THE CANADIAN BOTANICAL ASSOCIATION

BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA

Volume 4 Number 1 January 1971 Guelph

CBA-ABC/AIBS INTERDISCIPLINARY MEETINGS

Edmonton, 20 - 24 June, 1971

The CBA-ABC is host to eight AIBS Societies at the University of Alberta this year. It will be the Annual Meetings of: American Bryological and Lichenological Society, American Fern Society, American Society of Plant Taxonomists, Botanical Society of America, Canadian Phytopathological Society, Mycological Society of America, Phycological Society of America, Torrey Botanical Club and our CBA-ABC. The programme is full, varied, timely, and has something of interest for nearly everyone.

Theme: "Our Northern Plants: Their Importance In The World's Resources"

The general theme throughout these Interdisciplinary Meetings will be "Our North Plants: Their Importance in the World's Resources". For our guests from the USA as well as for ourselves, this theme will be emphasized by several field trips, symposia and contributed papers sessions. The CBA-ABC and the Botanical Society of America are coordinating their programmes while the individual sections of CBA-ABC are coordinating theirs with some of the other Societies of AIBS.

Hon. Jack Davis To Speak

Hon. Jack Davis, Minister of Fisheries and Forestry, has kindly consented to address the Plenary Session on Monday morning, June 21. Dr. Jim Ritchie from Dalhousie University will be the second speaker.

CBA-ABC Symposium: "Aspects of Northern Botany"

Dr. D.B.O. Savile of the Plant Research Institute, Ottawa, has organized a general symposium for CBA-ABC with the title "Aspects of Northern Botany". It will begin at 9:00 a.m. on Wednesday, June 23. The eight speakers and their topics are:

Dr. L.C. Bliss: Tundra manipulation studies.

Dr. Peter Kevan: Insect pollination of high-arctic flowers.

Dr. R.K.S. Lee: Arctic benthic algae.

Mrs. Kay L. MacInnes: Ecology of five arctic *Pedicularis*

Dr. David Murray: Floristics and phytogeography of the St. Elias Range.

Dr. W.B. Schofield: Floristics and phytogeography of northern mosses.

Dr. D.B.O. Savile: Arctic adaptations in fungi.

Dr. J.W. Thomson: Distribution patterns in arctic lichens.

CBA-ABC Annual Banquet together with BSA

On Wednesday evening, June 23, CBA-ABC and the Botanical Society of America will be together for their Annual Banquet. Our President will chair the meeting and the President of BSA will be the speaker.

Field Trips

Twelve field trips are planned. In total they run from June 15 to July 1 and encompass the region from Winnipeg to the Yukon and to Vancouver. Deadline is April 15 for receipt of registration form and fees. More information below.

Social Events

"Klondike Days", an all-society social evening sponsored by the City of Edmonton, is planned for Monday evening, June 21. The CBA-ABC/BSA Annual Banquet is Wednesday evening. Special events for wives, children and participants include visits to Old Fort Edmonton, Story-land Zoo, Elk Island Park, Alberta Game Farm, Provincial Museum, Botanical Garden, and the New Biological Science Complex.

Advance Registration and Housing Information

Have you received your brochures from AIBS on Advance Registration and Housing Information, and on the Field Trips? If not, and you plan to attend, write immediately to Dr. Wilson N. Stewart, Local Chairman, CBA-ABC/AIBS, Department of Botany, University of Alberta, Edmonton 7, Alberta, so you can get on the mailing list. Applications for University housing and the $5.00 deposit must be received before May 15 or accommodations cannot be guaranteed. Field trip reservations must be in by April 15. Don't delay, write for your Information brochures and get your applications in in good time.

CBA-ABC/AIBS FIELD TRIPS

Dr. L.C. Bliss, Department of Botany, University of Alberta, Edmonton, Alberta, is coordinator of field trips. He must receive all forms and payments by April 15, 1971.

Twelve field trips are planned. Eleven are outlined briefly here but the twelfth is described in more detail as it is not included in the list mailed out by the AIBS. All trips are open to all participants.

Trip No. 1 Ogilvie Mountains - Yukon Territory. June 15 - 20. Fly Edmonton - Whitehorse, bus via Dawson City to Ogilvie Mountains. Botanize in boreal, tundra, arctic and alpine floras. Return to Edmonton. Limit 40 persons. $260.00 per person. Leader: Dr. John G. Packer, Department of Botany, the University of Alberta, Edmonton, Alberta.

