



NEWSLETTER

Number 9 - February 1986

EDITORIAL

A primary objective in this edition of the newsletter is to give details of the upcoming Annual General Meeting and the 10th B.C. Soil Science Workshop. Along with the meeting of the B.C. Chapter of the Soil Conservation Society of America (Feb. 19), they will be held at U.B.C. February 20 to 21st. This issue also contains the nominations for the executive and a list of theses completed at U.B.C. since our last review (Newsletter 5). Again we would like to encourage you to contribute to the next issue, which is tentatively scheduled for April. Let us know about activities and publications by you and your colleagues. If you are building up steam over an area of controversy, use the newsletter as a forum to present your ideas. Send your contribution to "The Newsletter", c/o Bill Price or Mike Curran, at the address below. In the next issue we would like to review current research being carried out in the province. Let us know what you are doing. If anyone is affiliated with the University of Victoria or S.F.U., we would appreciate hearing from them regarding theses and research that has and is being carried out at those institutions.

The last order of business is that membership fees are due (\$5 regular; \$3 student). These can be sent by mail or paid at the AGM.

In closing we would like to thank Paul Sanborn for his contributions, as co-editor, to past newsletters. As a result of other commitments, Paul had to retire. Also, thanks to Coleen Hackinen for helping with the typing and layout for this edition.

ANNUAL GENERAL MEETING

The Annual General Meeting will be held in conjunction with the 10th B.C. Soil Science Workshop at U.B.C. Both are described at the end of this Newsletter (as is the B.C. Chapter meeting of the Soil Conservation Society of America).

Annual General Meeting Details: Date: 20 February 1986

Time: 7:30 p.m.

Location: Room 154, MacMillan Bldg.

Refreshments will precede and follow the formal part of the meeting.

Department of Soil Science, University of British Columbia,
Vancouver, B.C., V6T 2A2, Canada Telephone: 228-2783

The nominating committee has recommended the following people for this year's Executive:

Past President: Lawrence Lowe
President: Carol Jones
Vice President: Dan Lousier
Secretary: Narender Nagpal
Treasurer: John Jungen

Further nominations may be submitted on paper before the meeting convenes and will be accepted from the floor at the meeting, before the issue will be closed. See you there!

B.C. CHAPTER - CANADA LAND RECLAMATION ASSOCIATION

In December, 1985 the B.C. Chapter of the Canadian Land Reclamation Association held its first meetings. The organization hopes to bring together individuals working on the wide spectrum of land rehabilitation problems, in order to facilitate professional communication and promote public awareness.

In this regard, the local chapter will host the 1986 National Conference, in Vancouver June 3rd to 6th. A notice of the call for papers is included here.

At present the organization is compiling a list of similar interest organizations, such as the P.R.S.S.S., so that it can inform its members about them and about any upcoming activities that may be of common interest. CLRA membership costs \$30, for which one becomes a member of both the provincial and the national organization and receive the newsletter, which comes out three times per year. For more information, contact Bill Carr, at 986-4186 (North Vancouver).

UPDATE: INFORMATION REQUEST - SLASHBURNING

Thanks to the number of people who have contributed information to this on-going compendium on past slashburning research and trial areas (published in the last Newsletter). Additional contributions would be welcomed by Mike Curran, Ph.D. Candidate, c/o PRSSS address (Phone: 228-3470).

HOT OFF THE PRESS

"FORESTRY AND SOILS: The contributions of Dr. Earl L. Stone to Forest Soil Science" is a compilation of eleven of Dr. Stone's review articles and keynote addresses written over the past 20 years. The book contains three sections: 1) general forestry-soils relationships, 2) soils and site productivity and 3) research gaps and opportunities. This should be an excellent compilation. A limited number of copies are available for \$9.00 U.S. from Dr. Dan Neary; G-159 McCarty Hall, Soil Science Dept., University of Florida, Gainesville, Florida 32611.

