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Pacific Forestry Centre

1987



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Canadian Forestry Service

Pacific Forestry Centre 506 West Burnside Road Victoria, B.C. V8Z 1M5 (604) 388-0600

The Pacific Forestry Centre

The Pacific Forestry Centre is one of six regional and two national establishments located across Canada operated by the Canadian Forestry Service. The Canadian Forestry Service (CFS) is the principal source of federal expertise in forestry. Its general objective is to promote the wise management and use of Canada's forest resource for the economic, social and environmental benefit of Canadians.

The Pacific Forestry Centre's program is responsive to the needs and priorities within the Pacific and Yukon Region (British Columbia and Yukon). The Centre pursues this objective by dividing its program into four major program areas. (see organization chart on following page)

Forest Development: As well as negotiating and administering the federal involvement in the Canada-British Columbia Forest Resource Development Agreement (FRDA), staff are active in technology transfer activities; management of forestry job development programs; provision of economic analysis; liaising with clients of PFC, and staffing of the Prince George District Office.

Forest Growth and Biology: Research and operations projects involve studies on growth and biology of Douglas-fir ecosystems; forest growth and measurement and damage appraisal; systems studies for forest management problems and, fate of nitrogenous fertilizers.

Forest Protection Research: Research and operations projects involve studies on bark and wood boring insects; protection of second growth stands from root and stem diseases; regeneration pests and pine blister rust; biological control of forest pests and, Forest Insect and Disease Survey.

Forest Renewal and Environment Research: Research and operations projects include forest regeneration systems; forest weed control strategy; fire research; Carnation Creek fish/forestry interactions; environmental impact of forestry practices and, collaborative scientific research and statistical services.

These four programs are supported by a Planning and Technical Support Services group providing computing and chemical services, microtechnique service, library support and planning services. Administrative and information services are also available to support the research and operational programs detailed above.

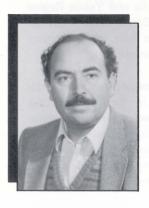
The programs of the Pacific Forestry Centre are carried out by the professional staff listed in this booklet. Any staff members may be contacted direct by phoning: (604) 388-0600

or writing: Pacific Forestry Centre
Canadian Forestry Service
506 W. Burnside Road
Victoria, B.C.
V8Z 1M5



Sylvia Alers

- Systems Analyst
- Planning and Technical Support Services
- A member of the software section of the computing unit, providing software support to the PFC.
- B.Sc., University of Victoria, 1975;
 M.Sc., University of Toronto, 1977.



René Alfaro

- Research Scientist
- Forest Growth and Biology
- Conducting research aimed at the description and quantification of pest impacts on trees and stands.
- B.Sc.F, University of Chile, 1972;
 M. Pest Management., 1977,
 Ph.D., 1980, Simon Fraser
 University.



Jim Arnott

- Research Scientist
- Forest Renewal and Environment Research
- Project Leader for seed and nursery research in support of improved plantation performance.
- B.Sc., Edinburgh University, 1963;
 M.Sc., Syracuse University, 1965.



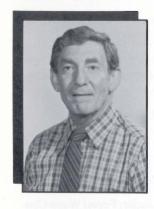
Mark Atherton

- Forestry Development Officer
- Forest Development
- Administering FRDA Indian Forest Lands Program.
- B.Sc.F., University of British Columbia, 1976; R.P.F.



Hugh J. Barclay

- Research Scientist
- Forest Growth and Biology
- Developing mathematical models of insect population dynamics and pest control and developing computer models of tree competition and forest growth.
- B.Sc., (Mathematics), University of British Columbia, 1964; M.Sc., 1973, Ph.D., 1978, (Biology), University of Victoria.



W.J. "Bill" Bloomberg

- Research Scientist
- Forest Protection Research
- Project leader for root and stem diseases, disease survey, disease impact and disease modelling.
- B.Sc.F., (Forestry, Botany), University of Wales, 1943; Ph.D.,
 (Forest Pathology), University of British Columbia, 1960.



G. Michael Bonner

- Research Scientist
- Forest Growth and Biology
- Involved in growth and yield research.
- B.Sc.F., 1961, M.Sc.F., 1966, University of Toronto; Ph.D., Syracuse University, 1973.



Holger Brix

- Research Scientist
- Forest Growth and Biology
- Investigating the physiology of tree growth in relation to stand thinning and nitrogen fertilization.
- M.F., Royal Veterinary and Agriculture College, Denmark, 1950;
 Ph.D., Texas A & M, 1959.