Trip No. 2 Bryological and Lichenological. June 18 - 20. Personal automobile. Starts in Calgary. Via Red Deer, Rocky Mountains House, Jasper National Park to Edmonton. $35.00 for lodging and meals, 2 days. Leaders: Dr. Charles Bird, Department of Biology, the University of Calgary, Calgary, Alberta and Dr. Dale H. Vitt, Department of Botany, the University of Alberta, Edmonton, Alberta.

Trip No. 3 Paleobotany - Drumheller. June 19 - 20. Bus: Edmonton - Drumheller - Red Deer - Edmonton. Edmonton and Bear Paw Formations near Drumheller have microfossils, megafossils, coal deposits, also petrified wood and *Azolla* remains. Paskapoo Formation (Paleocene) has many leaf fossils. $20.00 for bus fare and 2 box lunches; other meals and motel extra. Leaders: Dr. Don Taylor, Geology Department, Provincial Museum, Edmonton and Mr. Lyle Mehlenbacker, Department of Botany, The University of Alberta, Edmonton, Alberta.

Trip No. 4 Botanic Garden. June 22, 8:30 a.m. - 12:00 noon. Bus: U. of A. Campus to Botanic Garden at Devon, 20

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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.

Dr. M.M. Grandtner requested that the Executive accept his resignation from the post of Chairman due to pressure of other duties and it was with regret that the Executive complied with his wishes. Dr. J. Stan Rowe, our immediate Past Chairman, has agreed to carry on until our Annual Meeting in Edmonton.

The Ecology Section has two full days of programme for the Edmonton Meetings. Dr. R.G. McMinn has organized a symposium for Monday afternoon, June 21, "White Spruce: the Ecology of a Northern Resource", in which he will have five specialists looking at this species from many angles. Thursday afternoon, June 24, we have agreed to co-sponsor with the BioInstrumentation Advisory Council of AIBS a symposium on "Controlled Environment Enclosures".

Anyone considering participating in Field Trip No. 12 is urged to contact Dr. John M. Stewart, Department of Botany, University of Manitoba, Winnipeg, Manitoba. This trip is planned to examine the boreal forest at Pinawa, wild rice paddys, the Delta Marsh area, a desert area and the IBP Grasslands site at Matador. See details under "Field Trips".

Breakfast anyone? The Ecology Section will meet informally for breakfast at 7:00 a.m. Tuesday, June 22. This will provide a good opportunity for us to become acquainted with each other. About 8:30 we'll move to our meeting room in time for the beginning of the Ecology Section Contributed Papers at 8:45. This "All Ecology" day will terminate with the Annual Meeting of our Section at 4:30 p.m., Tuesday.

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.

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

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.

Phycology 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.

The Phycology section is applying for formal recognition from the CBA/ABC executive following a decision made at the last business meeting. A proposed constitution has been circulated to members for ratification at the next business meeting in Edmonton. Anyone who has not received a copy and would like one should write to Dr. H.C. Duthie.

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.

FUTURE BOTANICAL PUBLICATIONS

Is another botanical publication needed? Should CBA/ABC undertake such a publication? These questions and other related ones will be considered by the Executive Committee of the Association/L'Association.

Informal surveys indicate the possible desirability for further publications. Whether the Association/L'Association should undertake such must be evaluated carefully. The need is not necessarily for publication of research articles encompassing only original research (although, there are always those who will debate this statement). Rather, there seems to be a requirement for further botanical publications that will encompass critical reviews, monographic treatments, significant symposia, etc. These would not be in journal form, but, rather as separate publications of one or more units.

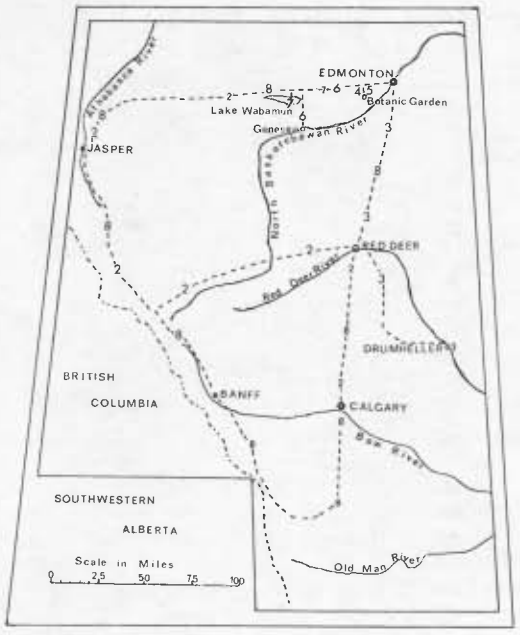
Arguments against another botanical publication such as mentioned above are the lack of a specific need for such. Botanists can publish critical reviews in *Botanical Review* (published by the New York Botanical Garden), the *Annual Review* series (of Palo Alto, California), *Advances in Botanical Research* (Academic Press), and similar compilations. Monographic treatments that encompass original research are eligible for publication in the *Canadian Journal of Botany*. Significant symposia can be published separately or as a group of papers in one of the Canadian Journals of Research or separately if particularly significant.

