FORESTRY ADVISORY COUNCIL

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

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Chairman, Weyerhaeuser Canada

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Consultant  
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Ecotrust Canada

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Natural Resources and Environmental Studies  
University of Northern B.C.

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Primex Forest Products

Mr. Garry Merkel  
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Forest Innovations  
Kimberley, B.C.

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Assistant Deputy Minister  
B.C. Ministry of Environment, Lands and Parks

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University of Washington

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Canadian International Development Agency

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Association of BC Professional Foresters

Mr. S. Anthony Toth  
President  
Truck Loggers Association

Dr. Joseph D. Wright  
President & CEO  
Pulp and Paper Research Institute of Canada
COVER PHOTOGRAPH

Photographer: Bryan Evans

Early morning fog, coastal temperate rainforest

TEXT PHOTOGRAPHS

Photographers: UBC Telestudios

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**Dean’s Message**

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  - Recruitment and Enrolment
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- Graduate Students
  - Enrolment Statistics
  - Scholarships and Fellowships
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- Silviculture and Forest Engineering Institute of British Columbia
- International Forestry Programs
- First Nations Forestry Programs
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**SPECIAL LECTURES**
As we enter the new millennium, the Faculty of Forestry at the University of British Columbia is pleased to report on the further development of its mission to serve society – in British Columbia, in Canada and throughout the world – by improving its capacity to deal with forestry issues broadly defined. The continued formulation of new policies by world bodies in areas such as certification bring us the realisation that we need to have a global perspective in Forestry. For our forest products to compete on the world market we must maintain a broad outlook in order to define the roles that we play in teaching, research and direct professional service to government, industry, native bands and non-governmental organisations.

The Forest Sciences Centre research laboratories are now on stream. Faculty successes in Canadian Foundation for Innovation (CFI) granting competitions last year have enabled the establishment of the Genetic Data Centre by Dr. Ritland and the Virtual Reality Laboratory by Dr. Sheppard. In addition, a CFI grant to Dr. Feller has provided for field installations in the aquatic-terrestrial ecosystem research project at the Malcolm Knapp Research Forest in Maple Ridge. We also celebrated the arrival of the Forest Renewal BC Chairs who greatly enhance our senior level research and teaching capabilities in Conservation Biology, Hydrology, Forest Management and Silviculture. A very interesting session was held in early April with the Forestry Advisory Council to hear the challenges that the Forest Renewal BC Chairs have ahead of them as they establish their research programs.

Highlights of 1999/2000
The Table below provides basic indicators of the Faculty’s activities over the past five years along with a forecast for the 2000/01 year.

**Faculty of Forestry Activities, 1995/96 – 2000/01e**

<table>
<thead>
<tr>
<th></th>
<th>95/96</th>
<th>96/97</th>
<th>97/98</th>
<th>98/99</th>
<th>99/00</th>
<th>00/01e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate enrolment</td>
<td>522</td>
<td>591</td>
<td>621</td>
<td>627</td>
<td>553</td>
<td>525</td>
</tr>
<tr>
<td>Distance credit education (fte)</td>
<td>29</td>
<td>36</td>
<td>37</td>
<td>29</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>Graduate enrolment</td>
<td>189</td>
<td>201</td>
<td>209</td>
<td>206</td>
<td>217</td>
<td>205</td>
</tr>
<tr>
<td>Diploma in Forestry</td>
<td>73</td>
<td>47</td>
<td>48</td>
<td>53</td>
<td>45</td>
<td>37</td>
</tr>
<tr>
<td>Diploma in Forest Engineering</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>45</td>
<td>63</td>
<td>43</td>
</tr>
<tr>
<td>Teaching Evaluation Index</td>
<td>2.25</td>
<td>2.24</td>
<td>2.31</td>
<td>2.27</td>
<td>2.15</td>
<td>n/a</td>
</tr>
<tr>
<td>GPOB ($000)</td>
<td>4,808</td>
<td>4,798</td>
<td>4,741</td>
<td>4,865</td>
<td>4,919</td>
<td>5,000</td>
</tr>
<tr>
<td>GPOB/WFTE</td>
<td>$2,340</td>
<td>$2,129</td>
<td>$1,989</td>
<td>$2,094</td>
<td>$2,233</td>
<td>$2,401</td>
</tr>
<tr>
<td>Extramural funding ($000)</td>
<td>7,141</td>
<td>10,409</td>
<td>9,089</td>
<td>8,929</td>
<td>8,168</td>
<td>8,000</td>
</tr>
<tr>
<td>Endowment income ($000)</td>
<td>-</td>
<td>975</td>
<td>1,011</td>
<td>1,063</td>
<td>1,192</td>
<td>1,300</td>
</tr>
<tr>
<td>Extramural funding/GPOB faculty member ($000)</td>
<td>188</td>
<td>289</td>
<td>265</td>
<td>255</td>
<td>233</td>
<td>216</td>
</tr>
</tbody>
</table>

1Headcount unless otherwise noted.
2Average numerical score of several criteria used by students to assess teaching performance of faculty members.
1 = Excellent; 2 = Very Good; 3 = Good; 4 = Fair; 5 = Poor; 6 = Very Poor.
3GPOB = Base recurring budget.
4WFTE calculated as 2 x (undergraduate + extrasessional + diploma/3) + 4 x Masters + 6 x Ph.D. students.
5Research + special purpose + endowment (until 1996/97; shown separately after this).
6Endowment income separated from extramural income from 1996/97 onwards.

This year we have had two retirements. Dr. Gene Namkoong, who served as head of the Forest Sciences Department and a professor of Forest and Conservation Genetics, is still making significant contributions to ongoing graduate student research although he was officially retired in 1999. A symposium on “Unifying Objectives of Evolution, Conservation and Breeding” was held in July 1999 to acknowledge Dr. Namkoong’s four decades of pioneering research in forest genetics. The event was attended by more than 110 participants representing ten countries in Europe, Asia, North and South America. Our second retirement was that of Dr. Laszlo Paszner who retired after 26 years as our professor of Wood Chemistry. Dr. Paszner was a graduate of the Sopron Division of UBC Forestry in 1958. His major research interests were in organosolv pulping and hydrolysis of wood carbohydrates to produce sugars and ethanol.

1999 Annual Report
Several faculty searches have been completed during the past year. We welcome Dr. Jörg Bohlmann who has a joint appointment between the Forest Sciences Department, the Botany Department and the UBC Biotechnology Laboratory. Dr. Bohlmann’s research deals with the biochemistry and molecular genetics of natural product biosynthesis in plants. Dr. Gregory Smith joined the Wood Science Department where he teaches the polymer science of adhesives and coatings as part of his ongoing research in composite wood products. Dr. Shawn Mansfield joined the Wood Science Department where he has a major responsibility for developing the one-year professional masters program in fibre and wood. Also in the Wood Science Department, Dr. Robert Kozak has been confirmed as an assistant professor of Forest Products Business Management. Faculty searches are underway in Industrial Engineering, Wood Products Processing and Recreation.

Undergraduate program enrolments have stabilised and decreased slightly as smaller intakes over the past two years work through the system. The review of professional B.S.F. programs by the Canadian Forestry Accreditation Board was completed and both the Forest Resources Management and the Forest Operations programs have been accredited to 2005. The B.S.F. curriculum review that was started by the Baskerville Task Force five years ago resulted in revised programs being submitted to Senate which has approved the overall plan and the details of the first two years of the new programs. In 1999/00 women comprised 33 per cent of the overall enrolment and almost 50 per cent of the students in Natural Resources Conservation and Forest Science. Women made up 30 per cent of the B.S.F. and 16 per cent of the Wood Products Processing student enrolments. Self-reported First Nations students totalled 21 representing 14 Nations. This is an increase of four over the previous year and we are looking forward to expanding these numbers as we play an increasing role in capacity building for the First Nations.

Close to 100 students are now enrolled in the Wood Products Processing program. This program continues to have 100 per cent placement of all students in co-op education positions in primary and secondary wood processing firms across Canada. The program underwent an independent external review during the year. A favourable report filed with Human Resources Development Canada has resulted in their release of endowment funding to the Centre of Excellence in Advanced Wood Products Processing Funding Society. This is a major compliment to all the faculty and industrial co-operators who have worked to successfully establish this program.

We have had 23 UBC students travel on international exchange and internship programs this past year and have hosted 40 students from 12 countries. We also received a tour of 19 graduate level students and 3 faculty from Europe in September as part of the Canada-European Union exchange program Human Dimensions in 21st Century Forestry. These programs are an example of the implementation of the internationalisation objectives of TREK 2000.

Graduate student enrolment was 217 last year. Of the 83 Ph.D. students, 26 per cent are women while 35 per cent of the Masters students are women. We have 34 countries represented by our 88 international graduate students with 17 coming from the United States of America and 14 from the People’s Republic of China.

The graduate diploma programs offered by the Silviculture and Forest Engineering Institute of British Columbia received recognition this year with a Forest Renewal B.C. Award for Excellence in Education. The Institute of Forest Engineering component was additionally recognised by the Association of B.C. Professional Foresters’ Forest Engineering Award of Excellence.

Although overall funding for research has declined from within the province, faculty have been successful in obtaining additional federal support from NSERC/SSHRC including the new Industry/NSERC-SSHRC/CFS partnership program. A wide range of sponsored research is detailed on page 34-38. Of special note is an innovative interdisciplinary series of grants that have been awarded to faculty to test new and innovative forestry practices in the Arrow District Innovative Forest Practices Agreement (IFPA). No CFI grants were received this year but faculty are applying for future support in this continuing federal and provincial research support program. It was my pleasure to participate in a visit to Ottawa with President Piper, senior administrators and deans in March to express our appreciation for continued federal support through the CFI program and the recently announced 21st Century Chair program.

We have continued to strengthen our relationships with donor and alumni giving. Forestry has one of the highest alumni participation rates of all faculties on campus. We greatly appreciate this continuing support.
Our two research forests continue to provide us with high quality teaching, research and demonstration areas. Each forest hosts a field school during the year. The interface with the communities on our forest edges has received special attention in Maple Ridge where an open space planning studio was conducted by Landscape Architecture students under the leadership of Dr. Stephen Sheppard. Results of these studies were presented to the Maple Ridge District Council and served to show the beneficial ways in which class exercises can be applied to real world challenges. Both research forests need to undertake infrastructure development. The Alex Fraser Research Forest is planning a new headquarters building that will be located on the Knife Creek Block. The Malcolm Knapp Research Forest celebrated 50 years of research and teaching in 1999. The original Loon Lake Camp needs redevelopment as the structure of the old log cabins begins to crumble. We would appreciate any help that readers might be able to give us with this undertaking. Society documents for the Aleza Lake Research Forest, situated 60 km east of Prince George, are in the final stages of approval. We hope to join with UNBC this summer to obtain the special use permit from the Ministry of Forests so that we can start the development of educational and research activities in the area.

Plans for 2000/2001

We are progressing in the development of our unit plans for each department and will have an overall Faculty plan by mid-summer. The following workshops and conferences are planned:

- “Streamlining Local-Level Information for Sustainable Forest Management” a conference being organised by Drs. John Innes and Gary Bull, to be held at UBC, August 28-30, 2000.
- “Emerging Markets for Carbon and Other Environmental Services” a workshop sponsored by Forest Trends, the Faculty of Forestry and the Government of B.C., to be held on October 4, 2000, organized by Dr. Gary Bull.
- “Global Vision for Forest 2050” a conference hosted by the Liu Centre for Global Issues and the Faculty of Forestry, being organised by Dr. Gary Bull, to be held at UBC, October 12-13, 2000.
- “The Nature and Culture of Forests: Implications of Diversity for Sustainability, Trade and Certification” a symposium to be held at the Forest Sciences Centre, May 10-11, 2001, being organized by the Institute for European Studies at UBC in cooperation with the Faculty of Forestry.

The search for a new Dean continues. With a full complement of faculty we look forward to developing the Faculty’s teaching and research capabilities and strengthening our interdisciplinary relationships with other units on campus. We also look towards greater provincial, national and international participation so that the global position of British Columbia is better understood by those who manage our extensive public resources and those who express opinions on the way we should manage our forests. I thank all those who have supported the Faculty of Forestry over the past year and would be happy to receive any advice that would improve the way we steward the resources entrusted to us.

John A. McLean
Acting Dean, Faculty of Forestry

1999 Annual Report 3
THE Faculty of Forestry offers four-year degree programs in the following five areas:

- **Forest Resources Management – B.S.F.**

  This major focuses on the multidisciplinary aspects of forest resources biology and management of forested ecosystems for such products as timber, grazing, wildlife, recreation aesthetics, fish and water. Students learn about the unique characteristics of each resource, their interactions, and the manipulation of forests to yield a variety of desirable products in the context of social and economic environments. The program prepares graduates for responsible careers in forest management as professional foresters. This program is also offered as a four-year International Forestry Specialization.

- **Forest Operations – B.S.F.**

  This major prepares the graduate for professional forestry responsibilities, with an emphasis on planning, design and administration of forest harvesting operations. Areas of study include: design and construction of forest roads and drainage structures; selection, planning and supervision of logging systems; site protection and rehabilitation; and the development of computer applications for harvesting systems.

- **Forest Science – B.Sc. (Forestry)**

  This degree is for students interested in more specialized study of the scientific principles related to the growth, development, and ecology of forest species. Emphasis is placed on basic and interactional phenomena that influence the establishment, growth, and development of trees and other forest resources. The core subjects include genetics, soils, weather and climate, tree form, tree function, ecology, entomology, pathology, silvics, silviculture, and fire science. This program is also offered as a four-year International Forestry Specialization.

- **Wood Products Processing**

  B.Sc. (Wood Products Processing)

  This program provides students with a broad knowledge of the wood products industry, including wood manufacturing, business management, and marketing. State-of-the-art wood processing equipment used during laboratory exercises enables students to develop skills in technical processes and operations carried out in today's industry. Students may choose an area of concentration in business, primary processing, product development, or wood building and design. In addition, qualified fourth year students may opt for a minor in Commerce. An extensive five-year co-operative option is available.