John C. Burch

- Forestry Development Officer
- Forest Development
- Administering FRDA Private Forest Lands Program.
- B.Sc.F., University of New Brunswick, 1954; Master Natural Resource Management, University of Manitoba, 1971.



Kathryn Campbell

- Forestry Job Development Officer
- Forest Development
- Assesses and monitors silviculture projects under the Unemployment Insurance section 38 and job development programs.
- B.Sc.F., University of British Columbia, 1985.



G. Wayne Coombs

- Project Leader: Forest Weed Control Strategies
- Forest Renewal and Environment Research
- Chairman of the federal direct delivery FRDA Technical Advisory Committee (TAC).
- B.Sc.F., University of British Columbia, 1970; R.P.F.



Robert M. Dean

- Manager
- Management Services
- Responsible for supervising: Finance, Purchasing, Physical Plant,
 Registry, Reception, Office services, Word Processing, Stores and Photography.
- Diploma in Public Administration,
 Southern Alberta Institute of
 Technology, 1969.



Jack P.G. de Lestard

- Chief, Forestry Relations
- Forest Development
- Reporting on forestry issues and establishing and maintaining contacts with the forestry community in an advisory capacity to promote and strengthen CFS research and development initiatives and programs in the Pacific and Yukon Region.
- B.S.F., University of British Columbia, 1962.



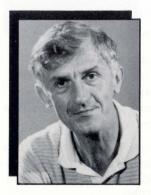
R.C. "Bob" Dobbs

- Senior Program Director, Research
- Forest Growth and Biology
- Coordinating research management at PFC and managing the Forest Growth and Biology Program.
- B.Sc.F., University of Washington, 1959; M.For., Yale School of Forestry, 1960; Ph.D., University of Washington., 1966.



Charles Dorworth

- Research Scientist
- Forest Protection Research
- Involved in identifying, propagating and testing organisms with a potential value as biological control agents for forest plants competing with commercially important forest tree species.
- B.Sc.F., 1961, M.Sc., (Plant Pathology), 1963, Pennsylvania State
 University; Ph.D., (Plant Pathology), University of Minnesota, 1967.



D. George W. Edwards

- Research Scientist
- Forest Renewal and Environment Research
- Involved in seed research, certification and testing.
- B.Sc.F., University of Aberdeen, 1959; M.F., 1963, Ph.D., 1969, (Forestry), University of Washington.



John A. Edwards

- Senior Program Director,
 Development
- Forest Development
- Manages Forest Development Program including negotiating and administering Canada-British Columbia Forest Resource Development Agreement; technology transfer activities; provision of economic analysis and forestry job development programs.



Slavoj Eis

- Research Scientist
- Forest Renewal and Environment Research
- Involved in root studies and the development of the reproductive structures of trees.
- Diploma. For. Eng., Technical University of Prague, 1948; Ph.D.,
 University of British Columbia, 1962.



Bill Evans

- Regional Finance Officer
- Management Services
- Supervises the administration of financial services.
- B.Admin., University of Saskatchewan, 1970; Certified Management Accountant, Society of Management Accountants, 1981.



Kelly Finck

- Plantation Pest Specialist
- Forest Protection Research
- Involved in all phases of FRDA research contracts relating to plantation pests. Providing technology transfers of material related to plantation pests.
- Technical Diploma, (Forestry), British Columbia Institute of Technology, 1982; B.Sc.F., University of Alberta, 1985.



Al Funk

- Research Scientist
- Forest Protection Research
- Studying the taxonomy, biology and cultural characteristics of ascomycetes and deuteromycetes.
- B.A., University of Western Ontario, 1950; Ph.D., University of Toronto, 1962.



Eleanor Gardner

- Forest Mensuration Research Officer
- Forest Growth and Biology
- Involved in growth and yield research.
- B.Sc.F. (Hons.), University of British Columbia, 1984.



Steve Glover

- Scientific Editor
- Information and Editorial Services
- Responsible for editing scientific and technical publications.
- B.Sc., (Chemistry), University of Victoria, 1977.



Rob Hagel

- Supervisor, Greenhouse & Grounds
- Management Services
- Provides expertise in management of greenhouse, shelterhouse crops along with equipment and facility maintenence. Responsible for managing grounds maintenence and indoor plant care.
- B.A., (Economics), University of Victoria, 1974.



