Forester Ministry of Forests Squamish District
Peter Marshall	Associate Dean of Forestry, UBC
Jim McGrath	Forester, Kamloops Indian Band
Garry Merkel	Forester, Tahltan Nations
Debbie Miller	Treaty Officer, Katzie First Nation
Lyle Mueller	Coordinator, Aboriginal Programs UBC Okanagan
David Nordquist	Forester, Adams Lake Indian Band
Angeline Nyce	Lawyer and Forester, Davis LLP, Vancouver
Darrell Robb	Director, Aboriginal Affairs Branch, Ministry of Forests & Range
Brian Robinson	Association of BC Forest Professionals
Carleigh Smart	Teacher, Coquitlam
Ivan Tallio	Forester, First Nations Forestry Council
Georgina Thomas	Extension Officer, Forrex First Nations Forestry Council
Matt Wealick	Forester and Manager Ch-ihl-kway-uhk Forestry

Faculty and Staff



INNES, John

BA, MA, PhD (Cantab), CEnv, RPF (Australia)

Dean

604.822.6761 john.innes@ubc.ca



MARSHALL, Peter

BScF, MScF (Tor), PhD (Brit Col), RPF

Associate Dean, Undergraduate Studies

Responsible for administering undergraduate academic programs, including curriculum and calendar changes; admissions; retention; transfers and advancements; awards; discipline and teaching evaluations.

604.822.4918 peter.marshall@ubc.ca



PRESCOTT, Cindy E

BSc (Hons) (Brock), MSc, PhD (Calg)

Associate Dean, Graduate Studies and Research

Responsible for promoting and overseeing administration of externally-sponsored research activities, and administering all aspects of Forestry graduate programs.

604.822.4701 cindy.prescott@ubc.ca



WATTS, Susan B

BSc (Wales), MF, PhD (Brit Col), RPF

Assistant Dean, Communications

Responsible for directing communications and external relations, for promoting research, and for producing Faculty Newsletters and Annual Reports.

604.822.6316 sue.watts@ubc.ca

Faculty and Staff

ANDERSON, Geoffrey

BComm (Nfld)
Coordinator, Cooperative Education
604.827.5196 geoff.anderson@ubc.ca

CHOI, Felix

BCS (Brit Col)
Manager, Computer Lab
604.822.6793 felix.choi@ubc.ca

CHOU, Julie

BSc (Brit Col), MBA (West Texas A & M)
Coordinator, Operations and Front Desk
604.822.2727 julie.chou@ubc.ca

CLODIUS, Christoph

BA (S Fraser), MA (Brit Col)
Director, Development
604.822.8716

DRAKES, Renita

BA (Brit Col)
Coordinator, Education and Web Technology
604.822.0024 renita.drakes@ubc.ca

HELMERSON, Erika

Assistant, Graduate Programs
604.822.6784 erika.helmerson@ubc.ca

JOHANSSON, Carl

BSc, PhD (S Fraser) MCSE
Manager, IT Systems
604.822.4061 carl.johansson@ubc.ca

KOLEVA, Eli

MSc (Bulgaria)
Executive Coordinator, Dean's Office
604.822.3542 eli.koleva@ubc.ca

KOSH, Gayle

DipT (Calg)
Manager, Graduate Programs
604.827.4454 gayle.kosh@ubc.ca

LEE, Yuko Ikegami

BFA (Japan)
Assistant, Student Services
604.827.5195 yuko.lee@ubc.ca

LONGHI, Chiara

BA, MA (Pisa)
Coordinator, International Recruitment
604.822-9187 chiara.longhi@ubc.ca

McCANN, Jenna

BA (Brit Col)
Manager, Alumni Relations
604.822.8787 jenna.mccann@ubc.ca

MORIZAWA, Caryn

Coordinator, Dean's Office
604.822.2176 caryn.morizawa@ubc.ca

MYERS, Jamie

HND (Lond)
Coordinator, Editorial and Graphic Design
604.822.4072 jamie.myers@ubc.ca

NAIDU, Dan

Coordinator, Graduate Awards and Scholarships
604.822.6177 dan.naidu@ubc.ca

NEUVONEN, Jorma

MBA (Brit Col), MSc (Finland)
Director, Special Projects
604.822.2807 jorma.neuvonen@ubc.ca

PARSONS, Candace

BSF (Brit Col), RPF
Director, Student Services
604.822.3547 candace.parsons@ubc.ca

QUINN, Katherine

BA (Brit Col)
Coordinator, Development
604.822.0898 katherine.quinn@ubc.ca

SHARWOOD, Colin

BEcon, BCom (Hons) (S Africa), CGA
Director, Finance and Administration
604.822.5542 colin.sharwood@ubc.ca

WANG, Guangyu

PhD (Brit Col), MBA (Marylhurst, Oregon)
Director, Asian Strategies
604.822.4407 guangyu.wang@ubc.ca

YU, Jill

BBA (S Fraser), CGA
Manager, Finance
604.827.3082 jill.yu@ubc.ca

Office of the Dean

Forest Sciences Centre
2005 – 2424 Main Mall
Vancouver, BC V6T 1Z4

Phone: 604.822.2727
Fax: 604.822.8645

Faculty and Staff



LARSON, Bruce
Professor, Head
Silviculture and Management
AB (1976) Harvard, MFS (1978) Yale,
PhD (1982) Wash
604.822.1284 bruce.larson@ubc.ca



INNES, John
Dean and Forest Renewal BC Chair in
Forest Management
*Sustainable Forest Management,
Cumulative Impacts Analysis, First Nations*
BA (1979), MA (1983), PhD (1983)
Cantab, CEnv
604.822.6761 john.innes@ubc.ca



ALILA, Younes
Associate Professor
Forest Engineering Hydrology
BASc (1985), MASc (1987),
PhD (1994) Ottawa, PEng
604.822.6058 younes.alila@ubc.ca



LeMAY, Valerie
Professor
Biometrics and Mensuration
BSc (1981), MSc (1982) Alta,
PhD (1989) Brit Col, RPF
604.822.4770 valerie.lemay@ubc.ca



BENDICKSON, Dennis
Senior Instructor and Director, Forest
Operations Major
Forest Operations
BSF (1971) Brit Col, RPF
604.822.5932 dennis.bendickson@ubc.ca



LYONS, C Kevin
Associate Professor
Forest Engineering
BSF (1997), MF (1998) Brit Col,
PhD (2001) Oregon State
604.822.3559 kevin.lyons@ubc.ca



BULL, Gary
Associate Professor
Forest Economics and Forest Policy
BSF (1988), MF (1991) Brit Col,
PhD (1995) Tor
604.822.1553 gary.bull@ubc.ca



MARSHALL, Peter
Professor and Associate Dean,
Undergraduate Studies
Growth and Yield, Sampling Design
BScF (1976), MScF (1979) Tor,
PhD (1984) Brit Col, RPF
604.822.4918 peter.marshall@ubc.ca



COOPS, Nicholas
Professor and Canada Research Chair
in Remote Sensing
*Remote Sensing and Spatial Data Modeling
in Forestry and Ecology*
BAppSc (1991), PhD (1996), RMIT
Melbourne
604.822.6452 nicholas.coops@ubc.ca



MEITNER, Michael
Associate Professor
*Environmental Perception and Visualization,
Recreation, GIS*
BSc (1992), MA (1998), PhD (1999) Arizona
604.822.0029 michael.meitner@ubc.ca



HOBERG, George
Professor
Policy and Governance
BS (1980) Calif, Berkeley, PhD (1987) MIT
604.822.3728 george.hoberg@ubc.ca



MOORE, R Dan
Professor (Forest Resources Management,
Geography) and Forest Renewal BC Chair
in Forest Hydrology
Hydrology
BSc (Hons) (1979) Brit Col,
PhD (1984) Canterbury, PGeo
604.822.3538 rdmoore@geog.ubc.ca

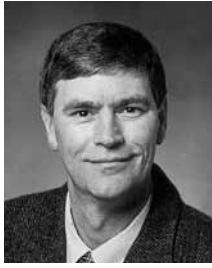
Faculty and Staff

**NELSON, Harry**

Assistant Professor

Forest Policy and Economics

BA (1983) Carleton, MPP (1987) Harvard, MSc (1990), PhD (1999) Brit Col
604.827.3478 harry.nelson@ubc.ca

**NELSON, John**

Professor and Director, Forest
Resources Management Major

Timber Supply Planning

BSF (1980), MBA (1982) Brit Col,
PhD (1988) Oregon State, RPF
604.822.3902 john.nelson@ubc.ca

**SHEPPARD, Stephen**

Professor (Forest Resources Management,
Landscape Architecture) and Director, CALP
*Visual Management, Planning, Visualization,
Communicating Climate Change*

BA (1974) Oxf, MSc (1976) Brit Col,
MA (1980) Oxf, PhD (1982) Calif, Berkeley
604.822.6582 stephen.sheppard@ubc.ca

**TAIT, David**

Assistant Professor

Optimization Techniques, Forest Planning

BSc (1968), MSc (1970), PhD (1983) Brit Col
604.822.2997 david.tait@ubc.ca

**TINDALL, David**

Associate Professor (Forest Resources
Management, Sociology)

*Environmental Sociology and Social
Research Methods*

BA (1985), MA (1989) Vic,
PhD (1994) Tor
604.822.2550
604.822.2363 tindall@interchange.ubc.ca

**TROSPER, Ronald**

Professor

Aboriginal Forestry

BA (1967), MA (1970), PhD (1974) Harvard
604.822.8089 ronald.trospen@ubc.ca

**WOOD, Paul**

Associate Professor

*Conservation Policy, Environmental
Ethics*

BSc (1973), PhD (1994) Brit Col, RPF,
RPBio
604.822.0951 paul.wood@ubc.ca

Research Associate**HARSHAW, Howard**

HBOR, BA (Lakehead), PhD (Brit Col)

*Forest Recreation, Human Dimensions of
Natural Resources*

Faculty Associate**CAO, Sam**

PhD (Nanjing University)

Honorary Research Associate**ZUMRAWI, Abdel Azim**

BSc (Sudan), MSc, PhD (Corvallis)

Biometrics, Growth & Yield

Post-doctoral Fellows**FARNDEN, Craig**

Tech Dipl (BCIT), BSF, PhD (Brit Col)

Quantitative Silviculture

FONTANA, Fabio

MSc, PhD (Berne)

Remote Sensing

GUO, Fu Tao

BS, MS, PhD (NFU, China)

Sustainable Forest Management

HILKER, Thomas

BSc (Goettingen), MSc (Stuttgart), PhD (Brit Col)

*Modeling Carbon-Fluxes and Mapping Landscape
Disturbances*

KLENK, Nicole

BSc, MSc (McGill), PhD (Brit Col)

Governance for Sustainability

**Forest Resources
Management Department**

Forest Sciences Centre
2045 – 2424 Main Mall
Vancouver, BC, V6T 1Z4

Phone 604.822.3482

Fax 604.822.9106

Faculty and Staff

NITSCHKE, Craig

BSF, PhD (Brit Col)

Forest Vulnerability and Climate Change

SCHROTH, Olaf

Vordiplom (Hannover), MA (Newcastle),
PhD (Zurich)

Interactive Landscape Visualization

TIKINA, Anna

MSc (Budapest), MFS (Yale), PhD (Brit Col)

*Environmental Policy, Sustainable Forest
Management*

Adjunct Professors

COHEN, Stewart

(Environment Canada, Adaptation &
Impacts Research Division)

BSc, MSc, PhD

Climate Change, Impacts and Adaptation

COLLINS, Denis

(BC Ministry of Forests, Lands and
Natural Resource Operations)

BSc, PhD, PGeo

*Forest Sustainability and Inventory;
Remotely Sensed Imagery*

DAVIS, Rod

(Ministry of Environment, Director
Emeritus)

BSc, MSc, PAg

Ecosystem and Biodiversity Conservation

DE LA ROCHE, Ian

(Formerly FPIInnovations)

BSc, MSc, PhD

Forest Industry Policy

EL-LAKANY, Hosny

(Former Head Forestry Department,
FAO/UN)

BSc, MSc, PhD, DSc

International Forest Policy

ELLIOTT, Chris

(WWF Canada)

BSc, MES, PhD

Forest Policy, Biodiversity and Certification

HOI, Paul

(Carbon Revenue Services)

BSc, MSc, PhD

Bioenergy and Forest Product Development

HUDSON, Robert

(BC Ministry of Forests, Lands and
Natural Resource Operations)

BSc (Hons), MSc, PhD

Forest Hydrology

ILES, Kimberley

(Consultant)

BS, MSc, PhD

Forest Inventory

KURZ, Werner

(Canadian Forest Service)

Dip Holzwirt, PhD

Forest Ecosystem Modelling

LECKIE, Donald G

(Canadian Forest Service)

BSc, PhD

Remote Sensing

MAGNUSSEN, Steen

(Canadian Forest Service)

MSc, PhD

Forest Inventory and Biometrics

MANESS, Thomas C

(Forest Engineering, Resources and
Management, Oregon State University)

BSF, MSc, PhD

Forest Economics and Policy Analysis

MATAKALA, Patrick

(WWF-Zambia)

BSc, MSc, PhD

*Community Resource Management and
Conservation Planning*

OGDEN, Aynslie

(Gov't of Yukon)

BSc, MSc, PhD

Sustainable Forest Management

ROBERTS, Don

(CIBC World Markets Inc)

BSc, MSc, MBA

*Forest Economics and Finance,
International Forestry*

SMITH, Nicholas

(Consultant)

BSc, MF, PhD

*Biometrics, Inventory, Silvicultural
Investment Analysis, Growth and Yield*

WEILER, Markus

(Freiburg University)

MSc, PhD

Watershed Hydrology

WINKLER, Rita D

(BC Ministry of Forests, Lands and
Natural Resource Operations)

BSF, MSc, PhD

Watershed Management, Snow Hydrology

WULDER, Mike

(Canadian Forest Service)

BSc (Hons), MSc, PhD

Forest Geomatics, Remote Sensing

YIN, Yongyuan

(Environment Canada)

BSc, MSc, MA, PhD

Climate Change, Impacts and Adaptation

Professors Emeriti

ADAMOVICH, L

Professor Emeritus (1984)

CHAMBERS, AD

Associate Professor Emeritus (1997)

DOOLING, PJ

Associate Professor Emeritus (1995)

GOLDING, DL

Associate Professor Emeritus (1996)

HALEY, D

Professor Emeritus (2004)

KOZAK, A

Professor Emeritus (2001)

MUNRO, DD

Professor Emeritus (1995)

MURTHA, PA

Professor Emeritus (2003)

PEARSE, PH

Professor Emeritus (1997)

REED, FLC

Professor Emeritus (1993)

YOUNG, GG

Associate Professor Emeritus (1996)