"FOREST SOILS CONTINUING EDUCATION OPPORTUNITIES" is a comprehensive listing of short courses and relevant meetings for 1986 and part of 1987 (some major meetings are included in the PRSSS Newsletter). Prepared by D.M. Baumgartner and C. Schnept, Cooperative Extension, Washington State Univ., Pullman, WA 99164-6412.

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MEETINGS

- Feb. 18-19, 1986: Alberta Soil Science Workshop in Calgary, Alberta. Contact: Dr. J.F. Dormaar, Ag. Canada Res. Station, Box 3000, Lethbridge, Alta., T1J 4B1 or call (403) 327-4561.
- Feb. 19, 1986: B.C. Chapter meeting, Soil Conservation Society of America - DETAILS ATTACHED -
- Feb. 20-21, 1986: Tenth B.C. Soil Science Workshop - DETAILS ATTACHED -
- Feb. 20, 1986: PRSSS Annual General Meeting - in conjunction with above - DETAILS ATTACHED -
- Feb. 25, 1986: Current Topics in Forest Pesticides Symposium, Olympia, Washington. Contact: Conferences and Institutes, 208 VanDoren Hall, Washington State University, Pullman, WA 99164-5220. Phone: (509) 339-2946. (Followed by "Forest Pesticides in the Pacific Northwest Shortcourse", registration details through above contact (Feb. 26,27).
- Mar. 3-5, 1986: Annual Silviculture Symposium: Prescribed Fire in the Intermountain Region, Spokane, Washington. Contact: Conferences and Institutes, 208 VanDoren Hall, Washington State University, Pullman, WA 99164-5520. Phone: (509) 335-2946.
- Mar. 12-14, 1986: B.C. Mine Reclamation Symposium, Vernon, B.C. Contact: Mining Association of B.C., #480 - 1066 W. Hastings St., Vancouver. Phone: 681-4321.
- Mar. 26-29 1986: Northwest Scientific Association Annual Meeting, Cheney, Washington. Contact: University Conferences, Eastern Washington University, Cheney, WA 99004. Phone: (509) 359-2406 or 359-6469.
- Apr. 8-9, 1986 (originally 15-16): Fire Management Symposium, Prince George, B.C. Contact: Al Gorley. Phone: 847-7555.
- Apr. 21-23, 1986: Third Hydrogeological Conference, Saskatoon, Saskatchewan. Contact: Mr. H. Maathius, Co-Chairman, Saskatoon 1986, Saskatchewan Research Council, 30 Campus Drive, Saskatoon, Sask. S7N 0X1.
- Apr. 28-May 2, 1986: International Workshop on Quantified Land Evaluation Procedures, in Washington, D.C. Contact: Prof. K.J. Beek, ITC, P.O. Box 6, 7500 AA Enschede, Holland.
- May 5-8, 1986: Tenth Canadian Symposium on Remote Sensing, theme: "Technology for Value", at Westin Hotel in Edmonton, Alta. Contact: Ms. Diane Thompson, Technical Committee Co-Chairperson, Intera Technologies Ltd., #1200 - 510 5th St. S.W., Calgary, Alta., T2P 3S2. Phone: (403) 266-0900.
- June 3-6, 1986: Canadian Land Reclamation Association Symposium, theme: "Land Rehabilitation: Policy, Planning Systems and Operational Programs", at U.B.C. Contact: Ms. Carol Jones, Reid Collins Nurseries Ltd., Box 430, Aldergrove, B.C. Phone: 533-2210.
- July, 1986 (4 days in week of July 7): Northwest Forest Soils Council Summer Meeting, Alaska (includes field tours). Contact: Ed Packee, Agric. and Forestry Expt. Station, University of Alaska, Fairbanks, AK 99475-0080. Phone: (907) 474-7188. (Ed would like an estimate of required camping space or motel/dormitory space by late February)
- July 6-10, 1986: Canadian Society of Soil Science annual meeting, theme: "The Age of Information:", in Saskatoon, Saskatchewan. Contact: Dr. E. de Jong, Dept. Soil Science, Univ. of Saskatchewan, Saskatoon, Sask. S7N 0W0.
- Aug. 13-20, 1986: 13th International Congress of Soil Science in Hamburg, Fed. Rep. of Germany. Contact: Dr. K.H. Hartge, Inst. f. Bodenkunde, Univ. Hannover, Herrenhauserstrasse 2, D-3000 Hannover 21, F.R. Germany.

