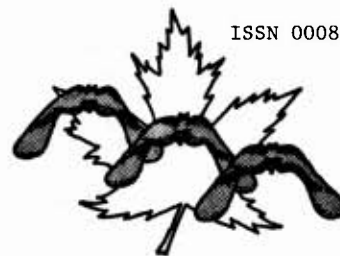


THE CANADIAN BOTANICAL ASSOCIATION

BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA

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Vancouver

PATRON

HIS EXCELLENCY THE RIGHT HONOURABLE EDWARD SCHREYER, C.C., C.M.M., C.D., GOVERNOR GENERAL OF CANADA

PATRON D'HONNEUR

SON EXCELLENCE LE TRÈS HONORABLE EDWARD SCHREYER, C.C., C.M.M., C.D., GOUVERNEUR GÉNÉRALE DU CANADA

IMPRESSIONS OF BOTANY 80

*An Overview of the CBA/ABC Meeting,
July 12 to 16, 1980*

The beautiful campus of the University of British Columbia provided an excellent and much appreciated setting for the combined meetings of the Canadian Botanical Association/L'Association Botanique du Canada, the Botanical Society of America, the American Bryological and Lichenological Society, the American Fern Society, and the Phycological Society of America. The lush surroundings were a delight for all participants, especially those botanists from the hot, dry prairies. In view of the advice to bring rainwear, many of us were quite surprised by the sunny weather.

The all-conference symposium and the special symposia and lectures organized by the various societies and sections thereof provided an interesting framework for the meeting. Plenary speakers who addressed the ethnobotanical theme were very successful in presenting a general and informative perspective of the importance of plants to the indigenous peoples of temperate North America. The first speaker, Richard Ford, painted a good picture of some of the problems encountered in relating archeobotanical data and historical records to past plant communities, environmental changes, and landscape modifications. Richard Hebda, in collaboration with T. Arnason and T. Johns, presented some interesting data on the use of various plants for food and medicine by eastern Canadian native peoples. The paper by David French posed numerous questions about aspects of plant utilization that are often neglected in North American ethnobotany. Lastly, Nancy Turner presented evidence for the value of, and possible problems associ-

ated with, the adoption or re-instatement of some North American aboriginal food plants.

The opening symposium left delegates hungry for specific examples and hard data. This type of information on countless botanical subjects in addition to ethnobotany was amply supplied in the many excellent special symposia and lectures, the teaching workshops, contributed papers and posters. The special symposia and lectures were of a high caliber. The presentations were detailed yet interesting and informative to a diverse audience of botanists. The teaching workshops were well attended. All participants came away with ideas and techniques that will be very useful in the planning of experiments and laboratory exercises. The contributed papers and posters were generally well presented.

In spite of the busy schedule and numerous concurrent sessions, there was still ample opportunity for renewing acquaintanceships, making new friends, and discussing common botanical interests on an informal basis. The tireless efforts of the organizing committee and the staff at UBC resulted in a smoothly run meeting. BOTANY 80 will remain a savory experience that we will long remember.

James A. Traquair

BOTANY 80 - A Review

In a crowded elevator in Gage Hall, near the end of the BOTANY 80 conference, a woman remarked, "This is terrific ... so far no screw-ups"! Perhaps not every participant at this joint meeting of North American botanists shared her unrestrained enthusiasm, but most would have to conclude that BOTANY 80 was a well-planned and well-organized meeting. Beautiful scenery, good weather and comfortable facilities all make for

a pleasant visit, but only a lot of hard work by the local committee makes for a good meeting. Janet Stein, Iain Taylor and their minions deserve our hearty congratulations and appreciation.

But, scientifically speaking, was it a good conference? Was it worth all the effort and expense? Our answers will, in large measure, be personal, and there are many factors that invalidate overly detailed analysis. It is, however, perhaps helpful to compare some statistics from BOTANY 80 with those of the 1971 Edmonton meeting, the last time that many of the same Canadian and American societies met in Canada.

Despite the apparently restrained present economic environment, BOTANY 80 was larger in almost all respects, though supported by fewer societies. There were more papers presented (20%), and most individual societies and sections held more sessions and presented more papers (e.g., Ecology 300%; Phycology 230%; American Fern Society 230%) than were presented in 1971.