John W. E. Harris

- Research Scientist
- Forest Protection Research
- Developing techniques for the biological control of spruce weevil.
- B.Sc.F., University of British
 Columbia, 1959; M.Sc., Syracuse
 University, 1961; Ph.D., University
 of Wisconsin, 1964.



Brad C. Hawkes

- Fire Research Officer
- Forest Renewal and Environment Research
- Currently active in prescribed fire behaviour and effects research.
- B.Sc.F., University of British
 Columbia, 1976; M.Sc., (Forestry),
 University of Alberta, 1979; R.P.F.



Eugene D. Hetherington

- Research Scientist
- Forest Renewal and Environment Research
- Involved in forest hydrology studies on the effects of forest management practices on runoff and streamflow regime.
- B.A.Sc., (Engineering, Physics),
 University of British Columbia,
 1962; M.A., (Meteorology), University of Toronto, 1963; Ph.D.,
 (Forest Hydrology), University of British Columbia, 1976.



Michael A. Hulme

- Research Scientist
- Forest Protection Research
- Project leader of Biological control of forest pests.
- B.Sc. (Hons), Owens College,
 1963; M.Sc., 1964, Ph.D., 1966,
 Manchester University.



Lee Humble

- Research Scientist
- Forest Protection Research
- Investigating the biology of black army cutworm and its parasitoids.
 Studying the parasitoids and predators of Ips perturbatus.
- B.Sc., University of Victoria, 1977.



Richard S. Hunt

- Research Scientist
- Forest Protection Research
- Investigating white pine blister rust and developing strategies to manage natural stands and screen seedlings for resistance.
- B.Sc. (Hons), University of Victoria, 1967; Ph.D., (Phytopathology), University of California — Berkeley, 1971; Post Doctorate, NRC Saskatoon.



Garry D. Jensen

- Biologist
- Forest Protection Research
- Involved in the investigation of host pathogen interactions in blister rust attacks on white pine and in root rot diseases. Studying nonspecific host responses to disease and injury.
- B.Sc. (Hons), University of British Columbia, 1966.



Bruce D. Lawson

- Head, Fire Research Unit
- Forest Renewal and Environment Research
- Involved in fire behaviour research in the Pacific and Yukon Region and nationally. Member of CFS Fire Danger Group, developing the Canadian Forest Fire Behaviour Prediction System (FBP).
- B.Sc.F., University of British
 Columbia, 1967; M.Sc.F., University of Montana, 1972.



Y. Jim Lee

- Research Scientist
- Forest Growth and Biology
- Conducting research in remote sensing and forest resource database systems.
- M.F., 1959, Ph.D., 1967, University of British Columbia.



Lesley E. Manning

- Microtechnique Biologist
- Planning and Technical Support Services
- Plastic sectioning for light and electron microscopy SEM of roots, leaves, insects, and fungi.
- B.Sc., University of Victoria, 1972.



D. Ross Macdonald

- Regional Director General
- Responsible for the overall direction and management of the Centre.
- B.Sc.F., University of Toronto,
 1952; M.F., University of Michigan,
 1957.



Dr. John F. Manville

- Research Scientist
- Forest Renewal and Environment Research
- Investigating the chemical responses of trees following natural disease, predation, drought and man-applied chemicals.
- B.Sc. (Hons), University of British Columbia, 1964; Ph.D., University of British Columbia, 1968.



Donna E. Macey

- Research Scientist
- Forest Growth and Biology
- On educational leave.
- B.Sc. (Hons), University of Victoria, 1982.



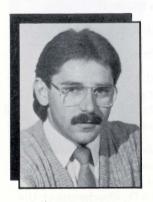
Valin G. Marshall

- Research Scientist
- Forest Growth and Biology
- Studying the impact of silvicultural practices on soil fauna; the role of soil fauna in nutrient cycling; nitrogenous fertilizers applied to snow.
- B.Sc., (Agr), 1959; M.Sc., 1963;
 Ph.D., 1964, McGill University.



Glen Manning

- Chief, Economic Analysis
- Forest Development
- Provides economic analysis for the CFS.
- B.Sc., 1963, M.Sc., 1966, Virginia Polytechnical Institute; Ph.D., Iowa State University, 1968.