U.B.C. SOIL SCIENCE THESES COMPLETED 1984-85

B.Sc.

- Densmore, Joni. Evidence that Proto-Imogolite is Responsible for Carrying Aluminum to the Lower Horizons in Podzols.
- Hamlen, Catherine J. Organic Matter Studies in a Soil Chrono-
sequence.
- Olds, Don. The Effects of Kelp and Benzyladenine Foliar Sprays on the Growth and Nutrition of Soil Moisture Stressed Phaseolus vulgaris L.
- Paciejewski, Julie. The Adsorption of Soil-Derived Polyphenols and Polysaccharides onto Montmorillonite.
- Sniady, Christine B. Effect of Whey on Nitrogen Content of Soil.

M.Sc.

- Hamdy, W.H. Three Essays: 1. "A Soil Resource and Land Capability for Agriculture Survey of the Fraser Lake Band Reserves." 2. "A Soil Resource and Land Capability for Agriculture Survey of the Cheslatta Band Reserve No. 1." 3. "Some Aspects of Acidic Deposition on Western Canada."
- Newsome, Teresa Hardie. Fertilization of Western Hemlock with Nitrogen, Phosphorus, and Lime: A Greenhouse Study.

Ph.D.

- Kelliher, Francis M. Salal Understory Removal Effects on the Soil Water Regime and Tree Transpiration Rates in a Douglas-Fir Forest.

U.B.C. SOIL-RELATED FORESTRY THESES COMPLETED 1984-85

B.S.F.

- Altman, John Martin. The Environmental Characterization of the Associations of Sumas Mountain Provincial Park.
- Altman, Ronny Andreas. The Biogeoclimatic Plant Associations of Sumas Mountain Provincial Park.
- Archdekin, Robin F. Significance of Alder in the Restoration of Soil Nutrient Status following Extreme Site Disturbance.
- Booth, Janet K. Land Management Plan for Arngask, near Langford, Vancouver Island.
- Cocciolo, Fernando E. Foliar Nutrient Diagnosis, Relationships to Growth and Yield in Lodgepole Pine Stands.
- Conly, David Arthur. Prediction of Slashburning Induced Reduction of the Forest Floor.
- Croy, Owen Cameron. A Development Plan for the Urban Demonstration Forest in the Vancouver Area.
- De Jong, Rene John. Tree Rings as Indicators of River Runoff for the Spillimacheen Watershed, British Columbia.
- De Long, Deborah L. Privatization of Forest Lands in B.C.; A Solution to Responsible and Effective Forest Management.
- Elasaesser, Frederick. Seasonal Patterns in the Nutrient Concentration and Content of Lodgepole Pine Roots in Relation to Site.
- Farnden, Craig Earl. Response of Lodgepole Pine to Fertilization.
- Farquharson, Dennis. Effects of Various Soil Textures on Earthworm Survival.
- Feldinger, Grant M. Precipitation and Throughfall Concentrations of N, P, K, S, and Ca in Lodgepole Pine Ecosystems. Relationships to Site and Foliage Biomass are also included.
- Fennell, Norm. Plantation Damage by Cattle.
- Fisher, Jeffrey D. Forest Land Alienation and its Effect on Timber Production.