"Ah", you ask, "but was the quality that good?" Besides the fact that quality is a most subjective commodity, and no single person can attend enough papers to make a valid appraisal, my conclusion is generally positive. In the sessions that I attended there was evidence of growth and scientific maturity. Structural and developmental botanists seem much more comfortable with techniques and technologies that were relatively new ten years ago. Thus, SEM, electrophoresis, numerical analysis, etc. are routinely and frequently incorporated into larger studies, rather than presented as studies in their own right. I suspect that similar conclusions regarding solid intellectual maturation could be made for other disciplines. If true, then North American botany, while not perhaps spectacularly innovative at this period, is alive and productive.

Another statistic — less than 10% of those listed as authors at BOTANY 80 presented papers at Edmonton in 1971! Does this mean that a fresh young cadre of botanists is taking over North American botany, and that, despite the forces of fiscal and intellectual retrenchment, the study of plants is holding its own and in some areas flourishing? Let us hope so!

Say — have you bought your BOTANY 80 T-shirt yet?

R.I. Greyson

Phycology at BOTANY 80

Phycological activities at BOTANY 80 were especially varied because of the participation of the Phycological Society of America, along with the Phycological Sections of the BSA and CBA/ABC. The local PSA organizer, Paul G. Harrison, had arranged a very full program of field trips, paper sessions and social activities.

Pre-meeting field trips, which took participants to the west coast of Vancouver Island and to sea-grass beds in the Vancouver area, provided opportunities for viewing the Pacific Coast marine flora.

So many phycological papers were submitted (178) that there had to be two or three concurrent sessions at most times. As usual, the

agile room-hoppers were kept busy trying to get to papers in different lecture halls. A symposium on "Algal Symbiosis" led off the meeting with papers on parasitic red algae, endozoic and endophytic algae, and the lichen association. A second symposium, "Survival Strategies in the Algae", dealt with the formation of resistant cells (akinetes, cysts, zygotes, etc.) that enable various algae to withstand adverse conditions. Publication of both symposia is being arranged.

BOTANY 80 was a special occasion for the Phycological Society of America, which celebrates its 35th year of existence this year. Several of the surviving founders and charter members of the Society were present at the meeting and were honored at the Phycology Banquet. Those honored as Founders included Elwyn O. Hughes and Jules Brunel, both well-known to Canadian phycologists.

J.F. Gerrath

GEORGE LAWSON MEDALS

These medals were not awarded at the Annual Meeting held in Vancouver.

MARY E. ELLIOTT SERVICE AWARD

This award was not presented at the Annual Meeting in July.

THE LIONEL CINQ-MARS AWARD

This award was created to honor the late Lionel Cinq-Mars. It is presented for the best paper given by a student at the Annual Meeting.

This year it was awarded to Steven D. Price of the University of Toronto for a paper titled "Function and adaptive significance of tristyly in *Pontederia cordata* L. (Pontederiaceae)."

BOTANY 80 PROGRAMS AND ABSTRACTS

Extra copies of the Program presented at BOTANY 80 (July 11-16, 1980) are available. The price is \$3.50 U.S. or \$4.00 Canadian, postage included.

Some copies of the BOTANY 80 Abstracts are also still available. All paid-up members should have received copies of the Abstracts prior to the meeting. If your membership had lapsed at the time of BOTANY 80 you will not have received a free copy and will now have to purchase one. The Abstracts cost \$4.50 U.S. or \$5.00 Canadian.

To receive a copy of either the Program or the Abstracts, please send a cheque or money order for the relevant amount to: BOTANY 80, Dept. of Botany, University of British Columbia, Vancouver, B.C. V6T 2B1

OFFICERS OF THE CBA/ABC - 1980-1981

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Mycology Chairman: J.A. Traquair
Alternate: G. Neish

Phycology Chairman:
Secretary:

Systematics &

Phytogeography Chairman: G.A. Argus
Secretary: J.S. Pringle

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J.B. Phipps

Board P.F. Maycock
N.G. Dengler
(alternates not yet named)

I.U.B.S. Not yet named

TREASURER'S REPORT

1. Because of legal requirements concerned with incorporation, the office of treasurer could not be transferred until 31 October, 1979. I wish to thank Dr. Michael Hickman for continuing to function until that date. A final transfer of funds was effected on 27 February, 1980.