- **Natural Resources Conservation**

  B.Sc. (Natural Resources Conservation)

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

**PROGRAM UPDATES IN 1999-00**

- The current Forest Resources Management and Forest Operations programs were accredited by the Canadian Forestry Accreditation Board to 2005.
- Revisions to the Forest Resources Management program were approved by the Faculty of Forestry. Changes are currently before UBC Senate for final approval.
- Wood Products Processing filled 71 four-month placement sessions as part of the Cooperative Education program.
- More than a dozen Forest Operations students have chosen to follow the course syllabus to work towards a Professional Engineer designation as part of their undergraduate degree.
- The Natural Resources Conservation Career Services facility helped place over 20 students in 12 community outreach programs last year (www.forestry.ubc.ca/programs/webcontent/conspg.html).

**PLANS FOR 2000-01**

- Implement changes to first year of the Forest Resources Management program.
- Articulate the revised Forest Resources Management program with colleges and technical institutes in British Columbia.
- Investigate the possibility of block transfer into the Natural Resources Conservation degree from B.C. colleges offering two-year Natural Resources diplomas.
Forestry Undergraduate Recruiting

Student Services in the Faculty of Forestry is a team of professionals working to recruit students from a broad range of backgrounds, across B.C. and Canada. We visit career fairs, high schools, colleges and universities on a rotational basis to reach potential students. We also talk with principals, guidance counsellors, advisors and teachers to ensure that they are familiar with our programs of study, entrance requirements and transfer credits. Our office produces and supplies schools and community organizations with informational material for distribution to potential students. We also work closely with the UBC Student Recruitment Office in campus-wide new student initiatives, as well as out-of-province recruiting activities.

New Student Enrolment

In total, 164 new students entered the Faculty this year. The students entering into the different 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>109</td>
</tr>
<tr>
<td>2</td>
<td>42</td>
</tr>
<tr>
<td>3</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>164</strong></td>
</tr>
</tbody>
</table>

The chart below illustrates that the B.S.F. degree had the highest enrolment with 52 per cent of new students selecting this option. This percentage is down slightly from last year due to our reduction in the B.S.F. admission quota.

Female students represented 33.1 per cent of the total enrolment, a drop of five per cent over the previous year.

Total Enrolment

For the first time in the past decade, total undergraduate enrolment decreased from the previous year. Our 1999/00 enrolment dipped to 553 students, the lowest it has been since 1995/96. However, new enrolment increased by 5 per cent. We also welcomed 45 visiting and exchange students for the year.

Total enrolment and new enrolment 1990/91 – 1999/00

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

Distribution of students by program – 1999/00

<table>
<thead>
<tr>
<th>Program</th>
<th>Number enrolled</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Resources Management</td>
<td>217</td>
<td>39.2</td>
</tr>
<tr>
<td>Forest Operations</td>
<td>65</td>
<td>11.8</td>
</tr>
<tr>
<td>Forest Science</td>
<td>33</td>
<td>6.0</td>
</tr>
<tr>
<td>Wood Products Processing</td>
<td>98</td>
<td>17.7</td>
</tr>
<tr>
<td>Natural Resources Conservation</td>
<td>116</td>
<td>21.0</td>
</tr>
<tr>
<td>Undeclared (first year students)</td>
<td>24</td>
<td>4.3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>553</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Female students represented 33.1 per cent of the total enrolment, a drop of five per cent over the previous year.
### Undergraduate Students

#### FIRST YEAR STUDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almond, M.E.</td>
<td>Wood</td>
</tr>
<tr>
<td>Burpee, S.E.</td>
<td>Northwood</td>
</tr>
<tr>
<td>Burke, M.W.</td>
<td>Wood</td>
</tr>
<tr>
<td>Chambers, P.B.</td>
<td>Wood</td>
</tr>
<tr>
<td>Desmarais, J.D.</td>
<td>Wood</td>
</tr>
<tr>
<td>Hajian Moghadam, S.</td>
<td>Wood</td>
</tr>
<tr>
<td>Harrison, K.M.</td>
<td>Weldwood</td>
</tr>
<tr>
<td>Larre, J.C.</td>
<td>Wood</td>
</tr>
<tr>
<td>Nitschke, C.</td>
<td>Brock</td>
</tr>
<tr>
<td>Palmer, G.J.</td>
<td>Wood</td>
</tr>
<tr>
<td>Peers, J.R.</td>
<td>ABCPF¹, Banks, Brock</td>
</tr>
<tr>
<td>Ryoo, A.</td>
<td>Wood</td>
</tr>
<tr>
<td>Stony, K.J.</td>
<td>Banks</td>
</tr>
<tr>
<td>Ukrainetz, N.K.</td>
<td>Banks, MacMillan¹</td>
</tr>
<tr>
<td>Vachon, E.R.</td>
<td>Wood</td>
</tr>
<tr>
<td>West, R.A.</td>
<td>Banks, Brock, MacMillan¹</td>
</tr>
</tbody>
</table>

#### SECOND YEAR STUDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bains, S.</td>
<td>Wood</td>
</tr>
<tr>
<td>Bock, S.J.</td>
<td>PRT, Splan</td>
</tr>
<tr>
<td>Boyd, A.P.</td>
<td>J.R. Mills</td>
</tr>
<tr>
<td>Crellin, F.S.</td>
<td>Beatty, Splan</td>
</tr>
<tr>
<td>D’aoust, J.</td>
<td>Berthier</td>
</tr>
<tr>
<td>Danforth, H.L.</td>
<td>Soddoo</td>
</tr>
<tr>
<td>Francis, M.K.</td>
<td>Splan</td>
</tr>
<tr>
<td>Gregory, S.C.</td>
<td>Christ</td>
</tr>
<tr>
<td>Hantelmann, L.</td>
<td>Brock</td>
</tr>
<tr>
<td>Hodson, J.D.</td>
<td>Weldwood</td>
</tr>
<tr>
<td>Klassen, L.L.</td>
<td>MacMillan¹, Splan</td>
</tr>
<tr>
<td>Kneeland, E.L.</td>
<td>Brock, R.E. Mills</td>
</tr>
<tr>
<td>Litman, I.</td>
<td>Wood</td>
</tr>
<tr>
<td>McCachlan, S.L.</td>
<td>Banks, Soddeman</td>
</tr>
<tr>
<td>Mee, J.A.</td>
<td>ABCPF¹, Banks, Brock, Little</td>
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<tr>
<td>Panice, A.</td>
<td>Brock</td>
</tr>
<tr>
<td>Paulsen, A.</td>
<td>Brock</td>
</tr>
<tr>
<td>Payne, K.L.</td>
<td>Machinery, Splan</td>
</tr>
<tr>
<td>Player, J.T.</td>
<td>Wellwood</td>
</tr>
<tr>
<td>Pursborg, T.</td>
<td>Splan</td>
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<tr>
<td>Rodrigues, J.</td>
<td>Chisholm, Johnson</td>
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<tr>
<td>Schulz, R.J.</td>
<td>MacMillan¹, Soddeman</td>
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<tr>
<td>Siwallace, S.B.</td>
<td>Ketchum</td>
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<td>Slater, D.M.</td>
<td>Splan</td>
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<tr>
<td>Tania, V.</td>
<td>Brock</td>
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<tr>
<td>Willems, J.L.</td>
<td>Splan</td>
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</tbody>
</table>

#### THIRD YEAR STUDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
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<tbody>
<tr>
<td>Anderson, A.E.</td>
<td>Banks</td>
</tr>
<tr>
<td>Blomfield, H.D.</td>
<td>Chisholm</td>
</tr>
<tr>
<td>Burns, S.R.</td>
<td>Timberline, Splan</td>
</tr>
<tr>
<td>Cockle, K.L.</td>
<td>Craig, Splan</td>
</tr>
<tr>
<td>Davis, N.A.</td>
<td>Brock, Splan</td>
</tr>
<tr>
<td>Erdelsson, J.L.</td>
<td>Siddoo, Soddeman</td>
</tr>
<tr>
<td>Forbes, L.</td>
<td>Backman¹, Splan</td>
</tr>
<tr>
<td>Gooding, N.D.</td>
<td>Bier, Haddock, Northwood</td>
</tr>
<tr>
<td>Hales, S.M.</td>
<td>Splan, Whittall</td>
</tr>
<tr>
<td>Jukes, K.E.</td>
<td>Splan</td>
</tr>
<tr>
<td>Lam, J.L.T.</td>
<td>Steiner</td>
</tr>
<tr>
<td>Lam, K.K.</td>
<td>Wellwood</td>
</tr>
<tr>
<td>Lam, M.H.Y.</td>
<td>Splan</td>
</tr>
<tr>
<td>LeCouteur, A.C.</td>
<td>Alumni, Whittall</td>
</tr>
<tr>
<td>Louie, K.C.</td>
<td>English, Whittall</td>
</tr>
<tr>
<td>Luiisser, F.S.</td>
<td>Wood</td>
</tr>
<tr>
<td>Lyall, A.J.</td>
<td>Binkley²</td>
</tr>
<tr>
<td>McGladdery, W.T.</td>
<td>Chisholm, Whittall</td>
</tr>
<tr>
<td>McCloud, J.</td>
<td>Elkington, Whittall</td>
</tr>
<tr>
<td>Mills, T.J.</td>
<td>ABCPF², Backman²</td>
</tr>
<tr>
<td>Reed, R.M.</td>
<td>Splan</td>
</tr>
<tr>
<td>Reedman, D.M.</td>
<td>Splan</td>
</tr>
<tr>
<td>Reuter, E.S.</td>
<td>Johnson</td>
</tr>
<tr>
<td>Rodrigues, J.</td>
<td>Backman², Splan</td>
</tr>
<tr>
<td>Stavness, C.L.</td>
<td>Splan</td>
</tr>
<tr>
<td>Wunderlick, A.W.</td>
<td>Soddeman</td>
</tr>
</tbody>
</table>

#### FOURTH YEAR STUDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burke, M.</td>
<td>Wood</td>
</tr>
<tr>
<td>Caskey, J.R</td>
<td>ABCPF¹, MacMillan³</td>
</tr>
<tr>
<td>Krajewicz, C.</td>
<td>Wood</td>
</tr>
<tr>
<td>Lee, O.</td>
<td>Wood</td>
</tr>
<tr>
<td>Meiklem, E.</td>
<td>Wood</td>
</tr>
<tr>
<td>Payne, L.D.</td>
<td>Binkley¹</td>
</tr>
<tr>
<td>Pegg, M.S.D.</td>
<td>ABCPF³</td>
</tr>
<tr>
<td>Tam, K.</td>
<td>Wood</td>
</tr>
<tr>
<td>Tyler, K.</td>
<td>Wood</td>
</tr>
<tr>
<td>Westgate, B.</td>
<td>CIF Medal</td>
</tr>
<tr>
<td>Wild, J.</td>
<td>MacMillan³</td>
</tr>
</tbody>
</table>

---

**Full Name of Award**

ABC³ Scholarship.

ABC¹ Best Graduating Thesis.

UBC Forestry Alumni Division.

Backman¹ Schol. in Nat. Resour. Con.

Backman¹ Schol. in For. Resour. Mgmt.

Charles & Jane Banks Schol.

John D. Beauty Memorial Schol.

Pierre Berthier Ed. Abroad Schol.

John E. Bier Memorial Prize in Forest Pathology.

Clark Binkley¹ Award in Natural Resources Conservation.

Emily & Francis Binkley² Schol.

Hugh M. Brock Ed. Abroad Schol.

Hugh R.D. Chisholm Schol. in Forestry.

ABC² Norman B. Christ Memorial Prize.

Canadian Institute of Forestry Medal.

Robert J. Craig Memorial Schol.

Galt Elkington Memorial Schol.

Barry English Memorial Award.

Walter H. Gage & Elsie M. Harvey Ed. Abroad Schol.

Phil Haddock Prize in Silviculture.

Ted Johnson Schol. in Forestry.

Janet Ketchum Schol.

Malcolm Knapp Spring Camp Prize.

David Bell Little Memorial Schol.

Machinery & Supply Companies Group Forestry Schol.

H.R. MacMillan¹ Schol. in Forestry.

H.R. MacMillan¹ Prize in Forestry.

H.R. MacMillan¹ Prize in For. Harv.

James Russell Mills Memorial Award.

Robert E. Mills Memorial Award.

Northwood Pulp and Timber Limited.

Pacific Regeneration Technologies Inc.

Silviculture Schol.

Kapoor Singh Siddoo Schol.

Oscar Soddeman Memorial Schol.

William John Splan Schol. in Forestry.

Paul R. Steiner Memorial Schol. in Wood.

Daniel J. Stenecker Ed. Abroad Schol.

Timberline Schol.

Weldwood Schol. in Forestry.

Mary & Robert Wellwood Memorial Schol. in Wood Sci. & Ind.

Weldwood of Canada Ltd., H. Richard Whittall Schol.

UBC Wood Products Processing Awards.
Degrees Conferred, May 1999 and November 1999 Congregations

**B.S.F. Forest Resources Management**

Amos, M.J.
Armanini, C.G.
Auld, G.S.
Bandola, T.D.
Banerjee, O.
Banks, L.J.
Barr, R.A.
Beaton, B.J.
Belik, J.S.
Boeckh, R.A.
Bowering, M.S.
Chessor, L.C.
Chung, D.H.V.
Culos, A.P.
Davics, J.R.
Davis, M.
DeLury, M.
DcVuono, S.
Dcwar, S.C.
Drill, Z.
Dudek, S.
Dunnet, G.
Ely, C.P.
Emperador, J.F.
Errington, R.C.
Gabert, J.R.
Glen, S.
Grant, M.J.
Gryba, S.M.
Guite, M.A.
Hansen, S.P.
Harvey, T.A.
Hicks, J.D.
Hikisch, C.M.
Hunter, W.A.
Jezowski, A.C.
Jorgenson, G.R.
Kerr, D.L.
Labonte, D.J.
Larsen, S.D.
Lefebvre, N.
Leo, J.Y.H.
Lucas, A.B.
Lutkehaus, M.A.
MacVicar, D.E.
McDonald, G.M.
McFetridge, M.J.
McGeachan, J.J.
McNaughton, M.A.
Mitchell, S.A.
Moodie, C.J.
Mullett, D.J.W.
Newton, J.A.
Nichols, P.J.
Norlander, K.E.
Opal, T.I.
Ortlepp, S.
Ospina, D.M.
Parker, J.N.
Parr, E.N.
Pflautz, A.M.
Poburko, J.S.
Ratzlaff, K.R.
Rawsthorne, G.J.
Reynolds, J.A.
Robertson, C.S.
Rogers, J.D.
Sasi, G.J.
Savola, P.
Sear, M.
Singleton, T.P.
Sumi, L.
Taylor, S.H.
Warnock, D.
Watson, B.W.
Westgate, B.A.
Wong, A.Y.
Zacher, K.M.
Zajac, T.
Zander, D.A.
Zieljellie, B.C.