Staff

AIREY, Adelle

Administrative Assistant, CALP

AKAI, Heather

Administrator

AQUINO, David

BSc (La Molina, Peru), MF (Brit Col)
Research Assistant, Senior Technician

BATER, Christopher

BA (Winn), MSc (Brit Col)

Research Scientist

COTE, Shirlene

BSc (Guelph), MEd (SFU)

Social Mobilizations Research
Coordinator, Pacific Institute for Climate
Solutions

FLANDERS, David

BSc (Calgary), MLA (Brit Col)

Research Scientist, CALP

GERZON, Michael

BSc (Tel-Aviv), MSc (Brit Col)

Research Scientist

LEE, Taehee

BSc (Kyunghee), MSc (Kookmin),
MSc (Brit Col)

Research Analyst

Achievements and Plans

MAEDEL, Jerry

BFA, TC (Vic), MSc (Brit Col)
GIS/RS Coordinator

MCGUIGAN, Erin

BSc, MSc (Brit Col)
Managing Director, FACT

MCPHERSON, Debbie

Arts Dipl (Camosun)
Department Secretary

PILON, Angelique

BSc (Michigan), MArch (Brit Col)
Coordinator, CIRS Decision Theatre Project

POND, Ellen

BA (Brit Col), MLA (Brit Col)
Research Scientist, CALP

RELOVA, Marissa

BA (Maryknoll Coll, The Philippines)
Financial Clerk

RISTEA, Catalin

BSc (Transylvania), MSc (Brit Col)
Project Manager

SALTER, Jon

BSc, MSc, (Brit Col), PhD candidate
Manager, CIRS Decision Theatre Project

TATEBE, Kristi

BSc, MSc (Brit Col)
Research Scientist, CALP

VERWOERD, Harry

Computer Support Specialist

- Drs Bull and J Nelson received funding from Value Chain Network; Drs LeMay and Marshall received on-going For-ValueNet funding, Stephen Sheppard received funding from GEOIDE national and GRAND national.
- New students for the 2+2 program with Nanjing University and Fujian University have arrived and are integrating into the courses.
- We launched a new course (CONS 210) "Visualizing Climate Change" for undergraduate students across campus.
- Dr David Tindall received support from SSHRC (through the Faculty of Arts) in support of 3 projects: "Climate justice: Paths to an equitable and sustainable BC economy"; "Social movements and social network dynamics: A two-mode organizational network approach" and "Social networks and climate change discourse".

PLANS FOR 2011 – 12

- A search is underway for a replacement for Dr Ronald Tropper in the area of Indigenous Forestry.
- Dr Bruce Larson steps down as Department Head, plans are being developed to appoint a replacement.
- A Department Review will be conducted May 9-11, 2011.
- Develop and implement strategy to address gaps in teaching and research needs.

Promotion

Dr Ron Tropper was promoted to Professor, effective July 1, 2010.

ACHIEVEMENTS IN 2010 – 11

- Successfully hosted an international workshop jointly with Environment Canada "Proactive Adaptation: Challenges and Opportunities for Incorporating Climate Change Response within Sustainable Forest Management", Feb 14-16, 2011.
- The Department has addressed safety as a major issue. As first steps, two actions were taken: We implemented a Field Safety Protocol, requiring graduate students to develop a plan for field safety. Two sessions of Occupational First Aid, Level 1 were held and 36 faculty, staff and students were certified.
- Jointly with Forest Sciences, the Senate approved the new stream in Community and Aboriginal Forestry (including the Commerce minor) as part of the forest resources management program in the BSF degree.
- Drs Coops, Meitner and Nelson received ongoing NSERC funding.

Faculty and Staff



GUY, Robert
Professor and Head
Plant Physiology
BSc ('77), PhD ('84) Calg
604.822.6023 rob.guy@ubc.ca



EL-KASSABY, Yousry
Professor and NSERC Chair in Applied
Forest Genetics and Biotechnology
Quantitative Genetics
BSc ('70) Alexandra, MSc ('76) Tanta,
PhD ('80) Brit Col
604.822.1821 y.el-kassaby@ubc.ca



AITKEN, Sally
Professor and Director, Forest Sciences
Program
Director, Centre for Forest Gene
Conservation
Forest Genetics and Gene Conservation
BSF (Hons) ('84) Brit Col,
MSc ('86), PhD ('89) Calif, Berkeley
604.822.6020 sally.aitken@ubc.ca



GERGEL, Sarah
Associate Professor
Watershed Landscape Ecology
BS ('92) Florida, MS ('96), PhD ('01)
Wisconsin
604.827.5163 sarah.gergel@ubc.ca



ARCESE, Peter
Professor and Forest Renewal BC Chair in
Applied Conservation Biology
Population Ecology of Birds and Mammals
BA ('81) Wash, MSc ('85), PhD ('88) Brit Col
604.822.1886 peter.arcese@ubc.ca



GRAYSTON, Susan
Professor and Canada Research Chair
in Soil Microbial Ecology
Soil Microbial Ecology
BSc ('82), PhD ('87) Sheffield
604.822.5928 sue.grayston@ubc.ca



BOHLMANN, Jörg
Professor, Distinguished University
Scholar, NSERC EWR Steacie Fellow
*Plant/Insect Interactions, Forest Health,
Genomics, Biochemistry, Biotechnology*
BSc ('88), MSc ('91), PhD ('95)
Braunschweig, Germany
604.822.0282 bohlmann@msl.ubc.ca



HAMELIN, Richard
Professor (Canadian Forest Service)
Plant Pathology
BSc ('82) McGill, MSc ('86) S Fraser,
PhD ('91) Kentucky
604.827.4441
richard.hamelin@ubc.ca



CARROLL, Allan
Associate Professor
Forest Entomology
BSc ('88) S Fraser, PhD ('93) New
Brunswick
604.822.3360 allan.carroll@ubc.ca



HINCH, Scott
Professor and Director, Natural Resources
Conservation Program
(Forest Sciences, Institute for Resources
and Environment)
Aquatic Ecology and Fish Conservation
BSc (Hons) ('85), MSc ('87) W Ont, PhD
('92) Tor
604.822.9377 scott.hinch@ubc.ca



CHANWAY, Christopher
Professor (Forest Sciences, Land and
Food Systems)
Soil Microbiology
BSc ('78) Winn, BS Ag ('80) Mani,
MSc ('83), PhD ('87) Brit Col
604.822.3716 christopher.chanway@ubc.ca



KRZIC, Maja
Associate Professor (Forest Sciences,
Land and Food Systems)
Soil Science
BSc ('86), MSc ('90) (Belgrade),
PhD ('97) Brit Col
604.822.0252 maja.krzic@ubc.ca

Faculty and Staff

**LAVALLEE, Suzie**

Lecturer

Insect Ecology and Conservation

BSc ('94), MSc ('99), PhD ('06) Brit Col
604.822.4987 suzie.lavallee@ubc.ca

**SIMARD, Suzanne**

Professor

Forest Ecology and Silvics

BSF ('83) Brit Col, MS ('89),
PhD ('95) Oregon
604.822.555 suzanne.simard@ubc.ca

**MARTIN, Kathy**

Professor (Environment Canada)

Avian Ecology and Conservation

BSc ('70) Prince Edward Is,
MSc ('73) Alta, PhD ('85) Qu
604.822.9695 kathy.martin@ubc.ca

**SULLIVAN, Thomas**

Professor (Forest Sciences, Land and
Food Systems)

Wildlife Ecology

BSc (Hons) ('73), MSc ('76),
PhD ('78) Brit Col
604.822.6873 tom.sullivan@ubc.ca

**MITCHELL, Stephen**

Associate Professor

Silviculture

BSF ('87), PhD ('99) Brit Col, RPF
604.822.4591 stephen.mitchell@ubc.ca

**WATTS, Susan**

Lecturer and Assistant Dean,
Communications

Forest Entomology

BSc ('73) Wales, MF ('76),
PhD ('81) Brit Col, RPF
604.822.6316 sue.watts@ubc.ca

**PRESCOTT, Cindy**

Professor and Associate Dean,
Graduate Studies and Research

Forest Nutrition

BSc (Hons) ('81) Brock, MSc ('84),
PhD ('88) Calg
604.822.4701 cindy.prescott@ubc.ca

**RICHARDSON, John**

Professor

Stream and Riparian Ecosystems

BSc ('79) Tor, MSc ('83) Alta, PhD ('89)
Brit Col
604.822.6586 john.richardson@ubc.ca

**RITLAND, Kermit**

Professor

Population and Quantitative Genetics

BSc ('77) Wash, PhD ('82) Calif, Davis
604.822.8101 kermit.ritland@ubc.ca

Sessional Lecturer**BLACKWELL, Bruce**

MSc (Brit Col) RPF

Fire and Climate

Research Associates**CHAN-McLEOD, Ann C Allaye**

BSF, MSc (Brit Col), PhD (Alaska)

Physiological Ecology

CLARK, Timothy

BSc, PhD (La Trobe)

Ecophysiology and Behavioural Energetics of Migrating Salmonids

KRCMAR, Emina

BSc, MSc, PhD (Belgrade)

Decision Analysis Under Multiple Criteria and Uncertainty

Forest Sciences Department

Forest Sciences Centre

3041 – 2424 Main Mall

Vancouver, BC, V6T 1Z4

Phone 604.822.2507

Fax 604.822.9102

Faculty and Staff

RITLAND, Carol

BSc, MSc (Brit Col), PhD (Tor)
Molecular Genetics

SEELY, Brad

BS (Redlands), PhD (Boston)
Nutrient Dynamics and Forest Hydrology

SMETS, Pia

MSc (Leuven), PhD (Brit Col)
Forest Genetics, Genecology

TSUI, Clement

BSc, PhD (Hong Kong)
*Mycology, Phylogeny, Evolution, and
Population Genetics*

WANG, Tongli

MSc, PhD (Helsinki)
Forest Tree Breeding

WELHAM, Clive

BSc, MSc, (Manit), PhD (S Fraser)
Biosciences

WELLS, Ralph

BSc, MRM (S Fraser)
Applied Forest Ecology

Honorary Research Associates

COOKE, Steven J

BES, MSc (Waterloo), PhD (Illinois)
NSERC and Izaak Killam Fellowship
Fish Conservation

DREVER, Mark

BSc (Tor), MPM (S Fraser), PhD (Guelph)
Avian Ecology and Conservation

EVANS OGDEN, Lesley

BSc (Hons) (Tor), MSc (York), PhD (S
Fraser)
Wildlife Ecology

JACKSON, Michael

BSc (E Anglia), MSc (Lond), PhD (E
Anglia)
*Biology of Shallow Lakes, Ecotoxicology, and
Biodiversity Conservation*

ZHANG, Yixin

BSc (Nanjing), PhD (Umeå)
Stream Ecology

Post-doctoral Fellows

AITKEN, Kathryn

BSc (S Fraser), MSc, PhD (Brit Col)
Applied Conservation Research

BAO, Hua

BSc (S China Normal), PhD (Sun Yat-Sen)
Evolutionary Genomics

BARKER, Jason

BA (Towson), MA (Portland),
PhD (Brit Col)
Forest Ecology

BLANCO VACA, Juan

PhD (Navarra)
*Forest Ecology, Nutrient Cycling and
Ecosystem-level Modelling*

BOIZARD, Sophie

BSc (Vic), PhD (Brit Col)
Marine Biology and Biomechanics

CROSSIN, Glenn

BA (Maine), BSc (New Hampshire), MSc,
PhD (Brit Col)
Behavioural and Physiological Ecology

DESLIPPE, Julie

BSc (Vic), MSc (North Brit Col), PhD (Brit
Col)
Arctic Ecology

DHILLON, Braham

BSc (Hons), MSc (Punjab Agricultural),
PhD (Purdue)
Fungal Genomics

DUDANIEC, Rachael

BSc, PhD (Flinders)
Conservation Biology

GREIG, Hamish

BSc, PhD (Canterbury)
Freshwater Ecology

KLAPSTE, Jaroslav

BSc, PhD (Czech Republic)
Forest Genetics

MA, Brian

BSc (Calg), MSc (Tor), PhD (S Fraser)
Fish Ecology

MARTINS, Eduardo

BSc, MSc, PhD (Estadual de Campinas)
Ecology

MCKOWN, Athena

BSc (Alta), PhD (Tor)
Plant and Microbial Biology

SAJEDI, Toktam

BSc (Gorgan), MSc (Tehran),
PhD (Brit Col)
Ecosystem Ecology, Biochemistry

THORPE, Hilary

BSc, PhD (Tor)
Forest Ecology and Management

Adjunct Professors

BULMER, Charles

(BC Ministry of Forests, Lands and
Natural Resource Operations)
BSc, MSc, PhD
Productivity of Disturbed and Rehabilitated Soils

COATES, David

(BC Ministry of Forests, Lands and
Natural Resource Operations)
BSF, MSc, PhD
Silviculture and Forest Ecology

HUMBLE, Leland

(Canadian Forest Service)
BSc, PhD
Entomology

MARTIN, Tara

(CSIRO, Australia)
BSc (Griffith), PhD (Queensland)
Population and Conservation Biology

MILLER, Kristina

(Fisheries and Oceans, Canada)
BSc, MSc, PhD
*Functional Genomics, Molecular
Genetics, Salmon*

NEWMAN, Reg

(BC Ministry of Forests, Lands and
Natural Resource Operations)
BSc, BSF, PhD
Range Ecology

STOEHR, Michael

(BC Ministry of Forests, Lands and
Natural Resource Operations)
BSc, MSc, PhD
Advanced Generation Seed Orchards

YANCHUK, Alvin

(BC Ministry of Forests, Lands and
Natural Resource Operations)
BSc, MSc, PhD
Gene Conservation

Faculty Associates

DURALL, Daniel

(UBC Okanagan)
BSc, PhD
Mycorrhizal Ecology

Professors Emeriti

BUNNELL, FL

Professor Emeritus (2007)

FELLER, M

Associate Professor Emeritus (2009)

KIMMINS, JP

Professor Emeritus (2007)

KLINKA, K

Professor Emeritus (2002)

LAVENDER, D

Professor Emeritus (1992)

McLEAN, JA

Professor Emeritus (2008)

Faculty and Staff

NORTHCOTE, T

Professor Emeritus (1992)

van der KAMP, B

Professor Emeritus (2006)

WEETMAN, G

Professor Emeritus (1998)

WORRALL, J

Associate Professor Emeritus (2003)

Staff

AZAM, Shoful

BSc (Dhaka), MSc (Japan)
Research Assistant/Technician

BEAUSEIGLE, Stephanie

BSc, MSc (Laval)
Research Assistant/Technician

BERG, Nora

BSc (Alta)
Research Assistant/Technician

CHAN, Andrea

BSc (Brit Col)
Financial Clerk

CHANG, Alice

BSc, MSc, (Brit Col), PhD (Carleton)
Research Scientist

CHENG, Rosemarie

BSIE (UP, The Philippines)
Financial Coordinator

DEL BEL, Kate

BSc (Guelph), MSc (Cal)
Research Scientist

DESCALZO, Rolando

MPM, PhD (S Fraser)
Collections Manager

FARZANEH, Nima

BSc (Brit Col)
Bioinformation/Database Manager

HERATH, Padmini

BSc (Sri Lanka), MSc (Pennsylvania State)
Research Assistant/Technician

HODGES, Norman

BSc (Vic)
Computer Specialist

KREMSATER, Laurie

BSF, MSc (Brit Col)
Manager, Sustainable Forestry Project

LAI, Ben

BSc, MSc (Brit Col)
Research Assistant/Technician

LIAO, Limin

BSc (Shangsha), MSc (Beijing)
Research Assistant/Technician

LOTTO, Andrew

RMOT (Malaspina)
Research Assistant/Technician

McKAY, D'Arcy

BSc (S Fraser)
Research Assistant/Technician

MISCAMPBELL, Allyson

BSc (Lakehead), MSc (Brit Col)
Research Assistant/Technician

MOY, Arnold

BSc (Brit Col)
GIS Specialist

MUTIA, Christine

B Admin (UP, The Philippines)
Financial Clerk

ROOTMAN, Susan

Departmental Secretary

SETO, Carrie

BA (HK)
Administrator

YUEH, Hesther

BSc (McGill)
Research Scientist

YUEN, Agnes

BSc (Brit Col)
Research Assistant/Technician

New Appointment

Dr Suzie Lavallee was appointed to a Lecturer position from May 1, 2010 to April 30, 2012. Suzie will continue running CONS 451 and has added responsibilities at both the graduate and undergraduate levels (eg CONS 330).

