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Table of Contents

Dean’s Message .................................................................................................................. 2
Forestry Advisory Council ................................................................................................. 3
Undergraduate Students ................................................................................................. 4
Graduate Students ............................................................................................................ 6
International Forestry ....................................................................................................... 8
Aboriginal Forestry .......................................................................................................... 9
Office of the Dean ............................................................................................................ 10
Forest Resources Management Department ................................................................. 12
Forest and Conservation Sciences Department .............................................................. 18
Wood Science Department ............................................................................................. 22
Centre for Advanced Wood Processing ......................................................................... 25
University Research Forests ........................................................................................... 26
Development and Alumni ............................................................................................... 27
Extramural Research Funding .......................................................................................... 28
UBC Forestry has had another extremely successful year. We marked an all-time high in undergraduate enrollment and preliminary numbers for the upcoming year show another increase with more than 910 undergraduate and 250 graduate students enrolled. International students comprise a large and diverse portion of the student body - 59% of the graduate students (from 32 different countries) and about 39% of the undergraduates.

We have a vibrant and engaged student body in both academic and student life out of the classroom. Many participate in extracurricular activities (including positions on executive committees and international student associations). UBC Forestry students attended the talks on climate change held in Peru in late 2014, a high-level inter-governmental meeting on forest governance held in Interlaken (Switzerland), the United Nations Forum on Forests held in New York (spring 2015), and will be at the climate talks in Paris in December 2015. We encourage students to participate in such international events, and in 2014-2015, one of our students, May Anne Then, was appointed as President of the International Forestry Students’ Association. In this role, she has been eloquently advocating for the voice of youth in many global fora.

Considerable effort went into the development of a new undergraduate program, the Bachelor of Urban Forestry. After considerable delays, it finally received all the approvals necessary, and it is being launched in September 2015.

Our Aboriginal student group is growing. There are currently 16 undergraduate and 2 graduate students. We provide constant mentorship and advice to ensure their success. This year, recruitment efforts focussed on bridging programs with First Nations’ colleges, schools and communities. The Faculty’s community-based research provides further exposure of our programs to Aboriginal communities and helps building trust. The Faculty’s First Nations Council of Advisors met twice and made a number of recommendations related to First Nations communities, conflict resolution, case studies and traditional ecological knowledge that we are adopting.

Internationally, we maintain a prominent position with several faculty members holding executive positions in global forest research organizations. Many faculty members won significant awards over the course of the year. Of note, Nicholas Coops was awarded a Canada Research Chair Tier I in Remote Sensing, and Scott Renneckar was awarded a Canada Research Chair Tier II in Advanced Renewable Materials. I am also delighted that 3 members of the Faculty were awarded Scientific Achievement Awards at the IUFRO World Congress in October 2014: Rob Kozak, Richard Hamelin and Sally Aitken.

We have won a Canadian Queen Elizabeth II Diamond Jubilee Scholarships program which enables graduate students from a number of countries to come to UBC, and will provide scholarships for our students to travel overseas.

Our links with China continue to grow, and our student recruitment programs continue to be very successful. Our work on the incorporation of more timber in buildings there should continue to help maintain demand for BC lumber in China, and we are discussing ways we can link more closely with BC Forest Innovation Investment.

This past year saw a number of changes in the composition of the Faculty. In the Department of Wood Science, Julie Cool, Jörn Dettmer, Vincent Leung, Rajat Panwar (50% in FRM), and Scott Renneckar were appointed. Jeanine Rhemtulla joined Forest and Conservation Sciences. In Forest Resources Management, Verena Griess, Bianca Eskelson, Shannon Hagerman and Joleen Timko were all appointed. We also saw the retirement of John Nelson after many years of invaluable service to the Faculty. Several other changes occurred: as part of a long-standing agreement, Sue Grayston moved to a joint appointment between Forestry and Land and Food Systems, Stephen Sheppard moved to a 100% position in Forestry and David Tindall moved to a 100% position in Sociology.

The Faculty continues to have a healthy budgetary position. We achieved the Faculty’s Start an Evolution Campaign goals of raising $22M and having 1,400 alumni engaged in the Faculty each year. At the end of the 14/15 fiscal year we had raised just over $2.6M and had engaged just over 1,500 alumni.

John Innes
Dean, Faculty of Forestry
## Faculty of Forestry activities, 2004/05 – 2014/15

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<td>504</td>
<td>507</td>
<td>557</td>
<td>589</td>
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<td><strong>Distance education (fte)</strong></td>
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<td><strong>Graduate enrolment</strong></td>
<td>197</td>
<td>242</td>
<td>252</td>
<td>265</td>
<td>261</td>
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<td>4.32</td>
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<td>4.12</td>
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<td><strong>Extramural funding ($000)</strong></td>
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<td>13,296</td>
<td>13,493</td>
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<td>12,590</td>
<td>11,206</td>
<td>10,949</td>
<td>8,736</td>
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<td><strong>Endowment income ($000)</strong></td>
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<td>1,698</td>
<td>1,575</td>
<td>1,902</td>
<td>1,843</td>
<td>1,207</td>
<td>1,075</td>
<td>1,050</td>
<td>1,043</td>
<td>1,106</td>
<td>1,195</td>
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<tr>
<td><strong>Extramural funding per GPOB-funded faculty member ($000)</strong></td>
<td>260</td>
<td>304</td>
<td>286</td>
<td>365</td>
<td>374</td>
<td>307</td>
<td>279</td>
<td>308</td>
<td>276</td>
<td>266</td>
<td>173</td>
</tr>
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</table>

1 Headcount unless otherwise noted
2 Average numerical score of several criteria used by students to assess teaching performance of faculty members.