**B.S.F. Forest Operations**

Atwal, R.S.
Bjerg, C.N.
Caskey, J.R.
Drake, S.V.
Friesen, R.R.
Matters, O.C.
Morgan, D.
Norton, S.
Pegg, M.S.D.
Rimac, J.
Saiki, L.N.
Saito, G.
Smith, R.S.
Swanson, C.M.
Vanstone, B.R.
Wallin, P.J.

**B.Sc. (Forestry) Wood Science & Industry**

Campbell, C.P.

**B.Sc. (Wood Products Processing)**

Abou Amara, Wael
Crowhurst, S.A.
Harsch, S.K.
Lavj, R.M.
MacKenzie, A.J.
Muter, D.M.R.
Shen, H.F.
Steed, N.H.G.
Sweatman, T.W.

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

Berlink, E.
Blasy, V.E.
Brumovskyy, L.T.
Cameron, E.K.
Coombs, R.J.
Culham, M.J.
Eiswerth, M.M.
Embley, E.
Gola, D.L.
Haddock, R.L.
Hayhurst, D.C.
Hayward, A.J.
Johnson, R.L.A.
Joseph, L.
Larson, C.E.
Madia, A.L.
Momeyer, E.C.
Muller, D.W.
Ng, C.S.
Noon, D.M.
Omstead, J.
Payne, L.D.
Perrakis, D.D.
Plett, M.F.G.
Robertson, M.D.
Szkoorupa, T.D.
Tatuch, M.N.
Turner, J.N.
van Barneveld, L.A.
Weber, S.E.
Wild, J.A.
Wilkerson, C.D.

**Diploma in Forestry (Advanced Silviculture)**

Bavis, R.P.
Daintith, N.M.
Lucas, P.R.
Power, C.
Strucel, I.
Taylor, N.
Wickman, M.E.

---

**GRADUATION STATISTICS**

Undergraduate Students

**Number of Graduates**

![Graph showing the number of students graduating from 1985 to 1999.](image)

*Number of students graduating 1985 – 1999*
**Graduate Programs**

The Faculty of Forestry offers four graduate degrees:
- Doctor of Philosophy – Ph.D.
- Master of Forestry – M.F.
- Master of Science – M.Sc.
- Master of Applied Science – M.A.Sc.

**Enrolment Trends**

Enrolment in the Forestry graduate program has grown by almost 80 per cent over the past decade. Today there are 217 graduate students registered in the Faculty. The graph below illustrates the distribution of these students between the different degree programs. The greatest growth has been in the number of Masters students – in 1989 there were only 70 enrolled in the program, whereas today there are 134 students. In this same period the number of Doctoral students has risen from 51 to 83.

Women comprise 37 per cent of our Masters and 28 per cent of our Doctoral students, for an overall average of 33 per cent. The following table shows enrolment data for 1999/00.

<table>
<thead>
<tr>
<th>Degree</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D.</td>
<td>60</td>
<td>23</td>
<td>83</td>
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<tr>
<td>M.F.</td>
<td>13</td>
<td>0</td>
<td>13</td>
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<tr>
<td>M.Sc.</td>
<td>70</td>
<td>49</td>
<td>119</td>
</tr>
<tr>
<td>M.A.Sc.</td>
<td>2</td>
<td>0</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td>145</td>
<td>72</td>
<td>217</td>
</tr>
</tbody>
</table>

As of December, 1999.

The proportion of graduate students from outside of Canada has increased this past year and presently stands at 58 per cent of Doctoral and 28 per cent of Masters students. A total of 26 countries are represented in the graduate student body.

**Graduate Student Funding**

In the 1999/00 academic year, Forestry graduate students were awarded support totalling $2,029,365, a 5.5 per cent decrease from 1998/99 funding levels. Graduate support consisted of $697,359 in scholarship funding, $304,252 in graduate teaching assistantships and $1,027,754 in graduate research assistantships (provided by research supervisors from their research grants).

<table>
<thead>
<tr>
<th>Department</th>
<th>No. graduate students</th>
<th>Total funding</th>
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<tbody>
<tr>
<td>Forest Resources Management</td>
<td>63</td>
<td>$398,663</td>
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<tr>
<td>Forest Sciences</td>
<td>104</td>
<td>$1,116,779</td>
</tr>
<tr>
<td>Wood Science</td>
<td>50</td>
<td>$513,923</td>
</tr>
</tbody>
</table>
MASTERS STUDENTS

Affleck, David
Alden, Janice
All, Dilara
Bal, Amandeep Singh
Baleshta, Karen
Bothwell, Karen
Collins, Bradley
Deck, Julian
Farrell, Ross
Fernandez, Marc
Fleet, Carlos
Haag, Devon
Hannam, Kirsten
Kovacs, Christina
Lavery, John
Luzi, David
Maxey, Katherine
Mou, Desiree
Nairn, James
Paczek, Susan
Petersen, Heidi
Ristea, Catalin
Schnorbus, Marc
Sharma, Rajeev
Squires, Kelly
Vera, Paula

UGF
Namkoong
UGF
McPhee
GREAT
McPhee
Commonwealth, GREAT
Heller, McPhee
NSERC Industrial
GREAT
GREAT
VanDusen
McPhee
McPhee
NSERC
Canfor
McPhee
McPhee
NSERC
UGF
Weldwood
McPhee
NSERC
UGF, NSERC

DOCTORAL STUDENTS

Albani, Marco
Bennett, Jennifer
Bennuah, Sampson
Boyland, Mark
Brashares, Justin
Cao, Fuiliang
Clouston, Peggi-Lynn
Hope, Sharon
Iddrisu, Mohammed
Ivkovich, Milosh
Koumoutsakos, Anastasios
Kull, Bob
Lu, Yanpin
Mahony, Nancy
McDermott, Constance
McIntire, Eliot
Miraoui, Ahmed
Moss, lan
O’Connell, Lisa
Pavel, Mihai
Ramsfield, Tod
Rangel, Jose-Luis
Ratkovic, Nevena
Robinson, Jamie
Suratman, Nazip
Wang, Honglong
Weber, Adrian
Young, Kyle
Zhang, Xiao

UGF
GREAT
Commonwealth
NSERC Industrial
Hoffmeister
McPhee
VanDusen
VanDusen
GREAT
VanDusen
McPhee
NSERC
VanDusen
GREAT
VanDusen
NSERC
UGF
VanDusen
UGF
GREAT
CONYCT
GREAT
VanDusen
GREAT
UGF
GREAT
VanDusen
GREAT

SCHOLARSHIPS AND FELLOWSHIPS

Graduate Students

Full Name of Award

George S. Allen Memorial Scholarship.
Edward W. Bassett Memorial Scholarship in Reforestation.
Canadian Forest Products Ltd. Fellowship in Forest Wildlife Management.
Hugh Robert Duncan Chisholm Scholarship in Forestry.
Ralph M. and Elizabeth E. Cochran Scholarship.
Commonwealth Scholarship.
CONYCT (Mexico Council of Science and Technology).
Graduate Research Engineering And Technology Awards.
Brenda Hanson Memorial Scholarship in Forestry.
Paul Heller Fellowship.
Bert Hoffmeister Scholarship in Forest Wildlife.

Asa Johal Graduate Fellowship in Forestry
Donald S. McPhee Fellowship.
Namkoong Family Fellowship in Forest Sciences.
Natural Sciences and Engineering Research Council of Canada Scholarship.
Natural Sciences and Engineering Research Council of Canada Industrial Postgraduate Scholarship.
Timberwest Forest Limited Fellowship in Forest Resource Management and Planning.
University Graduate Fellowship.
VanDusen Graduate Fellowship.
Weldwood of Canada Ltd.
Weyerhaeuser Fellowship in Wood Design Management.

1999 Annual Report 9
Degrees Conferred, May 1999 and November 1999 Congregations

M.F.

BUGNOT, Jean-Loup  Dr. P.L. Marshall
Effects of spacing on multi-aged interior Douglas-fir stands in central British Columbia.

M.A.Sc.

HOCKEY, Blake  Dr. F. Lam
Truss plate reinforced bolted connections in parallel strand lumber.

M.Sc.

BARTEL, Joseph  Dr. A. Kazak
A study on the effects of multicollinearity autocorrelation and four sampling designs on the predictive ability of the 1994 and 1995 variable exponent taper functions.

CHANDRA, Richard  Dr. J.N. Saddler
Improving the brightness and bleachability of Douglas-fir mechanical pulps using white-rot fungi and lascase enzymes.

DECKER, Scott  Dr. S.G. Hinch
Effects of primary production and other factors on the size and abundance of juvenile coho salmon in artificial off-channel habitat.

DETTMAN, Jeremy  Dr. B. van der Kamp
The population structure of Armillaria ostoyae in the central and southern interior of British Columbia.

DOBSON, Diana  Drs. S.N. Aitken/S.G. Hinch
Habitat-specific genetic and phenotypic differentiation in juvenile coho salmon.

DODDS, Stephen  Dr. P. Wood
Forest development, First Nations and distributive justice in Mackenzie forest district.

DUBOIS, Jason  Dr. J.N.R. Ruddick
The biotransformation of didecyldimethylammonium chloride by the Hyphomycetes Gliocladium roseum and Verticillium bulbillosum.

HURD, Thomas  Dr. F.L. Bunnell
Factors limiting moose numbers and their interactions with elk and wolves in the central Rocky Mountains, Canada.

KIM, Micheline  Dr. J.S. Richardson
The influence of light and nutrients on interactions between a tadpole grazer and periphyton in two coastal streams.

LAKE, Randall  Dr. S.G. Hinch
Activity and behavior in spawning sockeye salmon.

LESSARD, Robert  Dr. D.E.N. Tait
Spatial and temporal dynamics of forest disturbance: A stochastic simulation model.

LISGO, Kimberly Ann  Dr. F.L. Bunnell
Ecology of the short-tailed weasel (Mustela erminea) in the mixedwood boreal forest of Alberta.

MASCARENHAS, Michael  Dr. D.B. Tindall
Understanding land and resources management planning processes: A qualitative approach.

McARTHUR, Michael  Dr. J.S. Richardson
Microbial utilization of dissolved organic matter leached from riparian tree species of different seral stages.

McCORMICK, James  Dr. F.L. Bunnell
A food-based habitat-selection model for grizzly bears in Kluane National Park, Yukon.

NEW, David  Dr. K. Klinka
Productivity of western larch in relation to categorical measures of climate, soil moisture, and soil nutrients.
ROHLFS, Doris
Dr. J.A. McLean
A study of acorn feeding insects: filbert weevil (*Curculio occidentis* (Casey)) and filbertworm (*Cydia latiferrea*) (Walsingham) on Garry oak (*Quercus garryana* (Dougl.)) in the southeastern Vancouver Island area.

ROWELL, Douglas
Dr. C. Prescott
Modelling nitrogen mineralization from biosolids.

SEEWALD, Eric
Dr. L. Paszner
The quantification of Oligomeric proanthocyanidins in the inner and outer barks of selected B.C. conifers.

SERROUYA, Robert
Dr. S.M. Glenn
Permeability of the Trans-Canada Highway to black bear movements in the Bow River Valley of Banff National Park.

SHAW, Ernest Albert
Dr. J.S. Richardson
The effects of fine sediment pulse duration on a stream invertebrate assemblage and growth and mortality of rainbow trout.

TOLLAND, Lynne
Dr. R. Sidle
1. Estimating the Q100 in British Columbia: A practical problem in forest hydrology.
2. Estimating peak flows from forested watersheds in British Columbia.

ZHI, Jiwei
Dr. G. Namkoong
Theoretical models of segregation variance in F2 populations and their application in Douglas-fir.

HAILEMARIAM, Temesgen
Dr. V.M. LeMay
Leaf area distribution and alternative sampling designs for hybrid spruce tree crowns.

HAMANN, Andreas
Dr. G. Namkoong
Utilization and management of red alder genetic resources in British Columbia.

KONG, Xianhua
Dr. J.D. Nelson
Incorporating landscape pattern features in a spatial harvest model.

LU, Congjin
Dr. F. Lam
Organization of wood elements in partially oriented flakeboard mats.

MITCHELL, Stephen
Dr. G.F. Weetman
Assessing and promoting windfirmness in conifers in British Columbia.

MITCHELL-BANKS, Paul
Dr. D. Haley
Tenure arrangements for facilitating community forestry in British Columbia.

NELSON, Harry
Dr. D. Haley
Spatial pricing patterns and market power: theory and evidence from the B.C. interior pulp fibre market.
McLEAN, John A.
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BREUIL, Colette
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**Associate Dean, Graduate Studies and Research**
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**Associate Dean, Undergraduate Studies**
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Responsible for directing external relations activities, for promoting research, for coordinating project proposal development and for producing Faculty Newsletters and Annual Reports.
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BOE, Thor  
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Coordinator  
First Nations Forestry Programs

Recruitment Officer  
Wood Products Processing Program

Associate Director  
International Forestry Programs

ALIVOJVODIC, Barbara  
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B.A. (Calif., Santa Barbara)  
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E-mail: intprogs@intcrchg.ubc.ca

TURNER, Ron  
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E-mail: turner@interchg.ubc.ca

VOGLER, Hiltrud M.  
Graduate Programs Secretary  
Phone: (604) 822–6177  
E-mail: gradfor@interchg.ubc.ca

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<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Education</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SADDLER, Jack N.</strong></td>
<td>Professor, NSERC Industrial Senior Chair and Head</td>
<td>• Forest Products Biotechnology</td>
<td>(604) 822-9741</td>
<td><a href="mailto:saddler@interchg.ubc.ca">saddler@interchg.ubc.ca</a></td>
</tr>
<tr>
<td><strong>AVRAMIDIS, Stavros</strong></td>
<td>Professor</td>
<td>• Wood Physics and Drying</td>
<td>(604) 822-6153</td>
<td><a href="mailto:stavros@interchg.ubc.ca">stavros@interchg.ubc.ca</a></td>
</tr>
<tr>
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Retirement

PASZNER, Laszlo
Dr. Laszlo Paszner retired on December 31, 1999 after 32 years of service in the Faculty of Forestry. Les taught and carried out research in wood chemistry and continues to work in this area.