Recent discussions with the National Research Council indicate an interest with the possibility of some support. The important question then is, is such a publication essential? If this is so, then the success of the publication lies primarily with the Editorial Board. The Editor must be a well-respected botanist and the Editorial Board must contain the best in the botanical fraternity.

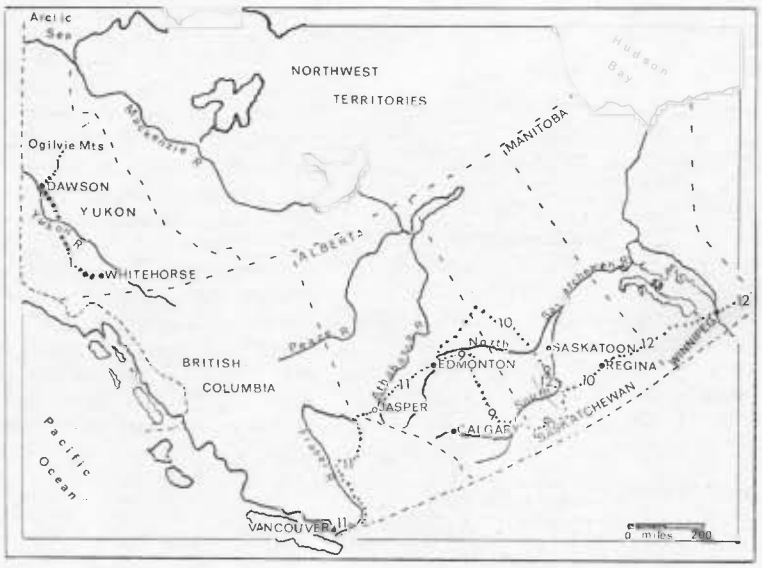
In essence to make such an undertaking possible, the best scientists have to be persuaded to participate as the Editorial Board as well as the contributors. Is the CBA/ABC willing to sponsor such a project? Is the membership willing to help support such a project - morally and financially if need be?

Comments, opinions, etc., from the membership are solicited. **All** should be willing to express an opinion - yes or no or neutral. Signed and unsigned (though these are discouraged) commentary are requested. Please, let your Executive Committee know your thoughts.

Write J.R. Stein, Department of Botany, University of British Columbia, Vancouver 8 - or any member of the Executive Committee listed on page 2 who will gladly forward the comments.



Map of Southwestern Alberta



Map of Western Canada

FIELD TRIPS

Continued from page one.

miles southwest of the Campus, and return. $1.00 Leader: Mr. P. N. D. Seymour, Department of Botany, University of Alberta, Edmonton, Alberta.

Trip No. 5 **Botanic Garden.** June 23, Same as No. 4 but repeated the next day. $1.00 Leader: Mr. P.N.D. Seymour.

Trip No. 6 **Paleobotanic - Genesee.** June 24. Bus: U. of A. Campus to famous Genesee locality and return. Beautiful leaf fossils of *Metasequoia, Cercidiphyllum, Azolla,* etc. $5.50 bus fare plus box lunch. Leaders: Mr. A. Chandrasekharam and Mr. D. Christophel, Department of Botany, The University of Alberta, Edmonton, Alberta.

Trip No. 7 **Phycological - Lake Wabamum.** June 22. Bus: U. of A. Campus to the Lake and return. Effects of a modified temperature regime in the Biota of Lake Wabamum. $5.00 bus fare and box lunch. Leaders: Dr. M. Hickman and Dr. D. Gallup, Department of Botany, The University of Alberta, Edmonton, Alberta.

Trip No. 8 **Ecology and Taxonomy of Alpine, Sub Alpine and Foothill Vegetation.** June 18 - 20. Bus: U. of A. Campus - Jasper - Banff - High River - Calgary - Edmonton. $50.00 bus fare, motel and food. Leader: Dr. Robert Ogilvie, Department of Biology, The University of Calgary, Calgary, Alberta.

