THE CANADIAN BOTANICAL ASSOCIATION

BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA

Volume 4 Number 2 April 1971 Guelph

CBA-ABC Annual Meeting with AIBS

Plans for the Interdisciplinary Meeting in Edmonton, June 20–24, 1971 are progressing well. Details for the Plenary Session and the CBA–ABC/BS of A Banquet are in hand. Hon. Jack Davis, "Minister of Environment" and Dr. J.C. Ritchie will be speaking at the Plenary Session. The banquet speakers will be Lincoln Constance, past president of BS of A, and James Henderson, Alberta Minister of the Environment.

There has been good response to most of the proposed field trips.

For the first time, the CBA–ABC anticipates presenting the Lawson Medal to two awardees, to one for an outstanding single work, and to another for cumulative service to Canadian Botany.

PROGRAMME FOR THE MEETINGS

A comprehensive programme for the Interdisciplinary Meetings is expected to appear in the June issue of BIOSCIENCE. In addition to organized symposia, there are some 170 contributed papers scheduled so there will be many concurrent sessions. Some of these have joint sponsorship by two or more Sections or by a CBA–ABC Section and one or more of the member Societies of AIBS with whom we are meeting.

Portions of the total Programme that are directly relevant to CBA–ABC membership are summarized as follows:

1970–71 Executive Meeting: Sun. June 20, 2–5 p.m. and 7–9 p.m.

1971-72 Executive Meeting: Thurs. June 24, 1:30 p.m.

Plenary Session: Mon. June 21, 9:00 a.m.

CBA–ABC Symposium (Aspects of Northern Botany): Wed. June 23 a.m. and p.m.

Annual General Business Meeting of CBA–ABC: Wed. 4:00 p.m.

Annual Banquet of CBA–ABC with BS of A: Wed. 6:30 p.m.

Ecology Section: Breakfast: Tues. 7:00 a.m.
Symposium (White Spruce): Mon. 2:00 p.m.
Contributed papers (18 papers): Tues. 8:45 a.m., Tues. 1:30 p.m.
Annual Business Meeting: Tues. 4:30 p.m.
Symposium jointly with BIAC of AIBS (Controlled Environment): a.m. (reports) p.m. (tour)

General Section: All sessions of this Section are jointly sponsored with the BS of A (except the Business Meeting.)
Breakfast: Tues. 7:00 a.m.
Annual Business Meeting: Tues. 4:30 p.m. (General Business Meeting for BS of A concurrently: Tues. 4:30 p.m.)

Mycology Section:
Annual Business Meeting: Mon. 4:30 p.m.
Invited speaker jointly with Microbiological and MSA (B.C. Lu): Tues. p.m.
Symposium jointly with BSA Microbiology (Analysis of Development in Fungi): Thurs. 1:30 p.m.

Paleobotany Section:
Annual Business Meeting: Mon. 4:30 p.m.
Contributed papers (8 papers): Wed. p.m.

Phycology Section: All sessions are jointly sponsored with the Phycological Society of America (except the Business Meeting.)
Annual Business Meeting: Mon. following contributed papers.
Contributed papers (66 papers): Mon. p.m.; Tues. a.m., p.m.; Thurs. a.m.
Symposium jointly with PSA (Northern Algae): Tues. p.m.
Social hour and dinner with PSA: Tues. 6:00 p.m.

Systematics and Phytogeography Section:
Annual Business Meeting: Mon. 4:30 p.m.
Contributed Papers (10 papers): Tues. 1:30
Round Table Discussion: Thurs. 1:30 p.m.

Field trip to the Botanic Garden at Devon: Tues. a.m.; Wed. a.m. Paleobotanical field trip to Genesee: Thurs.

Call for Resolutions

All members of CBA-ABC are urged to consider items of importance that should or might be raised as Resolutions at our 1971 Annual Meeting in Edmonton. Please forward any suggestions to Dr. Patricia Roberts-Pichette, Chairman of Resolutions Committee, Department of Biology, University of New Brunswick, Fredericton, N.B.

Biological Council of Canada Annual Meeting

The annual meeting of the governing board of the BCC was held in Ottawa on March 26–27, 1971. Dr. H.M. Dale attended as CBA–ABC representative. The following are some of the 31 Agenda items covered:

The Biological Career Brochure "Why Biology?" prepared by Dr. A.N. Langford and his committee will soon be printed in 10,000 English and 5,000 French copies. Cost to BCC is estimated at $2,370. The Youth Science Council will distribute copies to organizations requesting information.

The Annual National Science Fair will be held in Edmonton this year, and Dr. Wilson Stewart will present prizes to the value of $100 on behalf of BCC with Drs. Paul Gorham and George LaRio acting as judges.

"Bioscience Directory – A National Inventory". This inventory will list all bioscience workers affiliated with a national association or society and will be distributed by BCC within the next two months.

SCITEC. Biology is well represented on the Executive of SCITEC. There will be a change in emphasis this year. Whereas, in 1970 the external relations of SCITEC to the Community were stressed, in 1971 the internal relationship between societies and the structure of SCITEC will be examined. Ten or more individuals may form a local chapter of SCITEC with a rebate of up to $3.00 on a $10.00 individual membership. SCITEC members are permitted a special subscription rate for *Science Forum*. The Executive of SCITEC is anxious to get a coherent response to Volume II of the Lamontagne Report.

Permanent Secretariate. It was agreed that members of BCC should pay for their office services rather than look for Executive members who can supply these facilities gratis. There are Executive mailings, Council and Society Executive mailings (70 persons), Member mailings (5,000), and Publicity mailings which are estimated to cost approximately $5,000. A service contract is being arranged with the Central Office of the Agricultural Institute of Canada in Ottawa to act as a Secretariate for BCC. Member societies of BCC could also have mailings, etc. done from this Central Office after arrangements are finalized.

Dr. John Armstrong is President of BCC for 1971–71 and Dean Michael Shaw is Vice President for this period to become President in 1972–73.

The total budget of BCC for 1972 is $12,800, and there was a unanimous decision for an annual fee of $3.00 for each member.

CBA-ABC NEWS

1970–1971 EXECUTIVE COMMITTEE

President
Janet R. Stein (University of British Columbia)
Vice President
H.R.N. Eydt (University of Waterloo)
Secretary
P.B. Cavers (University of Western Ontario)
Treasurer
W.I. Illman (Carleton University)
Past President
H.M. Dale (University of Guelph)
Directors:
Retire in 1971: I.M. Brodo (National Museum, Ottawa); A. Cardinal (University of Laval); J.S. Rowe (University of Saskatchewan). Retire in 1972: W.B. Kendrick (University of Waterloo); W.B. Schofield (University of British Columbia); Jennifer M. Walker-Shay (University of Manitoba).

SECTION NEWS – –
ACTUALITIES DES DIVISIONS

This column regularly carries news as submitted to the Editor by each Section.

Ecology Section

Past Chairman:
J.S. Rowe, Department of Plant Ecology, University of Saskatchewan, Saskatoon, Saskatchewan.
Secretary:
J.F. Alex, Department of Botany, University of Guelph, Guelph, Ontario.

Our congratulations to Vladimir J. Krajina his forthcoming retirement. The Ecological Reserves being set aside by the B.C. Legislature (see item in this issue) are only some of the tangible results of Vlad's lifelong devotion to making this world a better place, not only for mankind but for all manner of life (plants as well as animals) that inhabit it.