### Forestry Advisory Council

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

**Dr Clark Binkley** (Chair)
Chief Investment Officer
GreenWood Resources Inc

**Mr Nick Arkle**
Chief Forester
Gorman Brothers Lumber Ltd

**Mr Keith Atkinson**
Chief Executive Officer
BC First Nations Forestry Council

**Mr Ken Baker**
CEO
Forestry Innovation Investment Ltd

**Dr Bill Bourgeois**
President
New Direction Resource Management Ltd

**Mr Dirk Brinkman**
President and Co-Founder
Brinkman & Associates Reforestation Ltd

**Mr Reid Carter**
Managing Partner
Brookfield Asset Management Inc

**Mr David Gandossi**
Executive Vice President, CFO and Secretary
Mercer International

**Ms Anne Giardini**
President
Weyerhaeuser Company Ltd

**Ms Sharon Glover**
CEO
Association of BC Forest Professionals

**Mr James Gorman**
President and CEO
Council of Forest Industries

**Mr Ken Higginbotham**
Retired Vice President, Forestry and Environment Canfor

**Mr Peter Holmgren**
Director General
Centre for International Forestry Research

**Ms Alana Husby**
President
Coast EcoTimber Ltd

**Ms Shannon Janzen**
Chief Forester
Western Forest Products Inc

**Mr Rick Jeffery**
President and CEO
Coast Forest Products Association

**Mr Doug Konkin**
Adjunct Professor
Faculty of Forestry, UBC
Former Deputy Minister Forests, Lands and Natural Resource Operations

**Ms Brenda Kuecks**
President
Ecotrust Canada

**Mr Pierre Lapointe**
President and CEO
FPInnovations

**Mr David Lehane**
Vice President
West Fraser Timber Co Ltd

**Mr Glenn Mason**
Assistant Deputy Minister
Canadian Forest Service, Natural Resources Canada

**Mr Bruce McIntyre**
Partner
PricewaterhouseCoopers LLP

**Mr Garry Merkel**
Principal
Forest Innovations

**Mr Joe Nemeth**
President and CEO
Catalyst Paper Corporation

**Mr Eduardo Rojas-Briales**
Assistant Director General
FAO Forestry Department

**Mr Gerry Salembier**
Assistant Deputy Minister
Western Economic Diversification

**Mr Tim Sheldan**
Deputy Minister
BC Ministry of Forests, Lands and Natural Resource Operations

**Mr Wes Shoemaker**
Deputy Minister
BC Ministry of Environment

**Mr Allan Thorlakson**
Executive Chairman
Tolko Industries Ltd
Undergraduate Students

The Faculty of Forestry offers 5 undergraduate degrees:

- Bachelor of Science in Forestry – BSF
  - Major in Forest Resources Management
  - Major in Forest Operations
- Bachelor of Science in Forest Sciences – BSc
- Bachelor of Science in Natural Resources Conservation – BSc
  - Major in Science and Management
  - Major in Global Perspectives
- Bachelor of Science in Wood Products Processing – BSc
- Bachelor of Urban Forestry – BUF (new for 2015)

Enrolment and Graduation

Total enrolment up 14% to 885

New enrolment up 12% to 314

46% female enrolment up from 42%

125 students graduated, up 26.3%

42 countries represented by student body

Origins of undergraduate students

- Canada 61.1%
- USA 6.4%
- Asia 27.6%
- Africa 0.6%
- Oceania 0.8%
- Central & S America 1.2%
- Europe 3.6%
- Mid-East 0.7%
- Other 1.7%

Number of Students

- Total enrolment: 100, 200, 300, 400, 500, 600, 700, 800, 900
- New enrolment: 100, 200, 300, 400, 500, 600, 700, 800
- Year 1: 342
- Year 2: 170
- Year 3: 160
- Year 4: 213
- Forest Operations (BSF): 68
- Forest Sciences (BSc): 90
- Wood Products Processing (BSc): 159
- Forest Resources Management (BSF): 200
- Natural Resources Conservation (BSc): 368

The Faculty of Forestry offers 5 undergraduate degrees:

- Bachelor of Science in Forestry – BSF
  - Major in Forest Resources Management
  - Major in Forest Operations
- Bachelor of Science in Forest Sciences – BSc
- Bachelor of Science in Natural Resources Conservation – BSc
  - Major in Science and Management
  - Major in Global Perspectives
- Bachelor of Science in Wood Products Processing – BSc
- Bachelor of Urban Forestry – BUF (new for 2015)
Co-op Education

We offer an accredited co-op option in each of our undergraduate programs. Co-op is the primary means through which we encourage employers to hire our students. Employers who hire students through the Co-op Program have the benefit of securing students for 4, 8, 12 or 16 month work terms which increases their return of investment. In addition, our Co-op Coordinators can assist employers by organizing and promoting information sessions, booking rooms and scheduling interviews. Each year we send students to work across Canada and around the world.

This year we made several improvements the Co-op Program by delivering training material online and streamlining our co-op training workshops. Students and employers have benefited from the launch of a new Co-op Jobs website, which allows employers to post jobs through the co-op office and gives co-op students centralized access to employment opportunities in their field of study.

$3,288 average monthly salary

195 employers posted jobs

83% students secured work terms

96% employers would hire their co-op students again

98% students reported overall job satisfaction

17% of work terms were international: Australia, China, Finland, Germany, South Africa and the USA.