U.B.C. SOIL-RELATED FORESTRY THESES - Continued

- Francis, David George. An Integrated Management Plan for the Shannon Creek Compartment near Squamish, British Columbia.
- Graeme, Ian Peter. Analysis of Carnation Creek Slide.
- Henders, Barbara B. Nitrogen Content in Decayed Aspen as Evidence of Translocation of Nitrogen within Fungal Hyphae.
- Holmes, Stanley R. An Analysis of Windthrow along Clearcut Boundaries in the Tsitika Watershed.
- Laishley, Robert. Identification Manual for Pathology.
- Lipp, Cynthia Carole. Characterization of Forest Ecosystems in the Mountain Hemlock Biogeoclimatic Zone by Attribute Spectra Derived from Lifeforms and Climatic and Edatopic Indicator Plant Species Groups.
- MacDonald, M. Archie. A Variability Study of the Foliar Nutrient Levels of Western Hemlock (Vancouver Island).
- McGeough, Dean M. Prescribed Burning Effects on the Vegetation and Tree Regeneration in the Decadent Cedar-Hemlock Forest Type in Pacific Rim National Park.
- Mahowich, Tina-Marie. The Function of Pest Management in B.C. and B.C.'s Provincial Parks with Emphasis on the Public Opinion.
- Mechlin, Jessica Lyn. The Effects of Prescribed Fire on Soil Nitrogen Levels and other Soil Properties in a Cutover CWH Forest on the Mission Tree Farm.
- Morello, Raymond Gene. Problems Associated with Land Reclamation.
- Nordstrand, Doug W. The Relative Growth Response of Suppressed Douglas-Fir to an Aerial Glyphosate Application.
- Oliemans, Willem F. The Relationships between several Forest Fire Variables and the Biogeoclimatic Zones in the Cariboo Forest Region.
- Poland, Peter T. The Effect of a Herbicide on Stream Chemistry.
- Probek, George David. Stability of Container-Planted Lodgepole Pine in the Interior of British Columbia.
- Richkum, Gordon A. Rate of Spread Prediction of Phellinus weirii Root Rot in Infested Stands.
- Saunders, Brian R. The Introduction of Forestry into Grade Eight Classes.
- Schnorbus, Elizabeth. Second Year Growth Response of Fertilized Sitka Spruce Plantations in the Fort McNeil Block of TFL 25.
- Scott, Mark Leander. The Relationship Between Nutrient Cycling and the Concentration of N, K, and Ca in the Sapwood and Heartwood.
- Tamas, Mark Andrew. A Comparative Study of Foliar Nutrient Levels in Western Hemlock Growing on Two Phases of the S1 Ecosystem in TFL 25.
- Tetrault, Ronald L. Forest Floor Nitrogen Mineralization Rates Relationship to Stemwood Production and Site in Lodgepole Pine Ecosystems.
- Van Arem, Micheael J. Correlations between Nutrient Losses from Slashburning and the Codes of the Canadian Fire Weather Index.
- Waines, Andrew C. The Suitability of Auger Planting on Cleared Landing Areas in the British Columbia Interior.
- Walker, Kevin G. Examining the Relationship between Starch Concentrations and Fine Root Production in Coastal Douglas-Fir on Vancouver Island.
- Waters, Lauren G. The Ability of Pinus ponderosa Seedlings to Generate Lateral Roots after Root Pruning at Various Depths.

U.B.C. SOIL-RELATED FORESTRY THESES - Continued

Weber, Gordon E. Analysis of the Three-Year Growth Increment for a Lodgepole Pine (Pinus contorta var. contorta) Optimum Nutrition Experiment.

M.Sc.

Cushon, G. Gaseous Nitrogen Transformations in a Mature Forest Ecosystem.

Germain, A. Fertilization of Stagnated Sitka Spruce Plantations on Northern Vancouver Island.

Haskin, C. Nitrogen Availability and Soil Microclimate after Clearcutting Lodgepole Pine.

Kabzems, R. Quantitative Classification of Soil Nutrient Regimes of some Mesothermal Douglas-Fir Ecosystems.