SET THAT ALARM CLOCK MONDAY NIGHT - - so you'll join the rest of the CBA–ABC Ecology Section for BREAKFAST at 7:00 TUESDAY MORNING, June 22. Watch for announcement of locale when you pick up your registration packet in Edmonton.

Don't forget to send in your nominations for two Directors on the Ecology Section executive (with your nominee's approval), and your $1.00 fee for INTECOL.

The Roster of Environmental Specialists, in its preliminary form, is being printed in this issue. Would you please look it over for possible errors or omissions. Any comments, additions or corrections should be brought to the attention of Stan Rowe, or any other member of the Ecology Executive. It has been suggested that we try to get the BCC to officially sponsor this Roster and undertake to print and distribute it through their wider mailings.

General Section

Chairman:
T.A. Steeves, Dept. of Biology, University of Saskatchewan, Saskatoon.
Secretary:
R.I. Greyson, Dept. of Botany, University of Western Ontario, London.

Join us for Breakfast Tuesday morning, June 21, at 7:00 a.m. The Annual Business Meeting will be Wednesday afternoon at the conclusion of the contributed papers session (4:30?).

Mycology Section

Chairman:
Dr. Lorene L. Kennedy, Department of Botany, University of Alberta, Edmonton.

The Annual Business Meeting will be Monday, June 21, at 4:30 p.m.

Paleobotany Section

Chairman:
Mrs. Margaret W. Steeves, Dept. of Geological Science, University of Saskatchewan, Saskatoon.
Secretary:
H.R.N. Eydt, Dept. of Biology, University of Waterloo.

The Annual Business Meeting will be Monday, June 21, at 4:30 p.m. The Paleobotany Section of the B.S. of A. are having a luncheon at noon on Tuesday, June 22.

Physology Section

Chairman:
H.C. Duthie, Department of Biology, University of Waterloo.
Secretary:
L.D. Druehl, Department of Biology, Simon Fraser University, Burnaby 2, B.C.

Annual Business Meeting will be Monday, June 21, at 4:30 p.m.

Systematics and Phytogeography Section

Chairman:
J.B. Phipps, Department of Plant Science, University of Western Ontario, London 72, Ontario.
Secretary:
P. Morisset, Dept. de Biologie, Universite Laval, Quebec 10, P.Q.

Annual Business Meeting on Monday June 21, at 4:30 p.m.

We are grieved to announce the tragic death of Roland Beschel.

R.E. BESCHEL, Dr. Phil.

The Systematics and Phytogeography Section of the Canadian Botanical Association is grieved to announce the tragic death of Roland Beschel, of the Dept. of Biology, Queen's University, January 21, 1971.

Roland Beschel was a member of our section and has served on its Executive Committee as well as on its Automation and Standardization of Herbarium Procedures Committee. Roland called himself by the European term 'geobotanist', in his case very accurately descriptive of his vigorous activities in the discipline linking ecology and systematics. In a published output of some 65 articles, about a third of which were original publications in scientific journals, he manifested great activity in the flora of the Arctic, particularly The Canadian Arctic, the flora of his latest home region - - that of southeastern Ontario, in chronologies derived from lichen growth, in the statistical aspect of his subject, and in the application of electronic data processing and receiving to herbarium work.

He was responsible for the re-invigoration and new development of the Fowler Herbarium which now houses almost 100,000 specimens.

Those colleagues who knew Roland will remember his genial company and hospitality, his wit and the drive with which he pursued his scientific work. Roland was born in Austria and came to Canada via Dalhousie University and moved to Queens in 1959. To those who knew and loved him we extend our sincerest sympathy. – James B. Phipps. March 12, 1971.

MRS. G.E. HAYTHORNTHWAITE 1929–1971

Mrs. Gillian Haythornthwaite, Instructor of Botany, University of Guelph, died January 29, 1971. Mrs. Haythornthwaite majored in Botany at the Ontario Agricultural College and following graduation in 1964 worked in the Department of Botany, primarily in the introductory teaching program. She was a dedicated teacher whose enthusiasm for Botany converted many uninterested freshmen into eager students. Her concern for better teaching methods led her into graduate studies related to the audio-tutorial teaching and learning program. She was well along in these studies at the time of her death.

MRS. CLAIRE WILLIAMS

It is with regret that we announce the death in Peterborough on March 3, 1971 of Mrs. Claire Williams, wife of Harry Williams of Milbrook, Ontario. Mrs. Williams was an active field bryologist and the author of several papers on the distribution of mosses in Ontario. Her important collections of mosses from various parts of Ontario and Newfoundland are preserved in several herbaria. Mrs. Williams was a member of CBA–ABC and of the American Bryological and Lychinological Society.

Roster of Environmental Consultants

Biologists are increasingly concerned about the dangers of environmental deterioration. Many feel that the problems are inadequately understood, the proposed solutions naive. There is great need for professional diagnosis and prescription as a social service by qualified individuals and teams.

It was suggested in 1968 that the Ecology Section of the Canadian Botanical Association – L'Association Botanique du Canada might perform a service by compiling and publishing a list of persons willing to use their skills for the maintenance or improvement of environmental quality. The response to this idea was enthusiastic and it is now possible to provide a roster of biologists able and willing to provide consulting services, either as part of their organizations's program or as individuals.

The list is intended to acquaint the public, including all private and governmental agencies, with experts in various fields and various regions. Contacts can be made either through the CBA–ABC of directly. It is understood that the following persons do not commit themselves except to the extent or a willingness to serve if circumstances permit. It is further understood that service may be contributed where non-profit organizations are concerned or otherwise provided on a fee basis.

The Environmental Consultants in the following list are arranged alphabetically within each province. With each is an indication of his geographical area of work (Tundra, Eastern Boreal forest, Western Boreal forest, Western mountains, St. Lawrence forest, Grassland, or Cultivated) and his primary environmental interest (aquatic or terrestrial).

Alberta

Bird, C.D. Dept. of Biology, University of Calgary, Calgary: Western Boreal forest, Western mountains (terrestrial)

Bliss, L.C. Dept. of Botany, University of Alberta, Edmonton 7: Tundra, Western mountains (terrestrial).

Cordes, L.D. Dept. of Geography, University of Calgary, Calgary: Western mountains (terrestrial).

Friesen, H.A. Research Station, Lacombe: Cultivated (terrestrial).

Johnston, A. Research Station, Lethbridge: Grassland (terrestrial).

LaRoi, G.H. Dept. of Botany, University of Alberta, Edmonton 7: Western Boreal forest, Western mountains (terrestrial).

Ogilvie, R.T. Dept. of Biology, University of Calgary, Calgary 44: Tundra, Western mountains (terrestrial).

Powell, J.M. Canadian Forestry Service, 5320–122 St., Edmonton 70: Western mountains (terrestrial).

Scotter, G.W. Canadian Wildlife Service, Western Regional Headquarters, Room 515 Centennial Bldg., 10015–103rd Ave., Edmonton 15: Tundra, Western Boreal forest, Western mountains, Grassland (terrestrial).

British Columbia

Bakshi, T.S. Dept. of Biology, Notre Dame University, Nelson: Western mountains (terrestrial).