Highlights

• Trueman Lam (Wood Products Processing) received the HR MacMillan Prize in Forestry (highest average among graduating students).

• Emily Sunter (Forest Sciences) received the CIF Gold Medal (top all-round graduating student).

• Our new Urban Forestry (BUF) program will be offered starting in September 2015.

• Our undergraduate degree programs were reviewed by external review panels in the spring of 2015. The reviews were generally favorable; however, all programs will be implementing some changes as a result of these reviews.

• The number of international students in our programs continues to grow. More than half of our international undergraduate students come via transfer arrangements with several universities in China. These agreements were initially set up to work as 2 years at a Chinese university and 2 years in one of our forestry programs (ie, 2+2). These transfer programs are currently switching to a 3+2 model with 3 years in a Chinese university followed by 2 years at UBC.

• Ileana Construt has joined our Student Services as Student Engagement Officer; she works with our undergraduate students on various aspects of engagement both within the university and external to the university through community outreach.

• The Co-op Program has grown dramatically with 91% more work terms completed in 2014 than compared with the average of the past 5 years. In addition, co-op enrollment numbers have been actively increased by 73% in 2014 from the previous year.
THE FACULTY OF FORESTRY offers 6 graduate degrees:

- Doctor of Philosophy – PhD (Forestry)
- Master of Science – MSc (Forestry)
- Master of Applied Science – MASc (Forestry)
- Master of Forestry – MF
- Master of Sustainable Forest Management – MSFM
- Master of International Forestry – MIF (new for 2015)

Graduate Students

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Robin Poirier-Vasic
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Enrolment and Graduation

241 total enrolment

55.2% of students in doctoral programs
34.4% in research masters
10.4% course-based

64 degrees conferred

49% female (51% doctoral, 47% masters)

32 countries represented by student body

Origins of graduate students

Enrolment 10-year trend

Degrees conferred 10-year trend
Funding

$4,781,086 in TOTAL graduate stipends

$2,142,849 in competitive awards

$2,133,93 in graduate research assistantships

$415,074 in graduate teaching assistantships

>$22,000 average annual stipend for doctoral students (during first 4 years of program)

>$17,000 average annual stipend for research-based masters students (during first 2 years of program)

134 students received competitive awards

20 students received tri-council funding totaling $576,500

Highlights

• The TRANSFOR-M dual degree master’s program agreement has been renewed for another 3 years. Under this program, students spend 1 year in Europe completing degree requirements at a partner institution, and a second year at UBC completing their MF degree.

• We hosted our 5th Annual Three Minute Thesis competition. Finalists were Ana Elia Ramon Hidalgo (Kozak), Barbara Wong (Hamelin) and Erica Xie (MSFM program). Ana Elia advanced through the semi-finals to represent Forestry as one of 10 finalists at UBC.

• The Forestry Graduate Student Association organized and hosted social and sporting events throughout the Fall and Winter terms, in addition to co-organizing several other social and networking activities with the International Forestry Student Association. FGSA Co-chairs were Tanya Gallagher and Judah Melton.

• After 12 years of exceptional service, Dr Cindy Prescott will be stepping down from her role as the Forestry Associate Dean of Graduate Studies & Research. Effective July 1, 2015, Dr Yousry El-Kassaby take on the role of Associate Dean of Graduate & Postdoctoral Studies, and Dr Nicholas Coops will assume the role of Associate Dean for Research and Innovation.

Professional master’s programs

2014 was a year of continued growth in the area of professional master’s degrees. These degrees offer intensive post-graduate training in 1 year and provide graduates with an advanced credential to grow their professional careers.

• MSFM. The Master of Sustainable Forest Management program completed its 3rd year. This program is accredited by the Canadian Forestry Accreditation Board enabling graduates to become eligible to become Registered Professional Foresters with member agencies of the Canadian Federation of Professional Foresters Associations. So far, 48 students have graduated with close to 100% employment following graduation.

• MIF. The Master of International Forestry degree opened its first round of applications this Spring. Our inaugural cohort of students will be arriving in September. This new degree program is designed for early-to-mid career professionals wishing to expedite their careers and advance to leadership positions.

• MGEM. The Master of Geomatics for Environmental Management degree is a new program planned for student intake in September 2016 (subject to governmental approval). The program will focus on modern, state of the art approaches to environmental and ecological modelling using geomatics for landscape and ecosystem management.

Breakdown of competitive awards ($2,142,849)
The faculty of forestry at UBC is characterized by its large and growing number of international students as well as 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.

- 14 of our co-op students worked abroad in 6 countries.
- 10 of our students participated in the forestry and conservation field school in China (organized with Nanjing Forestry University) and 6 students participated in the field school in India (organized with Wildlife Institute of India).
- We have renewed our involvement in the successful Transatlantic Forestry Master Dual-degree Program (students earn Canadian and European degrees) until 2018.
- Our newest professional degree program (Master of International Forestry) will have its first cohort of students arriving in September.
- Our first MOOC (Massive Open Online Course), “Forests and Livelihoods in the Developing World”, was developed and launched by Dr Joleen Timko.
- We have had a significant presence at the International Union of Forest Research Organizations (IUFRO) World Congress in Salt Lake City. Drs Sally Aitken, Richard Hamelin and Robert Kozak won IUFRO Achievement Awards, several professors spoke at the conference and we hosted a booth at the tradeshow.
- Our proposal, “GREEN LEADERS – Scholarship Program for Commonwealth Forests”, was awarded $500,000 through the Canadian Queen Elizabeth II Diamond Jubilee Scholarships competition. This funding will provide scholarships for 24 of our students to do research and internships in India or Africa and for 14 students from India or Africa to do their Masters or study terms with us.
- We have been selected to host the IUFRO All Division 5 Forest Products Conference in Vancouver in 2017.
- We provided 2 mid-career training programs (30 participants each) for top-level leaders of the Indian Forest Service. In total we have provided 12 such programs over the past 5 years.
- Together with Beijing Forestry University and 3 other universities from the Asia Pacific region, we have led the development of 6 online courses, supported by the Asia-Pacific Forest Network.
- Our students have continued engagement with the International Forestry Students Association (IFSA). In August 2014 our students organized the 42nd International Forestry Students’ Symposium, with over 120 students from 34 countries coming to British Columbia, Four of our students were appointed to official positions, including May Anne Then as IFSA President.
- We hosted a large number of international delegations during the year.