Kumi, J. Effects of Repeated Fertilization on a Straw Application to the Organic Layers under Jack Pine and Seedling Response.

Ramsay, W. Erosion in the Middle Himalaya, Nepal with a Case Study of the Phewa Valley.

Vihnanek, R. The Effects of Slashburning on the Growth and Nutrition of Young Douglas-Fir Plantations in some Dry, Salal-Dominated Ecosystems.

Ph.D.

Brand, D. Early Growth and Development of Douglas-Fir in Relation to Interspecific Competition.

Carr, W. Restoring Productivity on Severely Degraded Forest Soil in British Columbia.

Ferreira, M. An Analysis of the Future Productivity of Eucalyptus grandis Plantations in the "Cerrado" Region in Brazil: A Nutrient Cycling Approach.

Keane, M. Aspects of Needle Morphology, Biomass Allocation and Foliar Nutrient Composition in a Young Fertilized Stand of Repressed Lodgepole Pine.

Martin, W. Post-clearcutting Forest Floor Nitrogen Dynamics and Regeneration Response in the Coastal Western Hemlock Wet Subzone.

Murphy, P. Methods for Evaluating the Effects of Forest Fire Management in Alberta.

U.B.C. SOIL-RELATED PLANT SCIENCE THESES COMPLETED 1984-85

B.Sc.

Bazett, W. Effect of Medium pH on Shoot Growth of Lavandula angustifolia Mill. cv. 'Munstead' and Conversely the Effect of Shoot Growth on the Medium pH.

Sigurdson, L.S. Seed Treatments to Improve Seedling Establishment in a Compacted Soil.

Swales, S. Yield Evaluation of Trickle Irrigated Tomatoes Receiving Low Concentration, High Frequency Injections of Nitrogen.

Well, M. Effect of Residues of Vetch and Rye on the Growth of Corn and Lettuce.

M.Sc.

Brooke, B.M. Survival of Five Forage Species After Aerial Seeding on Snow.

Mayall, A.C. Relationship of Regulation to Salinity and Sodicity in Wetland Meadows of Chilcotin Region of B.C.

U.B.C. SOIL-RELATED GEOGRAPHY THESES COMPLETED 1984-85

M.Sc.

Benchimol, N. The Spatial Variability of Insolubility in the Lower Mainland using GOES Data.

Hogan, Daniel L. Stream Channel Morphology: Comparison of Logged and Unlogged Watersheds in the Queen Charlotte Islands.

Nadler, D.(Mills). Groundwater Hydrology and Slope Movement at Pavilion, B.C.

Souch, Catherine J. Holocene Lacustrine Sedimentation in a Small Subalpine Watershed in the Coast Mountains of British Columbia.

Williams, Harry. Influence of Topography and Infiltrability on Soil Moisture and Runoff Generation in a Small Sub-Alpine Watershed.

Wolcott, John F. The Grain Size Gap in Riverbed Gravels.

Ph.D.

Gallie, Thom. Chemical Denudation and Hydrology near Tree Limit, Coast Mountains, British Columbia.



To advance the science and art of good land use

British Columbia Chapter

INVITES YOU TO THE

ANNUAL MEETING

February 19, 1986 at 7:30 p.m.
Room 158, MacMillan Building, UBC

PROGRAM

7:30-8:30

ARDSA AND FRDA AGREEMENTS IN B.C.

presentation of the new Federal-Provincial regional development agreements in Agriculture and Forestry, its scope, objectives, structure, programs, application procedures, and who is going to do the work (university, consultants, government)

by

Mr. Jack Steel, Director ARDSA Branch,
B.C. Min. of Agric. Food, Victoria

and

Mr. Bob Jones, Manager Silviculture,
B.C. Min. of Forests, Victoria

8:30-9:00

DISCUSSION AND COFFEE

9:00-9:45

B.C. CHAPTER ANNUAL BUSINESS MEETING

EVERYONE WELCOME!