Bell, M.A.M. Biology Dept., University of Victoria, Victoria: Western mountains (terrestrial).

Brayshaw, T.C. Provincial Museum, Victoria: Western mountains (terrestrial).

Brink, V.C. Rm 323–MacMillan, Plant Science Dept., University of British Columbia, Vancouver 8: Tundra, Western mountains (terrestrial).

Krajina, V.J. Dept. of Botany, University of British Columbia, Vancouver 8: Tundra, Western Boreal forest, Western mountains (terrestrial).

McLean A. Box 340, Kamloops: Western mountains (terrestrial).

McMinn, R.G. Canadian Forestry Service, 506 West Burnside Road, Victoria: Western mountains (terrestrial).

Peterson, E.B. c/o Faculty of Law, University of British Columbia, Vancouver 8: Western Boreal forest, Western mountains (terrestrial).

Schofield, W.B. Dept. of Botany, University of British Columbia, Vancouver 8: Western mountains (terrestrial).

Smith, R.B. Forest Research Lab., 506 West Burnside Rd., Victoria: Western mountains (terrestrial).

Stein, J.R. Botany Dept., University of British Columbia, Vancouver 8: Western mountains (aquatic).

Taylor, R.L. Botanical Garden, University of British Columbia, Vancouver 8: Western mountains (terrestrial).

Manitoba

Punter, D. Dept. of Botany, University of Manitoba, Winnipeg 19: Western Boreal forest (terrestrial).

Stewart, J.M. Dept. of Botany, University of Manitoba, Winnipeg 19: Western Boreal forest (aquatic).

Walker–Shay, J.M. Botany Dept., University of Manitoba, Winnipeg 19: Western Boreal forest (aquatic).

New Brunswick

Harries, H. Dept. of Biology, Mount Allison University, Sackville: St. Lawrence forest, Grassland (terrestrial).

Kayll, A.J. Faculty of Forestry, University of New Brunswick, Fredericton: Eastern Boreal forest (terrestrial).

Roberts–Pichette, P. 385 Union St., Fredericton: Eastern Boreal forest (terrestrial and aquatic).

Strang, R.M. Canadian Forestry Service, P.O. Box 4000, Fredericton: St. Lawrence forest (terrestrial).

Taylor, A.R.A. Biology Dept., University of New Brunswick, Fredericton: Eastern Boreal forest (aquatic).

van Groenewoud, H. Forest Research Laboratory, Canadian Forestry Service, P.O. Box 4000, Fredericton: Western Boreal forest, Eastern Boreal forest, St. Lawrence forest (terrestrial).

Newfoundland

South, G.R. Dept. of Biology, Memorial University, St. John's: Eastern Boreal forest (aquatic).

Nova Scotia

Hall, I.V. Research Station, Kentville: Eastern Boreal forest (terrestrial).

Hanic, L.A. Biology Dept., Dalhousie University, Halifax: Eastern Boreal forest (aquatic).

Ontario

Alex, J.F. Botany Dept., University of Guelph, Guelph: Cultivated (terrestrial).

Barclay–Estrup, P. Dept. of Biology, Lakehead University, Thunder Bay: Eastern Boreal forest (terrestrial and aquatic).

Basham, J.T. Forest Research Lab., Box 490, Sault Ste. Marie: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Bayly, I. Dept. of Biology, Carleton University, Ottawa, KIS 5B6: Eastern Boreal forest, St. Lawrence forest (aquatic).

Brodo, I.M. National Museums of Canada, Museum of Natural Sciences, Ottawa 4: Western Boreal forest, Western Mountains (terrestrial).

Cavers, P.B. Dept. of Botany, University of Western Ontario, London 72: Cultivated (terrestrial), St. Lawrence forest (aquatic).

Clements, J.R. Forestry Station, Chalk River: St. Lawrence forest (terrestrial).

Dale, H.M. Dept. of Botany, University of Guelph, Guelph: Cultivated (terrestrial).

Dore, W.G. Plant Research Institute, Dept. of Agriculture, Ottawa, KIA OC6: Eastern Boreal forest, St. Lawrence forest (terrestrial), St. Lawrence forest (aquatic).

Duthie, H.C. Dept. of Biology, University of Waterloo, Waterloo: Tundra, Eastern Boreal forest, Western Boreal forest, Western mountains, St. Lawrence forest, Grassland, Cultivated (aquatic).

Farrar, J.L. Professor of Forestry, University of Toronto, Toronto: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Gordon, A.G. Ontario Dept. of Lands and Forests, Research Branch, c/o Forest Biology Laboratory, P.O. Box No. 490, Sault Ste. Marie: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Hofstra, G. Dept. of Botany, University of Guelph, Guelph: St. Lawrence forest, Cultivated (terrestrial).

Hutchinson, T.C. Botany Dept., University of Toronto, Toronto: St. Lawrence forest (terrestrial and aquatic).

Jeglum, J.K. Canadian Forestry Service, Dept. of Fisheries and Forestry, Box 490, Sault Ste. Marie: Eastern Boreal forest (terrestrial and aquatic).

Kendrick, B. Dept. of Biology, University of Waterloo, Waterloo: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Lambert, J.D.H. Dept. of Biology, Carleton University, Ottawa, KIS 5B6: Tundra, Western Boreal forest, Eastern Boreal forest (terrestrial).

LeBlanc, F. Dept. of Biology, University of Ottawa, Ottawa: St. Lawrence forest (terrestrial).

Lindsay, D.R. Dept. of Biology, Lakehead University, Thunder Bay "P": Western Boreal forest (terrestrial).

Losee, S.T.B. Abitibi Paper Co. Ltd., Sault Ste. Marie: Eastern Boreal forest, St. Lawrence forest (terrestrial).

MacInnes, Kay. L. Dept. of Botany, University of Western Ontario, London: Tundra (terrestrial).

MacLulich, D.A. Waterloo Lutheran University, Waterloo: Eastern Boreal Forest, St. Lawrence forest (terrestrial).

Maini, J.S. Room 4016, 344 Wellington St., West Memorial Bldg., Ottawa: Eastern Boreal forest (terrestrial).

Maycock, P.F. Ecology Laboratory, Erindale College, University of Toronto, 3359 Mississauga Rd., Clarkson: Eastern Boreal forest, St. Lawrence forest (terrestrial).

McAndrews, J.H. Dept. of Geology, Royal Ontario Museum, Toronto: Eastern Boreal forest (aquatic).

Morton, G.K. Dept. of Biology, University of Waterloo, Waterloo: Eastern Boreal forest, St. Lawrence forest (terrestrial and aquatic).

Orloci, L. Dept. of Botany, University of Western Ontario, London 72: Eastern Boreal forest (terrestrial).

Ritchie, J.C. Scarborough College, University of Toronto, West Hill: Tundra (terrestrial).

Roff, W.J. Dept. of Biology, Queen's University, Kingston: St. Lawrence forest (terrestrial and aquatic).

Small, E. Saunders Bldg., Plant Research Institute, Dept. of Agriculture, Central Experimental Farm, Ottawa, KIA OC6: St. Lawrence forest (terrestrial).

Smith, D.W. Dept. of Botany, University of Guelph, Guelph: Eastern Boreal forest, St. Lawrence forest (Terrestrial).