2. Attached is a summary financial statement for the fiscal year ending 31 May, 1980. The balance of funds has declined to approximately half of that at previous year end. The main reasons for the decline are substantial expenditures for executive travel, *Bulletin* supplements, and legal expenses connected with incorporation.

3. During the current fiscal year a number of outstanding liabilities have been met. These will be offset in large measure by the receipt of a windfall profit of \$3,500 from the Lennoxville meeting of 1976. At present the excess of assets over liabilities is approximately \$3,000.

4. Although income from memberships is down, the number of student members is gratifying. Paid-up membership for 1980 on 1 July was 247, comprising 181 Regular, 57 Student and 9 Retired. These breakdown by province as follows:-

British Columbia	-	31
Alberta	-	24
Saskatchewan	-	10
Manitoba	-	16
Ontario	-	95
Quebec	-	38
New Brunswick	-	8
Nova Scotia	-	11
Newfoundland	-	5
United States & Overseas	-	9

21 Regular members and 32 Student members are new to the Association. Because of the high delinquency rate among former members, 265 reminders were mailed on 3 July; the effects of this mailing are already apparent.

5. 95 of the 181 Regular members for 1980 have paid their B.C.C. fee through the Association.

6. A total of 81 members have subscribed to the Canadian J. Botany. The subscription rate for 1981 will increase to \$30.00 for CBA members.

CANADIAN BOTANICAL ASSOCIATION/L'ASSOCIATION BOTANIQUE DU CANADA

FINANCIAL STATEMENT FOR FISCAL YEAR 1979/80

BALANCE OF FUNDS - June 1, 1979 \$6,231.04

RECEIPTS

Membership Dues	
Full	\$2,915.00
Retired	48.00
Student	283.00
	<u>\$3,246.00</u>
Canadian J. Botany subscriptions	2,581.00
B.C.C. Fees	545.00
Bank Interest	264.77
Sale of Publications	332.92
Proceeds of Conferences	1,803.86
Miscellaneous	215.76
	<u>8,989.31</u>
	\$15,220.35

EXPENDITURES

Canadian J. Botany subscriptions	2,523.00
Lawson Medals	479.50
Bulletin & Supplements	2,309.47
Office Services & Supplies	1,252.13
Executive Travel & Expenses	4,163.72
Legal & Filing Fees	593.25
Section Expenses (Syst./Phytogeog.)	201.81
Advance to 'BOTANY 80'	500.00
Miscellaneous	27.83
Bank Charges	8.70
	<u>12,059.41</u>

BALANCE OF FUNDS - May 31, 1980 \$3,160.94

Auditors: Dr. J.M. Stewart
Dr. J. Reid

David Punter, Treasurer

CALL FOR NOMINATIONS OF OFFICERS AND DIRECTORS
FOR CBA/ABC 1981-1982

At the Annual Meeting at the University of British Columbia a call for nominations for the following members of the Board of Directors was made:

1. President-elect (1 year)
2. Treasurer (2 years)
3. 3 Directors (2 years)

In accordance with By-law 14, one of the 3 Directors must reside east of the Ontario-Manitoba Provincial boundary.

Nominations must be signed by not less than three (3) members in good standing. All nominations must be accompanied by the consent of the nominee.

Les membres sont invités retourner chaque mise en nomination au secrétaire pour le 31 décembre de cette année. Toute nomination doit être accompagnée du consentement écrit de la personne nommée, laquelle doit être membre régulier en règle. Chaque mise en nomination doit porter la signature d'au moins trois membres en règle.

All nominations must be delivered in writing no later than December 31st, 1980, to the Secretary of the Association:

Dr. Iain E.P. Taylor
Secretary, CBA/ABC
Department of Botany
University of British Columbia
Vancouver, B.C. V6T 1W5

On behalf of the Nominating Committee.

N.G. Dengler, Chairman

FUTURE MEETINGS OF CBA/ABC

- 1981 — Guelph, June 7-11. See preliminary notice elsewhere in this *Bulletin*.
- 1982 — Regina, June 13-17. Joint meeting with the Canadian Society of Plant Physiologists.
- 1983 — Open
- 1984 — Fredericton, June
- 1985 — Biological Council of Canada Sponsored Meeting. Site and date not yet determined.