NOTE: ROOM AND BUILDING CHANGED

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WORKSHOP ANNOUNCEMENT

TENTH BRITISH COLUMBIA SOIL SCIENCE WORKSHOP

You are invited to attend the 10th British Columbia Soil Science Workshop!

THEME - Degradation of Forested Land--"Forest Soils at Risk".

WHEN - February 20 and 21, 1986.

WHERE - Room 110 Angus Building, University of British Columbia
Vancouver, B.C. (North of MacMillan Building on Main Mall
at corner of University Blvd.)

REGISTRATION - Any time during the first day, preferably in the morning.

FEE - \$10 (make cheques payable to: Tenth B.C. Soil Science Workshop).

SPONSORS - B.C. Ministry of Forests
B.C. Land Resource Science Lead Committee
Soil Conservation Society of America (B.C. Chapter).

Synopsis


The impact of site degradations on the future production of fibre and forage in the province of B.C. is largely unknown. The Ministry of Forests Act states that a prime function of the Ministry is to manage, protect, and conserve Crown forest and range resources. In the immediate and long term site degradation can occur through the physical loss or severe disturbance of soil material caused by forest harvesting, site preparation, and road building activities. Degradation can also result from changes in nutrient availability caused by operations and changes in site water relationships because of disruption of water flow or the removal of plant cover.

This workshop will focus on issues such as:

- What changes actually occur?
- What are the ramifications for site productivity?
- How can these changes be predicted beforehand?
- Can forest soil degradation be rehabilitated? How?
- What is the long- and short-term cost of forest site degradation and rehabilitation?
- What research needs to be done to answer some of these questions?

The workshop program is attached. Please circulate it amongst your friends and colleagues. If you have questions, please contact Dan Lousier (387-3338, Victoria), or me (354-6200, Nelson).

The workshop promises to be interesting and informative. Hope to see you there!


Gerry Still
Chairman, Organizing Committee

:0274r

Degradation of Forested Land - Forest Soils at RiskDay 1

8:30 - 8:45 Opening Remarks - Welcome

Topic 1 - Forest Soil Degradation - Causes/Effects (Chairman - Bob Green)

8:45 - 9:15 Dr. H. Froehlich* - Overview of Causes and Effects of Soil Degradation Associated with Timber Harvesting

9:15 - 9:30 Rick Smith - Environmental Impact of Ground Harvesting Systems on Steep Slopes in the Vernon Forest District

9:30 - 9:45 Bill Watt - Can Ground Systems Match Cable Systems in Reducing Site Disturbance?

9:45 - 10:00 Discussion

10:00 - 10:30 Coffee/Posters

10:30 - 11:00 Dr. W. Megahan* - Road Effects and Impacts - Watershed

11:00 - 11:15 Dr. P. Miller - Logging Roads: Landscape Management Implications of Soil Disturbance and Erosion

11:15 - 11:45 Dr. T. Ballard* - Soil Degradation Associated with Forest Site Preparation

11:45 - 12:00 Discussion

12:00 - 1:30 Lunch/Posters

Topic 2 - Forest Soil Degradation/Productivity Relationship (Chairman -

Dr. Terry Lewis)

1:30 - 2:00 Dr. R. Smith* - Soil Disturbance/Productivity Relationships

2:00 - 2:15 Dr. D. McNabb - Interpreting the Effects of Broadcast Burning on Forest Productivity

2:15 - 2:30 J. Schwab - Mass Wasting Impacts to Forest Land on the Queen Charlotte Islands

2:30 - 2:45 Discussion

2:45 - 3:15 Coffee/Posters

3:15 - 3:30 Dr. J. Kimmins - FORCYTE - An Ecosystem Modelling Approach to Evaluating Long-term Effects of Forest Management

3:30 - 3:45 D. Wilford - Some Implications of Managed Stands on Forest Soil Productivity