Smith, L.W. Dept. of Botany, University of Guelph, Guelph: Eastern Boreal forest, Cultivated (terrestrial).

Stephenson, G.R. Dept. of Botany, University of Guelph, Guelph: Eastern Boreal forest, Cultivated (terrestrial).

Switzer, C.M. Assoc. Dean, Ontario Agricultural College, University of Guelph, Guelph: Cultivated (terrestrial).

Stiell, W.M. Petawawa Forest Experiment Station, Chalk River: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Terasmae, J. Geology Dept., Brock University, St. Catharines: Tundra, Eastern Boreal forest, St. Lawrence forest (terrestrial and aquatic).

Usik, L. 225 Main St., Milton: Eastern Boreal forest (terrestrial).

Weinberger, P. Faculty of Science and Engineering, Dept. of Biology, University of Ottawa, Ottawa: St. Lawrence forest (terrestrial).

Wilner, J. Plant Research Inst., Central Experimental Farm, Ottawa, KIA OC6: St. Lawrence forest (terrestrial).

Yarranton, G.A. Scarborough College, 1265 Military Trail, West Hill: Eastern Boreal forest (terrestrial).

Yeatman, C.W. Petawawa Forest Expt. Station, Chalk River: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Quebec

Cardinal, A. Departement de Biologie, Faculte des Sciences, Universite Laval, Quebec 10: Tundra (aquatic).

Dion, A. Ministere de l'Agriculture et de la Colonisation, 201 est, boul. Cremazie, Montreal 354: Cultivated (terrestrial).

Gagnon, J.D. Laboratoire de Recherches Forestieres, 1080 route du Vallon, Case Postale 3800, Ste. Foy, Quebec 10: Eastern Boreal forest (terrestrial).

Grandtner, M.M. Faculte de Foresterie, Universite Laval, Quebec 10: St. Lawrence forest (terrestrial).

Jones, A.R.C. Dept. of Woodlot Management, P.O. Box 500, Macdonald College: St. Lawrence forest (terrestrial).

Jurdant, M. Forest Research Laboratory, BP 3800, St. Foy, Quebec 10: Eastern Boreal forest (terrestrial).

Langford, A.N. Dept. of Biological Sciences, Bishop's University, Lennoxville: St. Lawrence forest (terrestrial).

Lavoie, V. Dept. of Crop Science, Faculty of Agriculture, Laval University, Quebec 10: Eastern Boreal forest, St. Lawrence forest (terrestrial).

Morisset, P. Departement de Biologie, Faculte des Sciences, Universite Laval, Quebec 10: Tundra (terrestrial).

Vezina, P.E. Faculte de Foresterie and Geodesie, Universite Laval, Quebec 10: Eastern Boreal forest (terrestrial).

Weetman, G.F. Pulp and Paper Research Institute of Canada, 570 Boul. St. Jean, Pointe Claire 720: Eastern Boreal forest (terrestrial).

Saskatchewan

Coupland, R.T. Head, Department of Plant Ecology, University of Saskatchewan, Saskatoon: Grassland (terrestrial).

Dirschl, H.J. Canadian Wildlife Service, Prairie Migratory Bird Research Centre, Mobile 1, University of Saskatchewan Campus, Saskatoon: Western Boreal forest (aquatic).

Looman, J. Research Station, Box 1030, Swift Current: Grassland (terrestrial).

Rowe, J.S. Dept. of Plant Ecology, University of Saskatchewan, Saskatoon: Tundra, Western Boreal forest (terrestrial).

Sheard, J.W. Dept. of Biology, University of Saskatchewan, Saskatoon: Western Boreal forest (terrestrial).

Recommended Materials for Dynamic Plant Studies

In the hope that some of my colleagues in teaching various aspects of the physiology, ecology and morphology of plants might enjoy some of my gleanings over two decades, I should like to present this brief annotated list of resource materials each of which has proved exciting, usefully illustrative or unusual.

1. *Gynura aurantiaca* (Asteraceae) – purple leaf hairs best for illustration of cyclosis and plasmolysis; easily mounted even by a novice; vacuole staining intensifies as plasmolysis proceeds; Velvet tree needs good light for full rich purple effect.

2. *Pellionia sp.* (Urticaceae) – a gracious pot plant; pendant; accumulates starch in the chloroplasts of the (green) stem; plastid thus self-staining, providing striking microscopic demonstration.

3. *Dieffenbachia amoena* (Araceae) – canoe-shaped cells in the mesophyll actively deposit needle crystals of calcium oxalate; these actively ejaculated in succession when tissue slices containing dislodged cells mounted in water; excellent 16-mm. film illustrating crystal expulsion made by Biographic Unit, Research Branch, Canada Agriculture, C.E.F., Ottawa 3, Dr. W.G. Dore consultant; chemical warfare officers examining aroids for alkaloids to explain numbing effects frustrated; effect apparently by physical exhaustion of hyper-stimulated sensors and mechanical irritation of tissues; imagine thousands of blow-darts lodged in tongue, cheek (and larynx?)!
   Caution household children and kittens!

4. *Psychotria bacteriophylla* (Rubiaceae) – random leaf nodules harbour *Mycobacterium rubiacearum,* said to fix atmospheric nitrogen for tropical members of the family as root nodules do for legumes.

5. *Gladiolus* – delay digging of some corms of glads and be rewarded by contractile roots on the new corm having functioned and become externally wrinkled;*Crocus* shows same; certain species of *Botrychium* best show microscopically the spiral flexing of the tensile stele tissues that shortens root length.

6. *Podocarpus macrophylla* – derived transfusion elements run from single mid-vein to edge of broad leaf; *P. totara* with modest needle-leaf like a Fir is intermediate between *P.m.* and *P. nagi,* a Japanese primitive species with dichotomizing venation similar to Kauri pine (*Agathis,* of Araucariaceae); even young cuttings produce strobili in spring.

7. *Sequoia sempervirens* (Taxodiaceae) – grows readily from softwood cuttings; pollen cones with unwinged pollen on young tree.

8. *Ginkgo biloba* (Ginkgoaceae) – may be grown from seed (in season) obtained from your local Chinese food store; latter a good source for ginger rhizome to start a pot of ginger for the greenhouse!

9. *Zamia latifolia* (Cycadaceae) – a dependable thriving species for glasshouse culture which has cones on both male and female plants the year round; leaf production continuous so circinate young fronds most always present; the best cycad for class use; size modest.

10. *Pereskia aculeata* (Cactaceae) – primitive woody scrambler with persistent, leathery net-veined leaves; simple arioles without glochidia.

11. *Cactus* graft-hybrid "Red-cap" – the parasitic barrel cactus deficient in chlorophyll but flushed with bright betacyanin pigment exerts apical control over the food-producing green stock species; a physiologically interesting artifact of horticultural manipulation (available from Ben Veldthuis, Dundas, Ontario). Cactus grafting is easy to carry out; almost any genus in the family may be grafted to any other – *Schlumbergera* "Christmas cactus" produces a compact mop-head on a columnar *Cereus* as standard.

12. *Rhipsalis spp.* (Cactaceae) – good hanging-basket subject to illustrate epiphytic habit of these hygrophilic cacti; the one genus vectored by East India traders to Spice Islands and Ceylon from the New World; earlier thought by botanists to be native there.

