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

Mr George Weyerhaeuser (Chair)
Retired Weyerhaeuser Senior VP

Mr Nick Arkle
Chief Forester
Gorman Brothers Lumber Ltd

Mr Keith Atkinson
Executive Director
First Nations Forestry Council

Mr Ken Baker
CEO
Forest Innovation Investment Ltd

Dr Clark Binkley
Managing Director
International Forestry Investment Advisors

Dr Bill Bourgeois
President
New Direction Resource Management Ltd

Mr Reid Carter
Managing Partner
Brookfield Asset Management Inc

Mr Wayne Clogg
Senior Vice President of Woodlands
West Fraser Timber Co Ltd

Mr David Gandossi
Executive Vice President, CFO & Secretary
Mercer International

Ms Anne Giardini
President
Weyerhaeuser Company Ltd

Ms Sharon Glover
CEO
Association of BC Forest Professionals

Ms Dana Hayden
Deputy Minister
BC Ministry of Jobs, Tourism and Innovation

Mr Ken Higginbotham
Vice President, Forestry and Environment
Canfor

Ms Alana Husby
President
Coast EcoTimber Ltd

Mr Rick Jeffery
President and CEO
Coast Forest Products Association

Mr Doug Konkin
Deputy Minister
Ministry of Forests, Lands and Natural Resource Operations

Ms Brenda Kuecks
President
Ecotrust Canada

Mr Pierre Lapointe
President and CEO
FPlInnovations

Mr Dave Lewis
President
Truck Loggers Association

Mr Garry Merkel
Principal
Forest Innovations

Mr Paul McElligott
President and CEO
TimberWest Forest Corp

Mr Bruce McIntyre
Partner
PricewaterhouseCoopers LLP

Mr Eduardo Rojas-Biales
Assistant Director General
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
Director General
Centre for International Forestry

Mr Allan Thorlakson
Executive Chairman
Tolko Industries Ltd

Mr Doug Walker
President and CEO
The Nature Trust 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-Briales 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-
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 Shefford 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
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-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 Conoco 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), Conoco Engineers & Scientists (Bridgewater, 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.

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.

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).
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.
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.

<table>
<thead>
<tr>
<th>Year of Study</th>
<th>Number of New Students Entering</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>203</td>
</tr>
<tr>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>236</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Program</th>
<th>Number Enrolled</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Resources Management (BSF)</td>
<td>117</td>
<td>19.9</td>
</tr>
<tr>
<td>Forest Operations (BSF)</td>
<td>35</td>
<td>5.9</td>
</tr>
<tr>
<td>Forest Sciences (BSc)</td>
<td>53</td>
<td>9.0</td>
</tr>
<tr>
<td>Wood Products Processing (BSc)</td>
<td>94</td>
<td>16.0</td>
</tr>
<tr>
<td>Natural Resources Conservation (BSc)</td>
<td>290</td>
<td>49.2</td>
</tr>
</tbody>
</table>

Enrolment Statistics

Breakdown of new enrolment 2010 – 11

<table>
<thead>
<tr>
<th>Program</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Natural Resources Conservation)</td>
<td>49.2</td>
</tr>
<tr>
<td>BSF (Forest Resources Management)</td>
<td>19.9</td>
</tr>
<tr>
<td>BSc (Wood Products Processing)</td>
<td>16.0</td>
</tr>
<tr>
<td>BSc (Forest Sciences)</td>
<td>9.0</td>
</tr>
<tr>
<td>BSF (Forest Operations)</td>
<td>5.9</td>
</tr>
</tbody>
</table>
Awards

First Year Students

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

Second Year Students

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

Third Year Students

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

- ABCFP Scholarship in Forestry, Graduating Prize in Forestry, UBC-O Award
- UBC Forestry ALUMNI Division Scholarship and Entrance Scholarship
- 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. CRAG 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

Fourth Year Students

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

Fourth Year Students

- Boulton, Chris SODERMAN, ALUMNI
- Burke, Christopher Neville ENGLISH
- Buschhaus, Catherine Tobi Elizabeth HADDOCK
- Chalmers, Eric Cameron SPLAN
- Chi, 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

Graduating Awards (Spring 2010)