Trip No. 9 **Ecology and Taxonomy of Prairie Grasslands.** June 17 - 20. Bus: Edmonton - central Saskatchewan, southern Alberta - Edmonton. Tour Aspen parkland, IBP Grassland Study (Matador Project), and *Stipa* and *Festuca* grasslands. $80.00 bus fare, food and lodging. Leader: Dr. A.W. Bailey, Department of Plant Science, The University of Alberta, Edmonton, Alberta.

Trip No. 10 **Bryological and Lichenological.** June 25 - 27. U. of A. Campus - Saskatoon - end at Regina. Private automobile. $35.00 lodging and meals for 2 days. Leader: Dr. Dale H. Vitt, Department of Botany, The University of Alberta, Edmonton, Alberta.

Trip No. 11 **Ecological, Taxonomic and Mycological Post-Meeting Trip - Edmonton to Vancouver.** June 24 - July 1. The trip will leave at 7:00 a.m. from Lister Hall and will take in the ecology and taxonomy of the Rocky Mountain and Cascade Mountain vegetation. This includes the forests and grasslands of central British Columbia. Especially recommended for pteridologists, mycologists, phycologists and ecologists. This trip will conclude with a survey of the Pacific Coast floras. Note that the trip ends in Vancouver however, participants may return to Edmonton by bus at no extra cost. $150.00 includes bus fare, lodging and food. Leaders: Miss Julie Hrapko, Botanical Department, Provincial Museum and Archives, Edmonton, Alberta; Dr. V.J. Krajina, Department of Botany, The University of British Columbia, Vancouver 3, British Columbia; and Mr. Ted Laidlaw, Department of Botany, the University of Alberta, Edmonton, Alberta.

Additional details on Field Trips 1 - 11 are contained in the brochure distributed by AIBS (see page 1 about getting on the mailing list).

Deadlines: April 15 is the deadline by which date Dr. Bliss must receive your Field Trip Reservation Form with your name, address, Field Trip Number(s) and prepayment of trip fee by cheque payable to "The University of Alberta". If you find you must cancel your reservation afterwards, your fee will be refunded. But, *another deadline:* no refunds will be made on cancellations received by Dr. Bliss after May 15.

Field Trip No. 12 **Pre-meeting: Winnipeg - Delta - Matador - Edmonton.** June 16 - 20. This trip is planned to accommodate people from eastern Canada and the U.S.A. while on their way to Edmonton. Details on Trip No. 12 *were not included* in the recent AIBS mailing.

Proposed itinerary: meet at Department of Botany, University of Manitoba, Winnipeg, at 9:00 a.m. Wednesday, June 16. Travel by bus and/or private car to visit the Pinawa (F.I.G.) Boreal Forest Study Area, and a Wild Rice Paddy. Night at Pine Falls Lodge. Thurs. June 17 visit Fort Alexander Reserve Paddy and the Delta Marsh research areas at Delta on Lake Manitoba. Night at Delta Marsh Lodge. Fri. June 18 visit 'Desert' area and travel to IBP Grassland Study Site (Matador Project), Saskatchewan. Sat. June 19, complete the tour with Field Trip No. 9 or proceed directly to Edmonton. Cost of $40.00 per person covers bus fare only. Meals and lodging extra. If fewer than 43 persons signify their intention to travel by bus, the fare will have to be increased or the bus cancelled. There is no scheduled fee for those travelling by private car.

Participants in Field Trip No. 12 *planning to travel by bus* must send their registration form and $40.00 payment payable to "The University of Alberta" to Dr. L.C. Bliss, Department of Botany, University of Alberta, Edmonton, *and* a letter indicating their intention to Dr. J.M. Stewart, Department of Botany, University of Manitoba, Winnipeg, Man. before May 1, 1971. Participants *planning to travel by private car* need only to signify their intention and interests to Dr. J. M. Stewart.

DEMONSTRATOR IN PLANT BIOLOGY

Applications are invited for a full time faculty teaching position in the area of Plant Biology, beginning on August 1, 1971. The duties include supervision and organization of large first and second year laboratory classes. The salary offered will be commensurate with qualification and experience, with the current minimum being $7,500.00. Candidates should send their curriculum vitae and the names of three referees to Dr. D. Parkinson, Department of Biology, The University of Calgary, Calgary 44, Alberta, Canada by April 30, 1971.

BOTANY POSITION AT UNIVERSITY OF ALBERTA

Applications are invited for a position at the rank of Assistant Professor with a salary minimum of $10,920. A Ph.D. and substantial participation in the Introductory Biology Program are required. Teaching experience desirable. Preference will be given to chemotaxonomy (vascular plants) or paleoecology (Tertiary, Quaternary). Resume and three letters of reference to Prof. Wilson N. Stewart, Chairman, Department of Botany, University of Alberta, Edmonton 7, Alberta, Canada. Deadline April 1, 1971.