3:45 - 4:00 Discussion

Day 2Topic 3 - Predicting/Controlling Forest Soil Degradation (Chairman - Mike Fenger)

8:30 - 9:00 Dr. D. Moon* - Prediction of Forest Soil Degradation

9:00 - 9:15 G. Butt - Predicting Compaction on Forest Soils

9:15 - 9:30 Dr. M. Sondheim and D. Howes - Part II: Quantitative Definitions of Stability Classes as Related to Post-logging Clearcut Landslide Occurrence

9:30 - 9:45 Discussion

9:45 - 10:15 Coffee/Posters

10:15 - 10:30 Dr. S. Howes - Consideration of Soil Productivity During Forest Management Activity - The U.S.D.A. Approach in the Pacific Northwest

10:30 - 10:45 Dr. S. Howes and L. Laing - Case Study: Detrimental Soil Compaction by Feller Buncher Rubber Tired Skidder

10:45 - 11:00 Discussion

Topic 4 - Rehabilitation (Chairman - Laurens van Vliet)

11:00 - 11:30 Dr. W. Carr* - Rehabilitation of Degraded Forest Soils in B.C. - Current Program and Future Needs

11:30 - 11:45 D. Miles - Objectives and Criteria for Forest Tillage Operations

11:45 - 12:00 Discussion

12:00 - 1:30 Lunch/Posters

Topic 5 - Economics of Forest Soil Degradation and Rehabilitation

Chairman - To Be Announced

1:30 - 2:00 G. Bowden* - Economics

2:00 - 2:15 R. Routledge - Assessing the Long-term Costs of Forest Soil Degradation

2:15 - 2:30 H. Hammond - Short- and Long-term Economic Effects of Soil Disturbance

2:30 - 2:45 Discussion

2:45 - 3:15 Coffee/Posters

Topic 6 - Research Needs (Chairman - Dr. Dan Lousier)

3:15 - 3:30 M. Curran - Rocks on Stumps

3:30 - 3:45 G. Still* - Research Needs

3:45 - 4:00 Discussion

4:00 - 4:05 General Discussion and Closing Remarks (D. Lousier)

10th B.C. SOIL SCIENCE WORKSHOP
POSTER SESSION AGENDADay 1

Angus McLeod--Soil Disturbance and Compaction on Skid Trails

Steve Howes--Sampling Soil Disturbance

Bill Beese--Landslide Rehabilitation and Erosion Control

Mike Curran - Soil Disturbance/Productivity Relationships

Day 2

Bill Carr and Angus McLeod--An Assessment of Landing Rehabilitation Activities in the Prince George East Forest District

Bill Beese--Effects of Prescribed Burning on Forest Productivity of Some Coastal B.C. Sites

Herb Hammond--Matching the Logging System to the Terrain.

Dave Myrold--Effects of Compaction on Soil Microbial Activity



CANADIAN LAND RECLAMATION ASSOCIATION

ASSOCIATION CANADIENNE DE RÉHABILITATION DES SITES DÉGRADÉS

BOX 682 - GUELPH, ONTARIO, CANADA - N1H 6L3

FIRST NOTICE AND CALL FOR PAPERS

11TH ANNUAL MEETING
LAND REHABILITATION: POLICY, PLANNING SYSTEMS
AND OPERATIONAL PROGRAMS

JUNE 3 - 6, 1986
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B.C., CANADA

The British Columbia Chapter of the Canadian Land Reclamation Association (CLRA) and the University of British Columbia will host the 11th Annual Meeting of the CLRA.