WOULD YOU LIKE TO VISIT WHITEHORSE??

The BCC Sponsored Meeting has been postponed from 1983 until 1985. This means that CBA/ABC does not presently have a meeting arranged for 1983.

It has been suggested that the 1983 Annual Meeting should be held in June in Whitehorse in the Yukon, as we have never been to the North.

Please contact either the Secretary of the Association (Dr. Iain Taylor, Dept. of Botany, Univ. of British Columbia, Vancouver, B.C. V6T 1W5) or Dr. Kaye MacInnes (Site 11, Box 21, Yellowknife, NWT X1A 1H1) with your reactions to this idea. An early response would be appreciated, so that plans can be made.

NEWS FROM THE SECTIONS

Ecology Section

Chairman: Dr. Kaye MacInnes, Site 11, Box 21, Yellowknife, NWT X1A 1H1

Three new members were elected to the executive to increase the geographic representation thereon. These members are: Bruce Roberts, Paul Keddy, and Stan Rowe.

The Section disbanded its subcommittee on Conservation of Endangered Environments in favor of the CBA/ABC's Conservation Committee, which includes members of this Section. Information and recommendations for a management plan regarding Polar Bear Pass IBP Site (Bathurst Island, NWT) will be submitted to the Conservation Committee for consideration.

General Section

Chairman: Dr. R.I. Greyson, Dept. of Plant Sciences, Univ. of Western Ontario, London, Ont N6A 5B7

The membership discussed the possibility of either changing the name of the Section to the Structure and Development Section or establishing a new Structure and Development Section.

Mycology Section

Chairman: Dr. J.A. Traquair, Plant Pathology Section, Agric. Canada Research Station, Lethbridge, Alta T1J 4B1

The Section agreed at its business meeting to continue to encourage the organization of regional meetings, and will make a serious effort to assist local naturalists on their studies of fungi.

The Section plans to hold a special lecture at the CBA/ABC Annual Meetings to be called the Luella Weresub Memorial Lecture. This is to be a one-hour lecture by an invited local speaker, who will be asked to select a topic of mycological yet general interest.

Mycological Offerings in the BOTANY 80 Program

Mycologists who attended BOTANY 80 in Vancouver should not have been disappointed. However, we can largely thank our American colleagues for their contributions to the program.

The invited lecture, organized by the joint mycology section of CBA/ABC and microbiology section of BSA, was given by Dr. James Trappe. In keeping with the main conference theme, Dr. Trappe added man as a third dimension to his talk on mycorrhizal associations and hypogeous fungi. His lecture, titled "Truffles, trees, beasts and man: interactions in North America", was extremely interesting and well presented. With his warmth, magnetic personality, and spontaneous, relaxed style of speaking, he was able to captivate a large audience of botanists regardless of their varied interests.

Over 20 contributed papers dealing with fungi were presented in oral or poster form. Eight of these papers were presented in the joint microbiological session. Topics included ecology, developmental morphology, cytology (ultrastructure), physiology, and pathology. The fungi in question ranged from slime molds to various basidiomycetes. A few mycological papers or

presentations dealing with fungi were given in the physiological, paleobotanical, and ecological sections. For instance, along the ethnobotanical lines, Dr. Rolf Mathewes in his catalogue of the plant remains from the Lillooet Archeological Project, reported the caching of *Bovista*-like puffballs in the pit-dwellings of early North American tribes. In addition, numerous excellent papers on lichen ecology, taxonomy, morphology, and development were presented as contributed papers or symposial lectures. Particularly noteworthy was Dr. Vernon Ahmadjian's lecture based on his SEM studies of the reassociation in culture of mycobiont and phycobiont to form the red-soldier lichen, *Cladonia cristatella*.

The teaching workshop, "*Coprinus congregatus*: a new fungus for experimentation", conducted by Dr. Ian Ross, stimulated considerable interest. The fruiting strains provided by Dr. Ross at the workshop should guarantee participants considerable rewards in teaching and research in fungal genetics and differentiation.

Participation in BOTANY 80 at the University of British Columbia should have been a worthwhile experience for many mycologists. I am sorry to admit that many Canadian mycologists missed a good meeting and an excellent opportunity to make their immediate impact on the botanical scene. It is always gratifying to witness the realization by our other botanical colleagues that fungi are actually interesting and important.