CHAIRMAN OF DEPARTMENT OF PLANT SCIENCES

Applications are invited from suitably qualified candidates for the position of Chairman of the Department of Plant Sciences, University of Western Ontario. This is a renewable term appointment.

At present there are twenty full-time faculty members in the department and both graduate (to Ph.D. level) and undergraduate programs are offered. The well-equipped department is situated in a modern building and occupies 39,000 square feet. Members of the department are currently active in research in a wide variety of fields.

The position is open from July 1, 1972, but appointment at an earlier date will be considered.

Applications, together with a curriculum vitae and the names of three referees should be addressed to: Dr. Andrew E. Scott, Dean, Faculty of Science, Natural Science Centre, The University of Western Ontario, London 72, Ontario, Canada.

NEXT DEADLINE: April 15

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.

UNIVERSITY COLLEGE BANGOR: NEPAL EXPEDITION 1971

The Royal Horticultural Society of Great Britain is sponsoring an expedition to Nepal beginning in mid-September 1971, with the object of extensive collection and study of plant species important to Horticulture and Agriculture in East Nepal.

The total cost of this expedition is estimated at £4,900. It is to be financed in part by the sale of shares in the expedition to interested individuals and institutions. Two kinds of shares are being sold: £25 general share ($75, U.S.A.) will entitle the purchaser to receive a general seed collection from East Nepal. It is hoped that this collection will include a large number of interesting horticultural plants. £50 special share ($150. U.S.A.). Organizations or individuals purchasing this share will be entitled not only to receive the general collection of seed, but will also be able to specify their particular requirements of seed, and a special effort will be made to collect as many as possible of the species stipulated. All shareholders will receive a report of the expedition. Details about this expedition can be obtained by writing to L.W. Beer, School of Plant Biology, University College of North Wales, Bangor, Caerns., U.K. or by writing to The Editor of the CBA-ABC BULLETIN.

CSPP-SCPV ANNUAL MEETING 1971

The Canadian Society of Plant Physiologists - La Societe Canadienne de Physiologie Vegetale - will hold its Annual Business and Scientific Meeting at the University of Toronto, Toronto, Canada, Sunday June 13th to Tuesday June 15th, 1971.

The program will include a symposium on Photorespiration, addresses by A.D. Allen (Nitrogenase), J.A. Bassham (Photosynthesis) and G.A. MacLachlan (Cellulose Metabolism), and contributed papers.

For information write to Professor Dorothy Forward, Department of Botany, University of Toronto, Toronto 181, Ontario, Canada.

NATIONAL PARKS HEARINGS

The CBA-ABC will be presenting a brief to the next public hearing of the National Parks Hearings. These are scheduled for April in Calgary, Edmonton and Vancouver and will deal with Banff - Jasper - Yoho - Kootenay National Parks. If you have any thoughts (hazy or specific) that you feel should be considered in our brief, please communicate these as soon as possible to our President, Janet Stein at U.B.C.

PERSONALIA

Dr. C. Frankton recently retired from active duty in plant taxonomy at the Plant Research Institute, Canada Department of Agriculture, Ottawa. But he is continuing with one of his life-long hobbies - - the taxonomy of plants!

Dr. Gareth Morgan-Jones is working as a Research Associate at the University of Waterloo with Dr. W.B. Kendricks. He arrived at the beginning of January 1971 and is working on Fungi Imperfecti.

Dr. Peter R. Newroth received his Ph.D. in Phycology from the University of New Brunswick, Fredericton, N.B., in October, 1970. In his thesis work the nomenclature, taxonomy and morphology of the North Atlantic species of *Phyllophora* (Rhodophyta, Gigartinales) were investigated. Culture and cytological studies were also made in the investigation of the diverse life histories of this group. Dr. Newroth is currently a Postdoctoral Fellow in the Department of Botany, University of British Columbia, Vancouver, B.C. where he is investigating the taxonomy and life histories of Pacific species of *Gymnogongrus.*

Dr. M.R. Sreenivasa has successfully defended her Ph.D. thesis at the University of Waterloo. Her subject was "Recent and Extant Diatom Assemblages in Southern Ontario". She is spending a post - doctoral year at Waterloo where she is completing her study of the diatom flora of Ontario, and is also studying the diatoms of Churchill Falls, Labrador.

DATE — LIMITE DU BULLETIN PROCHAIN:

LE 15 AVRIL