The theme of the conference is *Land Rehabilitation: Policy, Planning Systems, and Operational Programs*. General sessions will feature invitational papers as well as selected volunteer papers on land rehabilitation concerns from such fields as:

MINING

AGRICULTURE

URBAN DEVELOPMENT

FORESTRY

LINEAR DISTURBANCE

TRANSPORTATION CORRIDORS

ABSTRACTS

Authors are invited to submit abstracts of no more than 250 words in either English or French prior to March 1, 1986. Abstracts should be sent to:

DR. W. W. CARR
B.C. CHAPTER - CLRA
P.O. BOX 2092
VANCOUVER, B.C., CANADA
V6B 3T2

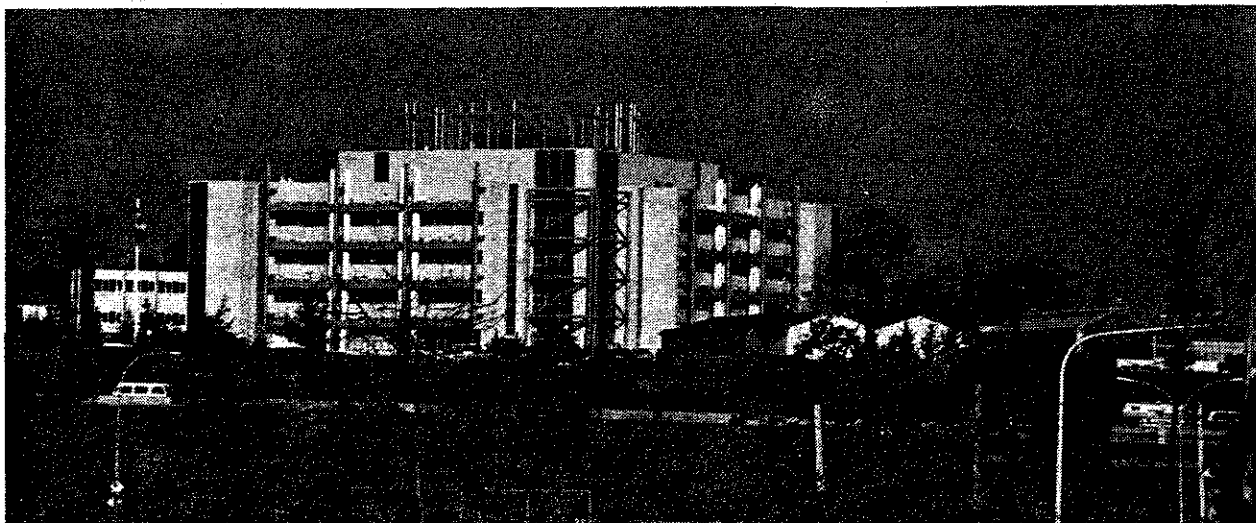
PAPERS

Oral presentations will be twenty minutes in length. Complete papers must be received at the conference if they are to be included in the proceedings.

EXPO 86

Vancouver is the host of EXPO 86, World Exposition on Transportation, from May through September. Transportation to and housing in Vancouver will be under considerable demand. Plans to attend the conference must be made A.S.A.P. Dormitory-style accommodations at U.B.C. will be made available to conference attenders, however RESERVATIONS MUST BE MADE BY APRIL 3, 1986.

Come join us for a day!



PACIFIC FORESTRY CENTRE



We are having an Open House, and you're invited!

Tuesday, February 18:	9-4	school tours
Wednesday, February 19:	9-4	school tours
Thursday, February 20:	10-5	general public
Friday, February 21:	10-9	general public
Saturday, February 22:	10-5	general public
Sunday, February 23:	10-5	general public

The Pacific Forestry Centre is located at:

506 West Burnside Road (a stone's throw from the Tillicum Mall) Victoria, B.C.

- See:
- computerized greenhouses
 - electron microscope — 180,000x magnification!
 - forestry films
 - largest insect collection in Western Canada!
 - displays on forestry research and development
 - computerized forestry games
 - art display of forestry posters

TAKE HOME A FREE TREE SEEDLING



Government
of Canada

Gouvernement
du Canada

Canadian
Forestry
Service

Service
canadien des
forêts