39% of undergraduate students are from 42 countries

34 new 3+2 transfer students, and 19 visiting international students from 4 Chinese universities transferred to UBC Forestry

16 of our students participated in field schools in China and India

13 of our existing 2+2 students graduated

14 exchange/visiting students were hosted from 6 countries

13 of our students participated in the UBC Go Global study abroad in 9 countries

59 students from China and Taiwan joined our UBC Vancouver Summer Program in forestry
The Faculty has been developing and implementing its First Nations strategy for over 20 years, and in 2012 in its strategic plan, the Faculty renewed its commitment to Aboriginal engagement (see aboriginal.forestry.ubc.ca). Below is an abbreviated list of achievements over the past year.

Students

A total of 14 undergraduate students (11 first year) and 2 graduate students self-identified as Aboriginals enrolled in Forestry programs in 2014-2015.

With the help of donor support many recruitment and retention activities occurred over the year:

- Support for current students included monthly get-togethers for networking, and workshops for applying for awards advice and career planning.
- Dedicated staff met students one-on-one to ensure a supportive environment and mentoring flexible to individual student needs.
- The Aboriginal forestry coordinator visited over 12 communities, Aboriginal-led conferences, high schools and career fairs.
- The Faculty hosted a lunch at the UBC First Nations House of Learning for about 150 Aboriginal students across campus.
- The Faculty partnered with PIMS Math to host 4 Aboriginal youth from the Emerging Aboriginal Scholars Summer Camp. This was lead by Drs Lori Daniels and Sue Grayston.

Community

2014 marked the 20th anniversary of the community-based advisory group, The First Nations Council of Advisors (FNCOA). This group meets annually to advise the Dean in Aboriginal initiatives.

Alumni news

Stuwix Joint Resources, managed by alumnus Lennard Joe, RPF and David Walkem, RPF won the Aboriginal Forest Products Business Leadership Award in November 2014. This national award was presented by the Forest Products Council of Canada in recognition of Stuwix's dedication to entrepreneurship, longevity, Aboriginal employment and exceptional environmental and safety performance.

Curricula

Curricula is a key point for Aboriginal engagement in the Faculty’s strategic plan, so FNCOA met November 18, 2014 to discuss curricula within the Faculty. The Faculty was advised by the FNCOA that the forest sector needs to be substantially better versed in working with Aboriginal peoples, including keeping up to date on case law, traditional ecological knowledge and conflict resolution. We were advised that keeping current includes continually re-evaluating the amount and type of Aboriginal curricula within our programs.

The Forest Resources Management program has about 13 lectures throughout the 4-year program dedicated to Aboriginal curricula and a capstone course that visits several rural and Aboriginal communities a year. The Faculty has a credit transfer agreement for the Haida Gwaii semester, where students can study and learn hands on within a resource dependent community.

Bridging programs

In 2015, the Faculty completed a transfer credit program with Northwest Community College and maintains transfer credit programs with Vancouver Island University, Thompson River University and UBC Okanagan. The goal of these programs is to offer Aboriginal students within those communities the opportunity to complete their first year university closer to home before transferring to UBC Vancouver.

Research

At least 10 faculty members are involved in a number of research projects or course-related work involving numerous Aboriginal communities in BC and abroad. The focus of these projects includes sustainable business development, Aboriginal forest policy, economic development, food sovereignty, revitalizing traditional uses from the forests, monitoring industrial activities on fish ecology, wildlife habitat mapping, dating culturally modified trees and forest management planning for First Nation managed forests.

In December 2014 Drs Harry Nelson and Janette Bulkan hosted a Peter Wall conference entitled “Donning the regalia: maintaining tradition in an age of modernity” that focused on indigenous governance and land issues.
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Planning

TROSPER, Ronald
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(1997)

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(1995)

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(1996)

HALEY, D
Professor Emeritus
(2004)

KOZAK, A
Professor Emeritus
(2001)

MUNRO, DD
Professor Emeritus
(1995)

MURTHA, PA
Professor Emeritus
(2003)

NELSON, JD
Professor Emeritus
(2014)

PEARSE, PH
Professor Emeritus
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REED, FLC
Professor Emeritus (1993)

TAIT, DEN
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YOUNG, GG
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Staff

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MAEDEL, Jerry
BFA, TC, MSc
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MATHEW IYPE, Deepti
BA, MA
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MOY, Arnold
BSc
GIS Specialist

RELOVA, Marissa
BA
Financial Clerk

WEISS, Scheyla
Administrative Support

WHALLEY, Jerry
Computer Support Specialist
Retirement

Dr John Nelson has retired after more than 30 years at UBC. John is a Forestry Alumnus from the class of 1983 (BSF). He began his academic appointment at UBC in 1983 and rose from Lecturer to full Professorial rank by 1993. John taught courses in forest management and forest level modelling. He was very much involved in the Fall Camp for fourth year students at the Malcolm Knapp Research Forest. We wish John all the best in his retirement.