- Barry ENGLISH Memorial Prize
- FORED BC Society Ken Haley Memorial Prize
- Joseph & Joyce GARDNER Scholarship in Forestry
- Peter Andrew GOLUDBEF 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 Forestry 1, Forest Harvesting 2, Scholarship in Forestry 3
- Jim and Gerry McIntosh Award in Forestry 1 and Scholarship in Forestry 2
- James Russell MILLS Memorial Award
- NORTHWOOD Pulp and Timber Limited Scholarship
- Tyler O’FARRELL Memorial Prize in Sustainable Forest Management
- Robert E MILL Memorial Award
- KJ ROLLER Sopron Scholarship in Forestry
- Kapoor Singh SIDDOO Scholarships in Forestry and Forest Ecology
- 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 Scholarship and Scholarship in Harvesting
- WELDWOOD of Canada Ltd Scholarship in Forestry
- Mary and Robert WELWOOD Memorial Scholarship in Wood Science and Industry
- WEST Fraser Timber Co. Ltd. Scholarship in Forestry
- WEYERHAEUSER Scholarship in Forestry 1, Award in Forestry and Aboriginal Award in Forestry
- University of BC WOOD Products Processing Awards
- John WORRALL “Tree Enthusiast” Prize
### Bursaries

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

| British Columbia KILN Association Bursary in Forestry | Henri J Pigeon Bursary in Wood Science and Industry |
| Canfor Corporation Bursary | Herschel H Boydston, Jr Memorial Bursary in Forestry |
| Coastal Silviculture Committee Bursary | Ian T Cameron Memorial Bursary |
| Doris M Dowling Memorial Bursary | JD Hetherington Memorial Bursary |
| EG & WD Touzeau Bursary | Jeanette Lindsay Memorial Bursary |
| Eurocan Pulp & Paper Co Bursary | John Worrall Alumni Bursary in Forestry |
| Gerry and Jack Burch Bursary | 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
- Hiraqa, 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, Richard
- Crabbe, Patrick
- Hart, Foster
- Hsieh, David Min-Han
- Hu, Miao
- Jervis, Harlan
- Laursen, 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, Amy Tien Ju
- Dolejsi, Douglas
- Doyn, 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 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.
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 (Sadler) 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 (Sadler), 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 Taranee 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
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 Kladso, Fattane Nadimi, Ana Elia Ramon Hidalgo, and Solace Sam-Brew. 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.
Doctoral Students

Abdollahzadeh, Negar  SRF
Abreham, Yonas  SRF
Ahmed, Suborna  MACAREE, VANDUSEN
Atwood, Trisha  FYF-GES
Beaudoin, Jean-Mitchel  SSHRC
Bedelean, Bogdan  WELDWOOD, COCHRAN, CHISHOLM, ROTHWELL
Blight, Louise  KOERNER
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  FWF, MACAREE, WRIGHT
DiGuistini, Scott  SRF, NSERC
Drenner, Matthew  FYF-GES
Ebdian, Mamood  FYF
Eddington, Margaret  SRF
Eddington, Margaret  AFFILIATED
Funda, Tomas  FYF
Germain, Ryan  FYF-GES
Gourlay, Keith  FYF-GES
Guichon, Shannon  BASSETT
Haghdan, Reyeh  SRF
Hajjar, Reem  FYF, MCPHEE, NSERC, SRF
Hamilton, Jill  NSERC, SRF
Hember, Robbie  NSERC
Hilsendager, Kyle  SRC
Hu, Jinguang  CSC
Huang, Yu  MACAREE, SRC
Ibarra, Tomas  CONICYT
Jeffries, Kenneth  BUCKLAND, SMITH, MACAREE
Jones, Trevor  FYF
Kalsits, Lee  VANIER
Klady, Rebecca  FWF-GES
Korehe, Reza  MCPHEE
Levy-Booth, David  NSERC, FYF-GES
Li, Yu  VANDUSEN
Lim, Sang Seop  MACAREE
Man, Cosmin  SRC
Massoumi-Alamouti, Sepideh  FYF
Mcculgan, Erin  FYF
Mobini Dehkhordi, Mohammad Mahd  FYF
Nadimi, Fattane  FYF-GES
Norris, Andrea  SRF
Oaten, Dustin  FYF, NSERC
Paudel, Shyam  FYF, NSERC

Scholarships and Fellowships

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
Rista, Catalin  PICS
Sam-Brew, Solace  FWF-GES
Singh, Monika  NAMKOONG, IDRC
Sopinka, Natalie  FYF, NSERC
Stephen, James  FYF, NSERC
Tooke, Rory  NSERC
Tsai, Ying-Li  NSERC
Twieg, Brendan  MCPHEE
Varhola, Andres  FYF, NSERC
Waebber, Patrick  MCPHEE
Xi, Li  NSERC
Xu, Lianzhen  NSERC

Master's Students

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

BONUCCELlI, Marco  
*Dr T Sullivan (essay)*  
The contribution of agroforestry to food security.