Achievements and Plans

ACHIEVEMENTS IN 2010 – 11

- Dr Robert Guy completed his five-year term as Department Head in December 2010 and was reappointed for another year effective January 1, 2011.
- Dr Sally Aitken was awarded the 2010 Killam Teaching Award for the Faculty of Forestry at the Convocation Ceremony for Forestry in late May.
- The NSERC IRC Chair in Applied Forest Genetics and Biotechnology held by Dr El-Kassaby was renewed for another five years to 2014/15.
- Drs Aitken, Arcese, Guy, Hinch and Martin were successful in securing NSERC Discovery grant funding in the most recent competition.
- Dr Sarah Gergel was on sabbatical leave from January to December 2010.
- Dr John Richardson continued a successful Wednesday seminar series.
- Dr Allan Carroll was appointed Chaire Internationale, Université Libre de Bruxelles
- Dr Fred Bunnell received the Ian McTaggart-Cowan Award of Excellence in Biology at the 5th Annual Applied Biology Conference – Water, Wind and Wildlife.
- ABCFP Life Membership was conferred on Dr Gordon Weetman. Gordon is also a life member of the Order of Forest Engineers of Quebec.
- Mike Donaldson (PhD, Hinch) won two awards at the American Fisheries Society Washington and BC meetings: The Best Student Poster for his poster entitled, "Physiological Responses and Recovery of Adult Coho Salmon to Simulated Predator and Fisheries Encounters." and the Runner-Up for Best Student Paper for his talk entitled, "Fisheries and Handling-Related Stressors on Adult Pacific Salmon Physiology, Behaviour and Survival". Marika Gale (MSc, Hinch) was a co-author on both presentations.
- Lee Kalcsits (PhD, Guy) was named a Vanier Canada Graduate Scholar, to conduct research in plant and tree biology
- Dr Peter Ashton (Charles Bullard Research Professor of Forestry and Faculty Fellow at the Center for International Development, Harvard University) presented the Dr Leslie L Schaffer Lecturer in Forest Sciences, entitled "The disastrous trajectory of the tropical rain forest: Conservation imperatives".
- Dr Scott Hinch's MSc student Jenn Burt received the Best Teaching Assistant Award.
- Dr Kathy Martin delivered an invited plenary address to the global ornithological group in Sao Paolo, Brazil entitled: 'Avian strategies for living at high elevation'.
- Dr Yousry El-Kassaby was awarded the IUFRO Scientific Achievement Award at the 2010 IUFRO World Congress.

PLANS FOR 2011 – 12

- An external review of the Department will be undertaken May 9 –11, 2011.
- Recruit an instructor in Natural Resources Conservation (NRC). The instructor will be involved in the teaching, coordination, and development of undergraduate and graduate courses in the NRC Program.
- Expand our teaching and research capacity in the field of disturbance ecology.
- Maintain high level of proposals to NSERC, Genome BC/ Genome Canada and other funding agencies.
- Dr Kathy Martin will organize and chair the 5th North American Ornithological Conference at UBC, 14-18 August, 2012, to be held for the first time in Canada. This meeting is held every 4 years, and will feature a full range of topics on research and management of birds in North and Central America.
- Recruit a new Head of Department.

Faculty and Staff



KOZAK, Robert
Professor and Head (*Pro Tem*)
Sustainable Business Management
BSc (1988), PhD (1996) Brit Col
604.822.2402 rob.kozak@ubc.ca



EVANS, Philip D
Professor and BC Leadership Chair in
Advanced Forest Products
Manufacturing Technology
Photoprotection and Modification of Wood
BSc (Hons) (1980), PhD (1985) Wales,
FIAWS
604.822.0517 phil.evans@ubc.ca



AVRAMIDIS, Stavros
Professor
Wood Physics and Drying
BSF (1981) Thessaloniki, MS (1983),
PhD (1986) SUNY, Syracuse, FIAWS
604.822.6153 stavros.avramidis@ubc.ca



FÜRST, Robert
Senior Instructor
Manufacture of Secondary Wood Products
Master Dip (1992) Augsburg, Germany
604.822.0034 robert.fuerst@ubc.ca



BREUIL, Colette
Professor
Forest Products Biotechnology
BSc (1971) Lyon, MSc (1974) Ottawa,
PhD (1977) Lyon
604.822.9738 colette.breuil@ubc.ca



KADLA, John
Professor and Canada Research Chair in
Advanced Biomaterials Chemistry
Polymer Chemistry and Materials Science
BSc (1989) Brit Col, PhD (1997)
N Carolina, FIAWS
604.827.5254 john.kadla@ubc.ca



COHEN, David
Professor
Forest Products Marketing and Management
Dip For Tech (1976) Selkirk, BSc (1986)
Idaho, PhD (1989) Virginia Polytech
604.822.6716 david.cohen@ubc.ca



LAM, Frank
Professor and Senior in Chair Wood
Building Design and Construction
Timber Engineering
BASc (1982), MASc (1985),
PhD (1992) Brit Col, PEng
604.822.6526 frank.lam@ubc.ca



CRAMOND, Patrick
Senior Instructor (Wood Science,
Mechanical Engineering)
Wood Products Processing
BASc (1974) Brit Col, PEng
604.822.1287 pcramond@mech.ubc.ca



MANSFIELD, Shawn
Professor and Canada Research Chair in
Wood and Fibre Quality
Biotechnology and Chemistry of Wood Fibres
BSc (Hons) (1992) Mt Allison, MSc (1994)
Dal, PhD (1997) Brit Col, FIAWS
604.822.0196 shawn.mansfield@ubc.ca



ELLIS, Simon
Associate Professor and Director, Wood
Products Processing Program
Wood Anatomy and Quality
BSc (Hons) (1983) Wales, MSc (1986),
PhD (1989) Brit Col
604.822.3551 simon.ellis@ubc.ca



MCFARLANE, Paul
Professor
*Environmental Aspects of Wood Products
and Processing*
B Tech (Hons) (1973) PhD (1979) Massey
FIAWS
604.822.7667 paul.mcfarlane@ubc.ca

Faculty and Staff



RUDDICK, John

Professor

Wood Preservation

BSc (1965), MSc (1966) Newcastle,
PhD (1970) Lond
604.822.3736 john.ruddick@ubc.ca



SADDLER, Jack

Professor

Forest Products Biotechnology/Bioenergy

BSc (Hons) (1975) Edin, PhD (1978) Glas,
FIAWS
604.822.9741 jack.saddler@ubc.ca



SMITH, Gregory

Associate Professor

Wood Composites

BASc (1988), MASc (1992) Brit Col,
Dr sc techn (1996) Swiss Federal Inst, PEng
604.822.0081 greg.smith@ubc.ca



SOWLATI, Taraneh

Associate Professor

*Operational Research, Performance
Assessment*

BSc (1990) Sharif, MASc (1996) Tarbiat
Modares, PhD (2001) Tor
604.822.6109 taraneh.sowlati@ubc.ca



TANNERT, Thomas

Assistant Professor and Associate in Chair
Wood Building Design and Construction
(Dipl-Ing) (2001), MSc (2002), PhD (2008)
Brit Col

604.822.1334 thomas.tannert@ubc.ca

Research Associates

CHANDRA, Richard

BSc, MSc (Brit Col), PhD (Georgia Institute of Technology/
Institute of Paper Science and Technology, USA)

Wood Chemistry

PORTH, Ilga

MSc, PhD (Vienna)

Genomics, Plant Biochemistry

TIMKO, Joleen

BSc, MSc, PhD (Brit Col)

Social Equity and Ecological Integrity

TSUI, Kin Ming (Clement)

BSc, PhD (Hong Kong)

Genomics

WANG, Ye

BSc, MSc, PhD (China Agricultural)

Biochemistry and Molecular Biology

Post-doctoral Fellows

ALEMAGI, Dieudonne

BSc (Cameroon), MSc, PhD (Brandenburg, Germany)

Environment and Resource Management

ANDERSSON-ROOS, Alexandra

MSc, PhD (Lund, Sweden)

Forest Product Biotechnology

ARANTES,Valdeir

PhD (San Paulo, Brazil)

Applied Microbiology

HARIDAS, Sajeet Kalathil

BSc, MSc (Mumbai, India), PhD (Minnesota, USA)

Genome Sequencing and Analysis

LAH, Ljerka

BSc, PhD (Univ of Ljubljana, Slovenia)

Molecular biology of plant-pathogenic fungi

LAZARESCU, Ciprian

BSc, MSc, (Transilvania, Brasov) PhD (Brit Col)

Wood Physics and Drying

LI, Minghao

BSc, MSc, (Tongji, China) PhD (Brit Col)

Structural Engineering

MAI, Mirjam

Dip (WWU) Muenster (Germany), PhD (TU

Dresden, Germany)

Hydrolysis and Derivatisation of Cellulose

Wood Science Department

Forest Sciences Centre
2900 – 2424 Main Mall
Vancouver, BC V6T 1Z4

Phone: 604.822.9352

Fax: 604.822.9159

woodubc@interchg.ubc.ca

www.wood.ubc.ca

Faculty and Staff

MALONEY, Victoria

BSc, PhD (Brit Col)
Plant/Tree Physiology, Molecular and Conservation Biology

OH, Jung Kwon

BSc, MSc, PhD (Seoul National University, South Korea)
Timber Engineering and Nondestructive Evaluation

PARK, So Young

BSc (Busan Nat, Korea), MSc, PhD (Chungbuk Nat, South Korea)
Tree Biotechnology

SALLES, Bruno

PhD (Brasilia, Brazil)
Enzymology Applied to Forest Product Biotechnology

SELLA KAPU, Nuwan

BSc (Peradeniya, Sri Lanka), MS, PhD (Penn State)
Lignocellulose to Ethanol/Co-Products Bioconversion

SKYBA, Oleksandr (Alex)

BSc, MSc (Kyiv Polytechnic Institute, Ukraine) PhD, (Swiss Fed Institute of Tech, Switzerland)
Genomic Analysis of Wood

WASKO, Stephen

BSc, PhD (California)
Biomolecular Sciences and Engineering

XU, Zhi Ming (William)

BEng (Nanjing, China), PhD (Western Ontario)
Chemical and Biochemical Engineering

ZHANG, Xuelian

BE, MS, (Beijing, China)
Wood Based Composites, Nano Composites

Visiting Scholars

DEAM, Bruce

Lecturer, Structural Engineering
Department University of Canterbury,
New Zealand

JORGENSEN, Henning

Technical University of Denmark

KIM, Ki Seok

Director General, Korean Ministry of Land, Transport and Maritime Affairs, South Korea

LEE, Chong Keon,

Director and Senior Secretary to Minister of Forests, Korean Forest Service, South Korea

MYBURG, Alexander

North Carolina

Adjunct Professors

BEATSON, Rodger

(BC Institute of Technology)
BSc, PhD
Pulp and Paper Chemistry

DAI, Chunping

(FPInnovations Forintek)
BSc, MSc, PhD
Wood Composite Products & Processing, Computer Modeling

GASTON, Chris

(FPInnovations Forintek)
BSc, MSc, PhD
Forest Products Marketing

HE, Minjuan

(Tongji University)
BSc, MSc, PhD
Timber Structures

MORRIS, Paul

(FPInnovations Forintek)
BSc, PhD
Preservation and Protection

OLIVEIRA, Luiz

(FPInnovations Forintek)
BSc, MSc, PhD
Wood Drying

Professors Emeriti

BARRETT, DJ

Professor Emeritus (2005)

GARDNER, JA

Dean Emeritus (1985)

KENNEDY, R

Dean Emeritus (1992)

PASZNER, L

Professor Emeritus (1999)

Staff

BRAUN, Jennifer

BSc, MSc, PhD (Cincinnati)
Research Scientist

CAMERON, Kirsty

BA (Brit Col)
Administrative Support Clerk

CHANG, Xue Feng Harry

MASc (Brit Col)
Research Scientist

CHIU, Jason

BSc (Brit Col)
Training and Continuing Education

CHOWDRY, Shoraun

BSc (Brit Col)
Senior Financial Specialist

CHUNG, Pablo

BSc (UNALM), MSc (Brit Col)
Research Scientist

CULLIS, Ian

BSc, MSc (Brit Col)
Research Assistant/Technician

DREWES, Eric

BSc (Toronto)
Research Assistant Technician

FISHER, Karen

BEd (Ont)
Administrator

GO, Genevieve

BSc (De la Salle, Philippines) MBA (S Fraser)
Project Manager, Report Writer

GUNTHER, Lawrence

Engineering Technician

HANOVA, Jana

BSc (Hons) (Alta), MSc (Brit Col)
Research Scientist – TASK 39
Coordinator

HASTINGS, Diana

BSc (Brit Col)
Research Assistant/Technician

JOHNSTON, Wendy

Research Group Administrator

KALYNYAK, Peter

MSc (Ukraine)
Research Assistant/Technician

KANN, Christine

Administrative Support

LEE, George

BSc (China), MSc (Oregon State)
Wood Engineer Scientist

LEUNG, Vincent

BSc (Brit Col), DipT (BCIT)
Technical Facilities Supervisor

LIM, Linette

Research Assistant/Technician

LIU, Winfield

BA (Brit Col)
Computer Support Specialist

MACDONALD, Iain

BA (Stirling, Scotland), MSc (Brit Col)
Managing Director, CAWP

PARK, Ji Young

PhD (Seoul Nat, Korea)
Research Scientist

WU, Youhai

MASc (Brit Col)
Research Engineer

YAN, Hui Jun

BS (Shandong Inst, China), MAS (Harbin, China)
Research Engineer

ZHANG, Chao (Tom)

Research Assistant/Technician

Achievements and Plans

New Appointment

On April 1, 2011, Dr Thomas Tannert joined the Department of Wood Science (joint-appointed with the Department of Civil Engineering, Faculty of Applied Science) as a tenure-track Assistant Professor and Associate Chair in Wood Building Design and Construction. Thomas comes to us from the Bern University of Applied Sciences, Switzerland, where he was a Research Associate and Lecturer. His research and teaching interests revolve around the assessment and monitoring of wooden structures and the use of wood in building design. Thomas received his PhD from the University of British Columbia in Timber Engineering and his Masters in Wood Science and Technology from the University of Bio-Bio in Chile. He brings with him a wealth of expertise that is vital to our growing research activities in the areas of wood building design and construction.