New Faculty Appointments

MANSFIELD, Shawn D.
Dr. Shawn Mansfield has joined the Department of Wood Science as an assistant professor. He obtained a B.Sc. (Hons.) in biology from Mount Allison University and a M.Sc. in microbiology from Dalhousie. After graduating from UBC with a Ph.D. in wood science, Shawn spent two years as a research scientist at the New Zealand Forest Research Institute. Shawn has returned “home” to UBC to help develop and teach in our new one-year non-thesis masters program in fibre and wood. His research interests focus on understanding how fibre morphology and chemistry/biochemistry influence wood, fibre and pulp properties.

SMITH, Gregory
Dr. Gregory Smith has joined the Department of Wood Science as an assistant professor. He is a graduate of UBC with a B.A.Sc. and M.A.Sc. in metals and materials engineering and a D.Sc.T. in polymer science from the Swiss Federal Institute of Technology. Greg spent two years with MacMillan Bloedel Research in Vancouver working on adhesion issues, and one year with Forintek Canada Corp. working on blending dynamics for OSB. Greg will be teaching the polymer science of adhesives and coatings, the fundamentals of composite wood properties, and the processing of reconstituted wood composites. His research interests are focussed on understanding the processing-structure-property relationships of wood composites.

Achievements in 1999–00

- Completed searches for faculty in Wood Composites (Dr. Gregory Smith) and Forest Products Business Management (Dr. Robert Kozak).
- Delivered “dry-run” of modular, graduate Masters program in Fibre and Wood, Research and Education in Science and Technology (FAWREST).
- Offered first of several planned “Distance Education”, web-based courses. The first course entitled “Managing Technology for Value Delivery” was successfully completed with students based on three continents.
- Increased enrolment of undergraduate Wood Products Processing degree program to almost 100 students.
- Through the efforts of the Centre for Advanced Wood Processing, 100 per cent of our eligible Wood Products Processing students received co-op placements in primary and secondary wood processing firms across Canada and internationally.
- Faculty members from the Fachhochschule Rosenheim and the Berner Fachhochschule continued to make a significant contribution to the design and delivery of the Wood Products Processing program.
- The Department of Wood Science was accepted as a full member in EU COST Action E15 “Advances in the Drying of Wood”. This is the first time that a non-European university has been accepted into a COST Action as a full member.
- Drs. Saddler and Breuil received NSERC strategic grants.

Plans for 2000–01

- Continue Faculty searches for Secondary Manufacturing and Industrial Engineering positions.
- Continue to increase enrolment in the undergraduate Wood Products Processing program and continue to have 100 per cent placement in the co-op option.
- Develop and integrate graduate courses in the Fibre and Wood and Wood Products Processing options.
- Develop support for proposed graduate program in Wood Building Design and Construction.
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VARGA, Pal
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Promotion

AITKEN, Sally - promoted to associate professor effective July 1, 2000.

Retirements

NAMKOONG, Gene
Dr. Gene Namkoong retired on June 30, 1999 after four decades of pioneering research in forest genetics and five years as head of Forest Sciences at UBC. Gene remains actively involved in the Faculty and will be co-teaching a month long course on forest gene resource management this summer.

WEETMAN, Gordon
Dr. Gordon Weetman retired in October 1999 after 22 years of service to UBC. Gordon continues to be active in teaching and research through the Silviculture and Forest Engineering Institute of B.C. and several continuing graduate students.

New Faculty Appointments

ARCESE, Peter
Dr. Peter Arcese joined the Forest Sciences Department in July 1999 as an associate professor and Forest Renewal BC Chair in Applied Conservation Biology.

Peter received his Ph.D. in zoology from UBC in 1988. For the following three years he was a postdoctoral fellow, firstly at UBC and then at Simon Fraser University. From 1992-1999 Peter held the position of assistant professor in the Department of Wildlife Ecology at the University of Wisconsin – Madison.

BARKER, John
Dr. John Barker has joined the Forest Sciences Department as a professor and Forest Renewal BC Chair in Silviculture.

John received his Ph.D. in forestry from the University of California, Berkeley, in 1972. From 1969 to 1978 John was a lecturer at the University of Canterbury in New Zealand. He then returned to Canada as an associate professor at Lakehead University until 1980 when he joined Western Forest Products as a research forester. He rose to the position of Manager, Technical Forestry Services, before leaving industry for his new appointment at UBC.

BOHLMANN, Jörg
Dr. Jörg Bohlmann has joined the UBC Biotechnology Laboratory as an assistant professor with cross appointments in the Departments of Forest Sciences and Botany. Jörg obtained his Diploma degree and a Ph.D. in biology from the Technical University of Braunschweig, Germany. He spent three years as an Alexander-von-Humboldt Fellow at Washington State University followed by two years as a group leader at the Max Planck Institute for Chemical Ecology. His research deals with the biochemistry and molecular genetics of natural product biosynthesis in plants. Jörg is interested in contacting industrial partners to pursue applied aspects of his research on natural defenses in conifers against insects and pathogens.

ACHIEVEMENTS IN 1999–00

- A team of researchers (including Hamish Kimmins, Fred Bunnell and Brad Seely from Forest Sciences) have been awarded a 2-year grant from the Arrow District Innovative Forest Practices agreement. This initiative is to test new and innovative forestry practices to improve forest productivity and to create and maintain forestry jobs while protecting environmental values.
- The administrative services of the Centre for Applied Conservation Biology and the Forest Sciences Department were amalgamated in May 1999. Under this reorganization, our Department serves as the central resource for administration support and coordination.
- Drs. Bunnell, Nelson and van Kooten received a 3-year grant from NSERC/CFS to examine biological and economic consequences of structure-based forest management.
- Drs. Aitken, Arcese and Prescott received NSERC project research grants for the first time.

PLANS FOR 2000–01

- Finalize the Departmental Academic Plan.
- Implement several new courses in conjunction with the new undergraduate curriculum in Forest Resources Management.
- Maintain high level of proposals to NSERC, Forest Renewal BC and other funding agencies.
- Offer an advanced training course in Forest Gene Resource Management with Drs. Namkoong, Ritland, El-Kassaby, Aitken, Koshy and Yanchuk as instructors.
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HALEY, David
Professor
- Forest Economics, Forest Policy Analysis
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Associate Professor (Forest Resources Management, Political Science)
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INNES, John L.
Professor and Forest Renewal BC Chair in Forest Management
- Sustainable Forest Management
Phone: (604) 822-6761
E-mail: innes@interchg.ubc.ca

KOZAK, Antal
Professor
- Biometrics, New Methodology for Forest Inventory
Phone: (604) 822-3545
E-mail: kozak@interchg.ubc.ca

LEMA, Valerie M.
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- Biometrics/Mensuration
Phone: (604) 822-3459
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LUMIES, Donald
Assistant Professor (Forest Resources Management, Landscape Architecture)
- Landscape Design, Visual Resource Management
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E-mail: luymes@interchg.ubc.ca

MARMALL, Peter L.
Professor and Associate Dean
- Growth and Yield, Sampling Design
Phone: (604) 822-4918
E-mail: marshall@interchg.ubc.ca

MOORE, R. Dan
Associate Professor (Forest Resources Management, Geography) and Forest Renewal BC Chair in Hydrology
- Hydrology
Phone: (604) 822-3538
E-mail: rdmoore@geog.ubc.ca

MURTHA, Peter A.
Professor
- Remote Sensing, Image Analysis, Satellite Data Interpretation, Land Classification and Terrain Analysis
Phone: (604) 822-6452
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1999 Annual Report 25
SHEPPARD, Stephen R.J.
Associate Professor (Forest Resources Management, Landscape Architecture)
• GIS, Visual Management, Planning
Phone: (604) 822-6582
E-mail: shep@interchg.ubc.ca

SIDLE, Roy C.
Professor and Forest Renewal BC Chair in Forest Hydrology (Forest Resources Management, Geography)
• Forest Hydrology
B.S. (1970), M.S. (1972) Arizona,
Ph.D. (1976) Penn. State
Phone: (604) 822-3169
E-mail: sidle@interchg.ubc.ca

TAIT, David E.N.
Assistant Professor and Director, Professional Forestry Programs
• Optimization Techniques, Forest Planning
Phone: (604) 822-2997
E-mail: dtait@interchg.ubc.ca

TINDALL, David B.
Assistant Professor (Forest Resources Management, Sociology)
• Sociology/Conservation
Ph.D. (1994) Tor.
Phone: (604) 822-2550/2363
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VAN KOOTEN, G. Cornelis
Professor (Forest Resources Management, Agricultural Sciences)
• Economics of Natural Resources
Phone: (604) 822-3163
E-mail: gerrit@interchg.ubc.ca

WOOD, Paul
Assistant Professor (on leave)
• Conservation Policy, Environmental Ethics
Phone: (604) 822-0951
E-mail: paulwood@interchg.ubc.ca

HAGGERSTONE, Bruce
B.Sc. (Brit. Col.), M.L.A. (Harv.)
• Forest Recreation

HARTLEY, M. Isobel
B.Sc., M.Sc. (Brit. Col.)
• Forest Ecology

WOLFE, Larry
B.Sc., M.B.A. (Brit. Col.), MCIP, R. Planner
• Planning and Policy Development

Honorary Lecturer
SAUDER, Brent J.
(BC Advanced Systems Institute)
B.S.F., M.F. (Brit. Col.), R.P.F.
• Forest Harvesting & Technology Development

Research Associate
HAILEMARIAM, Temesgen
B.Sc. (AUA), M.Sc.F. (Lake.), Ph.D. (Brit. Col.)
• Forest Biometrics

Post-doctoral Fellows
DHAKAL, Amod
B.E., Civil Eng. (Roorkee, India), M.E.Sc.,
Ph.D. (Tsukuba), Killiam Postdoctoral Fellow
• Erosion Control Engineering

MEITNER, Michael
B.Sc., M.A., Ph.D. (Arizona)
• Forest Visualization and Perception

Adjunct Professors
COTTELL, Philip L.
(Consultant)
B.S.F., M.F., Ph.D., R.P.F.
• Forest Harvesting and Building Products

DEMAERSCHALK, Julien P.
(Consultant)
B.S.F., M.F., Ph.D.
• Forest Inventory, Biometrics and International Forestry

HALL, Thomas H.
(B.C. Ministry of Forests)
B.A., M.Sc., M.Sc.F., Ph.D., R.P.F.
• Forest Planning, Forest Recreation and Timber Supply Analysis

HOGAN, Dan
(B.C. Ministry of Forests)
• Geomorphology

HUDSON, Robert
(B.C. Ministry of Forests)
B.Sc., M.Sc., Ph.D., R.P. Geo.
• Forest Hydrology

ILES, Kimberley
(Consultant)
B.S., M.Sc., Ph.D.
• Forest Inventory Specialist

LECKIE, Donald G.
(Canadian Forest Service)
B.Sc., Ph.D.
• Remote Sensing

MAGNUSSEN, Steen
(Canadian Forest Service)
M.Sc., Ph.D.
• Forest Inventory and Biometrics
MITCHELL, Kenneth J.  
(B.C. Ministry of Forests)  
B.S.F., M.F., Ph.D., R.P.F.  
- Growth and Yield Modelling

THERIEN, Guillaume  
(J.S. Thrower & Associates)  
B.A.Sc., Ph.D.  
- Forest Biometrics

WILLIAMS, Douglas H.  
(Cortex Consultants Inc.)  
B.Sc., M.Sc., Ph.D.  
- Forest Sector Modelling, Timber Supply and Trade

- Staff

AKAI, Heather  
Administrative Assistant

AQUINO, David  
B.Sc.F. (National Agrarian), M.F. (Brit. Col.)  
Research Assistant/Technician

GERLACH, Will  
Research Assistant/Technician

LAI, Charles  
Departmental Clerk (retired December 1999)

MAEDEL, Jerry  
B.F.A., T.C. (Vic.), M.Sc. (Brit. Col.)  
GIS/RS Coordinator

RELOVA, Marissa  
Secretary

SHANNON, Tim  
B.S.F., M.F. (Brit. Col.)  
Research Analyst

VERWOERD, Harry  
Research Assistant/Technician

- New Faculty Appointments

INNES, John L.  
Dr. John Innes has joined the Forest Resources Management Department as professor and Forest Renewal BC Chair in Forest Management. John received his Ph.D. degree from Cambridge University in England in 1983 and most recently was head of the Forest Ecosystems and Ecological Risks Division of the Swiss Federal Institute for Forest, Snow and Landscape Research in Birmensdorf, Switzerland. John’s approach toward the management of British Columbia’s forest resources will be one with a firm scientific basis while at the same time taking into account, in a fair and unbiased manner, the views held by individual stakeholders. His research activities will concentrate on various aspects of the application of sustainable forest management practices in British Columbia.

MOORE, R. Dan  
Dr. Dan Moore (P.Geo.) has joined the Forest Resources Management Department as an associate professor and Forest Renewal BC Chair in Hydrology. His appointment is one-third Forest Resources Management and two-thirds Geography. Dan received his Ph.D. degree in physical geography from Canterbury University, New Zealand in 1984. He was an assistant professor at McGill University from 1985 to 1987, and then a consulting hydrologist for two years before joining Simon Fraser University. Dan will focus his research program on the effects of forest practices on hydrologic processes. For example, he is currently involved in a study of subsurface hydrology and stream temperature regime in the Stuart-Takla Fish-Forest Interaction Project. An overarching objective in Dan’s research will be the translation of research results into models and guidelines appropriate for use by forest managers.

ACHIEVEMENTS IN 1999–00

- We strengthened our expertise in Forest Management, Hydrology and International Forestry with the appointments of Drs. Innes, Moore and Bull.
- Drs. Nelson, Sheppard, Sidle and Meitner were part of a UBC team (including Drs. Kimmins and Bunnell) that are collaborating with the Arrow Forest Licence Group in developing innovative forest practices in the Arrow Forest District. This research integrates social, economic and environmental values.
- We prepared a draft Academic Plan outlining strategic directions for the next five years.
- We initiated an external review of geospatial support services, focusing on GIS.

PLANs FOR 2000–01

- We plan to appoint a new assistant professor in Forest Recreation.
- We will finalize the Department Academic Plan, and provide a short version for viewing on the Faculty web site.
- With the approaching retirements of Drs. Kozak and Ballard, we will be preparing to recruit replacement faculty during 2000/01.
- Drs. Innes and Bull are organizing a workshop on “Streamlining local-level information for sustainable forest management” to be held at UBC on August 28-30, 2000.
THE Faculty of Forestry operates two Research Forests: the Malcolm Knapp Research Forest (MKRF) near Maple Ridge on the coast, and the Alex Fraser Research Forest (AFRF) near Williams Lake in the central interior of B.C.