13. Cactoid succulent habit simulated by: *Cissus cactiformis* (Vitaceae) – shows atrophy and abscission of unused tendrils vs. strengthening and contraction of those finding support! *Senecio stapeliaformis* (Asteraceae). *Stapelia & Tacazzia* (Asclepiadaceae). *Euphorbia hermentiana* (Euphorbiaceae).

14. Succulent leaves simulating *Sedum* or other Crassulaceae shown by: *Senecio jacobsenii, S. repens, S. radicans* (Asteraceae); *Euphorbia spp.* (Euphorbiaceae); *Conophytum spp.* and *Lithops spp.* (Aizoaceae) "Living stones", *Carpobrotus edulis* (Aizoaceae) – "Hottentot fig," *Tetragonia* and *Mesembrianthemum* (Aizoaceae); *Portulaca sp.* (Portulacaeae); *Agave spp. Gasteria spp. Haworthia planifolia Scilla sp. Yucca spp.* (Liliaceae); *Sansevieria cylindrica* (Liliaceae) also produces succulent leaves, almost simulating stem form; *Cyanotis sp.* (Commelinaceae) "the dog".

Colleagues wishing any of the above materials, not readily available in the trade, for collections of living plants for teaching may contact:

W.I. Illman
ELBA, Carleton University
Ottawa 1, Ontario

Ecological Reserves

The following is an exerpt from an address by Hon. R.G. Williston, Minister of Lands, Forests and Water Resources during the Throne Debate in the British Columbia Legislative Assembly on January 27, 1971:

"For the past four years the British Columbia Ecological Reserve Committee which comprises scientific representatives from our universities, Government Resource Departments and other interested people has been carrying out field studies for the purpose of selecting crown lands for ecological reserves. One of the reasons for establishing these reserves is to provide workshop areas for scientific research and educational purposes associated with our environment. In addition the reserves also serve to set aside examples of natural ecosystems within the province and preserve rare or endangered plants and animals in their native habitat. These reserves are not necessarily intended to provide recreation sites but are specific for the purposes which I have just mentioned.

To date my department has set aside twenty-six ecological reserves on its records covering a wide variety of locations throughout the province. A further fourteen that have been suggested by the Committee are in the process of being checked by the Environmental and Land Use Committee with respect to legal status and other matters and will be adjudicated in the near future.

The British Columbia Ecological Reserve Committee has indicated that it will probably require another five years to complete the program of field work at which time it is anticipated that over one hundred ecological reserves will have been created.

Later on during the Session a Bill will be presented to you for consideration covering this very important matter concerning the establishment of these reserves on a more permanent basis to ensure their preservation for use by generations yet unborn."

XVII General Assembly I.U.B.S.

The Canadian National Committee for the International Union of Biological Sciences circulated an account of the XVII Assembly of I.U.B.S. held in Washington, D.C., October 4–9, 1970, and attended by Drs. C. Quadling, B. Cumming and H.E. Welch as official Canadian delegates. This account was prepared for the information of Canadian Biologists and is being distributed through the member societies of the Biological Council of Canada. The following was extracted from their account:

Over 100 biologists representing 22 countries and 34 biological organizations attended the General Assembly.

Organized originally in 1919, I.U.B.S. has a six-fold purpose: to promote the study of the biological sciences in the widest sense of the word; to initiate, facilitate and co-ordinate research and other scientific activities that demand international co-operation; to ensure discussion and dissemination of the results and to assist the publication of their reports; to promote the co-ordination and dissemination of biological knowledge; and to provide an international organization embodying the unity of biological science.

The Union was formerly composed of four divisions, Botany, General Biology, Microbiology and Zoology, each consisting of a number of sections, commissions and working groups. These are represented by many international biological organizations some of which had been established prior to I.U.B.S. and others established through its aegis.

Fiscal and organizational affairs of the Union are handled daily by the Executive, reviewed annually by the Executive Council, and ratified triennually by the General Assembly. This latter body includes delegates from the functional components of the Union, and from the 40 National adhering bodies (the National Research Council is the Canadian adhering body). Fiscal contributions are made by the national bodies and international organizations.

The Secretary-General, Dr. F. Stafleu, gave a review of I.U.B.S. activities over the last three years. He surveyed I.U.B.S. structure, pointing out the lack of coherence in the Division of Biology, and the need for changes in the Sections and commissions. He also reviewed the permanent services such as the Trusts for Botanical, Microbiological and Zoological Nomenclature, the Naples Zoological Station, and the work of the Executive Committee. A review of finances disclosed that the previously adopted policy of voluntarily increased fees, and the principle of Congress loans, were now fully operational. The principal activities involved sponsorship and support of 23 International Congresses and 40 International Symposia. Other areas of active support involved I.B.P., S.C.O.P.E. (Special Committee on Problems of the Environment). I.U.B.S. assumed a stronger role in I.C.S.U. (International Congress of Scientific Unions) and joined with other biological unions to press for more emphasis on biological programmes.

Legislative action of the Plenary Session included several noteworthy decisions. The major change was the dissolution of the Division of General Biology and the establishment of two new divisions: Division of Functional and Analytical Biology, and Division of Environmental Science. Considerable debate centred on the name of the latter.

I.U.B.S. approved of the decision of I.C.S.U. (Madrid, 1970) to continue the various I.B.P. programmes to July, 1974. The Section on Ecology based on INTECOL (Dr. A.D. Hasler, Wisconsin, U.S.A.) was authorized to act as the liaison agent for I.U.B.S. in its work with such non-government programmes as S.C.O.P.E. of I.C.S.U., and with the inter-governmental programme of Man and Biosphere (MAB) of UNESCO.

Resolutions on the non-political nature of scientific meetings and free circulation of scientists, as well as the resolution sponsored by the Division of Microbiology banning biological warfare were passed rapidly. Other resolutions concerning the need for national policies on population, pollution, prohibition of insecticides, and prevention of phosphate eutrophication were more contentious, and some were tabled for further study.

Additional items of business included authorization for the establishment of a permanent secretariat and publication of a Newsletter. Various measures were taken to increase the income of I.U.B.S. and to promote more financial support for meetings. An invitation was accepted from Yugoslavia for the XVIII Assembly in Hercegnovi in 1973.

Dr. Donald S. Farner (U.S.A.) was re-elected President, Dr. Ivan Malek (Czechoslovakia) and Dr. F. Stafleu (Netherlands) as Vice Presidents, and Dr. K. Faegri (Norway) as Secretary-General. The executive council included B. Zolyomi (Hungary) and J. Guern (France) in Botany; M. Gelharov (U.S.S.R.) and M. Gersh (D.D.R.) in Zoology; N.E. Gibbons (Canada) and G. Terui (Japan) in Microbiology; A. Mouray (Italy) and H. Chantreme (Belgium) in Functional and Analytical Biology; and L.C. Birch (Australia) and F. di Castri (Chile) in Environmental Sciences.

Canadians other than the official delegates participating in the Assembly included Dr. Norman E. Gibbons (N.R.C.) member of the Executive Council and representative of the Division of Microbiology, Dr. K.C. Bora, (A.E.C.) member of the Executive Council and representative of the Division of Botany, and Dr. J.W. Boyes (McGill) representative of the Section on Genetics.