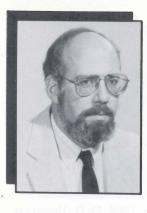
Walter Matosevic

- Forestry Development Officer,
 Prince George
- Forest Development
- Acting as the District Coordinator at the CFS District Office in Prince George.
- Diploma Forest Technology, Selkirk College, 1978; B.Sc.F., University of Alberta, 1982.



Michael D. Meagher

- Research Scientist
- Forest Protection Research
- Geneticist, White Pine Program
- B.Sc.F., University of British
 Columbia, 1957; M.Sc.F., University of Toronto, 1963; Ph.D., University of British Columbia, 1976.



Gordon Miller

- Program Director
- Forest Protection Research
- Managing protection program.
- B.Sc. (Hons.), 1972; M.Sc., 1976;
 M.P.M., 1979; Ph.D., 1983, Simon Fraser University.



J. Dean Mills

- Agreements Implementation Officer
- Forest Development
- Co-chairs the FRDA cost shared backlog reforestation and intensive forest management working group. Assists on the implementation of other agreements.
- Dipl. Forestry., BCIT, 1970; B.Sc
 F., University of British Columbia, 1974; R.P.F.



Leslie Ann Mitchell

- Research Scientist
- Forest Protection Research
- Involved in the diagnosis /detection of forest pathogens using monoclonal antibodies and immunochemical techniques.
- B.Sc., (Zoology), University of British Columbia, 1967; M.N.S., (Cell Biology), University of Idaho, 1979; Ph.D., (Biochemistry), University of Victoria, 1984.



Henry A. Moeck

- Research Scientist
- Forest Protection Research
- Developing methods for the biological control of bark beetles with predators and parasitoids.
- B.Sc., 1964, M.Sc., 1967, University of British Columbia; Ph.D., University of California, Berkeley, 1975.



Steve Moncrieff

- Systems Analyst
- Planning and Technical Support Services
- A member of the software section of the computing unit, providing software support to the PFC.
- B.Sc., University of Victoria, 1980.



Duncan J. Morrison

- Forest Pathologist
- Forest Protection Research
- Conducting research on Armillaria spp. and heterobasidion annosum.
- B.S.F., 1965, M.Sc., 1968, University of British Columbia; Ph.D., Cambridge, 1972.



Ed Oswald

- Research Officer
- Forest Renewal and Environment Research
- Studying vegetation succession and reforestation in the Nelson Forest District.
- B.A., 1962, M.A., 1963, Western State College, Gunnison, Colorado; Ph.D., University of Montana, 1966.



Imre S. Otvos

- Research Scientist
- Forest Protection Research
- Developing and evaluating the use of biotic agents in the control of forest defoliators; use of virus in the control of Douglas-fir tussock moth and western spruce budworm.
- B.Sc.F., University of British Columbia, 1961; M.Sc., (Entomology), University of California, Berkeley, 1964; Ph.D., (Forest Entomology, Biological Control), University of California, Berkeley, 1969.



Jack Pannekoek

- Head, Software Services
- Planning and Technical Support Services
- Scientific software development and support of management information systems.
- B.Sc. (Hons), (Chemistry), University of Alberta, 1971; Ph.D., (Analytical Chemistry), University of Saskatchewan, 1977.



Jennifer Parkinson

- Forestry Development Officer
- Forest Development
- Monitoring silviculture projects under the Federal Direct Delivery Component of FRDA.
- B.Sc.F., University of British Columbia, 1982; R.P.F.



John Partridge

- Head, Computer Operations
- Planning and Technical Support Services
- Planning and supporting computer operations to support scientific research and administrative requirements.
- B.Sc., (Mathematics, Physics), University of Victoria, 1970.



Fred G. Peet

- Research Scientist
- Forest Protection Research
- Developing methods for digital image processing for biological problems in forestry.
- B.A., University of Saskatchewan,
 1964; M.A., Columbia University,
 1966; Ph.D., University of British
 Columbia, 1970.



Caroline M. Preston

- Research Scientist
- Forest Growth and Biology
- Soil chemistry studies. Soil nitrogen and organic matter studies related to fertilization and thinning of stands; use of N-15 tracer techniques.
- B.Sc., (Chemistry), McMaster University, 1970; M.A., (Classics),
 Carleton, 1986; Ph.D., (Chemistry), University of British Columbia,
 1975.