The mission of the Research Forests is to support the Faculty of Forestry in serving the people of B.C. through teaching and research. This is accomplished by hosting research from a wide 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 five biogeoclimatic zones and three tenure systems, offers a wide variety of research and education opportunities.

The Research Forests host three field schools for UBC students: the fall field course for third year students at Alex Fraser Research Forest; a spring field course for fourth year students at Malcolm Knapp Research Forest; and sections of the conservation field course which are held on both forests. Facilities to house students at the Research Forests have been at or above capacity for several years during our recent peak in undergraduate enrolment.

ACHIEVEMENTS IN 1999–00

- Bid farewell to Director Peter Sanders, who retired after 25 years of service. Appointed Paul Lawson as manager of the MKRF, and appointed Ken Day as director of the Research Forests in addition to his duties as manager of the AFRF.
- Substantially completed the legal framework for UBC and UNBC to cooperatively manage the Aleza Lake Research Forest.
- Hosted 11 international students on internship and work experience programs.
- Initiated the process to obtain certification of forestry activities under ISO 14001 standard.

- Planned and implemented demonstrations of variable-retention harvesting on the slopes above Pitt Lake and near Marion Lake.
- Began the redevelopment of Loon Lake camp, with construction of a new caretaker’s residence and startup of a portable sawmill to generate lumber for new cabins.
- Started a commercial thinning program, generating 2,500 m$^3$ from 23 ha.
- Converted the harvesting program to a market-logging focus, realizing a substantial improvement in log values.

- Malcolm Knapp Research Forest

- Celebrated 50 years of research and teaching.
- Initiated 16 new research projects.
- Hosted a spring field school for 68 students and 21 instructors.
- Facilitated a planning initiative called “New Communities on the Forest Edge” involving Dr. Sheppard of the Faculty, UBC Landscape Architecture students, and the Districts of Maple Ridge and Pitt Meadows.
- Planned construction of new AFRF Headquarters.

- Alex Fraser Research Forest

- Initiated 16 new research projects.
- Completed a raptor species and nest inventory, and created a wildlife database.
- Carried out silviculture treatments on 147 ha and surveys on 322 ha, largely supported by funding from Forest Renewal BC.
- Built 5.6 km of new road and harvested approximately three years AAC to manage epidemic mountain pine beetle infestation and winter snow damage.
- Leading a review process for mule deer winter range management plans for the Cariboo Lumber Manufacturers Association.

PLANS FOR 2000–01

- Prepare a new management and working plan (including a recreation inventory and plan) for MKRF.
- Continue capital improvement of Loon Lake Camp.
- Build AFRF Headquarters.
- Enhance education activities in cooperation with the Faculty and external institutions.
- Examine immature hemlock-cedar stands for commercial thinning opportunities at MKRF.
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, S.N.**
- Chair, BC Forest Genetics Council Coastal Technical Advisory Committee.
- Chair, Proposal Evaluation Subcommittee, Operational Tree Improvement Program, Forest Genetics Council.
- Member, Gene Conservation Technical Advisory Committee, Forest Genetics Council.
- Member, Forest Genetics Council.
- Liaison Member, Pacific Northwest Tree Improvement Research Cooperative.

**ARCESE, P.**
- Nominated Fellow of the American Ornithologist’s Union.
- Editor, Journal of Avian Biology.
- Member, Antelope Specialists Group, Species Survival Committee of IUCN.
- President, Society of Wood Science and Technology.
- Fellow, International Academy of Wood Science.
- Chair, ISO TC165 Working Group 5 Characteristic Values Committee.
- Chair, CSA 086 Sawn Lumber Committee and Member, CSA Main Committee.
- Member, Standards Committee. National Lumber Grades Authority.
- Board Member, Society of Wood Science and Technology.
- Member, Zairai Lumber Partnership Working Groups.
- Member, Lumber Task Group, National Lumber Grades Authority.
- Board Member, WoodLinks Society.
- Member, Woodworks Committee.

**AVRAMIDIS, S.**
- Member, SCBC Review Committee, Forest Products Program.
- Member, USDA Competitive Grants and SBIR Review Committees.
- Member, EU Cost Action E15 Wood Drying Committee.
- Member, EU Export Evaluator Panel for Wood and Paper Proposals – QLMLR Program, 5th Framework.
- Member, Arrow District Innovative Forest Practices Agreement.
- Member, Riverside Pilot Advisory Committee.
- Member, Steering Committee, Enhanced Forest Management Pilot Program.

**BULL, G.Q.**
- Member, World Bank/WWF Global Vision for Forest 2050.
- Member, Forest Trends Working Group.
- Member, International Inventory Consortium.

**BREUIL, C.**
- Member, NSERC Advisory Committee, University-Industry Grants.
- Member, BCIT Biotechnology Committee.

**BUNNELL, F.L.**
- **UBC K.D. Shrivastava Prize** for Scholarly Publications for “Policy and Practices for Biodiversity in Managed Forests: The Living Dance”.
- **Choice Current Reviews for Academic Libraries Outstanding Academic Title Award** for “Policy and Practices for Biodiversity in Managed Forests: The Living Dance”.
- Member, Arrow District Innovative Forest Practices Agreement.
- Member, Riverside Pilot Advisory Committee.
- Member, Steering Committee, Enhanced Forest Management Pilot Program.
• Member, Weyerhaeuser Adaptive Management Working Group.

CHANWAY, C.
• Editor, Microbial Ecology Section, Canadian Journal of Microbiology.

COHEN, D.H.
• Member, Value-Added Research Technical Advisory Committee, CFS/Forintek Canada Corp.
• Member, Advisory Committee, Forest Products Society.
• Member, FRBC Value-Added Committee.

EL-KASSABY, Y.A.
• Member, SCBC/FRBC Tree Genetics Committee.
• Member, Interior Technical Advisory Committee, B.C. Tree Improvement Council.

ELLIS, S.C
• Pacific Northwest Section Officer, Forest Products Society.
• Member, Education Committee, Society of Wood Science and Technology.
• Board Member, WoodLINKS Society.
• Fellow, Institute of Wood Science.

FANNIN, R.J.
• Human Resource for Technological Development Award, National Research Council of Brazil.
• Chair, Geosynthetics Division, Canadian Geotechnical Society.
• Member, B.C. Selection Committee, Rhodes Scholarship Trust.
• Associate Editor, Canadian Geotechnical Journal.
• Member, Board of Directors, SFEIBC.

FELLER, M.C.
• Member, B.C. Medical Association Environmental Health Committee.
• Associate Editor, Northwest Science.

GUY, R.D.
• Associate Editor, Canadian Journal of Botany.
• Member, NSERC Grant Selection Committee 03 (Plant Biology and Food Science).

HALEY, D.
• Appointed Senior Fellow of Fraser Institute.
• Appointed Member of the Community Forestry Advisory Committee.
• Member, Economics and Policy Steering Committee, Sustainable Forest Management Network.
• Member, Editorial Board, Journal of Forest Economics.
• Associate Editor, Canadian Journal of Forest Research.

HINCH, S.
• Killam Memorial Faculty Research Fellowship.
• 2000 Killam Teaching Prize in Forestry, UBC.

HOBBERG, G.
• Canada-US Fulbright Senior Scholar.
• Visiting Fellow, Resources for the Future, Washington, D.C.
• Visiting Professor, Department of Political Science, University of Melbourne.
• Co-Chair, National Policy Research Conference, Analyzing the Trends, Ottawa.
• Team Leader, North American Integration, Policy Research Initiative “Trends Project”.
• Chair and Organizer, Conference on North American Integration, SSHRC & the Policy Research Secretariat, Edmonton, Alberta.

INNES, J.L.
• Chairperson, BC Greenhouse Gas Accord Committee.
• Member, Validation Monitoring Panel, Washington.
• Coordinator, IUFRO Task Force on Environmental Change.
• Member, Editorial Board, B.C. Journal of Ecosystems and Management.
• Member, Interdisciplinary Committee, World Cultural Council.
• Member, Organising Committee, North American Air Pollution Workshop.

KIMMINS, J.P.
• Member, UNESCO World Commission on the Ethics of Science and Technology.
• Co-Chair, Forest Science Advisory Board, Saskatchewan Ministry of Environment and Resources.
• Invited Chair, UNESCO World Sub-Committee on the Ethics of Energy.
• Co-Chair, IUFRO 402 Working Group 2001 on Growth and Yield.
• Member, Organizing Committee for 2001 European Studies Conference, the Nature and Culture of Forests and Forestry.
• Member, Liu Centre for the Study of Global Issues, World Forestry Project.
• Moderator of Industry/MoF Negotiations on Boreal Mixedwood Management.
• Member, Scientific Advisory Board, Mistik Management, Saskatchewan.
• Associate Editor, Environmental Reviews.
• Associate Editor, Forestry.
• Honorary Professor, Nanjing Forestry University.

KLINKA, K.
• Member, BCMoF Site Productivity Working Group.

KOZAK, A.
• Chair, ABCPF Biometry Academic Standards Sub-Committee

KOZAK, R.A.
• Fellow, Institute of Wood Science.
• Member, Wood Products Quality Council of Canada.
• Member, Canadian Wood Design Network.

LAM, F.
• 1999 L.J. Markwardt Wood Engineering Award, Forest Product Society.
• Member, CSA 086 Subcommittees on Sawn Lumber and General Design.
• Member, CSA 0122 Review TG.
• Member, Objective Based Code for Wood Frame Construction Committee, Canadian Wood Council.

LeMAY, V.M.
• Co-Chair, IUFRO 4.02 Working Group 2001 on Growth and Yield.
• Member, FRBC Inventory Group.
• Member, Stand Management Cooperative Policy Committee (western U.S. and B.C.).
• Member, Canadian Forest Inventory Committee, Mensuration Subcommittee.
• Member, B.C. Forest Productivity Council.
• Associate Editor, Forestry Chronicle.
• Associate Editor, Canadian Journal of Forest Research.
• Member, CSA Scaling Committee.

MARSHALL, P.L.
• Elected Member, ABCPF Council.
• Member, Canadian Forestry Accreditation Board.
• Chair, ABCPF Board of Examiners.
• Member, ABCPF Academic Appeals Committee.
• Member, Technical Advisory Committee, B.C. Forest Productivity Council.
• Member, University of Northern B.C. Growth and Yield Program Advisory Group.
• Member, Steering Committee, Inland Northwest Growth and Yield Cooperative.
• Associate Editor, Forestry Chronicle.
• Member, Forestry Advisory Committee, Malaspina University-College.
• Member, Silviculture Technical Advisory Committee, Stand Management Cooperative.

MARTIN, K.M.
• Associate Editor of the AUK.
• President, Society for Canadian Ornithologists.
• Canadian Representative to IUCN/ICBP Specialist Group for Galliformes Committee.
• Member, Scientific Review Panel, Wildlife Habitat Canada Research Advisory Committee.
• Member, Vancouver Island Marmot Conservation Planning Meeting.
• Scientific Referee, Endangered Species Recovery Fund.

McLEAN, J.A.
• Member, Forest Pest Review Committee.
• Member, FORCAST.
• Member, Centre of Excellence and Advanced Wood Product Processing Funding Society.
• Member, Forestry Continuing Studies Network.
• Member, Forest Alliance Citizens Board.
MITCHELL, S.J.
- Member, ABCPF Silviculture Academic Standards Sub-Committee.

MOORE, R.D.
- Vice-President, Canadian Geophysical Union, Hydrology Section.
- Past President, Canadian Parks and Wilderness Society, B.C.

MURTHA, P.A.
- Fellowship Award, American Society Photogrammetry and Remote Sensing.
- Associate Editor, Forestry Chronicle.
- Co-Chair, BCMoELP Remote Sensing Strategy Committee.

NELSON, J.D.
- 1999 Killam Teaching Prize in Forestry, UBC.
- Member, FERIC Forest Engineering Advisory Committee.
- Chair, ABCPF Forest Harvesting Academic Standards Sub-Committee.
- Member, SCBC Land-Use Planning Peer Review Committee.

PRESCOTT, C.
- Appointed Editor, Canadian Journal of Forest Research.

PRION, H.G.L.
- Member, Steering Committee, Woodworks Project.
- Member, Subcommittees on Fasteners and Seismic Design (Limit States Design of Timber Structures Code).
- Member, Objective Based Design of Wood Buildings Committee.

RITLAND, K.
- Associate Editor, the American Naturalist.
- Associate Editor, American Journal of Botany.
- Member, NSERC Genomics Selection Committee.
- Member, SCBC/FRBC Tree Genetics Committee.

RUDDICK, J.N.R.
- Head, Canadian Delegation, ISO TC165 Task Force.
- Past President, International Research Group on Wood Preservation.
- Executive Director, American Wood Preservers Association.
- Executive Director, Canadian Wood Preservation Association.
- Senior Editor, Material und Organismen.
- Member, CSA Wood Preservation Technical Committee.

SADDLER, J.N.
- Member, Bioenergy Advisory Board, Natural Resources Canada.
- Member, BCMoELP Wood Ethanol Technology Committee.

SHEPPARD, S.R.J.
- Member, Steering Committee, 2002 National Conference on Visual Landscapes, Washington, D.C.

SIDLE, R.C.
- Chair, Canadian Geophysical Union Forestry Hydrology Committee.
- North American Representative, Forests and Water Task Force, IUFRO.
- Associate Editor, Journal of Forest Research.

VAN KOOTEN, G.C.
- Member, Editorial Board, Forest Economics and Policy.
- Member, Editorial Council, Journal of Agricultural and Resource Economics.
- Member, Editorial Council, Environmental Science and Policy.

TINDALL, D.B.
- Member, SCBC/FRBC Community Research Proposal Review Committee.

WATTS, S.B.
- Member, ABCPF Biometry Academic Standards Sub-Committee.
Although our core operating budget has remained fairly steady over the past decade, such a steady state has not allowed for any measure of inflation. Meanwhile, our extramural funding has decreased since hitting a peak in 1996/97 and, at $8,168,000 for the past year, was down 8.5 per cent from the previous year. Extramural funding from the federal government and the private sector was down slightly in 1999/00, although the relative percentages that these funding sources represent did not change significantly.