GIBSON, Christine  
*Dr J Innes (Christine)*  
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
Dr 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.
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.

SACKEL, 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*  

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.
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.

Undergraduate international student enrolment by program 2004 – 10

<table>
<thead>
<tr>
<th>Program</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Sciences</td>
<td>70</td>
</tr>
<tr>
<td>Forestry</td>
<td>80</td>
</tr>
<tr>
<td>Wood Products Processing</td>
<td>90</td>
</tr>
<tr>
<td>Natural Resources Conservation</td>
<td>110</td>
</tr>
</tbody>
</table>
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 an 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 a 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 organizations. 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.

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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

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keith Atkinson</td>
<td>FNCOA Co-Chair, CEO BC First Nations Forestry Council</td>
</tr>
<tr>
<td>Gordon Prest</td>
<td>FNCOA Co-Chair, Sto:lo</td>
</tr>
<tr>
<td>Jeremy Boyd</td>
<td>Forestry Director</td>
</tr>
<tr>
<td>John Innes</td>
<td>Shuswap Nation Tribal Council</td>
</tr>
<tr>
<td>Lennard Joe</td>
<td>Dean of Forestry, UBC</td>
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<tr>
<td>Linc Kesler</td>
<td>Owner-Operator, Grizzly-man Resource Management Ltd</td>
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<tr>
<td>Bruce Larson</td>
<td>Professor &amp; Head FRM, UBC</td>
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<tr>
<td>Maxine Lepine</td>
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<td>Andrea Lyall</td>
<td>Stewardship Forester Ministry of Forests Squamish District</td>
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<tr>
<td>Peter Marshall</td>
<td>Associate Dean of Forestry, UBC</td>
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<td>Jim McGrath</td>
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<td>Garry Merkel</td>
<td>Forester, Tahltan Nations</td>
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<td>Debbie Miller</td>
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VERWOERD, Harry  
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**Promotion**

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

**ACHIEVEMENTS IN 2010 – 11**

- 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 programme 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 Trosper 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.
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CLARK, Timothy
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WELLS, Ralph
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Stream Ecology

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Mycorrhizal Ecology

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FELLER, M
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KIMMINS, JP
Professor Emeritus (2007)

KLINKA, K
Professor Emeritus (2002)

McLEAN, JA
Professor Emeritus (2008)
NORTHCOTE, T  
Professor Emeritus (1992)

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Professor Emeritus (2006)

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Professor Emeritus (1998)

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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.
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WU, Youhai
MAsc (Brit Col)
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ZHANG, Chao (Tom)
Research Assistant/Technician

Visiting Scholars

DEAM, Bruce
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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

CUllis, Ian
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.
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>Avramidis, Stavros</td>
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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 Hidelgard 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/cfgc/ 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
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.

**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 m$^3$, 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 m$^3$.
- 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.

**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**

- 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.

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**ALEZA LAKE FOREST**

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

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**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.
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- Promote research opportunities.

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**Research Forests harvesting 2010**

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**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: Ciencia 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)

LEMAY, 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, Kevin
• 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

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

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
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 $437,500. The FIA-Forest Science Program (FSP) funded 22 projects 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.

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**Extramural funding sources 2010 – 11***

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<th>Source</th>
<th>$000</th>
<th>Count</th>
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*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, wildfires 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)

**BREUIL, Colette**

**BOHLMANN, Joerg C**

**AVRAMIDIS, Stavros**

**ARCESE, Peter**

**CAITKEN, Nicholas**

**CHANWAY, Chris**

**CHAN-MCLEOD, Ann**

**CLARK, Timothy**

**COOPS, Nicholas**

**BULL, Gary**

**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)

**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 (FCI $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 (UACC $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 (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)
**Extramural Funding & Sponsored Research**

**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)*

**KROZIC, 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 $54000)*

**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)

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


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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:

- 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 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.

- 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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UBC Faculty of Forestry website
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The Faculty of Forestry website 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 website can be addressed to our Education and Web Technology Coordinator at 604-822-0024.