NEW EDITOR FOR BULLETIN

The CBA-ABC Executive expects to be able to announce at its Annual Meeting, a new Editor for the BULLETIN to take up responsibilities from that date. In the meantime correspondence and copy for the July issue may still be addressed to the present Editor in Guelph.

Biological Council of Canada

The BCC is moving ahead on the publication of the Careers Brochure in Biology. CBA-ABC was instrumental in starting this project and it has continued under the chairmanship of Dr. A.N. Langford of Bishop's University. The brochure is being printed by a firm in Montreal. Distribution is expected before the Annual Meeting of BCC in March. The Youth Science Foundation will be asked to be the primary distributing agent for the brochure, but BCC will also distribute copies, not only to the members of the Council but also to the various executive members of the adhering societies of BCC. More on the Careers Brochure will be made known at the Annual Meeting of the BCC in March.

The BCC would like to bring to your attention that the proposals for tax reform produced by the Benson White Paper are of considerable interest to scientists. Under Chapter 2 'The Individual and Family in Tax Reform', the section on employment expenses should be of considerable interest to people with respect to expenses incurred by employees for travel to conferences. The other section under Chapter 2 is concerned with the additional elements of income to be subject to tax and are also of interest to the Scientific fraternity as it includes proposals regarding the taxation of fellowships, scholarships, bursaries and research grants. The relevant sections of this Tax Reform are reproduced below for your information.

Dr. John Armstrong, Vice-President of BCC, has indicated that the most effective action at this time is to have individual letters from members of the scientific community commenting on these proposals forwarded to the Senate Standing Committee on Banking, Trade & Commerce, and also to the Commons Standing Committee on Finance, Trade & Economic Affairs. The members of these two committees are listed below. In addition, Dr. Armstrong strongly advocates that the best possible way in which to influence the Government at this stage, would be to write to your own individual members of Parliament. We hope that you will take individual action on this matter.

Exerpts from: PROPOSALS FOR TAX REFORM E.J. Benson, Minister of Finance, 1969.

CHAPTER 2: The Individual and Family in Tax Reform

Employment Expenses

2.10 The tax law permits those in business and the professions, in determining their income for tax purposes, to deduct any expense normally taken into account in determining the profit of a business, with certain specific exceptions. But the law does not permit a deduction for expenses incurred by an employee in earning wages or a salary except a few items such as union dues and travel costs incurred by a person who must travel as he performs his work. This contrast in the law has been a long-standing grievance on the part of working men. It was seriously criticized by the royal commission as unfair to employees. The commission recommended that expenses be deductible from wages or salaries just as they are from business income if "reasonably related to the earning of income." Recognizing however, that huge numbers of employees are subject to tax and that few keep books or records to prove their expenses, the commission concluded that some means must be found to make compliance feasible for the taxpayer and administration feasible for the revenue department. They proposed offering an option to employees permitting them to claim, in place of detailed expenses, an allowance equal to 3 per cent of their gross employment income, up to a specified maximum.

2.11 The government has considered this issue at length. It proposes two sets of measures to remedy the disparity. First, in regard to those in business and the professions, and to certain types of benefits granted by employers to senior employees, it intends to set more rigorous limits to check "expense account living." The costs of attending conventions and belonging to clubs would no longer be permitted as a charge in determining business income. The costs of yachts, hunting and fishing lodges or camps, amounts spent for tickets for games and performances, and costs of entertainment would also be excluded. Owners or employees of a business having a car or aircraft available to them for their personal use, including travel to and from home, would have to pay the business a minimum stand-by charge, or have a corresponding amount added to their personal income for tax purposes.

2.12 As its second measure, the government proposes to make more provision in the law for the expenses legitimately incurred in earning wages or salaries. However, it had reached the conclusion that claims for expenses on the broad basis suggested by the commission would either impose record-keeping on millions of employees or deny them the ability to submit acceptable claims. It would also produce an impossible processing task in tax administration with inevitable long delays in making refunds. Consequently the government proposes that general limits be retained on expenses that can be deducted from employment income but that a general deduction be provided and somewhat greater recognition given to special situations where employees have to live for a period of time at a work site away from home.

Additional Elements of Income to be Subject to Tax

2.24 Until now most fellowships, scholarships, bursaries and research grants not related to services have been treated as exempt from tax. There seems no valid reason for continuing such exemption. Post-Graduate students and research workers are, in effect, professional workers and should pay tax as others, after allowances for tuition fees and for research expenses properly deductible from research grants. Payments to undergraduates normally fall well within the personal exemptions, after deducting tuition fees. Where they exceed exemptions or where the student has other income, he should pay tax just as other Canadians do.

THE BENSON WHITE PAPER AND "COSTS OF ATTENDING CONVENTIONS"

Dr. John Armstrong recently circulated the following information with the hope that it be distributed to the individual members of the Member Societies of BCC.

The following exerpts come from the Benson White Paper on Tax Reform:

2.13 "It is proposed that the general deduction allowed for expenses incurred in earning employment income be 3% of gross employment income up to a maximum of $150 per year."

This item as it affects BCC members is considered more succinctly in Paragraph 5.9;

5.9 "It is proposed that the Income Tax Act specifically deny...the costs of attending...conventions... This provision...would insure the taxpayers who wish to make such expenditures would do so out of after-tax dollars."

5.54 "The present law contains a provision (Section 62 (1) (i)) that exempts from income tax social, recreational and service clubs, societies and associations which operate on a non-profit basis. (This provision does not cover registered charities which are exempted under other paragraphs.) The government does not propose to change the exempt status of the basic functions of these organizations, but when they accumulate investment portfolios, it believes that the investment income therefrom should bear income tax. Therefore it is proposed that the investment income of organizations which are covered by Section 62 (1) (i) be subjected to the corporation tax."

The Senate Standing Committee and the Commons Standing Committee, in reviewing the Benson White Paper last Autumn, approved Paragraphs 2.10 to 2.13 but treated convention expenses under 5.9. The Senate Committee rejected Paragraph 5.9 whereas the Commons

Committee felt that the expenses of attending conventions should be continued (up to 2 a year, as at present) as a deductable expense but a "specific disallowance should be made when a convention is held outside the territorial limits of the sponsoring organization".

The Senate Committee rejected the taxation of fellowships, scholarships and bursaries whereas the Commons Committee recommended an additional $500 exemption beyond the total personal exemption for which each taxpayer is eligible. On the taxation of investment income of clubs, the Commons Committee recommended "that this proposal be dropped for the time being", whereas the Senate Committee concurred with the tax "but only above $5,000 of net income in each year." Both Committees wished to have this section of the Income Tax Act (62 (1) (i)) clarified, with some organizations being considered as charitable in the future.

The new Tax Reform Bill is expected to be introduced with the budget in the latter part of April. Mr. M.J. O'Keefe, Special Assistant to Finance Minister Benson, has said "There is an assumption that the persons responsible for producing the White Paper intend to ignore public opinion. This is not true".

Since the Senate and Commons Standing Committees have reported, it may be less effective to direct comments to them. *You are urged to write to:*

1. The Honourable Edgar J. Benson
2. your favourite Cabinet Minister
3. your own Member, or
4. all three of them

on your own letterhead, giving your own assessment of these matters.