Retirement

Dr Helmut Prion retired in July of 2010 after a long association with the Faculty of Forestry and the Department of Civil Engineering in the Faculty of Applied Science where he was joint-appointed. Much of his research revolved around engineered timber structures design, with a focus on earthquake resistance of timber structures, behaviour of timber connections, the cyclic behaviour of wood-based shear walls, and numerical modelling of wood connections. Helmut was also known as an outstanding teacher and was recognized with several awards, including the Top Teacher Prize in the Department of Wood Science in 2003, the Civil Engineering Teaching Award in 1994 and 2002, the Just Desserts Award for Service to Students in 2004, the Medal for Distinction in Engineering Education in 2004 and the Killam Teaching Prize in Applied Science in 2002. In his retirement, Helmut plans to pursue a garden landscaping business and enjoy life in the Okanagan.

ACHIEVEMENTS IN 2010 – 11

- Wood Products Processing achieved an enrolment of 94 undergraduates (17 international students) with a new student intake of 33. The number of new applicants for the undergraduate program for the coming year was 151 at the end of March, an all-time high.
- The co-op program continued as an integral and highly successful component of the Wood Products Processing Program with 27 co-op work placements completed.
- The graduate student population in the Department of Wood Science continues to grow moderately, with 74 MSc and PhD students currently being directly supervised by faculty members in the Department.
- The Centre for Advanced Wood Processing continues its highly rated programs of industry capacity building, particularly with the Business Innovation Partnership (supporting product development initiatives for value-added manufacturers) and the Management Skills Training Program (which has supported 80 online learners from the wood products sector to date).
- Drs Avramidis and Evans received new NSERC funding, while Drs Breuil, Evans, Kadla, Lam, Mansfield, Smith and Sowlati received ongoing NSERC funding and Dr Kozak received ongoing SSHRC funding.

- Drs Evans, Kadla, Lam and Smith continue to receive research funding from the Canadian Forest Service Value-to-Wood program.
- Dr Evans was re-appointed as a Visiting Fellow in the Department of Applied Mathematics at The Australian National University.
- Dr Kadla continues his role as the Scientific Director for the NSERC Biomaterials and Chemical Strategic Network.
- Dr Kozak continues his role as Theme Leader for the NSERC Value Chain Optimization Strategic Network.
- Drs Kadla, Kozak and Mansfield were successful collaborators on three Genome Canada projects, set to commence in July 2011.
- Dr Kozak became Head (*Pro Tem*) of the Wood Science Department in January, 2011.
- Dr Lam is a Guest Professor in the Department of Building Engineering at Tongji University, China.
- Dr Mansfield was awarded the IUFRO Scientific Achievement Award at the 2010 IUFRO World Congress.
- Dr McFarlane has taken administrative leave in New Zealand and Switzerland after 9 years of service as Head in the Department of Wood Science. During his time as Head, Dr McFarlane was instrumental in ensuring that the Department remained in a healthy fiscal position, while maintaining its world class undergraduate, graduate and research programs. Upon his return, Dr McFarlane will spend his time teaching various course in the Faculty of Forestry and building up his research program on the environmental aspects of wood products and processes.
- Dr Saddler is a Board Member for the US Department of Energy Advanced Biofuels Consortium.
- Dr Lars Berglund from the Wallenberg Wood Science Center (Sweden) presented the 2011 Burgess-Lane Memorial Lecture on "Extending the Range of Forest Products – Nanopaper, Aerogels and Biocomposites from Wood Cellulose Nanofibers".
- Steve Ribarits, a PhD student with Dr Phil Evans, was awarded the Robert W Stephen's Memorial Prize of US\$1,000 at the Annual Meeting of Canadian Wood Preservation Association for his paper on 'Finite element modelling of the checking of wood exposed to accelerated weathering'.

PLANS FOR 2011 – 12

- In May and June of 2011, the Department of Wood Science will be undergoing a Departmental Review. It is hoped that the recommendations of this review will help guide the department in developing strategic initiatives that allow us to maintain our position as an internationally recognized academic unit.
- One of the key aims of the Department of Wood Science continues to be increasing the enrolment levels of our undergraduate Wood Products Processing program. Major strides are anticipated in 2011 with the first significant intake of '2+2' students from partner universities in China.
- The Department of Wood Science will continue to aggressively pursue funding opportunities from diverse sources, including research agencies, governments, industry, international organizations, and through industry extension activities.



Iain Macdonald BA, MSc
Managing Director
604.822.1472
iain.macdonald@ubc.ca

Kirsty Cameron, BA
Administrative Support
Clerk

Jason Chiu, BSc
Specialist, Technical

Linda Dom, BA, MA
Co-op Coordinator and
Recruitment Officer

Karen Fisher, BEd
Administrator

Lawrence Günther
Technician

Vincent Leung, BSc
Supervisor, Technical
Facilities

Winfield Liu, BA
Specialist, Computers

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

CAWP is supported by a large number of industrial equipment and technology suppliers, whose in-kind contributions of software, machinery, supplies, and services significantly enhance our facilities and the training and education experiences that CAWP is able to offer. A number of manufacturing companies also support CAWP annually through cash contributions to our industry partnership program.

CAWP has an internal management committee, established in 2007, to allow faculty members in the Department of Wood Science to provide input into the activities of CAWP, and it is active in planning and monitoring our technical and educational activities. CAWP also receives guidance from an external Advisory Board consisting of senior personnel from the wood products industry across Canada.

Educational Programs

The Wood Products Processing program remains the largest degree program in wood technology/wood science in North America. In 2010-11 there were 27 co-op work terms completed, reflecting a well-balanced geographical distribution across Canada in British Columbia, Alberta, Ontario, and Quebec. International work terms were completed in Australia, China, Germany, Tasmania, and the United States. The Wood Products Processing program has seen a sharp increase in the number of applications in 2010-11. As of March 2011 there were 151 applicants to the program, a figure that is 75% more than our past five year average and 50% more than our previous high.

In 2010 a permanent exhibition space was created in the classroom adjacent to the CAWP High Head Manufacturing Lab. The space will be used to showcase student and industry projects, and currently features the prototype model of the Winter Olympic medal podium, which was built at CAWP. It is hoped that this and other enhanced display spaces around CAWP will strengthen and support our recruiting efforts. We are pleased to report that the medal podium project was nominated in May 2011 for a Premier's

Innovation and Excellence Award in the Partnership category.

Continuing Education, Communication and Extension

CAWP offers two UBC Certificate Programs to industry professionals – the Industrial Finishing Certificate and the Kiln Drying Certificate. In 2010 CAWP began delivering a new Management Skills certificate program on behalf of the Wood Manufacturing Council. The program consists of 8 35-hour online course modules that can be taken by entrepreneurs and management-track employees of wood manufacturing businesses to acquire key management skills. The 8 modules are: Sales and Marketing; Human Resources and Safety; Quality Management & Control; Business Finance & Investment Evaluation; Supply Chain Management; Factory Layout and Equipment Justification; Production Planning; and New Product Development. Over 80 learners took part in the courses during the first year that they were available, and feedback from participants has been very positive. In 2011-12 our aim is to increase uptake even further.

This year the number of one-on-one technical assistance projects that CAWP carried out for BC value-added manufacturing companies increased dramatically, from just three in 2010-11 to twenty in 2011-12. Most of these were supported with funding provided by Forestry Innovation Investment as part of CAWP's role in the Business Innovation Partnership (BIP), a joint program delivered in cooperation with BC Wood Specialties Group and FPInnovations to provide business development services to the value added wood products industry in British Columbia. A further 2 projects were supported by a provincial value-added wood processing funding program for First Nations. The projects spanned every sub-sector of the value added wood industry and included: Prototyping of furniture and storage products using 5-axis CNC technology; development of curved wood windows; testing glue bonds for mixed-species windows; evaluation and testing of stains for use with natural oil-finished flooring; processing trials using thermally-modified lumber; development of a press machine for a new engineered wood beam; selection of energy-efficient building products for a made-in-BC passive home; development of drying schedules for exotic submerged timbers logged from the Panama Canal, and; prototyping of factory-built housing using CAWP's Hundegger K2 beam processing machine and advanced 3D CAD-CAM software. CAWP also held successful seminars for designers, architects, and manufacturers, and has received requests from the design community for follow-up events and services. The BIP program underwent an independent audit early in 2011, and was found to yield extremely positive benefits to industry, with return on dollars invested of between 9:1

and 13:1. In the coming year CAWP aims to maintain activity levels at around 20 company-specific projects, and to expand product development support to industrial designers who are interested in working with wood.

CAWP's highly successful Canadian International Development Agency (CIDA)-funded capacity-building project in South Africa was formally completed in the summer of 2010. The collaboration with Stellenbosch University is continuing, and CAWP and Stellenbosch University are working on a proposed new capacity building projects for West Africa and Francophone Africa, subject to funding.

Research

CAWP's role as an integrated structure within the Department of Wood Science is to act as a conduit between the industry and academic communities in order to ensure that applied research activities within the department and CAWP fully reflect industry needs. CAWP is active in helping industry find solutions to current competitive challenges by linking them with researchers who may be able to provide avenues for change.

Several faculty members of the Department of Wood Science continue to receive funding for research projects from the NRCan-CFS Value-to-Wood program. These projects cover a wide range of themes, from corporate social responsibility to advanced finishing and building systems to forest certification and life cycle analysis to advanced wood composites development.

PLANS FOR 2011 – 12

- Increase industry support for CAWP through our industry partnership program.
- Maintain current activity levels for CAWP's Business Innovation Partnership activities for BC companies.
- Increase awareness and uptake of the WMC Management Training Certificate Program by Canadian and international audiences.
- Launch a new introductory-level e-learning course on the forest products value chain.
- Obtain funding for new education and training capacity-building projects in West and Francophone Africa.
- Continue collaboration with South African university partners to enhance education, training and industry services for South Africa's wood processing sector.
- Enhance informational displays within the CAWP public areas and meeting spaces to highlight innovative industry and student projects
- Leverage existing curricula and educational technologies to offer innovative new training programs in response to industry needs.

Centre Associates

Avramidis, Stavros	UBC
Barrett, David	UBC
Blyt, Christian	Emily Carr University
Bramer, Mark	Conestoga College
Breuil, Colette	UBC
Cohen, David	UBC
Dai, Chunping	FPIInnovations Forintek
Ellis, Simon	UBC
Evans, Philip	UBC
Hartley, Ian	UBC
Kadla, John	UBC
Kataoka, Yutaka	FFPRI, Tsukuba, Japan
Kiguchi, Makoto	FFPRI, Tsukuba, Japan
Köster, Heinz	Fachhochschule Rosenheim
Kozak, Robert	UBC
Lam, Frank	UBC
Mai, Carsten	Univ of Göttingen
Mansfield, Shawn	UBC
McFarlane, Paul	UBC
Meincken, Martina	Stellenbosch Univ, S Africa
Militz, Holger	Univ of Göttingen
Morris, Paul	FPIInnovations Forintek
Mortimer, John	Stellenbosch Univ, S Africa
Romilly, Douglas	UBC
Ruddick, John	UBC
Rypstra, Tim	Stellenbosch Univ, S Africa
Schajer, Gary	UBC
Scholte, David	Consultant
Smith, Greg	UBC
Tannert, Thomas	UBC
Yellowly, Ian	UBC

Centre for Advanced Wood Processing

Forest Sciences Centre
2900-2424 Main Mall
Vancouver BC V6T 1Z4

Phone: 604.822.6448
Fax: 604.822.9159
cawp@cawp.ubc.ca
www.cawp.ubc.ca



Peter Arcese
BA, MSc, PhD
Co-Director
604.822.1886
peter.arcese@ubc.ca



Sarah Gergel
BS, PhD
Co-Director
604.827.5163
sarah.gergel@ubc.ca



INCREASING DEMAND FOR natural resources and the changing face of climate and land management in British Columbia continue to challenge conventional ideas about how to maintain healthy forested and non-forested ecosystems in future. Dr Fred Bunnell and Dean Clark Binkley established the Centre for Applied Conservation Biology to address these challenges in 1991. Our associated faculty, students and postdoctoral fellows have since built a reputation for excellence in applied research on biodiversity conservation and land management in Canada and internationally. Our new title, adopted under the leadership of Dr John Innes, encourages the inclusion of social and economic approaches in applied conservation research. Since 2008, the CACR has continued to draw researchers from across campus, Canada and internationally to engage in and disseminate applied research, facilitate graduate education, and innovate in the areas of species, ecosystem and landscape-level conservation planning under the directorship of Peter Arcese and Sarah Gergel as scarce funds allow.

HIGHLIGHTS OF 2010 – 11

Media Training Leads CACR Researchers to 'Escape from the Ivory Tower'

Most scientists recognize the critical importance of communicating the results of their research to the general public, media and other audiences if they hope to influence public policy and facilitate the uptake of new discoveries. However, few established or new scientists have the background or training to be as effective as they could, given that opportunities for media interactions are often limited, occasionally intimidating and typically arise short on short notice. Thus, to improve the effectiveness of communicating conservation-related research at UBC, the CACR and Faculty of Forestry hosted Nancy Baron and four internationally-known science journalists in a two-day event featuring an evening lecture by Baron and an intensive workshop including four leading science journalists, all aimed at mentoring conservation scientists in techniques designed to improve their ability to 'get out of the Ivory Tower' and become more effective communicators to media professionals and the public. Nancy Baron, lead trainer for the Aldo Leopold Leadership Program, has won many accolades internationally for her accomplishments in science communication, and is the author of the recently published 'Escape from the Ivory Tower: A Guide to Making Your Science Matter' (Island Press). Five graduate students and 15 faculty received intensive media training that has so far helped contribute to three interviews on CBC Radio's highly popular 'Quirks and Quarks' weekly science hour, including interviews by Peter Arcese on the impacts of abundant deer on biodiversity, Nicholas Coops on the future of lodgepole pine in BC, and PhD candidate Erica Eliason on the future of Fraser River Salmon, all of which can be heard by searching the Quirks & Quarks archive (www.cbc.ca/news/technology/quirks-quarks-blog/archives.html).