### Operating budget, extramural funding and research activity 1983/84 – 1999/00

Funding from provincial government sources decreased for the third year in a row and, at $3,858,000 for the past year, accounted for only 47.2 per cent of our total extramural funding (down from 49.2 per cent in 1998/99 and 63.4 per cent in 1997/98). This decline was due mainly to a 46 per cent reduction in funding from the Ministry of Forests (MoF), as well as to the absence of support from the B.C. Knowledge Development Fund which had contributed $340,000 (3.8%) to the previous year's figures. Our slightly increased funding from Forest Renewal BC (FRBC) was due primarily to monies received via the Forest Genetics Council ($302,000) and the BC Advanced Systems Institute ($291,000).

Funding from the federal government was down 7.4 per cent from 1998/99 figures, mostly due to the absence of funding from the Canadian Foundation for Innovation that had accounted for $751,000 in 1998/99. Our NSERC/SSHRC funding increased for the 1999/00 year, representing 23.3 per cent of our extramural funding, up from 13.8 per cent the previous year.

Funding from industry, at $1,274,000, was down 2.8 per cent from the previous year. In addition, we also received endowment funding of $1,192,000, up slightly from our 1998/99 value of $1,063,000. This funding is provided by endowments from FRBC in support of five Chairs in the Faculty, and the following additional sources:

- Forest Renewal BC (Center for Advanced Wood Processing);
- the Imajo Cedar Management Fund;
- the Kathleen and Sheldon Rothwell Fund for forestry research;
- the Namkoong Family Teaching Exchange and Research Endowment; and
- the Burgess-Lane Lectureship and Schaffer Lectureship endowments.

### Extramural funding sources 1999/00
(excluding endowments)

<table>
<thead>
<tr>
<th>Source</th>
<th>$000</th>
<th>%</th>
</tr>
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<tbody>
<tr>
<td>Federal</td>
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<tr>
<td>NSERC/SSHRC</td>
<td>1,906</td>
<td>23.3</td>
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<tr>
<td>CFS</td>
<td>167</td>
<td>2.0</td>
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<tr>
<td>Other</td>
<td>553</td>
<td>6.8</td>
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<td><strong>Subtotal</strong></td>
<td>2,626</td>
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<tr>
<td>Provincial</td>
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<tr>
<td>FRBC</td>
<td>3,367</td>
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<tr>
<td>MoF</td>
<td>368</td>
<td>4.5</td>
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<td>MoELP</td>
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<tr>
<td>Other</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td>3,858</td>
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<td>Private</td>
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<tr>
<td>Industry</td>
<td>1,274</td>
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<td>Other</td>
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<td><strong>Subtotal</strong></td>
<td>1,300</td>
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<td>International</td>
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<td><strong>Total</strong></td>
<td>8,168</td>
<td>100%</td>
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</tbody>
</table>

*Calculated from operating budget supported Faculty members.
The following list reflects research funding obtained between April 1, 1999 and March 31, 2000.

**EXTRAMURAL FUNDING & SPONSORED RESEARCH**

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Description</th>
<th>Funding Details</th>
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<tbody>
<tr>
<td>S.N. Aitken</td>
<td>Junior Industrial Research Chair in population genetics – NSERC/OTIP/Industry</td>
<td>$172,647</td>
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<td></td>
<td>Physiological genetics of coastal Douglas-fir genotypes exhibiting high and low stability – FRBC</td>
<td>$10,360</td>
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<td>Interior spruce genealogy and Class A seed zones in southeastern B.C. – Forest Genetics Council of B.C./FRBC</td>
<td>$52,119</td>
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<td>Geneecology and natural selection dynamics in the Sitka x interior spruce introgression zone – FRBC</td>
<td>$20,262</td>
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<tr>
<td>Y. Alila</td>
<td>Development of a regional frequency approach for estimating low-flows: A B.C. case study – NSERC</td>
<td>$19,635</td>
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<tr>
<td>S. Avramidis</td>
<td>Effect of species and moisture presorting on the drying characteristics of hemfhir baby squares – Coast Forest Lumber Assoc.</td>
<td>$50,950</td>
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<td>Fundamentals of internal physical processes in wood under dielectric heating and vacuum drying – Heatwave Drying Systems</td>
<td>$22,680</td>
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<td>Surface emission coefficient of wood in the hygroscopic range – NSERC</td>
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<tr>
<td>J.D. Barrett</td>
<td>Reliability of wood-based materials – NSERC</td>
<td>$20,790</td>
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<tr>
<td></td>
<td>Black poplar trials for use as Strongjoist new material – Strong Wood Inc.</td>
<td>$5,256</td>
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<td></td>
<td>Species strength properties evaluation study for Japan (co-investigator) – Canadian Wood Council/Coast Forest Lumber Assoc.</td>
<td>$169,000</td>
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<td>Intelligent lumber grading system (co-investigator) – CAE Newnes Ltd.</td>
<td>$57,694</td>
</tr>
<tr>
<td>C. Breuil</td>
<td>Junior Chair in Forest Products Biotechnology – NSERC/Forintek/Weyerhaeuser Canada</td>
<td>$37,515</td>
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<td></td>
<td>Identifying the characterizing key enzymes used by sapstaining fungi to grow on wood – NSERC</td>
<td>$20,790</td>
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<td></td>
<td>Cartapip: A potential control agent at harvest sites for the sapstaining fungi that infect Canadian softwood – NSERC/Forintek/AgraSol</td>
<td>$86,000</td>
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<td></td>
<td>Microorganism and enzyme treatments for reducing extractives present in wood chips or pulps – Technical Res. Centre of Finland</td>
<td>$2,000</td>
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<td>Monitoring extractives and fungi in wood chips as markers for chip quality and fibre recovery under a well-managed chip pile – NSERC</td>
<td>$60,825</td>
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<td>Fate and treatment of sterols, steryl esters and waxes in trees, pulps and process effluents – NSERC</td>
<td>$60,900</td>
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<td>G.Q. Bull</td>
<td>Carbon accounting system – BCMoF</td>
<td>$60,000</td>
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<tr>
<td>F.L. Bunnell</td>
<td>Evaluating biological and economic implications of structure-based management in dry Douglas-fir – NSERC/CFS</td>
<td>$93,500</td>
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<td></td>
<td>Large scale issues in sustainable forestry: Statistical methods and tools for cross-scale modelling – NCE</td>
<td>$45,000</td>
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<td></td>
<td>Defining habitat conservation areas for tailed frogs (Ascaphus truei) – Wildlife Habitat Canada</td>
<td>$16,107</td>
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<td></td>
<td>Persistence of forest-dependent vertebrates in managed forests – FRBC</td>
<td>$103,512</td>
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<td></td>
<td>Habitat modelling in the Invermere enhanced forest management pilot project area – FRBC</td>
<td>$52,000</td>
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<td></td>
<td>Evaluating biological and economic implications of structure – Weyerhaeuser Canada</td>
<td>$100,000</td>
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<td></td>
<td>Forest practices to sustain vertebrate richness on Riverside’s operating area – Riverside Forest Products</td>
<td>$12,600</td>
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<tr>
<td>C.P. Chanway</td>
<td>Bacterial endophytes of gymnosperms: Mutualists or opportunists? – NSERC</td>
<td>$36,960</td>
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<td></td>
<td>Do plant growth-promoting or nitrogen fixing bacterial endophytes live in lodgepole pine? – Global Forest</td>
<td>$6,000</td>
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<td></td>
<td>Soil microcosm validation – Environment Canada</td>
<td>$10,000</td>
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</table>
D.H. Cohen
- Market research in forest products
  Athena Sustainable Material Inst./Forintek/Tolko Ind. $27,060
- Technology for full exploitation of wood
  Int'l Environmental Inst. $160,550

Y. El-Kassaby
- Molecular assessment of spruce weevil populations
  Western Forest Products Ltd. $37,400
- Population variation in adaptive attributes in Sitka alder
  Pacific Regen. Technol. Management Inc. $25,000
- Adaptive and quantitative attributes of Douglas-fir somatic and zygotic seedlings
  Pacific Biotechnologies Inc. $20,000
- Genetic diversity and mating system of mountain hemlock
  Pacific Regen. Technol. Management Inc. $8,000

S.C. Ellis
- Wood quality attributes for the Canadian secondary wood processing industry
  NSERC $21,714

R.J. Fannin
- Geophysical techniques for analysis of seepage flow
  B.C. Hydro $23,200
- Geotextile filtration design and landslide risk assessment
  TCMirafi Inc. $28,000
- Geotextile filters in reversing flow
  BCMoF $15,000

M.C. Feller
- UBC Research Forest precipitation and stream water chemistry data set analysis
  Environment Canada $17,807

S. Glenn
- Landscape constraints on microsite processes affecting Douglas-fir
  (Pseudotsuga menziesii var. glauca) encroachment in Chilcotin grasslands of British Columbia
  NSERC $13,440

R.D. Guy
- Comparative physiology of stress acclimation in conifers: water-use efficiency and root respiration
  NSERC $41,252

S.G. Hinch
- Bioenergetics of migration and spawning of Pacific salmon in relation to flow and temperature
  NSERC $240,000
- Energetics of anadromous fish
  NSERC $20,000
- Responses of rainbow trout to riparian logging
  FRBC $68,000
- Responses of cutthroat trout and habitat to riparian logging
  BCMoELP $60,000
- B.C. lakes fish assemblage classification
  BCMoFish. $6,500

J.P. Kimmins
- Calibration, verification, and validation of the stand-level FORECAST and the spatially-explicit, individual tree FORSEE forest ecosystem management models
  NSERC $35,112
- Modelling management impacts of alternative harvesting systems in Saskatchewan boreal mixedwood forest
  NSERC/Mistik Management Ltd. $103,978
- Successional relationships of CH/HA forests on northern Vancouver Island
  Western Forest Products Ltd. $10,000
- Computer-based education, extension and gaming tools by which to support the objectives of FRBC
  FRBC $25,000
- Modelling salal and cedar
  FRBC $7,035
- Assessment of the sustainability of forest ecosystems and evaluation of indicators of sustainable forest management
  FRBC $27,000

K. Klinka
- Productivity, structure, plant diversity and soil nutrient availability of single- and mixed-species forest stands
  BCMoF/NSERC/Industry $145,500
- TFL 37 site index - BEC map unit correlations
  BCMoF $27,000
- Ecology and management of cedar-cypress-hemlock forests in coastal B.C.
  BCMoF $29,956
- Black spruce site productivity
  BCMoF $55,000
- Trembling aspen site productivity
  BCMoF $27,000
- Draft report on the mountain hemlock zone, its ecology and significance for forest management
  FRBC $6,000
- Electronic WEB version of technical report on the Mountain Hemlock Zone
  BCMoF $5,000
- General research in silvics and dendrology
  CAB I Information/Donation $11,295
EXTRAMURAL FUNDING & SPONSORED RESEARCH

M. Koshy
- Genetic evaluation of western hemlock breeding population of B.C. for fiber morphometric traits – Forest Genetics Council of B.C./FRBC $59,094

R.A. Kozak
- A survey of forestry-related research activities in Canada (co-investigator) CFS $14,196

F. Lam
- Performance of flooring panels for dry freight van trailer – BCASI/FRBC $72,425
- Species strength properties evaluation study for Japan (co-investigator) Canadian Wood Council/Coast Forest Lumber Assoc. $169,000
- Research and development on nail plate reinforced beams – Landmark Trus & Lumber Inc. $10,365
- Technology for full exploitation of wood Int’l Environmental Inst. $25,000
- Shear strength of structural composite lumber – Trus Joist MacMillan $7,500
- Intelligent lumber grading system (co-investigator) – CAE Newnes Ltd. $57,694
- Properties of laminated veneer lumber Sunpine Forest Products Ltd. $8,159
- Optimization of flooring panels for dry freight van trailer – BCASI/FRBC $95,990
- Modelling performance of structural composite lumber – NSERC $25,410
- Reliability and design of innovative wood structures under earthquake and extreme wind conditions (co-investigator) FRBC $290,000
- Performance of wood diaphragms (co-investigator) Canadian Wood Council $25,000

V.M. LeMay
- Use of spatial relationships to improve the efficiency of field experiments NSERC $13,860
- Effects of road openings on tree growth of adjacent trees and on overall volume/ha production of adjacent stands Lignum Forest Industries $73,059

D. Luymes
- Managing conflicts between agriculture and urban communities (co-investigator) Canadian Farm Business Management Council $50,000

P.L. Marshall
- Sampling design for calibrating the regeneration and small tree growth components of prognosis BC in the IDFDk1 and IDFDk2 subzones, Kamloops Forest Region BCMoF/FRBC $64,995
- Literature review of current growth and yield measurement methods BCMoF $9,999

T. Maness
- Automated production and quality control system for value-added wood products manufacturing – NSERC $15,015
- Secondary wood products manufacturing research – Forintek $10,000
- Wood Products Quality Control Council of B.C. – FRBC $152,780

K.M. Martin
- Ecology of alpine and forest birds NSERC $23,100

S.J. Mitchell
- Effects of nursery techniques on seedling growth potential and first year survival Pelton Reforestation Ltd. $22,260

R.D. Moore
- Hydrology of mountain catchments NSERC $13,976
- Forest hydrology – FRBC $25,000

P.A. Murtha
- Remote sensing mountain pine beetle attack Plateau Forest Products Ltd. $28,673

G. Namkoong
- Development decision strategy on priorities for conservation and use of forest genetic resources – CIDA $38,500
- Utilization and management of red alder genetic resources in British Columbia FRBC $59,997
- Genetic effects on fiber and structural wood properties in western hemlock  
  *FRBC $48,000*

- Managing forest tree genetic variance for climatic change – field and DNA marker-based testing of a novel system  
  *FRBC $74,277*

- Rapid breeding for tracheid characters in interior spruce – *FRBC $36,015*

**J.D. Nelson**

- Effects of block size distribution on timber supply – TFL 6  
  *Western Forest Products Ltd. $5,000*

- Forecasting future forest conditions  
  *Canadian Forest Products Ltd. $62,475*

- Framework for ecosystem sustainability: harvesting scheduling and timber supply analysis, wildlife habitat analysis, and stand-level modelling of alternative silviculture systems for the Arrow Timber Supply Area  
  *FRBC $195,038*

- Decision support systems for forest land use planning – *NSERC $20,790*

**L. Paszner**

- Strength development of high-yield NAEM-catalysed organosolv softwood pulps – *NSERC $19,520*

**C.E. Prescott**

- Assessing the effects of clearcutting on chemical forms of soil-N, on mycorrhizal function, and on coniferous seedling nutrition – *NSERC/MacMillan Bloedel/Western Forest Products $29,000*