New Appointments

Dr Bianca Eskelson has been appointed effective July 1, 2014 as Assistant Professor in Forest Biometrics. Bianca received forestry degrees (BS and MS) from the University of Göttingen, Germany. She completed an MS in Statistics and a PhD in Forest Biometrics at Oregon State University in Corvallis. Bianca’s research focuses on the application and extension of statistical theory and methods to inventory, monitor, and model forest resources and ecosystem services. Her teaching interests lie in forest biometrics and modelling and the implementation of quantitative methods in statistical software packages.

Dr Verena Griess has been appointed effective July 1, 2014 as Assistant Professor in Forest Management. Verena holds a PhD in Forest Management and Economics, an MSc in Forest and Wood Science, and a degree in Forest Engineering from TUM University. Her research and teaching interests focus on multi-functional forest management and the integration of multiple objectives into optimization software. Verena is teaching in the forest resources management and wood products components of our undergraduate and graduate programs and involved in our growing research on forest management.

Dr Shannon Hagerman has been appointed effective January 1, 2015 as Assistant Professor in Social Ecological Systems. Shannon is an interdisciplinary scholar who uses social science research methods to understand human behavioral, institutional and policy elements of social-ecological systems in a rapidly changing world. She obtained her PhD from UBC in Resources Management and Environmental Studies. She went on to work at the Climate Impacts Group at the University of Washington first as a SSHRC postdoctoral fellow and then as a research scientist specializing in human dimensions of resource management. Shannon has taught CONS 200 since 2013. Her research aims to advance a more comprehensive understanding of human dimensions and their roles in shaping the dynamics and outcomes of Social Ecological Systems.

Dr Rajat Panwar has been appointed effective July 1, 2014 as Assistant Professor in Sustainable Business Management in a dual appointment between the departments of Wood Science and Forest Resources Management. Rajat comes to UBC from Northland College, Wisconsin, USA, where he was a faculty member in the areas of corporate social responsibility and business sustainability for almost 7 years. Rajat received his PhD in Wood and Engineering from Oregon University and his MBA from the University of Lucknow in India. Rajat’s research examines adoption of sustainable practices from a strategy perspective in both established and new firms. His teaching interests include forest products business, entrepreneurship and business sustainability.

Dr Joleen Timko has been appointed as Lecturer to teach and manage the new Masters of International Forestry (MIF) program. Joleen is a UBC Forestry alumnus, having completed her PhD with Dr John Innes in 2008. She then spent 6 years working as a research associate with Dr Rob Kozak. Together, they co-founded a small research initiative called AFRICAD (Africa Forests Research Initiative on Conservation and Development). Through AFRICAD, Joleen conducts research located at the forest-society interface in various African countries. Joleen collaborates widely with forestry research organizations in several African countries.

Awards and Distinctions

• Nicholas Coops:
  – Canada Research Chair (Tier I)
  – CRSS Silver Medal
• Verena Griess – PRO Lehre – Learning + Teaching in Higher Education
• Peter Marshall – Canadian Institute of Forestry Presidential Award
• Michael Meitner – Gold Award in Planning Practice
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Forest Pathology

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Plant and Microbial Biology

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Population and Movement Ecology of Fish

MARTIN, Tara
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MILLER, Kristina
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Functional Genomics, Molecular Genetics, Salmon

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Forest Genetics and Tree Breeding

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Gene Conservation

Affiliate Professors
CAO, Sam
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Forest Ecology

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CLARK, Timothy
BSc, PhD
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Ecophysiology and Behavioural Energetics of Migrating Salmonids

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Mycorrhizal Ecology
Professors Emeriti

BUNNELL, FL
Professor Emeritus (2007)

FELLER, M
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KIMMINS, JP
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New Appointment

Dr Jeanine Rhemtulla joined the department as Assistant Professor, Landscape Ecology & International Forestry, effective July 1, 2014. Jeanine was previously a faculty member in the Department of Geography and School of Environment at McGill University. Her research focuses on understanding how land-use practices affect biodiversity and ecosystem services at the landscape level.

Awards and Distinctions

- Joerg Bohlmann – World’s Most Influential Scientific Minds in 2014 by Thomson Reuters in the Plant & Animal Science section
- Richard Hamelin – IUFRO Scientific Achievement Award
- Sally Aitken:
  - IUFRO Scientific Achievement Award
  - 2014/15 Wall Scholars Award
- Prof Emeritus Michael Feller – 2014 BC Community Achievement Award
- Maja Krzic:
  - Platinum MARCOM Award for a web-based educational project
  - Quarry Life Award
  - Platinum AVA Digital Award
  - CNIE Award for Excellence and Innovation
- Susan Grayston – Quarry Life Award
- Scott Hinch – American Fisheries Society Certificate of Achievement
- Stephen Mitchell – ABCFP, Distinguished Forest Professional
- Cindy Prescott – Honorary Doctorate, University of Helsinki, Sweden
- Tom Sullivan – Silver Award Habitat Conservation Trust Foundation
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ROACH, Melissa, BSc, PhD  
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BSc, MSc, PhD  
Genomic Analysis of Wood

UNDA, Faride  
BSc, MSc, PhD  
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VAN DYK, Jacoba Susanna  
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Annual Report April 1, 2014 – March 31, 2015 23
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Research Engineer

New Appointments

Dr Julie Cool has been appointed effective July 1, 2014 as Assistant Professor in Wood Machining. Julie, a mechanical engineer, received her Masters and PhD in Wood Science from Univesite Laval in 2011. Since then, she has worked closely with the forest industry while at FP Innovations and also as a research and development consultant in the private sector. Julie’s research and teaching interests focus on wood machining and quality control and how these affect the value chain. Through her research, she aims to quantify and control wood recovery, surface quality, and wood adhesion, as well as productivity by developing the knowledge on wood-knife interactions.