Werner and Hildegard Hesse Graduate Research Award in Field Ornithology

The CACR is proud to share honors in awarding \$12,000 annually to outstanding graduate students engaged in field ornithology as a consequence of a generous bequest to UBC by Werner Hesse on the advice of Peter Arcese. Werner and Hildegard Hesse were avid participants in, and patrons of, wildlife research. Their passion for wild birds was inspired by night classes given by Ian McTaggart-Cowan in the 1950s. The Hesses became leaders in amateur ornithology and generous supporters of long-term studies of bird populations in the Georgia Basin. The Hesses surveyed birds in the Canadian arctic, compiled BC's Christmas Bird Counts for over 20 years, and had a special concern for the harmful effects of human development on bird habitats and populations. The CACR was delighted to contribute to the development of this endowed award and we encourage you to visit the Hesse webpage <http://hesse-award.sites.olt.ubc.ca/>.

Training Global Stewards to Incorporate Local Knowledge

CACR hosted a short course with the Stockholm Resilience Centre (SRC) in Sweden in October 2010 to examine tools for understanding spatial dynamics of social-ecological systems and to improve learning materials for the capstone course of our major in Global Perspectives. Sarah Gergel also worked with researchers at SRC to develop and trial lab exercises on spatial resilience, graph theory and social networks for inclusion in the upcoming, second edition of the Learning Landscape Ecology. Several PhD students from UBC traveled to Stockholm to participate in the course, supported by UBC's TLEF program, and deliver a series of global case studies which incorporate and support local and indigenous perspectives on resilience and ecosystem services into our curricula.

Research Groups News

Climate Change and Biodiversity

Fred Bunnell and colleagues continue work on climate change and biodiversity issues, and to assist BC Ministries and the forest industry with application of the Provincial Conservation Framework. Fred received special honors for this work as the 2010 recipient of the Ian McTaggart-Cowan Award for Excellence in Biology (Association of Professional Biologists) and for the Best Article of 2010 for BC Forest Professional.

Conservation and Development in Africa

Rob Kozak, Joleen Timko and colleagues continued to develop AFRICAD to pursue conservation-based approaches addressing poverty alleviation and local livelihood development in forested areas of significant biodiversity value in sub-Saharan Africa. Visit www.africad.ubc.ca for full details.

Remote Sensing, Biodiversity and Terrestrial Ecosystem Mapping

Nicholas Coops continues to lead the application of remote sensing to forest growth and biodiversity monitoring, including mapping mountain pine beetle damage and biodiversity using satellite data, as detailed in over 30 journal publications in 2010. Of recent interest is the integration of hyperspectral remote sensing and LIDAR data to produce a TEM-based classification of Gulf Islands National Park Reserve in BC, and its application to predicting species avian richness and mapping of rare plant communities. In collaboration with Coops, the Gergel Lab applied imagery from the QuickBird high-spatial resolution satellite to enhance TEM in coastal BC and explore the role of TEM misclassification error on estimates of ecosystem productivity. Catch Nicholas' Quirks & Quarks interview on the future of pines at www.cbc.ca/quirks/episode/2011/03/05/march-5-2011/

Wildlife Biodiversity after the Bark Beetle Epidemic

Since 1995, Kathy Martin and students have studied the ecology of high biodiversity, interior mixed forests by focusing on the population dynamics of cavity-nesting bird communities and forest health. Kathy and colleagues produced 7 journal papers in 2010 on these topics and took their models global to examine similarities in cavity communities in tropical and temperate forests, and to document the dynamics of cavity nesters populations in post-beetle epidemic forests.

Belowground Ecosystem Group's Soil Biodiversity Research

Sue Grayston, Cindy Prescott, Suzanne Simard, Chris Chanway and students continue to demonstrate links between the composition and diversity of soil microbial communities and key processes in carbon and nutrient cycling in forest ecosystems, including fertilizing forests as a means of increasing sequestration of carbon in soil, recreating a functioning forest soil in reclaimed oil sands sites in Alberta, and using stable isotope probing to identify keystone species in soil food webs. The group produced more than 20 research papers in 2010 on these topics, including papers in *Global Change Biology*, *New Phytologist* and *Journal of Ecology*.

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. See the details of 12 recent papers on these topics at <http://faculty.forestry.ubc.ca/richardson/home.html>.

Centre for Forest Gene Conservation

Sally Aitken and colleagues at the Centre study the population and ecological genetic structure of indigenous forest tree species to assess the current degree of genetic conservation in nature reserves and collections, and to evaluate genetic diversity in populations of forest trees to meet current and future environmental challenges. The CFGC is also the home of the climate model ClimateBC now being used by researchers internationally to conduct research on climate change mitigation strategies and conservation planning, and to predict the fate of BC's native tree populations and ecological zones in a rapidly changing climate. See www.genetics.forestry.ubc.ca/cfcg/ for their most recent products.

Salmon Migration and Fish/Forestry Research

Scott Hinch and colleagues use physiological assays, telemetry and lab experiments to study salmon migration and swim performance to reveal limitations on ocean and river survival. Recent and long-term field experiments by this research group have contrasted south coastal and northern interior stocks to study the impacts of climate change fish populations and the influence of recreational fishers on in-river survival. Catch PhD student Erica Eliason's Quirks & Quarks interview on the future of Fraser River sockeye at www.cbc.ca/quirks/episode/2011/04/02/april-2-2011/.

Sustainable Forest Management Research Laboratory

Led by Dean John Innes, this lab pursues interdisciplinary research on sustainable forest management in human-modified and natural systems. Projects in Canada, China, Brazil, Mexico, Australia and South Africa focus on forest certification, criteria and indicators, effectiveness monitoring, climate change, cumulative impact assessment, geomorphologic processes, biodiversity and social and cultural indicators for resource-dependent and First Nation communities. For full details see <http://sustain.forestry.ubc.ca/>.

The Genetic Data Centre

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

**Centre for Applied
Conservation Research**
Forest Sciences Centre
3004-2424 Main Mall
Vancouver, BC V6T 1Z4

Fax: 604.822.5410
www.forestry.ubc.ca/conservation



Bruce Larson
AB, MFS, PhD
Chair, Research Forests
Advisory Committee
604.822.1284
bruce.larson@ubc.ca

Cheryl Power
BSF, RPF
Resident Forester
Malcolm Knapp
Research Forest
cheryl.power@ubc.ca

Cathy Koot
BSc, RPBio
Research Coordinator
Alex Fraser Research
Forest
cathy.koot@ubc.ca

Melanie Karjala
MNRES
Research Coordinator
Aleza Lake Research
Forest
karjala@unbc.ca

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

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

The location of the forests, covering eight diverse biogeoclimatic subzones and 3 tenure systems, offers a variety of research and education opportunities.



MALCOLM KNAPP FOREST
Paul Lawson
BSF, MBA, RPF
Director, University Research Forests
paul.lawson@ubc.ca

ACHIEVEMENTS IN 2010 – 11

- Initiated 13 new research projects.
- Employed 1 forestry undergraduate student on a 4-month internship, and one forestry graduate student on a 4-month term.
- Reduced timber harvest to 12,636 m³, a 58% reduction over 2009.
- Increased Loon Lake facility use to 19,903 overnight stays in 2009 – an increase of 2% from 2009.
- Hosted the Faculty's Spring Field School in April and Conservation Field School in October.
- Hosted over 400 children and over 300 volunteers at the seventh Canadian Cancer Society Camp Goodtimes held at Loon Lake.
- Launched website and completed brochure for Gallant sawmill.
- Milled over 350,000 board feet of lumber at our sawmill facility, a decrease of 22% from 2009.
- Completed installation of a wood fired dry kiln to add value to mill products.
- Completed silviculture surveys on 88 ha, brushing and deer protection installation on 8.8 ha, and planting of 61,680 trees on 41 ha.
- Upgraded trails and signage at the forest gate with grant funding from BC Hydro.
- Obtained grant funding for the investigation of bioenergy heat and power at Loon Lake.
- Reduced full time staff from 8 to 4.

PLANS FOR 2011-12

- Increase Loon Lake visitor days to over 20,000.
- Begin using social media (Facebook and Twitter) for Loon Lake marketing activity.
- Increase timber harvest levels to 27,000 m³.
- Prepare a Woodlot License Plan for Woodlot 37.
- Prepare a carbon management strategy for the Forest.
- Hire one full time staff position to supervise forest operations.
- Investigate and pursue bioenergy opportunities for Loon Lake.
- Install a log lathe at the Gallant Mill to produce turned poles.



ALEX FRASER FOREST
Ken Day
BScF (Hons), MF, RPF
Manager
ken.day@ubc.ca

ACHIEVEMENTS IN 2010 – 11

- Initiated 10 new research projects.
- Recorded 343 contact days for extension with 609 attendees, including Fall Field School.
- Provided 7 tours and 4 presentations for researchers, professionals, students, and the public. Organized a province-wide tour for forest researchers from Sweden.
- Hosted two Finnish volunteer interns and employed a 2.5-month technician.
- Continued collaboration with the BC Community Forest Association to provide extension services and promote Faculty expertise regarding forest management planning, forestry administration, data management, timber sales and wood products manufacturing.
- Initiated forest cover inventory project.
- Silviculture: Fuel management treatments 14.2 ha; silviculture surveys 73.5 ha; free growing declaration 60.4 ha.

- Maintained recognition for consulting expertise regarding woody biomass management for biofuels, as well as urban/wildland interface fire hazard reduction planning and implementation. Extension, education and research services also in demand.
- Continued managing the application process for the Williams Lake Community Forest in cooperation with the Williams Lake Indian Band.
- Participated on boards for the Gavin Lake Forest Education Society, local Invasive Plant Committee, and Southern Interior Silviculture Committee.

PLANS FOR 2011-12

- Continue diversifying revenue streams, including sales, services and funded projects.
- Continue to provide consulting services in fuel reduction treatments and select projects.
- Employ two summer interns and report on several long-term research projects.
- Submit application and management plan for Williams Lake Community Forest.
- Work with the BC Community Forest Association to provide extension services and linkages to the Faculty of Forestry for Community Forests.
- Renew some timber harvesting, including the overstory removal of a uniform shelterwood (20 years after initial entry).
- Promote research opportunities.



ALEZA LAKE FOREST

Michael Jull
BSF, MSc, RPF
Manager
jullm@unbc.ca

ACHIEVEMENTS IN 2010 – 11

- Established 8 new research projects.
- Re-measured 16 growth-and-yield research plots dating back to 1957.
- Finalized site plans and field layout for construction of 1.7 km of new mainline forest road, and a new bridge installation. Completed initial planning and field work for the final 3 km of a north-south connector road.
- Maintained and upgraded 7 km of interpretive trails for ongoing use by regular field tours and forestry classes.
- Planted 128,300 seedlings including spruce, Douglas-fir; lodgepole pine, and western larch for reforestation of 90 hectares.
- Implemented first full-scale operational plantings of "Class A" western larch at the ALRF, to examine assisted-migration feasibility for this species.
- Completed a group-shelterwood teaching / research site in a spruce-subalpine fir stand.
- Completed a single-tree selection harvesting operational trial in a major riparian zone.

- Received authorization for new AAC (annual allowable cut) of 19,000 m³ per year from BC Min of Forests and Natural Resource Operations.
- Harvested 18,100 m³ in the winter 2009/10 harvest season, including 5% (905 m³) via partial cut systems and 95% (17,150 m³) via clearcut with reserves systems.

PLANS FOR 2011 – 12

- Commence two new PhD field research projects.
- Complete new Hansard Creek bridge installation and "Ridge Road" connector-road construction.
- Upgrade trail signage on 4 km of interpretative trails.
- Undertake year-15 remeasurement of the spruce uniform-shelterwood trial, established in 1995/6.
- Commence black spruce and tamarack (*Larix laricina*) seedling production for spring 2012 planting trial on cooler wetter sites.
- ALRF Management Plan updates and renewal.

Research Forests harvesting 2010

		Knapp	Fraser	Aleza	Total
Logging	m ³ ha	8,905 14	5,047 13	14,685 55.0	28,637 82.0
Commercial Thinning/ Partial Cutting	m ³ ha	3,340 10	0 0	905 8.1	4,245 18.1
Road Right-of-Way	m ³	0	0	2,200 8.0	2,200 8.0
Salvage	m ³	391	161	0	552

Malcolm Knapp Research Forest

PO Box 21120
14500 Silver Valley Road
Maple Ridge, BC V2X 1P7

Phone: 604.463.8148
Fax: 604.463.2712

Alex Fraser Research Forest

72 S 7th Avenue
Williams Lake, BC V2G 4N5

Phone: 250.392.2207
Fax: 250.398.570

Aleza Lake Research Forest

3333 University Way
Prince George, BC V2N 4Z9

Phone: 250.960.6674/6339

ALONGSIDE 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, Sally

- Associate Editor, Tree Genetics and Genomes
- Member, Editorial Board, Evolutionary Applications
- Member, North American Forestry Commission Forest Genetic Resources Working Group

ARCESE, Peter

- Director, The Nature Trust of BC
- Councilor, American Ornithologists Union
- Associate Editor, Journal of Avian Biology
- Advisor, Nature Conservancy of Canada, Georgia Basin Conservation Assessment

AVRAMIDIS, Stavros

- Member, Editorial Board, Drying Technology
- Member, Editorial Board, Wood Material Science and Engineering
- Member, Editorial Board, Maderas: Cientia Y Tecnologia
- Member, Editorial Board, Prerada Drveta (Wood Processing)
- Member, Editorial Board, International Wood Products Journal
- Member, External Evaluation Committee, Greek Ministry of Education – TEI KAVALA/Department of Forestry
- Member, External Evaluation Committee, Greek Ministry of Education – TEI LARISA/Department of Wood and Furn
- Member, Society of Wood Science and Technology Education Committee

BUNNELL, Fred

- **Ian McTaggart-Cowan Award for Excellence in Biology**
- **Best Article of 2010 Award for BC Forest Professional**

CARROLL, Allan

- Chaire Internationale, Universite Libre de Bruxelles / Universite d'Europe
- Member, European Food Safety Authority
- Member, North American Forest Insect Work Conference Steering Committee
- Member, Adjunct Faculty University of Northern BC
- Member, Adjunct Faculty, University of Victoria

COOPS, Nicholas

- Canada Research Chair in Remote Sensing
- Member, Adjunct Faculty Oregon State University
- Director, UBC University Sustainability Initiative, Teaching and Learning Office
- Editor-in-Chief, Canadian Journal of Remote Sensing