James A. Traquair

Phycology Section

Chairman:

The Section elected a 4-person executive, from which the Chairman and Secretary will be selected. The executive is: Dr. M. Munawar, Dr. H. Duthie, Dr. P.R. Gorham, and Miss C.J. Bird.

Systematics & Phytogeography Section

Chairman: Dr. G.A. Argus, Museum of Natural Sciences, Botany Division, Ottawa, Ont K1A 0M8

About 30 members attended the Annual Business Meeting on July 13, 1980. George Argus' report from the "Rare and Endangered Species Committee" was read by the Secretary (Sam vander Kloet). Progress has been made on the provincial rare plant lists. The list for Manitoba has been published (*Syllogeus* #27), and those for the Yukon, Quebec and British Columbia are near to completion. The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) has added a subcommittee for plants, with the objective of producing status reports on individual species. The Committee on Rare and Endangered Plants was reappointed under the continued chairmanship of George Argus.

John Morton reported on the Flora North America Project, which is now apparently defunct.

Jim Soper's report on the trial run of a National Depository for Floristic Checklists was presented by Ernie Brodo. The points raised with regard to its worthwhileness, problems, and scope were discussed at some length. Dr. Soper was asked to continue the project for another year, and the new Executive was asked to help to determine the scope of the project.

The new 1980-81 Executive Committee members, including the Chairman and Secretary, were elected by direct mail ballot for the first time, as provided by the 1978 and 1979 By-law amendments. The members of the Executive Committee are: George A. Argus, Chairman; J.S. Pringle, Secretary; V.L. Harms, Immediate Past Chairman; John McNeill, Sam vander Kloet and Dale H. Vitt, members.

Herbarium Curators' and Associates Meeting

John McNeill reported on the code of ethics and desirable procedures for herbarium loans and visits. The meeting endorsed a request that the A.S.P.T. code published in *Brittonia* be reprinted in a future edition of the CBA/ABC *Bulletin*, provided that approval can be obtained.

The relationships of Canadian herbaria to Customs' Offices upon exporting or importing specimens with regard to the "Convention on International Trade on Endangered Species" was discussed at some length.

Extracted from a report by: V.L. Harms

BOTANICAL SOCIETY OF AMERICA AWARD

The Darbaker Prize for meritorious work in the study of microscopical algae was presented to C. Peter Wolk of Michigan State University. The Selection Committee bases its judgement primarily on papers published during the last two calendar years.

The citation to Peter Wolk read: "for his investigations of blue green algal developmental biology, particularly his research efforts to determine the biochemical and molecular mechanisms that regulate the differentiation of heterocysts and akinetes."

The award was presented on July 15, 1980 at the Banquet at BOTANY 80 (a joint meeting of Canadian and American botanists).

CBA/ABC T-SHIRTS

The CBA/ABC T-shirt is now available. The white shirt with the Association emblem in red and green attracted much positive comment at BOTANY 80. There are still a few left in Adult sizes (small, medium, large, and extra-large). The cost is \$8.00 each (\$7.25 + .75¢ postage and packing).

Send your cheque (payable to CBA/ABC) or money order to: Dr. Iain E.P. Taylor, Dept. of Botany, University of British Columbia, Vancouver, B.C. V6T 2B1

Hurry, supplies are limited!

NOTE TO LIBRARIANS

The Abstracts for BOTANY 80, held at the University of British Columbia from July 11-16, 1980, were issued as Miscellaneous Publication No. 158 of the Botanical Society of America.

It has just come to our attention that BSA's semi-annual Directory has also been given the same Miscellaneous Publication Number!

PUBLICATION OF NRC RESEARCH JOURNALS

The Editor has received the following letter regarding the continued publication of NRC research journals. It is reprinted in its entirety for your information. (Italics are mine.)

"Over the past several years we have been very concerned about possible changes in the publication of the NRC research journals as a result of a directive from Treasury Board to transfer the publishing operations from NRC to the private sector. Last fall NRC received over 1700 signatures on petitions as well as many letters protesting against such a transfer. *I am very pleased to inform you that we have now received a renewed mandate from Treasury Board to continue the publication of the research journals for a further period of five years.* Before expressing my appreciation and thanks to the members of the scientific and engineering communities for their concern and massive support, I would like to outline the activities of the NRC Advisory Board on Scientific Publications, the action taken by NRC, and the response from Treasury Board.