Jörn Dettmer has been appointed as part-time Lecturer in Product and Furniture Design effective March 16, 2015. After completing his apprenticeship as a cabinetmaker, Jörn received a Wood Science Engineering degree from the University of Applied Sciences in Eberswalde, Germany. After several years in the wood industry, he returned to school and completed his MSc at UBC with a focus on wood composites. His teaching and research interests focus on product and furniture design and wood composites such as molded plywood and light-weight wood products.

Vincent Leung has been appointed as Instructor in Computer Aided Design and Manufacture effective March 1, 2015. Vincent holds a BSc in Wood Products Processing (UBC) and has worked as the Technical Facilities Supervisor of the Centre for Advanced Wood Processing for the past 7 years. His teaching interests lie in the areas of advanced wood processing and machining, process flow and optimization, product engineering and development, CAD/CAM, furniture construction and design, and plant layout design.

Dr Rajat Panwar has been appointed effective July 1, 2014 as Assistant Professor in Sustainable Business Management (joint appointment with FRM). Rajat comes to us from Northland College, Wisconsin, where he was a faculty member in the areas of corporate social responsibility and business sustainability. Rajat received his PhD in Wood Science and Engineering from Oregon State University and his MBA from the University of Lucknow in India. His research examines adoption of sustainable practices from a strategy perspective in both established and new firms.

Dr Scott Renneckar has been appointed effective July 1, 2014 as Associate Professor in Advanced Renewable Materials. Scott holds a Canada Research Chair Tier 2 in Advanced Renewable Materials. Previously, Scott was a faculty member in the Department of Sustainable Biomaterials at Virginia Tech. He has a BSc and PhD in Wood Science from Virginia Tech and an MS from Berkeley. His research program focuses on creating advanced renewable materials through cutting-edge science that will catalyze a green economy.

Awards and Distinctions

- Robert Kozak:
  - IUFRO Scientific Achievement Award
  - Killam Teaching Prize
  - Department Top Teaching Award
  - IUFRO (Division 9) Best Poster Award

- Stavros Avramidis – Fellow, Institute of Materials, Minerals & Mining

- Philip Evans – Colley/Hartford Lecturer, Am Wood Protection Assoc

- Shawn Mansfield:
  - David J Gifford Award (Tree Biology), Canadian
  - Forest Biotechnologist of the Year - 2105

- Scott Renneckar:
  - Canada Research Chair (Tier II)
  - George Marra Award Honorable Mention for SWST
The Centre for Advanced Wood Processing (CAWP) is Canada’s national centre for education, extension and research for the advanced wood products industries. Our mission is to develop and improve the capacity and competitiveness of the value-added wood products manufacturing industry. We do this by providing continuing education and training programs, running seminars and conferences, setting up networking opportunities, organizing overseas technical tours, and carrying out company-specific technical assistance projects. Our clients and audiences include manufacturers, industrial designers, architects and other professionals. We also provide assistance to international partners to set up or improve education and training programs aimed at promoting sustainable value-added manufacturing.

CAWP also supports the technical and practical components of the BSc Wood Products Processing program by providing facilities and technical expertise for course lab sections. In addition, we facilitate wood processing-oriented projects involving UBC units such as the School of Architecture and Landscape Architecture (SALA) and Civil Engineering, and with other institutions such as Emily Carr University of Art and Design, BCIT and others. Finally, we support research, both with our technical team and facilities, and by helping industry find solutions to current competitive challenges by linking them with researchers.

We are fortunate to have labs equipped with state of the art advanced manufacturing equipment. CAWP is funded through an endowment, Forestry Innovation Investment’s Wood First Program, various project grants, and cost recovery on services. It 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 education experiences. A small number of manufacturing companies have also supported CAWP through cash contributions to our industry partnership program. CAWP is also linked with many industry associations such as the Wood Manufacturing Council and collaborates with others such as BC Wood Specialties, Woodworks BC, and FPInnovations on program delivery in BC.

**Highlights**

- Our UBC Certificate Program in Industrial Finishing was delivered to industry learners from around Canada and overseas. The Certificate features 12 weeks of part-time online learning followed by an intensive week-long residency.
- Our popular Kiln Drying Certificate Program workshop was held again this year for industry learners.
- We promoted and ran several online modules of the Wood Manufacturing Council Management Skills Training Program for entrepreneurs and management-track employees.
- We organised and led a successful tour of innovative contemporary wood buildings in Norway for BC architects.
- We carried out 12 projects with BC manufacturing companies to develop new products or improve manufacturing operations.
- Thomas Tannert received an NSERC RTI grant that will be used to purchase, install and commission an industrial robotic work cell in the CAWP high head lab.
- We held a successful workshop on digital design and fabrication of timber structures, with over 50 architects, manufacturers, and engineers in attendance.
- We collaborated for a third year with BC Wood Specialties Group to organise a program of prominent international speakers to 90 architects and engineers at the Wood First Forum in Whistler, BC.
- Our Outside the Box Meetup Group, a forum for networking and exchange between manufacturers, industrial designers and others in the wood products supply chain, held 9 meetup sessions and now exceeds 150 members. A large number of interesting partnerships and business arrangements have been spawned through the group’s activities.
- Through FII’s Wood First Program, we solicited funding to carry out 2 research projects, one on timber-concrete composites led by Thomas Tannert and another on timber shell structures, involving Thomas Tannert and Annalisa Meyboom (SALA). The latter project involved 8 SALA students, 1 Civil Engineering student and the CAWP technical team, and was a truly interdisciplinary project.
- With Teaching and Learning Enhancement Fund support, students created tutorial guides for our new laser engraver, 3D printers and Hundegger Robot Drive machine, as well as improving mobile learning sites that support practical lab work.