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5th Annual Pubs at Regina, Saskatchewan

Graduate students on the Regina Campus of the University of Saskatchewan were hosts to the 5th Annual Prairie University Biological Seminar (PUBS) on February 19th and 20th, 1971. Over 70 graduate students and 10 staff attended and represented the Department of Zoology, University of Alberta; Departments of Botany, Entomology and Zoology, University of Manitoba; Department of Biology, University of North Dakota (Grand Forks); and the Departments of Biology, Regina and Saskatoon Campuses of the University of Saskatchewan.

This year PUBS was the largest and most widely representative of the five PUBS held to date. The first and original was held at the University of Manitoba in 1966 and included graduate students from Regina and Saskatoon. Since then meetings have been held at Regina, Saskatoon and Winnipeg.

The purpose of the meeting is to provide opportunities for presentation of findings and for discussion of topics of mutual interest among graduate students. Graduate students arranged the scientific and social programme. Each host university may decide the format and nature of the meeting, but usually meetings consist of sessions of submitted papers and of social activities.

This year's scientific programme consisted of 36 papers given in nine sessions. Papers were of 10 minutes duration and a lively series of questions filled the remaining five minutes. Each session covered several subjects and participation was high throughout the programme. Topics included parasite distribution, fish physiology, mammalian ecology, plant phylogeny and anatomy, mosquito biology, plant and animal ecology, host-parasite relations, environmental physiology including barometric pressure, animal behaviour, nematode sex-attractants.

Two events, a visit to Carlings Brewery and a dinner and entertainment completed the conference activities. The business of the seminar involved the acceptance of the invitation of the Department of Zoology, University of Alberta to host PUBS for 1972.

All participants praised the arrangements of the local committee under the chairmanship of Miss G. Wigley, Department of Biology, Regina.

Text-Atlas on Floral Development

Dr. Rolf Sattler, Associate Professor of Biology, McGill University, Montreal, reports that he has completed a text-atlas entitled "Organogenesis of Flowers" which will be published by the University of Toronto Press in 1971 or 72. This book will be the first book of its kind in the 20th century, the first photographic text-atlas on floral development in the history of botany and biology, and the first book presenting three-dimensional views of floral development by a technique that has been developed by the author. The book is important as a reference source, since it provides a great amount of new data. It is significant as the first comprehensive treatment of this subject, and its results are basic to many disciplines such as comparative and experimental morphology, physiology, taxonomy, phylogeny and applied plant science.

International Organization for Biological Control (IOBC)

Increasing concern about environmental quality has focused attention on pesticide use and on the relationship between these chemicals and environmental health. This concern will inevitably initiate and accellerate the revision of current approaches to pest management, and in particular, a reappraisal of the role of natural enemies of pests, parasites, predators and pathogens. Effective use of such agents requires knowledge of their biology, information regarding the location of cultures, and international co-operation and exchange of information among scientists. In November 1969 the International Union of Biological Sciences convened a meeting in Amsterdam to finalize plans for a new world organization for biological control of noxious animals and plants. The term "biological control" in this organization means the use of living organisms to prevent or reduce the losses or harm caused by pests.

The aims of this global body will be to promote the development of biological control; to collect, evaluate and disseminate information about biological control; to promote national and international action concerning research, the training of personnel, the co-ordination of large scale application and the encouragement of public awareness of the economic and social importance of biological control; and to arrange conferences and to take any other action to implement the general objectives of the organization. Details about this new organization and applications for membership may be obtained by writing to the Chairman of the Adhoc Committee of the Western Hemisphere Regional Section, Dr. B.S. Corbet, Director, Research Institute, P.O. Box 367, 228 Dundas St. East, Belleville, Ontario, Canada.

Coming Meetings

GENETICS SOCIETY OF CANADA

Annual Meeting June 9–11, 1971 at Laval University, Quebec City, P.Q., Canada.

The formal part of the meeting consists of two symposia as well as contributed papers. The symposia will be: one on Meiosis led by Drs. J. Heslop Harrison, University of Wisconsin, Peter Moens, York University and J. Herbert Taylor, Florida State University, and the other on Genetics and Development led by Drs. Paul R. Gross, M.I.T., F. Clarke Fraser, McGill University and Charles A. Thomas, Harvard University.

The contributed papers to be given by members and non-members will be limited to ten minutes each followed by a suitable period for discussion. Abstracts will be published in the *Canadian Journal of Genetics and Cytology*.

The invitational Lecturer is Dr. Harry Harris, Galton Laboratory, University College, London.

For an invitation or further information please contact: La Secretaire, Congres de Genetique, Station de Recherches, 2560, Chemin Gomin, Quebec 10, P.Q., Phone: 418–694–4157

INTERNATIONAL SYMPOSIUM ON IDENTIFICATION AND MEASUREMENT OF ENVIRONMENTAL POLLUTANTS

Ottawa, June 14–17, 1971. (See CBA–ABC BULLETIN, 3 (4): 17, October 1970 for earlier announcement). Address communications to M.K. Ward, Executive Secretary, ISIMEP, c/o National Research Council of Canada, Ottawa 7, Ontario.

PACIFIC SCIENCE ASSOCIATION PRE–CONGRESS CONFERENCE

Indonesia, August 12–17, 1971.

"Planned Utilization of the Lowland Tropical Forests" is the title of a 3–day symposium convened by V.J. Krajina to run August 12–14, at Tjipajung, Bogor, Java, Indonesia. Symposia series topics include Inventory (Stocktaking) of Plants; The Lowland Tropical Forest Biogeoclimatic and Biogeocoenotic Ecosystems; Natural Products of the Lowland Tropical Forests; Planned Use of the Lowland Tropical Forests on a Multiple Purpose Basis (Inclusion of Conservation); and Education and Communication of Information Concerning the Lowland Tropical Forests.

Following the 3 days of symposia there will be tours to Krakatau – Udjong Kulon and to Bali.

For details contact the convener, Dr. V.J. Krajina, Chairman, Sub-Committee on Ecology (Pacific Science Association), Department of Botany, University of British Columbia, Vancouver, B.C.

SECOND NATIONAL BIOLOGICAL CONGRESS MAN AND ENVIRONMENT II

Miami Beach, Florida, 23–26 October 1971, sponsored by AIBS. This is the second in a series of Congresses aimed at better public understanding of environmental problems and the efforts of scientists, particularly biologists, to resolve them. There will be several symposia each morning and individual or joint programs by some 14 biological societies in the afternoon.

Morning symposia titles include: *October 23* – Ecological Engineering. Problems of Developing the New World. Ecology & the Planning of Future Cities. Agriculture in an Urban Society. Scientific Aspects of Human Population Control. *October 24* – Radiation: Its Control and Future Dangers. Primary Productivity. Our Mobile Earth. World Trends in Epidemic Disease. World Trends in Our Environment. *October 25* – Problems of Sewage. Weather Modification: Ecological Opportunities & Environmental Problems. Strategy of Approaching World Food Problems. Past, Present and Future of the Everglades. The new Knowledge of Auto-Immunity.

Titles for afternoon programs include: New Horticultural Material for Cities. Teaching of Evolution. Ecology of Oil Spills. Current Major Programs in Plant and Animal Pests. Influence of Viruses, Nutrition & Drugs on Human Development.

For additional information, please contact Ann Barker, National Biological Congress, 2900 Wisconsin Ave., N.W., Washington D.C. 20016 (Phone 202/244–5581).