- Effects of red alder on nutrient availability and light – *BCMoF $25,000*

- Influence of species mixtures on litter decomposition in forests of British Columbia – *FRBC $7,875*

- Salal cedar-hemlock integrated research program (SCHIRP) – *FRBC $89,110*

- High elevation trials – *FRBC $3,675*

- Long-term effects of salal removal – *FRBC $16,180*

- Impact of single conifer species plantations on soil biodiversity and processes – *FRBC $9,286*

- Coarse woody debris dynamics in wet and dry ESSF forests – *FRBC $2,400*

- Nurse species – *FRBC $15,960*

**H.G.L. Prion**

- Seismic behaviour of dowel connections in structural composite lumber – *NSERC $18,370*

- Reliability and design of innovative wood structures under earthquake and extreme wind conditions (co-investigator)  
  *FRBC $290,000*

- Performance of wood diaphragms (co-investigator)  
  *Canadian Wood Council $25,000*

- Seismic performance of concentrically braced steel frames – *Steel Structures Education Foundation $20,000*

**J.S. Richardson**

- Analysis of atmospheric source contaminants in biota of the north shore forests of the Lower Mainland of B.C.  
  *Environment Canada $3,533*

- Stream benthos responses to riparian management – *FRBC $121,032*

- Effects of forest management on stream ecosystems – *CCHRE1 $11,088*

- Influence of reserve strip width on riparian and stream ecosystems: Amphibian communities – *BCMoELP $19,373*

- Effects of cattle grazing, range condition and breeding pond characteristics on the habitat use and population ecology of tiger salamanders (*Ambystoma tigrinum*) in the south Okanagan – *BCMoELP $25,000*

- Ecology of tailed frogs and the effects of forest practices – *FRBC $208,539*

- Resource limitation in streams and the role of organic matter sources – *NSERC $12,600*

- Influence of reserve strip width on riparian and stream ecosystems: Invertebrate responses to management – *FRBC/U.S. Dept. of Commerce $141,497*

**K. Ritland**

- Senior Industrial Research Chair in population genetics – *NSERC/OTIP/Industry $201,703*

- Production of quality seed in interior seed orchards – *Forest Genetics Council of B.C./FRBC $49,350*
EXTRAMURAL FUNDING & SPONSORED RESEARCH

Kermode bear population genetics
Western Forest Products $20,004
Evolutionary genomics of plants
NSERC $96,075

J.N.R. Ruddick
Fixation chemistry of amine copper preservative in wood – NSERC $23,909
Wood preservation – factors impacting on the performance of wood preserving chemicals – BASF/Chemical Specialties/ Timber Specialties/Trus Joist MacMillan/ Donation $58,410

J.N. Saddler
Senior Chair in Forest Products Biotechnology – NSERC/Forintek/ Weyerhaeuser Canada $28,684
Substrate and enzyme factors that influence fiber modification – NSERC $15,960
Assessing factors that limit the enzymatic hydrolysis of softwood derived cellulose NSERC $99,500
Bioconversion of softwoods to ethanol NRC $153,122
Full characterization of western red cedar wood oil and the isolation and testing of tropolones from the oil BCASI/FRBC $17,600
Enzymatic and microbial treatment of pulp mill white waters – NCE $55,000
Use of immunoassays to monitor in-mill and waste water concentrations of hydrophobic, organic material – NCE $31,000
The use of enzymes to elucidate the structure and to modify native and recycled paper – NSERC/CFS/Industry $20,000
Steam explosion of softwoods for ethanol production – U.S. Dept. of Energy $14,822
IEA bioconversion task – IEA $74,170

S.R.J. Sheppard
Ancient values/new technologies – emerging methods for integrating spiritual aesthetic values into forest design SSHRC $17,000
Framework for ecosystem sustainability: investigation of issues related to slope stability, socio-economics, advanced computer visualization and extension and education in the Arrow Forest District (co-investigator) – FRBC $155,000
Development of landslide and related hydrology models for the prediction of incremental and cumulative impacts of forest management practices BCASI $60,000

D.B. Tindall
Ancient values/new technologies — emerging methods for integrating spiritual aesthetic values into forest design (co-investigator) – SSHRC $17,000

B. van der Kamp
Prediction of tree failure rates from tree hazard ratings – BC Hydro $50,000
Management of Armillaria root disease by inducing quiescence – FRBC $25,000

G.C. van Kooten
Economics of climate change and biodiversity – SFM Network $30,000
Forest policy – CFS $40,000

S.B. Watts
A survey of forestry-related research activities in Canada (co-investigator) CFS $14,196

G.F. Weetman
Structure and disturbance dynamics of old-growth balsam-fir black spruce forests in western Newfoundland CFS/NSERC $10,750
ICH investigation – the historical importance of the western hemlock looper in the ICH ecosystems of the Robson Valley Zeidler Forest Ind. $67,839

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Ellis, S. and R. Kozak. 1999. A new model for undergraduate wood processing education – B.Sc. in wood products processing at the
University of British Columbia. pp. 270-274 in Proc. 4th Int'l Conf. on the Development of Wood Science, Wood Technology and Forestry, Greater Missenden, U.K.


This has been a year of consistent growth and consolidation of the Centre for Advanced Wood Processing. Dr. Thomas Maness completed his term as founding director marking four years of unprecedented growth and development. Many research projects, grants and continuing education courses were initiated during these early years. In 1999, the focus was on planning, setting foundations and the successful fulfillment of requirements. The addition of a line of veneering and finishing equipment completes the Advanced Wood Processing Laboratory. This year was also highlighted by the PricewaterhouseCoopers performance audit that demonstrated the success of the Centre in meeting or exceeding many of the preset goals.

The Centre also continues to be a strong Faculty link to the wood products industry. Centre faculty and staff participated in conferences and attended industry meetings across Canada and the U.S. as well as hosted visits by industry delegations. Strong industry contact continues to be a top priority. This year we mailed the third issue of our newsletter CAWP NEWS to over 5000 recipients. This is the first of three newsletters that will be sent every year to keep industry informed on newly developed programs and services.

Close ties also continue with the Centre's founding industry advisory board the National Education Initiative, the Fachhochschule Rosenheim in Germany and the Berner Fachhochschule in Switzerland. These organizations provide support, technical expertise and invaluable guidance.

Education Programs

Support of the Department of Wood Science Wood Products Processing program and management of the Cooperative Education option continue with prominence. Staff members with extensive experience provide faculty with wood industry knowledge and perspective. The Practical Woodworking course for new undergraduate students and many new industry-relevant hands-on laboratories were developed and taught.

Student placements in the Cooperative Education program increased to 66 and again, achieved a 100 percent placement rate. Although, the majority of students were placed in B.C., Manitoba and Ontario, opportunities in the U.S., Europe, Japan and elsewhere are developing. The job opportunities for students and graduates continue to rival those in other high technology industries.

Continuing Education

Our involvement in industry driven workshops, conferences and other continuing education programs continued to increase. In 1999, we offered 26 programs across Canada. One new program, the International Conference on Global Markets for Value-Added Wood Products, focussed on gaining marketing advantages and access. One hundred and thirty delegates attended this event in Halifax. We also offered new courses in Marketing, European Cabinet Making and Veneering.

The Centre's interactive web site was redeveloped to reach out to industry across Canada. Up-to-date information on current programs and highlights from previous courses are now available on-line.

Applied Research and Extension

The Wood Products Quality Council of Canada continues its strong support of quality assurance in the wood products industry. In 1999, a third company was added to the pilot quality certification program. A new industry driven project was also initiated to examine material and enterprise resource planning systems appropriate for the wood industry.

Phase 1 of the wood product development and testing laboratory was completed this year. This laboratory is equipped with state-of-the-art equipment for the testing of finishes and coatings such as lacquers. Available testing includes abrasion, impact and chemical resistance, hardness and gloss. This laboratory is designed for industry projects as well as research and teaching. The research project on Japanese Consumer Preferences in Product Quality has been published and work continues on the Needs Analysis of the Value-Added Wood Industry as well as Real-Time Statistical Process Control.

PLANS FOR 2000–01

- Continue focus on undergraduate education.
- Pursue development of accredited UBC certificate courses.
- Maintain strong emphasis on industry supported graduate education and cooperative work experience.

1999 Annual Report 47
The Centre for Applied Conservation Biology in the Faculty of Forestry promotes conservation while maintaining economic development. This Centre is unique in its incorporation of undergraduate teaching, broad definition of educational targets, close links between basic and applied disciplines, and focus on forested ecosystems where conflicts between biological diversity and economic activities are most contentious.

<table>
<thead>
<tr>
<th>Research</th>
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<tr>
<td>Interdisciplinary, cooperative research is the key to answering the broad questions in conservation and management. We are testing ecological theories in the context of forested ecosystems with the goal of applying this knowledge to managed forests, parks and natural areas. These projects include:</td>
</tr>
<tr>
<td>- Conservation genetics of whitebark pine (S. Aitken).</td>
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<td>- Population demography and genetics of island birds (P. Arcese).</td>
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<tr>
<td>- Serengeti biodiversity monitoring project (P. Arcese).</td>
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<td>- Effectiveness of uneven-aged structure based management in sustaining forest vertebrates (F. Bunnell and A. Chan-McLeod).</td>
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<tr>
<td>- Development of adaptive management for variable retention (F. Bunnell and L. Kremsater).</td>
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<tr>
<td>- Patterns and mechanisms of Douglas-fir encroachment in Chilcotin grasslands (S. Glenn).</td>
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<td>- Landscape pattern effects on species competition (S. Glenn).</td>
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<tr>
<td>- Effects of land-use on stream fishes and their habitat (S. Hinch).</td>
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<tr>
<td>- Migration, behaviour, and energetics of upriver migrating adult salmon (S. Hinch).</td>
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<tr>
<td>- Environmental change and forests (J. Innes).</td>
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<tr>
<td>- Structure and function of cavity-nesting birds in natural and managed forests (K. Martin).</td>
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<tr>
<td>- Avian ecology and conservation in high elevation ecosystems (K. Martin).</td>
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<tr>
<td>- A decision-support tool evaluating economic and biological consequences of forest planning at the landscape level (J. Nelson).</td>
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<tr>
<td>- Soil ecology and nutrient cycling (C. Prescott).</td>
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<tr>
<td>- Conservation genetics of forest trees and forest organisms (K. Ritland).</td>
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<tr>
<td>- Inventory and research on the population ecology and genetics of tailed-frogs and Pacific giant salamanders (J. Richardson, K. Ritland, F. Bunnell).</td>
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<tr>
<td>- Biodiversity valuation of and development of potential tradeoff expressions between biodiversity and economic values (C. van Kooten).</td>
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<th>Education</th>
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<tr>
<td>Centre faculty taught in three of the Forestry degree programs: Natural Resources Conservation, Forest Science, and Forest Resources Management and directed graduate programs of 45 students. Faculty and associates also gave workshops for diverse audiences, including professional foresters, resource managers, and the public.</td>
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<tr>
<td>Graduate student activities in the past year included a student maintained Centre web site, initiating a graduate student mentoring program, and the 3rd annual CACB symposium to showcase Centre research. The “Seminar in Biological Conservation” series continues to provide a combination of graduate level instruction and public lectures on important conservation issues. (See Special Lectures section in this report.)</td>
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<th>Extension</th>
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<td>Outreach employs a variety of approaches. Centre personnel worked closely with the Enhanced Forest Management Pilot Projects and Innovative Forest Practices Agreements to develop credible ways of sustaining species richness in managed forests. Our pamphlet series was changed from 8-panel pamphlets to single pages to encompass more topics; again with support from the Canadian Wildlife Service. Centre members are intimately involved in refining those aspects of the B.C. Forest Practices Code that are creating unintended consequences for species richness.</td>
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<tr>
<th>Centre Associates</th>
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<tbody>
<tr>
<td>Bruce Bury</td>
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<tr>
<td>Ann Chan-McLeod</td>
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<tr>
<td>Arlon Harestad</td>
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<tr>
<td>Christine Hitchcock</td>
</tr>
<tr>
<td>Isabelle Houde</td>
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<tr>
<td>Jacklyn Johnson</td>
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<tr>
<td>Walt Klenner</td>
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<tr>
<td>Brian Klinkenburg</td>
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The goal of the Silviculture and Forest Engineering Institute of British Columbia (SFEIBC) is to improve forest management planning and practices in B.C. through advanced continuing education. To meet this goal, the Institute offers the following programs to operational forest resource practitioners:

- **UBC Diploma in Forestry (Advanced Silviculture)** – for professional foresters – co-sponsored by the Faculty of Forestry.
- **UBC Diploma in Forest Engineering** – for professional foresters, engineers and geoscientists – co-sponsored by the Faculties of Forestry and Applied Science (Civil Engineering).
- **Silviculture Technical Program** – for forest technologists and technicians.

Both diploma programs consist of 12 weeks of advanced continuing education delivered to practising professionals employed by industry, consulting and government from all parts of the province. Instructors, many of whom donate volunteer time to the Institute, are drawn from academia, government, industry and consulting. We are grateful to the following individuals from the UBC Faculty of Forestry for their involvement and support: G. Baskerville (professor emeritus), D. Cohen, K. Day, M. Feller, J.P. Kimmins, K. Klinka, A. Kozak, D. Lavender (professor emeritus), S. Mitchell, J. McLean, J. Nelson, H. Samson, R. Sidle, D. Tindall, B. van der Kamp and G. Weetman.

We acknowledge the financial support of Forest Renewal BC and thank all our many volunteers and other supporters from UBC, the Ministry of Forests, the forest industry, UNBC and the Canadian Forest Service for helping us to achieve our 13th year of excellence.

### ACHIEVEMENTS IN 1999–00

We were pleased to graduate the first forest engineering diploma class of 24 participants in 1999. Other alumni now total 226 professional and 34 technical silviculture graduates.

It was very gratifying to receive the following two awards:
- **1999/2000 British Columbia Forests Excellence Award in Education.**
- **2000 ABCPF/APEGBC Forest Engineering Award of Excellence.**

### PLANS FOR 2000–01

The Institute plans to consider broadening its mandate beyond silviculture and forest engineering programs and will launch an enhanced marketing program in 2000 to continue to attract high quality participants. A recent review of the Silviculture diploma program will be implemented to ensure that client needs are fully met.