EL-KASSABY, Yousry

- Coordinator, IUFRO Division 2 Physiology and Genetics
- Associate Editor, Canadian Journal of Forest Research
- Associate Editor, International Journal of Forestry
- Editor, Forests and Genetically Modified Trees (FAO Report)
- Reviewer, Molecular Ecology

EVANS, Phil

- Visiting Fellow, Dept Applied Mathematics, The Australian National University
- Member, Editorial Board, Wood Science and Technology
- Member, Editorial Board, Forest Products Journal
- Member, Editorial Board, International Wood Products Journal
- Member, Research Committee, Wood-based Composites Centre
- Member, Executive Council International Research Group on Wood Protection
- Convenor, IRG Working Party 45 Coatings and Surface Aspects

GERGEL, Sarah

- Member, Editorial Board, Landscape Ecology

GRAYSTON, Sue

- Canada Research Chair in Soil Microbial Ecology
- Member, Associate Editor, Soil Biology and Biochemistry
- Associate Editor, Canadian Journal of Forest Research
- Member, Evaluation Group, NSERC Appeal Advisor Life Sciences

GUY, Rob

- Senior Director, Canadian Society of Plant Physiologists
- Secretary, BC Forest Genetics Society
- IUFRO Division Deputy (Physiology and Genetics)
- Managing Editor, TREES Structure and Function
- Member, IUFRO Extended Board

HAMELIN, Richard

- Senior Editor, Phytopathology
- Section Editor, Canadian Journal of Plant Pathology

INNES, John

- Associate Editor, Environmental Conservation
- Member, Editorial Advisory Board Forest, Snow and Landscape Research
- Associate Editor, Dendrochronologia
- Member, Editorial Board Forestry
- Member, Editorial Advisory Board, International Forestry Review
- Associate Editor, Journal of Environmental Management
- Member, Board of Experts, Committee for Research Evaluation, Italy
- Member, C-Questor Scientific Advisory Committee
- Member, Commonwealth Forestry Association – Publications Committee
- Member, Commonwealth Forestry Association Program Committee
- Member, FORREX International Committee
- Member, Interdisciplinary Committee, World Cultural Council
- Member, IUCN/SSC Sustainable Use Specialist Group
- Member, IUFRO 2010 Congress Scientific Committee
- Member, IUFRO Executive Board
- Member, IUFRO Honours and Awards Committee
- Member, IUFRO Management Committee

KADLA, John

- **Hayashi Jisuke Award**
- Canada Research Chair in Advanced Biomaterials
- Editor, Journal of Wood Chemistry and Technology
- Fellow, International Academy of Wood Science
- Member, Executive Committee, ACS CELL Division
- Associate Editor, Holzforschung
- Member, ISETPP Scientific Program Committee
- Member, NSERC EG1511 Committee
- Member, INWFPPC Scientific Program Committee

KOZAK, Rob

- **Winner, Top Teacher Award (Department of Wood Science, UBC)**
- Member, Canadian Institute of Forestry
- Member, Commonwealth Forestry Association

- Member, Forest Products Society
- Fellow, Institute of Wood Science
- Associate Editor, Canadian Journal of Forest Research
- Member, International Union of Forest Research Organizations, Working Group 5.10.100
- Member UN Economic Commission for Europe, Team of Specialists on Forest Products Marketing
- Member, Alternative Tenure and Enterprise Models Working Group, Rights and Resources Initiative
- Member, Forest Products Society, Forest Products Marketing Technical Interest Group
- Member, Editorial Board Canadian Journal of Forest Research
- Member, Editorial Board, Journal of Forest Products Business Research

KRZIC, Maja

- Member, Organizing Committee for Canadian Society of Soil Science and American Society of Soil Science

LAM, Frank

- Member, Canadian Society of Civil Engineering
- Member, American Society of Civil Engineering
- Member, Association of Professional Engineers and Geoscientists of BC
- Fellow, International Academy of Wood Science

LARSON, Bruce

- External Scholar (Dalhousie University)

LEMAI, Valerie

- **Killam Graduate Teaching Prize**
- Associate Guest Editor, Canadian Journal of Forest Research
- Associate Editor, Forest Science
- Associate Editor, The Forestry Chronicle
- Co-ordinator, IUFRO 401

LYONS, Kevins

- Member, Editorial board, International Journal of Forest Engineering

MANSFIELD, Shawn

- Coordinator, IUFRO Working Party 20406 – Molecular Biology of Forest Trees
- Member, Tree Physiologist Award Committee, Canadian Society of Plant Physiologist
- Associate Editor, BioEnergy Research
- International Advisor, Holzforschung
- Associate Editor, Frontiers in Plant Biotechnology

MARTIN, Kathy.

- Associate Editor, Avian Conservation and Ecology
- Associate Editor, Studies in Avian Biology

- Chair, 5th North American Ornithological Conference
- Member (representative for Canada), International Ornithological Committee
- Member, 2014 Scientific Program Committee, International Ornithologist's Union
- Member of Council, Canadian Society of Ecology and Evolution
- Member, National Science Advisory Council, Bird Studies Canada
- Member, Williamson's Sapsucker Species at Risk Recovery Team, Canada

MARSHALL, Peter

- Past President, Canadian Institute of Forestry
- Associate Editor, Forestry Chronicle

MITCHELL, Stephen

- Editor, Forestry – An International Journal of Forest Research
- Coordinator, IUFRO Unit 8.03.06., Wind and Trees

MOORE, Dan

- **Canadian Society for Hydrological Sciences, Outstanding Achievement Award**
- Chair, Canadian National Committee for the International Association of Hydrological Science
- National Representative, International Association of Hydrological Science
- Associate Editor, Canadian Water Resources Journal
- Member, Steering Committee North American Stream Hydrographers

PRESCOTT, Cindy

- Associate Editor, Ecosystems
- Chair, Environment Review Panel, Academy of Finland
- Member, Future Forest Ecosystems Scientific Council
- Deputy Editor-in-Chief of Canadian Science Publishing

RICHARDSON John S

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

RITLAND, Kermit

- Associate Editor, AOB Plants
- Associate Editor, Heredity

RUDDICK, John

- **CSA 20 Year Award**
- Member, IT Committee, International Research on Group Wood Protection
- Member, ISO Study Group
- Member, American Wood Protection Association

- Technical Committee Member, American Wood Protection Association
- Honorary life Member, Canadian Wood Preservation Association
- Vice Chair, CSA 080 Wood Preservation Technical Committee
- Member, Forest Products Society
- Member, Royal Society of Chemistry

SHEPPARD, Stephen

- Member, Editorial Review Board for Landscape Journal
- Chair and Theme Leader, Social Mobilization, Pacific Institute for Climate Solutions
- Member, Real Estate Institute of BC, Climate Change Advisory Panel

SIMARD, Suzanne

- Member, Editorial Board, Forest Ecology and Management
- Executive, Southern Interior Silviculture Committee

SMITH, Greg

- Member, ASTM International Technical Committees D1430 and D0703
- Member, Education Committee for the Society of Wood Science and Technology

SOWLATI, Taraneh

- Member, Council of Canadian Operational Research Society
- Member, Canadian Operational Research Society
- Membership Committee Chair, Canadian Operational Research Society
- President, Vancouver Chapter, Canadian Operational Research Society
- Member, MITACS College of Reviewers
- Senior Member, Institute of Industrial Engineers
- Member, Association of Professional Engineers and Geoscientists in BC
- Member, Institute of Operations Research and Management Sciences
- Member, Editorial Board, International Journal of Data Analysis Techniques and Strategies
- Member, Editorial Board, International Journal of Applied Management Science

SULLIVAN, Tom

- Associate Editor, Canadian Journal of Forest Research
- Associate Editor, Wildlife Research

TINDALL, David

- Editor, ASA Digital Library for Material on Social Networks
- Associate Editor, Korean Journal of Canadian Studies



Cindy E Prescott

BSc (Hons), MSc, PhD
Associate Dean
Graduate Studies and Research
604.822.4701
cindy.prescott@ubc.ca

RESEARCH FUNDING IN THE Faculty of Forestry continues to be impacted by the economic troubles of the past few years, particularly funding from provincial programs. Between April 1, 2010 and March 31, 2011 members of our faculty were awarded a total of \$10.9 million in research funding. This represents a decrease of 10.7% over the previous year.

Federal funding was up by 12.0% and represented 57.4% of our total funds received. Tri-Council (NSERC and SSHRC) awards were up by 18.4%. Members of the faculty held 14 NSERC Strategic grants, 2 Collaborative Research and Development grants, 1 Industrial Research Chair, 31 Discovery grants, 2 Engage grants, 1 Interaction grant and 4 SSHRC grants for a total Tri-Council funding of \$3.7 million. Natural Resources Canada, Environment Canada and Parks Canada contributed a combined total of \$1.37 million in support of 18 research projects. Canada Research Chair awards (Coops, Grayston, Kadla, Mansfield) contributed another \$400,000. Agriculture and Agri-Food Canada provided \$398,113 in support of the Agriculture Bioproducts Innovation Program (Saddler).

Provincial funding declined by 42.8% in 2010/11. Overall provincial funding was \$3.04 million, down from \$5.32 million in the previous year. Provincial funding represented 27.9% of our total research funding (down from 43.5% of our overall funding in the previous year). Almost one-third of our provincial funding was in the form of research awards through Genome BC (7 projects totaling \$923,394). The Future Forests Ecosystem Scientific Council (FFESC) – a cooperative council comprising representatives of the Ministry of Forests, Lands and Natural Resource Operations, the University of British Columbia and the University of Northern British Columbia – funded 5 projects for a total of \$659,806. The FIA-Forest Science Program (FSP) funded 7 projects, down from 22 in the previous year for a total of \$216,841 (a decrease of 80.2% over the previous year). Forestry Innovation Investment supported 2 projects for a total of \$236,775, a drop of 59.6% from funds received in 2009/10.

Private funding support for research contributed \$1.29 million through 31 projects. The largest industry supporters were Syncrude Canada Ltd who funded one project (Larson) and BC Oil and Gas who funded one project (Innes). Overall, private funding for research was up by 36.5% over the previous year.

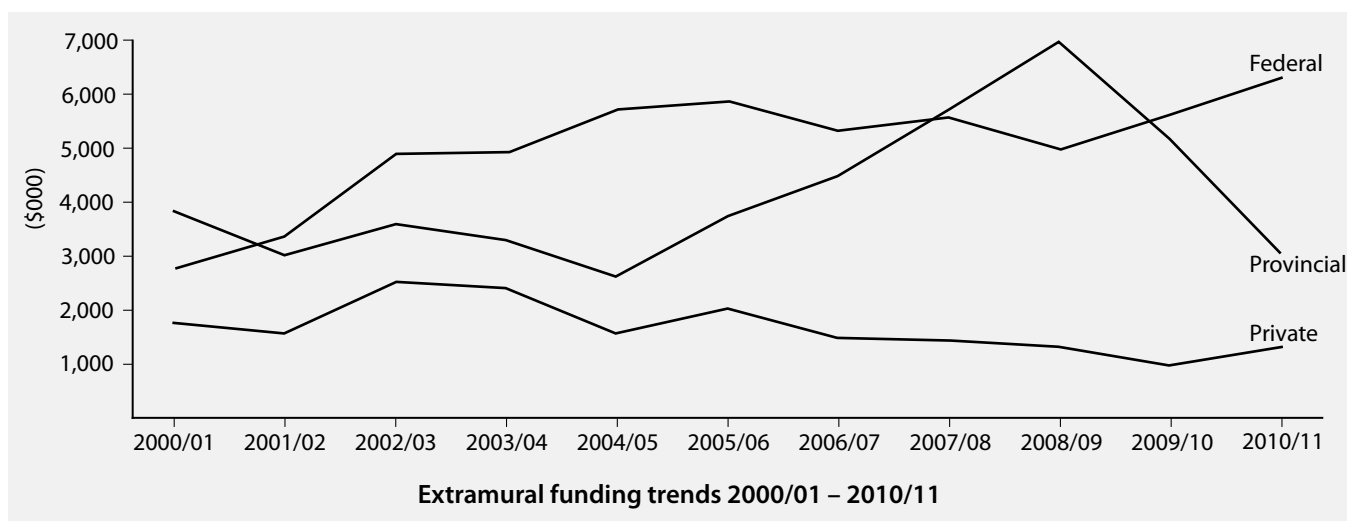
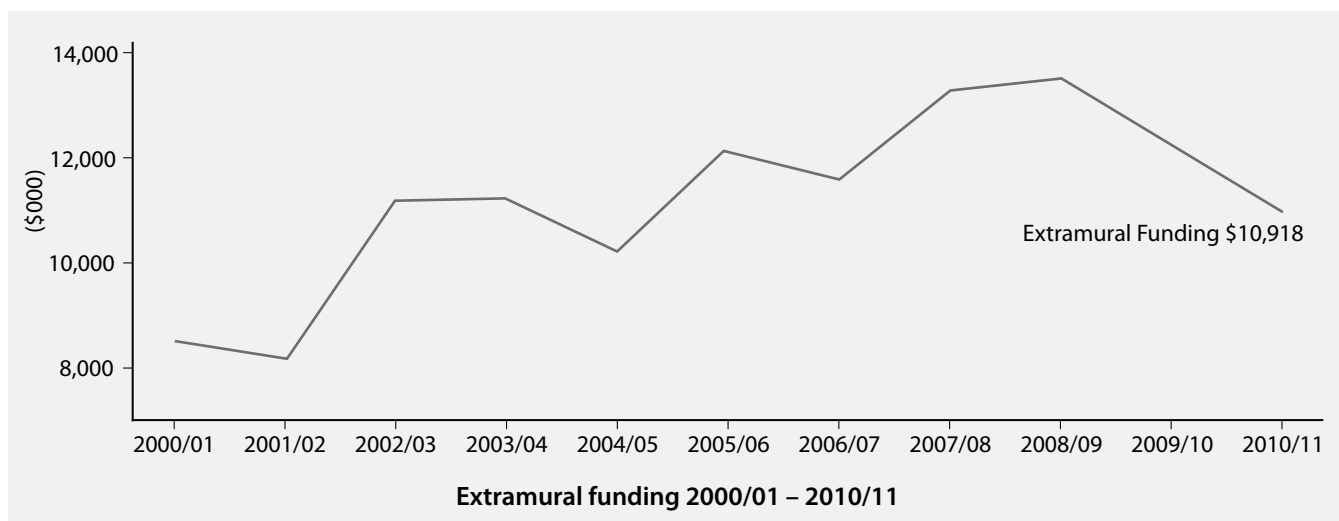
International funds in support of research were down by 12.9% for a total of \$323,545 backing 4 projects (down from 13 projects in the previous year).

We also received endowment income of \$1.08 million (down by 10.9% from the previous year). This funding is provided by endowments originally set up by Forest Renewal BC, as well as from private sectors.