"The Advisory Board on Scientific Publications has engaged in a survey of the sponsorship of Canadian journals of research, in the course of this survey consulting the scientific community and societies. It has studied the requirements for maintaining and perhaps improving the quality of the present publishing program. In January, the Board submitted a report to the National Research Council in which it recommended that the redactorial office of the NRC journals should be retained within NRC and that the entire publishing operation of eleven NRC journals and of grants to other journals (the program now administered by NSERC) should be maintained for the present in order not to threaten or injure the important service it has performed. However, the Advisory Board was concerned that the greater involvement of the scientific and engineering societies in publishing be encouraged, that a greater role for the private sector in scientific publishing be developed, and that the funding system for the eleven NRC journals and the grant-supported journals be made fair and equitable.

"The National Research Council prepared a submission to Treasury Board in which it asked for a mandate to continue the publication of its research journals for a further period of five years. Because of the federal elections in February, the response from Treasury Board was delayed. However, on August 11th, 1980, the President of NRC received a letter from Treasury Board in which approval was given for the publication of the NRC journals as requested in the submission. During the five-year period, NRC, with the help of its Advisory Board on Scientific Publications, is to continue to investigate ways and means for increasing the participation of the scientific and engineering societies and of the private sector in the publication of the Journals.

"The opinions of the scientific and engineering communities have had a great effect in bringing about such a favourable response from Treasury Board. I would like to express my thanks for your enthusiastic support and hope that we can look forward to continuing collaboration in scientific publishing.

"It would be much appreciated if you could pass on the information contained in this letter to the members of your society."

B.A. Gingras
Vice-President
(External Relations)
National Research Council

CBA/ABC 1981 ANNUAL MEETING PRELIMINARY ANNOUNCEMENT

The 1981 CBA/ABC Annual Meeting will be held at the University of Guelph, Ontario, on June 7-11. The main symposium, "Approaches to Plant Structure - Then and Now", will deal with past and present techniques used in studying plant structure and development. Prof. Irene Manton will deliver the opening paper at this symposium. In addition to contributed paper sessions there may be symposia organized by individual sections of the Association.

A pre-meeting field trip to the Bruce Peninsula is being arranged to allow participants to view the flora of this most interesting region, which includes several rare species. Half-day trips to local areas of interest are also being organized.

A photographic competition and student paper competition will both be held. We hope to award both the George Lawson Medal and the Mary E. Elliott Award at the meeting. Nominations for these awards should be sent immediately to the President of the Association, Dr. Michael Shaw. The usual social activities are also being planned.

Full details about the meeting will appear in the January issue of the *Bulletin*.

CARLETON ACQUIRES FERN LIBRARY

The pteridological books of former Professor E.A. Turnau have been obtained by the Department of Biology at Carleton University. They are available in the resource centre associated with Herb. CCO in the Environmental Laboratory Building (ELBA). Regional floras from various areas of the world provide a major resource available to scholars wishing to refer to this rare collection of books.

SHOP EARLY FOR CHRISTMAS!!

BOTANY 80 T-shirts, prepared for the Annual Meeting, are still available. The shirts are kelly green with white piping around the neck and armbands. The BOTANY 80 logo emblazons the front in white. T-shirt sizes are: children's small or medium, and adult small, medium, large and extra-large. The price is \$5.75 for children and \$6.75 for adults, including postage. They wear well and make excellent presents!

Send a cheque or money order (Canadian funds) to: BOTANY 80, Dept. of Botany, University of British Columbia, Vancouver, B.C. V6T 2B1

PLANTS NOW PART OF REVIEW PROGRAM BY COSEWIC

The Committee on the Status of Endangered Wildlife in Canada (COSEWIC), a committee of the Federal-Provincial Wildlife Conference, has recently enlarged its scope by adding a subcommittee responsible for plants. This subcommittee is made up of: George W. Argus, National Museum of Natural Sciences; Andre Bouchard, Univ. de Montreal; Paul Catling, Univ. of Toronto; and Roy L. Taylor, Univ. of British Columbia.

The main objectives of the subcommittee are to prepare status reports on plant species that could qualify for endangered, threatened or rare status in Canada and to recommend on their status to COSEWIC. The recognition of their status by COSEWIC will alert responsible agencies and will encourage action to reduce threats to their populations.