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**SFEIBC Board of Directors**

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<tr>
<th>Directors</th>
<th>Representing</th>
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<tbody>
<tr>
<td>W.E. Dumont, Chair</td>
<td>Association of BC Professional Foresters</td>
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<tr>
<td>R.E. Carter</td>
<td>Forest Industry (Silviculture)</td>
</tr>
<tr>
<td>J.G. Chittick</td>
<td>Forest Industry (Forest Engineering)</td>
</tr>
<tr>
<td>B.W. Chow</td>
<td>Div. of Engineers and Geoscientists in the Forest Sector (APEGBC)</td>
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<tr>
<td>J.A. Dickinson</td>
<td>Canadian Forest Service</td>
</tr>
<tr>
<td>D.A. Dobson</td>
<td>Consulting Engineers and Geoscientists</td>
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<tr>
<td>R.J. Fannin</td>
<td>University Civil Engineering Education</td>
</tr>
<tr>
<td>G.E. Lester</td>
<td>Alumni and Students</td>
</tr>
<tr>
<td>J.N. MacFarlane</td>
<td>Consulting Foresters</td>
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<td>A.W.J. Sinclair</td>
<td>Forest Engineering Research</td>
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<tr>
<td>J.D. Sutherland</td>
<td>Ministry of Forests</td>
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<tr>
<td>G.F. Weetman</td>
<td>University Forestry Education</td>
</tr>
</tbody>
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**SFEIBC participants by program 1999 – 2000**

- **Forest Engineering Diploma Program** (4 modules) 86
- **Silviculture Technical Program** (2 modules) 29
- **Advanced Silviculture Diploma Program** (5 modules) 90
THE International Forestry programs (IP) office is committed to enabling and facilitating international linkages at the faculty, graduate and undergraduate levels. With this goal in mind, we have supported a number of new and ongoing programs which assist the Faculty of Forestry in maintaining and enhancing its profile internationally. Some of last year’s highlights are noted below.

We encourage organizations and institutions to contact us. With our partners we can improve research and promote an understanding of international forestry issues.

**International Exchange and Internships**

This past year, 23 UBC Forestry students went on exchange and the Faculty hosted 40 students from partner universities from the United Kingdom, the United States, Australia, New Zealand, Sweden, Finland, Norway, Germany, Austria, Belgium, the Netherlands and Italy.

The Malcolm Knapp Research Forest also hosted a number of international students throughout the year and is a major supporter of international programs for the Faculty.

**New Canada-European Union Student Mobility Consortium**

The Faculty of Forestry won a grant to establish a Canada-European Consortium of Forestry Universities that promotes the mobility of students to consortium partner institutions. Members include four Canadian universities: University of British Columbia, University of Toronto, University of Quebec, and the University of New Brunswick. It also includes ten European partners including the University of Aberdeen, Albert-Ludwig University of Freiburg, Université de Gembloux, University of Helsinki, Swedish University of Agricultural Sciences, University of Agricultural Sciences, Vienna, Wageningen Agricultural University and the University of Wales.

The major objective of the program is to promote student mobility at both the graduate and undergraduate levels. This is done through student exchange, training sessions, short-term tours, research visits and study visits. The grant will continue to the end of 2001.

As part of this consortium we have welcomed 20 students to the Faculty and have sent seven students from UBC to partner schools. In addition we hosted 19 students and three faculty from Europe to take part in a tour of British Columbia in September 1999. We look forward to participating in more coordinated tours with the consortium in the future.

**International Faculty Research and Projects**

Many of our faculty were involved in international research initiatives, conference coordination, and symposia. Some highlights include:

- Ongoing interdisciplinary research projects with the Winter Research Institute-Fuyusoken in Hokkaido, Japan. Publications in progress include articles on bioregionalism and wood construction in Japan. (Research conducted by David Cohen and Ray Cole).

- “Streamlining Local-Level Information for Sustainable Forest Management,” a conference being organized by Gary Bull and John Innes, to be held at UBC, August 28-30, 2000. See the web site: www.forestry.ubc.ca/workshop/index.htm for details.


**International Forestry Specialization**

The international forestry specialization, available in the Forest Management and Forest Science undergraduate programs, allows students to fulfill core requirements of the main program while specializing in a geographic region in terms of forest issues and science. Students take two years of language courses and participate in an international internship or exchange as part of this option. The objective is to educate students on international forestry issues and better understand Canada’s role in the international forestry arena.
THE Faculty’s First Nations initiatives are directed towards four areas of activity. They include:

1. Increasing the participation of First Nations students in the Faculty.
2. Providing support services to First Nations students.
3. Incorporating First Nations perspectives and issues within the Forestry curriculum.
4. Creating awareness within the University and the wider community about First Nations perspectives and issues in Forestry.

In the past academic year, there were 21 self-identified First Nations students within the Faculty, representing 2.7 per cent of the student body. Of these, 12 students were enrolled in Forest Resources Management, one in Forest Operations, three in Natural Resources Conservation, and two in Wood Products Processing. Three students were studying at the Masters level, and an indigenous person from Mexico was enrolled in a Ph.D. program. Of the 21 First Nations students in the Faculty, 7 are female and 14 are male. Ages ranged from 20 to 51 years, with the average age being 28 years.

Students came from the following First Nations:

- Cree
- Kwakwaka’wakw
- Metis
- Mohawk
- Nisga’a
- Nlaka’pamux
- Nuu-chah-nulth
- Nuxalk
- Ojibway
- Okanagan
- Shuswap
- Sto:lo
- Tahltan
- Wet’suwet’en

Three undergraduate students and one Masters student are on track for spring graduation.

There is an increasing interest on the part of First Nations communities to work with the Faculty of Forestry to meet community research and economic development needs. It is becoming increasingly apparent that meeting these needs requires the skills of an academic position specializing in First Nations issues.

**ACHIEVEMENTS IN 1999–00**

- Increased enrolment of First Nations students (from 17 to 21).
- Undertook extensive recruiting activities in classrooms, at career fairs and in communities throughout B.C.
- Developed a searchable data base of over 200 First Nations forestry references.
- Co-sponsored, with the National Aboriginal Forestry Association, a workshop on Aboriginal Professional Development in the Forest Sector. The workshop brought together 50 aboriginal foresters, forest technicians, students and academics to generate ideas for increasing aboriginal enrolment in natural resources studies.
- Incorporated CONS 370 (Perspectives on First Nations and Forest Lands) as a core course in the B.S.F. curriculum. Information on this course is now available on the web at http://www.arts.ubc.ca/anso/tindall/cons370/.
- Included participation of First Nations graduate student and community representatives in seven undergraduate and one graduate course.
- Hired a part-time First Nations student advisor.

**PLANS FOR 2000–01**

- Fill the Coordinator, First Nations Forestry Programs position left vacant by the departure of Madeleine Maclvor to a new position as associate director of the First Nations House of Learning.
- Increase the enrolment of First Nations students.
- Develop recruitment materials.
- Update the First Nations Forestry Programs web site to include the First Nations forestry reference data base.
- Continue to work with Nicola Valley Institute of Technology to develop a laddering process to forestry programs at UBC.
- Explore ways to meet the need for an academic position that focuses on First Nations resource issues.
THERE was a time when forests were viewed primarily as sources of timber and forestry was based on the economics of harvesting.

Today, the management of our forests encompasses economic, environmental, social and cultural considerations. Forest conservation, forest management and wood processing require specialized levels of knowledge. At no time has there been a greater need to learn more about our forests, to protect some areas, to enhance the growth and yield of other forested areas, and to continue building a knowledge-based forest sector.

Continued financial support from individuals and corporate donations helps us find innovative and effective solutions to forest issues and prepare our students for careers in forestry and forest-related professions.

- Designated Areas of Support

The Faculty of Forestry received close to seven hundred gifts from donors in the past year. Contributions to the faculty totalled $307,132 and were directed to the following areas:

<table>
<thead>
<tr>
<th>Area of designation</th>
<th>$ raised</th>
<th>% of total $ raised</th>
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<tbody>
<tr>
<td>Scholarships &amp; Bursaries</td>
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<tr>
<td>National Education</td>
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<td>Initiative for CAWP</td>
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<td>Research</td>
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<td>32</td>
</tr>
<tr>
<td>Total donations</td>
<td>$307,132</td>
<td>100%</td>
</tr>
</tbody>
</table>

- Forestry Alumni Continue their Support

Forestry alumni continue to make a significant contribution to the Faculty. Forestry continues to have one of the highest alumni participation rates of all the faculties on campus. This year, alumni contributed $56,202 toward Faculty priorities. The ongoing support of alumni is an important part of maintaining and enhancing our student programs. Thank you to all alumni who have contributed and to all the volunteers who made the effort possible.

- Graduating Students Commit to Class Act

Prior to graduating, students are committing their support to the Faculty of Forestry. The 1999-2000 class has received commitments and pledges of over $300 for the class act program. A clock, made out of Douglas-fir by one of our international students, is one of the many reminders that forestry students are leaving as a permanent legacy of the vitality and achievement of their graduating class. We commend and thank the donors to the Class Act program for their generous spirit.

PLANS FOR 2000–01

- Increase financial support available to our students. It is our priority to ensure that forestry programs are accessible to high caliber students by providing equal access to those students with financial limitations.

- Secure necessary funding for projects addressing priority issues in Forestry.

- Continue to develop funding support for priority projects in Forestry.

We extend our sincere appreciation to all those who contributed their time and resources to help us ensure that UBC remains a world leader in forestry education.
H.R. MACMILLAN LECTURES AND COURSE SPONSORSHIP

■ Conservation Biology Lectures

We invited internationally known members of the scientific community to UBC to participate in Conservation 500, a graduate seminar course in conservation biology. Drs. Kathy Martin and John Richardson organized the lecture series and taught the course. The Lecture Series is made possible by a grant from the H.R. MacMillan Family Fund. The following scientists gave public lectures:

Tim Schowalter
Oregon State University, Corvallis
- Community structure and resistance to biological invasions.

Dan Keppie
University of New Brunswick, Fredericton
- Can we use population and community ecology for forest conservation?

David Skelly
School of Forestry and Environment, Yale University
- Long term dynamics of amphibian populations: Implications for conservation.

David Johnson
Department of Fish and Wildlife, Seattle, WA.
- Wildlife habitats and species associations in Oregon and Washington – A conservation planning tool relevant to British Columbia.

Clait Braun
Grouse Inc., Tucson, Arizona
- Prairie grouse conservation in North America: Restoration through habitat management versus translocations.

Line Rochefort
Departemente de Phytobiologie, Universite Laval
- Peatland restoration and conservation in Canada.

Justin Brashares and Peter Arcese
UBC Forest Sciences Department
- Human demography and wildlife persistence in African parks.

Alistair Bath
Memorial University, St. John’s, Newfoundland
- Human dimensions research in conservation biology.

Urs Breitenmoser
University of Bern, Switzerland
- The fall and rise of large carnivores in central Europe.

Lester Seri
Papau, New Guinea
- Integrating conservation concerns into community development initiatives in the highlands of Papua New Guinea.

■ Conservation 451
(Integrated Field School)

The H.R. MacMillan Family Fund continues to provide essential support for Conservation 451, a course that is an integral part of the Natural Resources Conservation program. This course integrates natural sciences, social sciences, and management issues related to conservation of natural resources. The course consists of three modules each focusing on an ecosystem in B.C. The course was organised by Georigie Harrison in collaboration with Drs. Michael Feller, Susan Glenn, Scott Hinch and Kathy Martin.

The H.R. MacMillan Family Fund is instrumental to the success of Conservation 451 by providing funds to bring guest lecturers to this innovative new course. The inclusion of these participants benefits the course by exposing students to the breadth of views that characterise resource issues in B.C. The H.R. MacMillan Family Fund enables Conservation 451 to invite multiple speakers to field sites so that students learn practical skills and have the opportunity to apply textbook theories in real world situations. In addition to the academic benefits, the inclusion of outside professionals enables students to increase their sense of professionalism and provides the opportunity for students to meet potential employers. This year, students and faculty had the opportunity to interact with over 30 invited speakers in classroom and field activities. These speakers ranged from academics from other institutions, workers and managers from resource-based industries, First Nations groups, government officials and a range of non-government organisations.
STUDENTS FOR FORESTRY AWARENESS

Public Lecture Series

Students for Forestry Awareness (SFA) is an independent, student organization that has been in existence at UBC for over ten years. The mandate of the SFA is to dispense information, promote communication and spark reflection about aspects of the art, science and practice of forestry.

The SFA lecture series is open to all members of the university community as well as the general public. Lectures are given in the Forest Sciences Centre every Thursday at 12:30 p.m. during the fall and spring terms. Speakers and topics for the 1999/00 academic year included:

Karsten Heuer
Wildlife Biologist and National Park Warden
- *Yellowstone to Yukon conservation initiative.*

Gary Wouters, Forest Policy Review Commissioner
Don Ryan, Gitxsan Nation Chief
Ray Travers, Consultant
Reid Carter, First Marathon Securities
Russ Cameron, Lindal Cedar Homes
- *Forest policy review (panel presentations).*

Lorraine MacLauchlan
B.C. Ministry of Forests
Kamloops Forest Region
- *Beetlemania.*

John Clarke
Environmental Educator
- *Wilderness and forestry in coastal B.C.*

Andy MacKinnon
B.C. Ministry of Forests, Research Branch

Joe Foy
Western Canada Wilderness Committee
- *The Elaho conflict.*
  Part 1 – Environmental perspective.

Keith Rush, Del Schemko, Gord Prescott
Interfor
- *The Elaho conflict and solutions.*
  Part 2 – Industry perspective.

Jim Cooperman, B.C. Environmental Report
John Foster, Borealis Silviculture
- *Overcutting B.C.'s forests: Causes, indicators, impacts and solutions.*

Randy Lewis
Environment, Lands and Resources, Squamish Nation
- *The Elaho conflict and solutions.*
  Part 3 – First Nations perspective.

Eric Schroff, Lisaak (Weyerhaeuser/Nuu-chah-nulth joint venture)
Allen Hopwood, Woodlot Licensee
- *Implementing Forest Stewardship Council-accredited forestry certification in B.C.*
  (panel presentations).
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- academic program outlines and registration guides;
- profiles of Faculty members;
- department and allied program descriptions;
- online Faculty newsletters and special event announcements.

Any comments or suggestions about our World Wide Web site can be addressed to Jim Sibley, Web Coordinator, at (604) 822-0024 or e-mail sibley@interchg.ubc.ca.