Extramural funding sources 2010 – 11*

Source	\$000	Count	%
Federal			
Tri-Council	3,78,805	68	34.2
Natural Resources Canada	933,866	14	8.6
Environment Canada & Parks Canada	437,500	4	4.0
Canada Research Chairs	400,000	4	3.7
ABIP	398,113	1	3.6
Network of Centres for Excellence	257,750	8	2.4
CFI/KDF	101,213	5	0.9
Other	9,950		0.1
<i>Subtotal</i>	<i>6,267,197</i>	<i>105</i>	<i>57.4</i>
Provincial			
Genome BC	923,394	7	8.5
FFESC	659,806	5	6.0
BC Ministry of Forests & Range	432,804	8	4.0
Forestry Innovation Investment	236,775	2	2.2
Forest Science Program	216,841	7	1.0
PICS	153,000	3	1.4
Forest Genetics Council	122,000	1	1.1
SRD Alberta	100,000	1	0.9
BC Innovation Council	51,700	1	0.5
Other	144,656	9	1.3
<i>Subtotal</i>	<i>3,040,976</i>	<i>44</i>	<i>27.9</i>
Private			
Industry	732,225	21	6.7
Dalhousie	378,500	1	3.5
Other	175,995	9	1.6
<i>Subtotal</i>	<i>1,286,720</i>	<i>31</i>	<i>11.8</i>
International			
	323,545	4	3.0
Total	10,918,438	184	100.0

* Excluding endowments.



OUTCOMES

In the past year faculty members authored 208 articles in 133 peer-reviewed journals.

Faculty members (Coops, Guy, Hamelin, Kadla, and Mitchell) serve as senior editors for 5 international peer-reviewed journals (Canadian Journal of Remote Sensing, TREES – Structure and Function, Phytopathology, Journal of Wood Chemistry and Technology and Forestry: An International Journal of Forest Research). One faculty member (Prescott) serves as the Deputy Editor-in-Chief of Canadian Science Publishing (formerly National Research Council Press). As well, 18 faculty members serve as associate editors of 22 different journals and 8 individuals serve on editorial boards of 16 journals across the spectrum of forest-related journals.

Faculty members made presentations at over 70 scientific conferences outside Canada, including USA, Italy, Finland, Vietnam, China, Belgium, Spain, Sweden, Austria, Czech Republic,

France, Japan, Brazil, Argentina, South Africa and Germany. Fifty-one talks were given to professional groups within Canada.

During the past year 14 faculty members welcomed 33 visiting researchers from 14 countries. Eighteen faculty members hosted a total of 43 post-doctoral fellows from 17 countries.

Nineteen of our faculty members were engaged in a total of 59 grant reviews for outside funding agencies during the year.

During the past year, researchers in the Faculty of Forestry were cited 22 times in the media. These research stories included diverse topics such as deer populations on the Gulf Islands, declines in Fraser River sockeye salmon, fungal networks, wild-fires in Alberta, tracking sunshine in North Vancouver, fungal genetics of mountain pine beetle, climate change, power policy and the competitiveness of BC's sawmills.

The following list reflects research funding obtained between April 1, 2010 and March 31, 2011.

AITKEN, Sally

- Proposal to establish a Centre for Forest Gene Conservation at the University of British Columbia (**BCMof&R \$165,000**)
- Climate response of western red cedar and western larch seed sources using controlled climate chambers (**BCMof&R \$42,219**)
- Development of a climate-based seed transfer system for changing climates (**BCMof&R \$53,508**)
- Predicting the capacity of conifer populations to adapt to new climates using ecologically relevant genetic markers (**NSERC \$44,000**)
- Conifer forest health genomics (**co-investigator**) (**Genome British Columbia, \$799,183**)

ARCESE, Peter

- Causes and declines in western grebes (**Environment Canada \$50,000**)
- Phenotypic, genetic and demographic responses to environmental variation and inbreeding in the song sparrow (**NSERC \$61,000**)

AVRAMIDIS, Stavros

- Discovery Accelerator Award (**NSERC \$40,000**)
- Assessment and optimization of radio frequency heating technology as treatment to protect Canadian green log and timber exports by killing microbes and other pests (**co-investigator**) (**NSERC \$132,000**)
- Modeling of wood thermo-sorptive behavior with artificial neural networks (**NSERC \$28,000**)

BOHLMANN, Joerg C

- Genomics-enhanced forecasting tools to secure Canada's near-term lignocellulosic feedstock supply for bioenergy using the mountain pine beetle *Pinus* spp system (**co-investigator**) (**Genome British Columbia, \$169,767**)
- Conifer forest health genomics (**co-investigator**) (**Genome British Columbia, \$799,183**)

BREUIL, Colette

- Exploring how the mountain pine beetle fungal associate *Ophiostoma clavigerum* overcomes lodgepole pine defenses (**NSERC \$30,000**)
- Assessment and optimization of radio frequency heating technology as treatment to protect Canadian green log and timber exports by killing microbes and other pests (**co-investigator**) (**NSERC \$132,000**)
- Genomics-enhanced forecasting tools to secure Canada's near-term lignocellulosic feedstock supply for bioenergy using the mountain pine beetle-*Pinus* spp. system (**co-investigator**) (**Genome British Columbia, \$169,767**)

BULL, Gary

- Tesso Nilo project design document and carbon market plan (**World Wildlife Fund Indonesia \$27,600**)
- Adaptation of harvested wood products from climate action reserve's forest project protocol v.3.2 to Canadian forest types (**MITACS/NCE \$15,000**)
- Genomics-enhanced forecasting tools to secure Canada's near-term lignocellulosic feedstock supply for bioenergy using the mountain pine beetle-*Pinus* spp. system (**co-investigator**) (**Genome British Columbia, \$169,767**)
- Value chain optimization (**co-investigator**) (**NSERC \$60,643**)

BUNNELL, Fred

- Future vegetation structure and vertebrate distributions based on changes in moisture balance and temperature (**BCMof&R \$27,570**)

CARROLL, Allan

- Industrial Research Chair in Forest and Forest Products Entomology (**BCMof&R \$75,000**)
- Projection of future insect outbreak risk and impacts within British Columbia's forests (**BCMof&R \$15,000**)

CHAN-MCLEOD, Ann

- Integrating climate change adaptation strategies with sustainability and socioeconomic for the Quesnel Timber Supply Area (**FFESC \$98,013**)

CHANWAY, Chris

- Nitrogen balance in pine forests: comparing the efficacy of nitrogen fixing endophytes above and below ground (**NSERC \$15,000**)

CLARK, Timothy

- The impact of rising river temperatures on the migration, reproduction and conservation of sockeye and coho salmon (**Canadian Wildlife Federation \$25,470**)

COOPS, Nicholas

- Image analysis to support grizzly bear mountain /pine beetle research (**Foothills Research Institute \$50,000**)
- Estimate the above ground biomass and carbon content of the boreal forest of NA (**Caelum Research Corporation \$13,374**)
- Evaluation of LiDAR-derived estimates of tree and stand parameters as predictors of fibre quality (**NRC \$60,000**)
- Remote sensing of forest functioning and structure (**CFI \$700**)
- Development of pan-boreal indicators of environment diversity for assessing current protected area representativeness and future protection initiatives (**Ivey Foundation \$50,000**)
- CFI infrastructure operating fund (**CFI \$17,775**)
- Development of BC-wide biodiversity indicators using earth observation data (**British Columbia Innovation Council \$51,700**)
- Investigating the potential of satellite synthetic aperture radar technology to support forest carbon budget estimation (**NSERC \$20,750**)
- Mobile remote sensing of fire fuels in the wildland urban interface (**NSERC \$22,898**)
- LiDAR plots: A new opportunity in large area forest monitoring (**CFS \$65,000**)
- MPB: Mapping species stress and vulnerability (**CFS \$30,000**)
- Production of historic biospace national indicators of sustainability and application to moose and cariboo (**CFS \$30,000**)
- Assessing maintenance of productive capacity of boreal forest following disturbance using MODIS GPP and Landsat (**CFS \$14,720**)
- Assessing maintenance of productive capacity of boreal forest following disturbance using MODIS GPP and Landsat (**Indian and Northern Affairs Canada \$9,950**)

- Canada Research Chair in Remote Sensing (**Canada Research Chairs \$100,000**)
- Detection of vegetation canopy stress dynamics using integrated near-ground and airborne remote sensing data over coastal and boreal forests (**NSERC \$31,500**)

EL-KASSABY, Yousry

- Industrial Research Chair: Applied Forest Genetics and Biotechnology (**Forest Genetics Council of BC, NSERC, Johnson's Family Forest Biotechnology Fund, industry \$486,000**)
- Molecular breeding using forest trees as a model (**NSERC \$39,000**)
- Optimized populus feedstocks and novel enzyme systems for a British Columbian bioenergy sector (**co-investigator**) (**Genome British Columbia \$449,360**)

EVANS, Phil

- Plasma treatment to improve the surface finishing characteristics of boreal wood species (**NSERC \$22,625**)
- Improving the performance of natural finishes on Canada's boreal wood species (**NSERC \$19,375**)
- Integrated approach to creating durable clear finishes for wood (**NSERC \$71,000**)
- Wood products processing education (**AUCC \$33,423**)
- For ValueNet: Improving the performance of clear finishes on Canada's boreal wood species: Fibre-based and solid value-added wood products recovery modelling (**NSERC \$11,200**)
- Wavelength dependent photodegradation of wood (**NSERC \$30,030**)
- Development of a simple test to predict the surface cracking of coatings on cabinets (**NRC \$49,940**)

GERGEL, Sarah

- Multi-scale assessment of river-floodplains (**NSERC \$17,500**)

GRAYSTON, Sue

- Canada Research Chair in Soil Microbial Ecology (**Canada Research Chairs \$100,000**)
- Microbial diversity and function in forest soils and the influence of rhizosphere carbon flow (**NSERC \$71,000**)
- Green Crop Research Network, transforming plant carbon into soil carbon: process level controls on carbon sequestration (**co-investigator**) (**NSERC \$9,000**)
- Stable isotope probing and molecular mining to ascertain keystone, functioning microbes in forests (**UBC Killam Faculty Research Fellowship \$3,000**)

GUY, Rob

- Comparative physiology of plant adaptation; resource acquisition and constraints of growing season length in balsam poplar from temperate, boreal and arctic environment (**NSERC \$82,000**)
- Optimized populus feedstocks and novel enzyme systems for a British Columbian bioenergy sector (**co-investigator**) (**Genome British Columbia \$449,360**)

HAMELIN, Richard

- Risk assessment of *Septoria musiva* (**BCMof&R \$36,750**)
- Elucidation of rust life-cycle using molecular approaches (**NSERC \$20,000**)

- Poplar and cereal rust comparative genomics: Identification of pathogen determinants to prevent and predict epidemics (**Genome British Columbia \$145,112**)
- Genomics-enhanced forecasting tools to secure Canada's near-term lignocellulosic feedstock supply for bioenergy using the mountain pine beetle *Pinus* spp system (**co-investigator**) (**Genome British Columbia, \$169,767**)

HARSHAW, Howard

- Social attitudes toward hydrocarbon development in British Columbia (**BC Oil and Gas Commission \$98,000**)

HINCH, Scott

- Increasing the sustainability of multi-sector pacific salmon fisheries in coastal rivers of British Columbia by quantifying and reducing mortality of released fish (**NSERC \$41,100**)
- Understanding species movements, interactions, and environmental variability across Canada's three oceans (**Dalhousie University 132,000**)
- Behavioural physiology and fitness of anadromous migrating fish (**NSERC \$40,000**)
- Genomics tools for fisheries management (**Genome British Columbia \$17,000**)

INNES, John

- Impacts of changes in forest health on the cultural and social values associated with forests (**SSHRC \$67,700**)
- Impacts of forestry property markets on the livelihoods of local people in China (**SSHRC \$50,260**)
- Climate change adaptation research for forest and range ecosystems: Resiliency implications at the landscape level (**British Columbia Hydro and Power Authority, FFESC \$213,940**)
- International Union of Forest Research Organization 2010 (**UBC VPR Research Development Fund \$2,500**)
-

KADLA, John

- The automobile of the 21st Century (**NCE \$17,250**)
- Biomaterials and Chemicals Strategic Research Network (**NSERC, Weyerhaeuser, Lignol Energy Corp \$1,434,127**)
- Lignin-based advanced materials as part of a pulp and paper biorefinery (**NSERC \$130,500**)
- Lignocellulosics as precursors of high performance biopolymer structures (**US Department of Agriculture \$33,122**)
- SENTINEL research network – Nanoscale fibrous structures through electrospinning of novel cellulosic systems (**NSERC \$23,200**)
- Canada Research Chair in Advanced Biomaterials (**Canada Research Chairs \$100,000**)
- Advanced materials from natural polymers (**NSERC \$76,000**)
- SENTINEL research network – nanoscale fibrous structures through electrospinning of novel cellulosic systems (**NSERC \$34,200**)
- High-strength wood composite materials through nanotechnology (**NRC \$66,700**)

KIMMINS, Hamish

- Assessing the effects of climate change on wildlife habitat in boreal forest reclamation (**British Columbia Ministry of Small Business, Technology and Economic Development \$3,750**)
- Assessing the effects of climate change on wildlife habitat in boreal forest reclamation (**FOR Consulting Inc \$3,750**)
- Assessing the effects of climate change on wildlife habitat in boreal forest reclamation (**MITACS/NCE \$7,500**)

KOZAK, Robert

- Rethinking sustainable supply chains: A case study of paper and digital supply chains (**co-investigator**) (**NSERC \$60,643**)
- Assessing the enabling conditions and constraints facing alternative business models on publicly held forestlands: case studies in Canada and central west Africa (**SSHRC \$45,600**)
- Forests and Communities in Transition Network (**NCE \$20,000**)
- Reducing vulnerability and susceptibility through increased understanding: Health and environmental interactions of forest-dependent HIV/AIDS-affected African households (**SSHRC \$10,450**)

KRCMAR-NOZIC, Emina

- Uncertainty in adaption to climate change in forest management: Selected case studies in B (**FFESC \$71,987**)

KRZIC, Maja

- Soil: Charting new territory in high school education (**NSERC \$15,000**)

LAM, Frank

- Performance of OSB, Rimboard, and OSL (**Ainsworth Engineered Canada LP \$18,500**)
- Development of technology for cross laminate timber building systems (**Forestry Innovation Investment Ltd \$172,203**)
- Market survey for SHERPA timber connectors for United States and Canada (**Vinzenz Harrer GmbH \$5,932**)
- Reliability of timber structural system under seismic loading (**NSERC \$35,000**)
- Size effect adjustment factor of glulam (**NRC \$66,420**)
- High-strength wood composite materials through nanotechnology (**co-investigator**) (**NRC \$66,700**)
- Strategic Network on Innovative Wood and Building Systems (**co-investigator**) (**NSERC \$1,060,000**)