First International Congress of Systematic and Evolutionary Biology

Boulder, Colorado, August 1973.

The Society of Systematic Zoology and the International Association for Plant Taxonomy have joined forces in sponsoring a major mid-term Congress of a botanical/zoological interaction at the international level. Thus, the First International Congress of Systematic and Evolutionary Biology will be held at the University of Colorado, Boulder, Colorado, U.S.A. August 4–11, 1973.

The International Association for Plant Taxonomy and the Society for Systematic Zoology are the sponsoring organizations. (See TAXON, Dec. 1970.) They have appointed two committees, a Steering Committee and an International Advisory Committee. The latter is recognized by the International Union of Biological Sciences as the special working group responsible for this event. Thirteen countries are represented on the International Committee but Canada is not included in either one.

Program plans currently encompass interdisciplinary symposia and contributed papers sessions. Suggestions will be gratefully received, carefully considered, and as many adopted as practical or feasible. Correspondence may be addressed to the secretary, James L. Reveal, Department of Botany, University of Maryland, College Park, Md. 20742, U.S.A.

Jacques Rousseau Passes

WAS FIRST RECIPIENT OF LAWSON MEDAL

In a beautifully appropriate memoriam to Jacques Rousseau who passed away August 4, 1970, Askell Love (TAXON 20 (1) 153–156, Feb. 1971) mentioned that this great Canadian Botanist had been the first to be awarded the George Lawson Medal of the CBA–ABC. (Dr. Love was himself closely involved because he was invited to make the presentation to Dr. Rousseau at the CBA–ABC Annual Dinner at the International Botanical Congress in Seattle in 1969). Dr. Love went on to write of Dr. Rousseau and the Lawson Medal: ... "It is my feeling that this last distinction was more appreciated than all the others together, since it clearly demonstrated that the younger generation of Canadian Botanists recognized his immense influence on the creation, during the past few decades, of the facilities they now enjoy."

PERSONALIA

Vladimir J. Krajina retires in June as Professor of Botany at the University of British Columbia. He will remain affiliated with the Department continuing his work on the phytogeographic zones of British Columbia, the Arctic and Hawaii. He is Convener of a pre-congress Symposium scheduled by the Pacific Science Association. Vlad has also been very active in securing Ecological Reserves in British Columbia. In fact he has 'spearheaded' the whole activity. At the last session of the B.C. Legislature the government passed the "Ecological Reserves Act". At present there are 26 Reserves set aside and more in process.

Job Kuijt presented the CBA/ABC brief to the National Parks Hearing on Banff, Jasper, Kootenay and Yoho Parks. He chaired the committee and V.J. Krajina helped.

Dr. Fabius LeBlanc, Professor, Biology Department Ottawa University, is being honored by the Societe Botanique de France. They are awarding Dr. LeBlanc the highest of their awards, namely, the "Prix de Conseil" in recognition of his contributions to research in the field of the ecology of bryophytes and lichens. The presentation will be awarded to him in Paris, France on April 30th, 1971.

William Murison who received his B.S. Forestry in 1951 at U.B.C. and his Ph.D. in Botany from U.B.C. will become Principal of Selkirk College, Castlegar, in July. Presently he is Dean of Public Services at Humboldt State College, Arcata, California.

Robert F. Scagel is the new Head of the Department of Botany, University of British Columbia – effective (technically) on July 1, but in practice, April 1. Former Head, **G.H.N. Towers** who is on study leave at the University of East Anglia, England, will return and continue as Professor. Scagel was formerly Associate Dean of Science as well as Professor of Botany.

Jim Shaw, now on staff at the Ridgetown College of Agricultural Technology, recently completed the M.Sc. degree in the Department of Botany, University of Guelph.

Dr. V. Singh, from the Department of Botany at Meerut College in India, joined Rolf Sattler in the Biology Department of McGill University last January to work with him as a Research Associate for one year. He is investigating the floral development of *Alisma triviale* and related genera.

Dr. C.M. Switzer, formerly Chairman of the Department of Botany, University of Guelph, became Associate Dean of the Ontario Agricultural College and **Dr. B.H. MacNeill** was named Acting Chairman as of January 1, 1971.

Dr. Olga Sz.-Borsos, Professor of Botany of Eotvos Lorand University, Budapest, will spend four months, starting in June, at the Genetics Laboratory, Macdonald Campus of McGill University, under the auspices of the Hungarian Academy of Sciences. She will be collaborating with **Dr. William F. Grant** in a cytophotometric and chromatographic study.

DATE – LIMITE DU BULLETIN PROCHAIN:
LE 15 JUILLET

CBA–ABC BULLETIN is published quarterly in January, April, July and October by the Canadian Botanical Association – L'Association Botanique du Canada. It is mailed free to all members and by special arrangement to Libraries and other interested organizations. Membership fees in the CBA–ABC are $6.00 regular, or $2.00 student, and should be sent with the completed application form to Prof. W.I. Illman, Treasurer, Canadian Botanical Association, ELBA, Carleton University, Ottawa 1, Ontario. All correspondence for the BULLETIN should be directed to J.F. Alex, Editor CBA–ABC BULLETIN, Department of Botany, University of Guelph, Guelph, Ontario, Canada.

Next Deadline: July 15

Presidents are Phycologists: The Present Presidents of the Botanical Society of America and of the CBA–ABC are both Phycologists. In fact **Janet Stein** spent 8½ months at Indiana University doing pre-doctoral research with **Richard Starr**.

CBA–ABC ABSTRACTS

The CBA–ABC is embarking on a new venture–the distribution of abstracts by mail before the Annual Meeting. All available abstracts of Contributed and Symposium papers to be presented by CBA–ABC members and other Canadian Botanists at the Edmonton Meetings are being assembled for private distribution to the CBA–ABC membership only. It is expected they will be mailed with this issue of the BULLETIN. They will not be available at Edmonton.

Persons wishing to obtain the complete set of abstracts of all papers to be presented at the Inderdisciplinary Meetings will be able to buy them from the Botanical Society of America at Edmonton.

The CBA–ABC Executive, whose decision this has been, would like an expression of opinion from the membership. Does this advance distribution of abstracts serve a useful function? How could it be improved? Does its usefulness warrant the cost in time, effort and expense? The dollar cost will be announced at the Annual Business Meeting, Wednesday, June 23 at 4:00 p.m. Come and have your say on this and other matters.

Stop Press

EDMONTON PROGRAMME FOR ECOLOGY SECTION

The Ecology Section Symposium, "White Spruce, The Ecology of a Northern Resource", may have to be rescheduled due to an external conflict affecting some of the invited speakers. The official opening of the Forest Research Laboratory at Edmonton has just been set for Monday afternoon, June 21, 1971, the same time as the Symposium, and two of the Symposium speakers should attend that opening.

One possible solution is to transpose the White Spruce Symposium from its present slot of Monday afternoon, June 21 with the Ecology Section Contributed Papers Session of Tuesday afternoon, June 22. On the other hand, programme adjustments in both the White Spruce Symposium and the Official Opening may successfully accommodate both activities in the same afternoon as presently scheduled.

Watch for announcements when you register at Edmonton whether the Ecology Section programmes will continue as presently scheduled or will be rescheduled because of this conflict.