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**Annual Report April 1, 2014 – March 31, 2015**

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**Centre for Advanced Wood Processing**

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

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University Research Forests

The Faculty Of Forestry operates 2 Research Forests: The Malcolm Knapp Research Forest near Maple Ridge on the coast, and the Alex Fraser Research Forest near Williams Lake in the central interior of BC.

Their mission is to support the Faculty, other partner universities and research organizations in serving the people of BC through teaching and research. The location of the forests, covering 6 diverse biogeoclimatic subzones and 3 tenure systems, offers a variety of research and education opportunities.

Malcolm Knapp Research Forest

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Director, University Research Forests
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paul.lawson@ubc.ca

Cheryl Power
BSF, RPF
Resident Forester
cheryl.power@ubc.ca

Highlights
- Initiated 17 new research projects.
- Began construction on the Bentley Family Hall at Loon Lake, consisting of a 150 seat dining room and attached kitchen – estimated completion June 2015, project cost $2.7 million.
- Employed 3 forestry undergraduate students on 4 month internships, and 2 forestry graduate students on 6 month internships.
- Hosted Loon Lake facility use of 14,879 visitor-days (down 15% from 2013). Occupancy was severely affected by the public school teacher’s job action.
- Hosted the Faculty’s Spring Field School in April, Conservation Field School in October and the Master of Sustainable Forest Management Field School in October – attended by over 100 students in total.
- Hosted over 400 children and 300 volunteers at the 11th annual Canadian Cancer Society Camp Goodtimes held at Loon Lake in July and August.
- Milled over 603,000 board feet of lumber at our sawmill facility, an increase of 9% over 2013.

Alex Fraser Research Forest

Ken Day
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Cathy Koot
BSc, RPBio
Research Coordinator
cathy.koot@ubc.ca

Highlights
- Initiated 11 new research projects.
- Marked-to-cut and harvested a 100-ha research trial under single-tree selection on Mule Deer Winter Range 30 years following the first entry.
- Collaborated on a pilot project demonstrating the utility of a high-resolution inventory through analysis of LiDAR and Colour Infra-red imagery.
- Seasonally employed 3 forestry undergraduate students and 2 forestry graduate students.
- Completed detailed riparian surveys of stream reaches and wetlands in remote sections of the Forest.
- Built 1.65 km of new road for current logging and 1.35 km of new road for future blocks.
- Planted 97,230 trees across 8 cut blocks, totaling 90 ha.
- Continued under contract to manage the Williams Lake Community Forest.
- Worked with BC Community Forest Association to deliver forest management extension throughout the province.
- Hosted 366 students, researchers and professionals for a total of 722 contact-days.

Research Forests harvesting 2014

<table>
<thead>
<tr>
<th></th>
<th>Malcolm Knapp</th>
<th>Alex Fraser</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logging</td>
<td>m³</td>
<td>ha</td>
<td></td>
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<tr>
<td></td>
<td>22,928</td>
<td>39.8</td>
<td>35,291</td>
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<tr>
<td>Commercial Thinning/Partial Cutting</td>
<td>m³</td>
<td>ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>199</td>
<td>1.7</td>
<td>6,359</td>
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<tr>
<td>Road Right-of-Way</td>
<td>m³</td>
<td>ha</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,522</td>
<td>3.2</td>
<td>5,490</td>
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<tr>
<td>Salvage and BC Hydro RWs</td>
<td>m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,500</td>
<td></td>
<td>2,936</td>
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</table>
It is much more than just numbers...
Through generously giving their financial support and volunteering their time and expertise the Faculty’s alumni, other individuals, corporations and foundations allowed the Faculty to provide an enriched student learning experience; build and expand research and teaching capacity; and engage in meaningful and impactful community extension activities. Notably, this year we have seen record support to create new endowed awards to support Aboriginal students and commenced the construction of the new Bentley Family Hall dining facility at Loon Lake started, with completion slated for mid-2015. Below are just some of the highlights from the year...

160 alumni contributed to the annual alumni appeal focused on the redevelopment of the Loon Lake Research and Education Centre

28 undergraduate students had the opportunity to work with First Nations and Community Forest organizations

$2,615,713 raised to support Faculty initiatives

9 new student awards established

1,528 alumni connected with the Faculty

418 alumni attended a range of events both on campus and at regional events

14 students from India and Commonwealth African countries will have the opportunity to study in the Faculty

64 alumni volunteered their time and expertise

$1.3M in future estate gifts confirmed

24 Canadian students will travel to India or Africa for study placements through the Green Leaders program
Incomes

Between April 1, 2014 and March 31, 2015 members of the Faculty of Forestry were awarded a total of $8.7 million in research funding in support of 203 projects. This level of support represents a decrease of 20.2% over the previous year and a decrease of 24.5% from the average level of research funding for the past 5 years.