LARSON, Bruce

- Develop protocols for evaluating, treating, and monitoring the forest of San Juan Island National Historical Park (**National Park Service \$2.6**)
- Promotion and coordination of research under Adaptation and Impacts Research Division (**Environment Canada \$80,000**)
- Crown competition, crown efficiency, tree growth and site type: Quantification with terrestrial LIDAR (**BCMof&R \$26,962**)
- A forest fertilization trial in a Mildred Lake jack pine stand (**Syncrude Canada Ltd \$178,250**)
- Using red alder as an adaptation strategy to reduce environmental, social and economic risks of climate change in coastal BC (**FFESC \$159,949**)

LYONS, Kevin

- Can attributes identified at the harvest planning stage be used to predict the frequency of close calls and severe injuries when manually falling trees? (**WorkSafe BC \$64,034**)

MACDONALD, Iain

- Business Innovation Partnership (**Forestry Innovation Investment Ltd \$64,572**)

MANSFIELD, Shawn

- From sink to source – carbon allocation in poplar (**NSERC \$30,000**)
- Laboratory for wood cell wall characterization (**Canada Foundation for Innovation \$61,897**)
- Elucidating conifer juvenility through functional genomics (**The Minister of Sustainable Resource Development, Alberta \$100,000**)
- Canada Research Chair in Wood and Fibre Quality (**Canada Research Chairs \$100,000**)
- Conifer forest health genomics (**co-investigator**) (**Genome British Columbia, \$799,183**)
- Optimized populus feedstocks and novel enzyme systems for a British Columbian bioenergy sector (**co-investigator**) (**Genome British Columbia \$449,360**)
- Green Crop Research Network, transforming plant carbon into soil carbon: Process level controls on carbon sequestration (**co-investigator**) (**NSERC \$9,000**)
- Working on walls (**co-investigator**) (**NSERC \$300,000**)
- Development of integrated forest management and wood manufacturing decision-support systems for a value-added forest industry (**NSERC \$168,683**)

MARSHALL, Peter

- Development of the Prognosis model for the complex stands in southern and central interior of BC (**BCMof&R \$45,630**)

MARTIN, Kathy

- Alpine and forest landbird ecology and conservation research (**Environment Canada \$67,500**)
- Ecology and life history of alpine birds (**NSERC \$54,000**)
- A comparison of incubation rhythms of alpine breeding populations of two song bird species (**UBC Northern Scientific Training Program \$7,600**)
- Northern alpine avian ecology and climate variation (**NSERC \$10,000**)
- Ecology and life history of alpine birds (**NSERC \$54,000**)

MEITNER, Michael

- Visual resource management: new tools and potential solutions (**NSERC \$3,200**)
- Integrated modelling and assessment of forest harvest patterns (**NSERC \$24,000**)

MITCHELL, Stephen

- Drag and resistance in mangroves (**NSERC \$22,910**)
- Windthrow risk to distribution lines (**BC Hydro Corporation \$10,000**)
- Stanley Park Management Plan (**Vancouver Parks Board \$15,000**)
- Root anchorage mechanics (**TreeFund J Duling Grant \$10,000**)

MOORE, Dan

- Atmospheric stability climatology (**NRC \$5,000**)
- Forest hydrology (**donation \$10,000**)
- Western Canadian Cryospheric Research Network (**UBC VPR Research Development Fund \$10,000**)
- Catchment hydrology and the stream environment (**NSERC \$24,200**)

NELSON, Harry

- Preparing for changes in hydrological cycles and surface hydrology in BC (**NRC \$162,441**)
- Bioenergy demonstration at UBC Loon Lake Research and Education Centre (**British Columbia Ministry of Small Business, Technology and Economic Development, BC Bioenergy Network Association, Green-Erg Technologies Ltd, MITACS/NCE \$30,000**)
- Assessing ecosystem resilience to climate change (**BCMof&R \$10,000**)
- Validating impacts, exploring vulnerabilities, and developing robust adaptive strategies under the Kamloops Future Forest Strategy (**FFESC \$330,530**)

NELSON, John

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

PRESCOTT, Cindy

- Nutrient availability and late-stage decomposition (**NSERC \$42,000**)

RICHARDSON, John

- Conservation genetics and ecology of the threatened Coastal Giant Salamander in managed forests of BC: Setting priorities for an integrative species recovery plan (**Canadian Wildlife Federation, BCMof&R \$66,904**)
- How does past climate predictability influence organismal and community resilience to climate change? (**New Zealand Foundation for Research, Science and Technology \$60,000**)
- Determining critical instream flow needs for Nooksack dace (**Canadian Wildlife Federation, British Columbia Ministry of Environment \$40,000**)
- Resource heterogeneity and the environmental basis of productivity in flowing waters (**NSERC \$19,700**)

RITLAND, Kermit

- Population genomics of plants (**NSERC \$54,000**)
- Conifer forest health genomics (**co-investigator**) (**Genome British Columbia, \$799,183**)
- Canadian pollination initiative (**NSERC \$40,000**)

RUDDICK, John

- Wood preservation (**Timber Specialties Co \$61,900**)

SADDLER, Jack

- IEA Bioconversion Task (**IEA Bioenergy \$250,000**)
- Optimizing hydrolytic enzymes and lignocellulosic substrates toward maximizing the saccharification and fermentation of lignocellulosic biomass for bioethanol production (**Genome British Columbia \$160,000**)
- ABIP Network: Cellulosic Biofuel Network (**Agriculture and Agri-Food Canada \$398,113**)

- Conversion of lignocellulosic biomass to biofuels and chemicals (**NSERC \$278,000**)
- Conversion of lignocellulosic biomass to ethanol (**Environment Canada 100,000**)
- Elucidating the substrate and enzyme factors that control the hydrolysis of lignocellulose (**NSERC \$28,870**)

SEELY, Brad

- Representation of climate change impacts on forest growth in FORECAST (**BCMof&R \$37,000**)
- Projecting long-term recovery of old-growth attributes project (**BCMof&R \$35,327**)

SHEPPARD, Stephen

- Community climate change solutions programme – Metro Vancouver (**Metro Vancouver \$25,000**)
- Local climate change visioning tools and process for community decision-making (**GEOIDE/NCE \$179,000**)
- Delta flood management planning (**NRC \$59,375**)
- PICS postdoctoral fellowship: Olaf Schroth (**Pacific Institute for Climate Solutions \$50,000**)
- Climate change visioning session (**BC MoE \$16,201**)
- Local climate change visioning process workshops (**Pacific Institute for Climate Solutions \$36,000**)
- Social mobilization research coordinator (**Pacific Institute for Climate Solutions \$67,000**)

SIMARD, Susan

- Mycorrhizal fungi: Unlocking its ecology and role for the establishment and growth performance of different conifer species in coastal ecosystems (**BCMof&R \$20,700**)
- Effects of climate change on high-elevation plant communities and their ecological processes (**BCMof&R \$22,075**)
- The role of mycorrhizae and mycorrhizal networks in tree species range shifts with climate change and disturbance (**NSERC \$50,000**)
- Carbon cycling by forest soil microbial communities in a time of climate change (**NSERC \$51,000**)

SMITH, Gregory

- Development of discrete element models for continuous rotary drum drying and blending for OSB (**NSERC \$20,000**)
- Performance improvements of particleboard by adding nano-clay materials (**NRC \$63,000**)
- Further development of lightweight sandwich panels for higher requirement applications (**NRC \$75,000**)

SOWLATI, Taraneh

- Optimization of forest biomass supply chain – incorporating uncertainties (**NSERC \$24,000**)

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Christoph Clodius
BA, MEd
Director
Development
604.822.8716



Katherine Quinn
BA
Coordinator
Development
604.822.0898
katherine.quinn@ubc.ca



Jenna McCann
BA
Manager, Alumni
Relations
604.822.8787
jenna.mccann@ubc.ca

IT IS WITH THE SUPPORT of our many alumni, donors and friends that the Faculty can continue to promote itself as a world leader in research and education. Contributions from the community ensure the Faculty is able to offer innovative programs, conduct leading-edge research and raise the profile of the practice of forestry within this province and beyond. We are proud and very thankful to report that for the period April 2010 to March 2011 the Faculty of Forestry raised over \$1.7 million 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 our alumni for their generous and continued support of our programs and students. This year's annual appeal raised over \$55,000 in support of projects such as the Dean of Forestry Scholarship Fund (\$7,859), the John Worrall Alumni Bursary in Forestry (\$6,635) and the Loon Lake Redevelopment Project (\$23,821).

The Faculty would also like to recognize the contributions of numerous alumni volunteers and thank them for their continued dedication to the many events and Faculty activities throughout the year. We look forward to welcoming you back in 2011/2012.

HIGHLIGHTS IN 2010 – 11

The following events, activities and milestones were reached this year:

- The Alumni and Friends Day at the Malcolm Knapp Research Forest and Loon Lake was held on May 6, 2010 in conjunction with the annual undergraduate Spring Camp. Attendees were given the option of choosing their own adventure at this year's event, with activities such as guided hikes around the lake, a walk through the old growth forest, and a tour of the newly redeveloped facilities at Loon Lake all on offer. Following the tour, alumni and guests were treated to a hearty BBQ dinner in the Dining Hall.
- A milestone reunion celebration to recognize 5 and 10 year reunions was held November 9, 2010 at the Four Seasons Hotel Vancouver. This intimate dinner with the Dean encouraged a lively dialogue and a wonderful opportunity for classmates to reconnect.
- The Faculty hosted an alumni breakfast at the ABCFP AGM in Vancouver on February 25, 2011. We had a fantastic turnout of graduates from throughout the years and across the forestry profession, who raised a number of important issues during an open discussion with the Dean. This event was such a success that we look forward to hosting it again next year.
- To commemorate World Forestry Day in the International Year of Forests, the Faculty held a tree planting ceremony on March 21, 2011. The ceremony was overseen by John Innes, UBC Dean of Forestry; Sarah Morgan-Silvester, UBC Chancellor; Steve Thomson, Minister, Ministry of Forests, Lands and Natural Resources Operations; Liang Shugen, Consul General of the People's Republic of China in Vancouver; and Ashok Das, Consul General of India in Vancouver. A *Davidia involucrata* was planted, a species native to China, to symbolize the Faculty's close ties to Asia.
- In the spring of 2011, a new student initiative was funded by the Moss Rock Park Foundation to support student education and outreach opportunities at the Malcolm Knapp, Alex Fraser and Aleza Lake Research Forests. Two students are placed in each forest for a period of four months, allowing the students to put their education to work in the field and gain real-world research and practical experience.
- The Forestry Class of 1957 held a reunion at the Honeymoon Bay Resort in September 2010. Eighteen graduates plus a number of spouses assembled for a 3-day get together to, according to the attendees, "re-tell old stories and invent a few new ones." Highlights of the reunion included a tour of the Ministry of Forests' Cowichan Lake Research Station and a visit to the oldest thinning trial on the west coast. The class plans to reunite at the same resort for the next reunion.
- Wood Products Processing graduates from the classes of 1999, 2000 and 2001 gathered for a reunion in July 2010 to celebrate 10 years since graduation. Roughly 20 alumni were in attendance for cocktails and dinner in downtown Vancouver.
- This year we were a proud to announce the establishment of the following awards: The Roy Sworder First Nations Bursary, the Mike Sauze Forest Operations Bursary, and the Wright Scholarship in Forestry.
- The Faculty appointed Jenna McCann as the Alumni Relations Manager for the Faculty of Forestry. This appointment symbolizes a renewed commitment to supporting and connecting with our Forestry alumni.
- The Faculty would like to extend its thanks and appreciation to Christoph Clodius for his hard work and dedication to the Faculty's Development and Alumni Relations program over the past three years. Christoph left the Faculty in December 2010 to take on a new challenge as a fundraising recruiter.

PLANS FOR 2011 – 12

- Advance “Place and Promise”, UBC’s strategic plan that contains concrete steps to achieve UBC’s vision of creating an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada and the world.
- Strengthen opportunities for alumni, corporate and community partners and others to engage with Forestry through improved communications, such as the new Alumni E-News, alumni and development articles in BranchLines, and an improved website; through an increased number of both social and academically focused events; and through a host of volunteer opportunities, such as the mentoring program.
- Work with an even greater number of groups, sectors, and concerned individuals to advance the Faculty’s areas of greatest need, which include but are not limited to: Student financial assistance; the Natural Resources Conservation program, our innovative, award-winning and largest undergraduate program; urban forestry; and the First Nations Initiative, designed to build greater understanding and involvement in First Nations forestry.
- Effective April 2011, we look forward to welcoming the new Director of Development, Emma Starritt, to the Faculty of Forestry and introducing her to our many alumni, donors and friends.

Once again, on behalf of the students, faculty and staff, thank you to all those who have contributed their time, interest and support for the Faculty throughout the last year. We look forward to working with you again in 2011/12.

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Questions concerning this report or requests for mailing list updates, deletions or additions should be directed to:

Dr Susan Watts, RPF
Annual Report Editor
Faculty of Forestry, Dean's Office
Forest Sciences Centre
University of British Columbia
2005 – 2424 Main Mall
Vancouver, BC V6T 1Z4
CANADA

Phone: 604.822.6316
Fax: 604.822.8645
E-mail: sue.watts@ubc.ca

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UBC Faculty of Forestry website

www.forestry.ubc.ca

The image displays three overlapping screenshots of the UBC Faculty of Forestry website. The top-left screenshot shows the main navigation bar with links like 'General Information', 'Students', 'Faculty & Staff', 'Research', 'News & Events', 'Alumni', 'Publications', 'Facilities', 'Giving', and 'Contact'. Below this, there are sections for 'PROSPECTIVE STUDENTS' (listing admission options), 'RESEARCH & TEACHING' (listing research areas), 'CAREERS & CO-OP' (listing co-op programs), and 'WEBSITE HIGHLIGHTS'. The top-right screenshot shows the 'UNDERGRADUATE DEGREE PROGRAMS' section, including 'Bachelor of Science Forest Sciences', 'Bachelor of Science Natural Resources Conservation', 'Bachelor of Science Wood Products Processing', and 'Bachelor of Science Forestry'. It also features a 'Featured Profile' of Robert Fürst and a 'News' section. The bottom screenshot shows the 'WOOD PRODUCTS PROCESSING' section, which includes a detailed description of the program, its benefits, and an 'EVENTS CALENDAR' for June 2011.

The Faculty of Forestry web site features:

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

Any comments or suggestions about our web site can be addressed to our Education and Web Technology Coordinator at 604-822-0024.



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THE UNIVERSITY OF BRITISH COLUMBIA

Office of the Dean
Faculty of Forestry
University of British Columbia
Forest Sciences Centre
2005 – 2424 Main Mall
Vancouver, BC, V6T 1Z4
CANADA

Phone: 604-822-2727
Fax: 604-822-8645
www.forestry.ubc.ca

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