The Plants Subcommittee needs the support of botanists in the preparation of status reports on plants that are at risk in Canada. Guidelines for the preparation of reports and a list of candidate species will be sent on request. The species to be studied need not be drawn from the lists of candidates, but they should qualify for endangered, threatened or rare status throughout their entire Canadian range. Higher priority will be given to those species that are under threat throughout their entire known range. Funds are available to aid in the preparation of status reports and application for support should be made to COSEWIC.

Inquiries should be sent to: George W. Argus, Botany Division, National Museum of Natural Sciences, Ottawa, Ont K1A 0M8

George W. Argus

PERGAMON PRESS PROBLEMS?

Do any other members subscribe to journals published by Pergamon Press? You may be interested in the following letter received from Dr. Iain Taylor of UBC detailing some problems that he has encountered with the Press.

"Many scientists use and subscribe to journals published by Pergamon Press. In my case I subscribe to Current Advances in Plant Science, Biochemical Education and Endeavour, and receive discount over library rates of U.S. \$108.00, 10.00 and 10.00 per year respectively.

"I have just [July 1980] received a letter from Pergamon Press reminding me that they "have established a two-tier price structure whereby individuals whose institution takes out a Library subscription may purchase a second or additional subscription for their personal use at a much reduced rate." The letter goes on to ask for details of my library so that Pergamon "may update our records and arrange to extend your personal subscription through the coming year."

"The letter seems to say that my discount subscription will be cut off unless I pressure my library to subscribe. I resent that insidious pressure. I subscribe to journals because I use them more than others and my heavy use would inconvenience both the library and myself if I relied on a library copy. In this case my library does not subscribe to Current Advances in Plant Science but my need remains, so I sub-

scribe. Pergamon Press's policy is to treat me, the academic scientist, as though I were a university-funded library. The basis for this treatment seems to be that my subscription copy, whether discounted or not, would be available to compete with the library. This is a fallacy that has been ignored or unrecognized by Pergamon Press. I pay for my own copy out of my own pocket for my own use.

"I am bringing this matter to the attention of your members in the hope that they, like me, will question the sense and ethics of this type of action. If library priorities, which are usually based on journal use, do not allow subscription, private subscribers in that institution are forced to pay library rates or do without. Pergamon justifies its policy "in the interests of maximising the dissemination of the research reports published in this important journal" (Current Advances in Plant Science). As I see it, the policy will reduce circulation and thereby reduce new library subscription, minimise, not maximise, dissemination of research reports and reduce, not enhance, profit to Pergamon Press. The issues are not the convenience and discount offered to a private subscription, but the implication which this publisher makes that its "discount subscribers" may be used as a pressure group to enhance sales.

"If any members do feel that protest action is appropriate, I suggest that they write to: Pergamon Press, Headington Hill Hall, Oxford, OX3 0BW, England. Attention: M. Lennie, Customer Relations Manager."

2ND MARY E. ELLIOTT MYCOLOGICAL FORAY

The 2nd Mary E. Elliott Foray will be held in the London area of Ontario on October 19, 1980. The foray will be organized by Dr. J.A. Traquair and Mrs. S. Legeza. It will be a one-day event open to anyone interested in the fungi.

Individuals who intend to participate should contact Dr Traquair, Research Station, Agriculture Canada, Lethbridge, Alta T1J 4B1 (phone: 403-327-4561), or Mrs. Legeza, Dept. of Plant Sciences, Univ. of Western Ontario, London, Ont N6A 5B7 (519-679-3284) before October 10, 1980.

MYCOLOGICAL WORKSHOP

The CBA/ABC and the University of Windsor are sponsoring a one-day Mycological Workshop to be held on Saturday February 21, 1981, at the University of Windsor, Windsor, Ontario. The Key-note Speaker will be Dr. G.G. Stewart (Manager, Brewing Research and Development, Labatt Breweries of Canada Ltd., London, Ont). His topic will be the genetic manipulation of industrial yeast strains.

Those interested in attending and/or presenting a paper should contact: Dr. Donovan S. Thomas, Dept. of Biology, University of Windsor, Windsor, Ont N9B 3P4 (519-253-4232, Ext. 462).