Federal funding, which represented 46% of our total research funding, was down by 38.7% from the previous year. Tri-Council awards (the largest part of our federal funding) were down by 18.9% from last year. Members of the Faculty held 24 Discovery grants, 17 ongoing Strategic grants, 2 Collaborative Research grants, 14 Engage grants, 1 Insight Development grant, 1 Partnership Development grant, 1 G8 Research Councils Initiative grant, 1 Community-University Research Alliances grant, 1 Research Tools and Instruments grant and 1 JSPS Invitation Fellowship Programs grant for a total Tri-Council funding of $2.9 million. The Network of Centres for Excellence provided $228,500 (through MITACS and BioFuelNet) in support of 9 research projects. Canada Research Chair awards (Coops and Renneckar) contributed another $250,000, an increase of 7.1% over 2013/14 funding.

Provincial funding in support of research ($2.35 million) was up by 3.4% from the previous year. Research awards through Genome BC (7 projects totaling $990,196) were up by 21%. The British Columbia Ministry of Forests, Lands and Natural Resource Operations supported 8 projects for a total of $231,604, an increase of 10.3% over funds received in 2013/14. Forestry Innovation Investment funds supported 2 projects for a total of $292,215, a decrease of 6.7% over funds received in 2013/14.

Private funding support ($1.47 million) for research was up by 58.8% over monies received in 2013/14. These funds supported a total of 43 projects. The largest industry supporters were the Cumulative Environmental Management Association which funded 1 project (Welham) and Foothills Research Institute which funded 6 projects (Coops, Carroll and Eskelson).

International funds in support of research backed one less project this year and were down by 24.7%.

We also received endowment income of $1.2 million (up slightly from the previous year). This funding is provided by endowments originally set up by Forest Renewal BC, as well as from the private sector.

Extramural Research Funding

Cindy E Prescott
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Associate Dean
Graduate Studies and Research
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Extramural funding sources 2014 – 15*

<table>
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<tr>
<th>Source</th>
<th>($)</th>
<th>Count</th>
<th>%</th>
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<tbody>
<tr>
<td><strong>Federal</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Tri-Council</td>
<td>2,927,556</td>
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<td>Natural Resources Canada</td>
<td>390,194</td>
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<tr>
<td>Canada Research Chairs</td>
<td>250,000</td>
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<tr>
<td>Network Centres of Excellence</td>
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<tr>
<td>Other</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>Provincial</strong></td>
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<td>Genome BC</td>
<td>990,196</td>
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<td>11.3</td>
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<tr>
<td>BC Hydro</td>
<td>376,250</td>
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<tr>
<td>Forestry Innovation Investment</td>
<td>292,215</td>
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<td>3.3</td>
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<td>BC Ministry of Forests, Lands &amp; Natural Resource Operations</td>
<td>231,604</td>
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<td>PICS</td>
<td>191,560</td>
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<td>Other</td>
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<td><strong>Subtotal</strong></td>
<td>2,351,027</td>
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<td><strong>Private</strong></td>
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<tr>
<td>Industry</td>
<td>641,650</td>
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<tr>
<td>Foundations</td>
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<tr>
<td>Other</td>
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<td><strong>Subtotal</strong></td>
<td>1,468,425</td>
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<td><strong>International</strong></td>
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<tr>
<td></td>
<td>901,196</td>
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<td>10.3</td>
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<tr>
<td><strong>Total</strong></td>
<td>8,735,683</td>
<td>203</td>
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* Excluding endowments.
Outcomes

In the past year faculty members authored 221 articles in 151 peer-reviewed journals. Our faculty members also served the scientific community through voluntary peer review, reviewing 1146 journal articles for publication in 163 different journals during the year. Drs Coops, Guy, Panwar and Prescott served as senior editors for 4 international peer-reviewed journals (Canadian Journal of Remote Sensing, TREES – Structure and Function, BioProducts Business and Forest Ecology and Management). As well, 14 faculty members served as associate editors of 20 different journals and 11 individuals served on editorial boards of 25 journals across the spectrum of forest-related journals. Faculty members also reviewed 292 research grant proposals for 25 research funding agencies around the world, including Chile, US, Sweden, Ireland, France, Finland, Italy, Belgium, Portugal, and Canada.

Faculty members made presentations at 122 scientific conferences in 22 countries outside of Canada including Afghanistan, Australia, Austria, Brazil, Chile, China, Costa Rica, Czech Republic, Denmark, Finland, France, Iceland, Japan, Mexico, Morocco, Norway, Slovenia, South Korea, Spain, The Netherlands, United Kingdom and the United States. Fifty-one talks were given to professional groups within Canada.

During the past year 25 faculty members welcomed 59 visiting researchers from 19 countries. Twenty-nine faculty members hosted a total of 54 post-doctoral fellows from 22 countries.

From April 1 2014 to March 31, 2015, researchers in the Faculty of Forestry were cited 52 times in the media. These research stories included topics such as BC’s Big Tree Database, forest fires, genetically engineering trees to produce pulp and biofuel, tree genetics, salmon, tree-killing fungus, and bamboo as a building material.
The Faculty of Forestry web site features:

- Academic program outlines and registration guides
- Profiles of faculty members
- Department and allied program descriptions
- Faculty newsletters, annual reports and special event announcements
- Course materials and educational multimedia
- General interest articles and web feature presentations

Any comments or suggestions about our web site can be addressed to the Manager of Digital Communications and Technology at renita.drakes@ubc.ca.