Arthur Robinson

- Job Development Coordinator
- Forest Development
- Assesses and monitors job development and U.I. Sec 38 projects and coordinates activities of Job Development staff.
- Diploma of Forest Technology,
 Lakehead University, 1965;
 B.Sc.F., University of New Brunswick, 1968.



Les Safranyik

- Research Scientist
- Forest Protection Research
- Project leader for research on population biology and management of bark- and wood-boring insects.
- B.Sc.F., 1961, M.F., 1963, Ph.D.,
 1969, University of British
 Columbia.



Tara S. Sahota

- Research Scientist
- Forest Protection Research
- Conducting research to recognize changes in the quality of pest populations regarding their reproductive capacities, and evaluating them as early indicators of changes in pest population trends and hazards.
- B.Sc. (Hons), 1959, M.Sc., 1960, Panjab University; Ph.D., (Insect development and physiology), University of Toronto, 1966; PDF, Western Reserve University, 1966-67.



Douglas Say

- Systems Analyst
- Planning and Technical Support Services
- Computer support. (Databases and Graphics)
- B.Sc., (Math), University of Victoria, 1979.



John P. Senyk

- Research Officer
- Forest Renewal and Environment Research
- Investigating the environmental impact of airborne pollutants and forest management practices.
- B.Sc.F., University of New Brunswick, 1963.



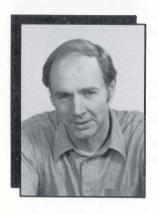
Roy Shepherd

- Research Scientist
- Forest Protection Research
- Studying kairomones and pheromones of forest pests and their parasites.
- B.Sc.F. (Hons), University of British Columbia, 1952; M.Sc., 1955, Ph.D., 1960, University of Minnesota.



Terry Shore

- Research Scientist
- Forest Protection Research
- Studying bark beetle biology and stand management.
- B.Sc. (Hons), (Forest Biology), University of British Columbia, 1978;
 Ph.D., (Forest Entomology), University of British Columbia, 1982;
 R.P.F., 1983.



Dick Silversides

- Research Scientist
- Forest Renewal and Environment Research
- Application of meteorological knowledge to forestry problems.
- B.A.Sc., University of British
 Columbia, 1957; M.A., University
 of Toronto, 1961; Ph.D., University
 of Guelph, 1973.



Clarence S. Simmons

- Applied Statistician
- Forest Renewal and Environment Research
- Designs experiments, trials and surveys; analyzes statistical data from experiments, trials and surveys; provides consultation on the design of experiments; provides statistical analysis, and use of statistical computer programs.
- B.Sc., (Agric. Sci), Reading University, 1962; M.Sc., 1966, Ph.D.
 (Quantitative Animal genetics),
 University of Guelph, 1974.



J. Gordon Skinner

- Manager
- Planning and Technical Support Services
- Managing Planning and Technical Support Services Program.
- B.A. (Hons), 1961, M.A., 1964,
 University of Western Ontario.

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Richard B. Smith

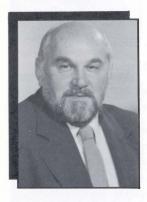
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- Research Scientist
- Forest Renewal and Environment Research
- Researching the impacts of forest harvesting and site preparation on future productivity.
- B.Sc.F., University of British
 Columbia, 1957; M.F., Yale University, 1958; Ph.D., University of
 British Columbia, 1963; R.P.F.



Alice Solyma

- Head, Library Services
- Planning and Technical Support Services
- Manages research library at PFC.
- B.A., 1973, B.L.S., 1975, University of Alberta.



Walter Stanek

- Research Scientist
- Forest Renewal and Environment Research
- Ecosystematic classification.
- Dipl. For., University of Munich, 1955; M.Sc.F., University of Toronto, 1961; Ph.D., University of British Columbia, 1966.



Rona Sturrock

- Nursery Pest Specialist
- Forest Protection Research
- Nursery pest research, technology transfer activities, and FRDA project development and assessment.
- B.Sc., University of Victoria, 1983; recently completed requirements for M.Sc., (pest management), Simon Fraser University, 1986.



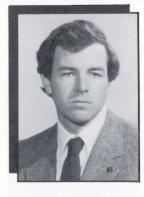
Winston W. Stokes

- Implementation Officer
- Forest Development
- Developing implementation and information programs for FRDA and liaising with other funding programs for industry and PFC projects.
- B.A., 1963, B.D., 1968, University of Alberta.



Jack R. Sutherland

- Research Scientist
- Forest Protection Research
- Project leader, for the study of regeneration pests, gray mould research, cone and seed diseases, and pinewood nematode research.
- B.Sc., (Agricultural Science),
 1958, M.Sc., (Botany), 1960, University of Ohio; Ph.D., (Plant pathology), West. Va. University,
 1964.



Steve Taylor

- Fire Research Officer
- Forest Renewal and Environment Research
- Studying the use of prescribed fire for rehabilitation of northern interior backlog NSR sites under FRDA and assisting with ongoing prescribed fire research.
- B.Sc., University of Victoria, 1982;
 M.Sc.F. candidate, University of British Columbia.



Elaine Teske

- Chief, Information Services
- Information Services
- Responsible for public and media relations, publishing, graphic arts, etc.
- B.A., Carleton University, 1969.



Alan J. Thomson

- Research Scientist
- Forest Growth and Biology
- Insect population dynamics and impact; growth and yield modelling; digital image analysis of Isoelectric focusing patterns; geographic information systems.
- B.Sc., Glasgow, 1968; Ph.D. McMaster, 1972.



Tony Trofymow

- Research Scientist
- Forest Growth and Biology
- Studying soil carbon and nitrogen distributions in thinned and fertilized Douglas-fir; decomposition studies of C14 and N-15 labelled roots and needles; measuring and modelling forest soil temperature and moisture profiles; modelling of soil decomposition processes.
- B.Sc., (Biology), University of Lethbridge, 1978; M.Sc., 1981, Ph.D., (Soil Ecology), Colorado State University, 1984.



Vic Ulrich

- Senior Implementation Officer
- Forest Development
- Oversees implementation, evaluation and administration of forestry development initiatives.
- B.Sc., University of Manitoba, 1949.



Ann Van Niekerk

- Supervisor, Chemical Services
- Planning and Technical Support Services
- Inorganic chemical analysis of soil, sediment, plant material, and water for research studies.
- Dipl. Tech., BCIT, (Biological Sciences), 1969.



G. Allan Van Sickle

- Head, Forest Insect and Disease Survey
- Forest Protection Research
- Forest insect and disease survey, computer mapping, plant quarantine.
- B.Sc.F., 1965, M.Sc., 1969, University of British Columbia; Ph.D.,
 Pennsylvania State University,
 1972; 3rd course, Planning and
 Management, Forestry, Commonwealth Forestry Institute, Oxford,
 1978.



Eleanor White

- Research Scientist
- Forest Protection Research
- Research into the molecular biology of conifers; gene cloning mapping and sequencing, molecular biology of pathogenesis; population studies using DNA polymorphisms.
- B.Sc., 1963, M.Sc.,1966, University of British Columbia; Ph.D.,
 Swedish University of Agricultural Sciences, 1983.



William A. White

- Economist
 - Forest Development
- Stand optimization and dynamic programming, and research on forest dependent communities in B.C.
- B.Sc., Brigham Young University,
 1977; M.A., University of Regina,
 1982; Ph.D., (pending) Simon
 Fraser University.



Roger J. Whitehead

- Research Officer
- Forest Renewal and Environment Research
- Studying responses to forest weed control treatments; active in Expert Committee on Weeds; + FRDA TAC committees.
- B.Sc., University of Victoria, 1983.



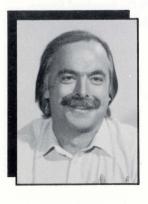
H.S. "Stu" Whitney

- Research Scientist
- Forest Protection
- Research on fungus diseases of insects as control agents for forest pests.
- B.Sc.A., 1954, M.Sc., 1956, University of Saskatchewan; Ph.D.,
 University of California, Berkeley 1963; P.D.F., University of California, Berkeley, 1969-70, Cornell University, Ithaca, N.Y. 1985-86.



Dave Winston

- Program Director
- Forest Renewal and Environment Research
- Manages Forest Renewal and Environment Research program.
- B.Sc.F., University of Toronto, 1968; M.Sc., Michigan State University,1973; Diploma in Business Admin, Algonquin College, Dipl., Management Practices, Laurentian University.



Colin S. Wood

- Chief Ranger
- Forest Insect and Disease Survey
- Supervising Rangers, Forest Insect and Disease Survey.
- Nat'l Cert. (pest management),
 Clwyd Technical Institute, 1958.

Canadä