XIII INTERNATIONAL BOTANICAL CONGRESS

Members planning to attend the Congress should note the following deadlines.

The deadline for field trip bookings and deposits is January 23, 1981.

The last date for submission of abstracts is May 15, 1981.

The last date for registration at the Congress at the special rate is May 15, 1981.

For further information please contact: The Secretariat, 13th International Botanical Congress, University of Sydney, Sydney, NSW 2006 Australia.

The following information on Symposia to be held in Section 8 (Systematics and Evolutionary Botany) has recently been received. It is included for the interest of the members.

Section 8. Systematic & Evolutionary Botany

Symposia and Convenors

1. New evidence and modern systems in Angiosperm classification — R. Dahlgren
2. Assessment of relationships — F. Ehrendorfer
3. Adaptive strategies in plants and populations — O.T. Solbrig
4. Classification of pteridophytes — A.C. Jermy
5. Speciation in the tropical rainforest — P.S. Ashton
6. Geographic variation within plant species — A. Strid
7. Origins and diversification of Australian flora — B.A. Barlow and R.C. Carolin
8. Chemosystematics and co-evolution — J.B. Harborne
9. Macromolecular approaches to systematics — A.C. Wilson
10. Systematics and evolution of Liliiflorae — H. Huber
11. Evolution of arid floras — D.K. Northington
12. Inflorescence morphology and its application to systematics — F. Weberling
13. Relationships of Australasian tropical rainforest floras — R.F. Thorne
14. Biology and variation in Eucalypts — L.D. Pryor
15. Algal origins, symbiosis and botanical "phyla" — L. Margulis
16. Myrtales: composition and relationships — P.H. Raven

Poster sessions and contributed papers will also be included, as well as a discussion session on curatorial procedures. Authors are encouraged to inform the Section Chairman of the title of proposed contributed posters or papers as soon as possible, to assist in planning.

For information about Section 8 contact: Dr. B.G. Briggs, Chairman, Section 8, Royal Botanic Gardens, Sydney, Australia 2000

TRAVEL TO XIII INTERNATIONAL BOTANICAL CONGRESS IN SYDNEY, AUSTRALIA, AUGUST-SEPTEMBER 1981

Negotiations are in progress and final plans will be announced in a separate mailing in October/November this year. So that costs can be kept as low as possible, we must qualify for the Group Fares by travelling in groups of at least 10 (the same 10 must travel together in both directions). People wishing to stop in New Zealand will have to travel via Los Angeles (using Air New Zealand) or pay up to \$700 more via Vancouver (using CP Air/Qantas plus a side trip to New Zealand). The cheapest quotations based on 1980 rates are between \$1369 (from Montreal and return) and \$1240 (from Vancouver and return). The rate in 1981 could be 20-30% higher.

All group arrangements will be made by P. Lawson Travel in Vancouver. Bookings will require a \$200 deposit at the time of booking, with the final payment due 30-45 days before departure. The final prices should be available by May 1981.

Iain E.P. Taylor

FORTHCOMING MEETINGS

1982 AETFAT Congress — The Association pour l'Etude Taxonomique de la Flora d'Afrique Tropicale (AETFAT) and the South African Association of Botanists are organizing a Congress to be held in Pretoria, South Africa, from January 19 to January 22, 1982.

The main symposium will be "The Origin, Evolution and Migrations of African Floras" and will be divided into three parts — The Fossil Floras; The Presentday Floras; and, Past and Present Vegetation, Landscapes and Climates.

The General Sessions include: Marine and Freshwater Botany; General Taxonomy and Morphology; Biosystematics, Speciation, Pollination; Ethnobotany and Uses of African Plants; and, The Influence of Weeds on the African Flora.

Unfortunately, the last date for submission of abstracts of papers or posters was June 30, 1980, with final acceptance by August 31, 1980. [The information reached me in August — Ed.]

For further information, please contact: The Symposium Secretariat S.229, CSIR, PO Box 395, Pretoria 0001, Republic of South Africa.

WANTED — CARTOONS

Robin Day of the University of New Brunswick is collecting cartoons of a biological nature for a forthcoming book/booklet. All contributors will be acknowledged in print and will also receive \$5.00 for each cartoon submitted.

If you have any suitable biological cartoons, please submit the originals or good quality copies to: Robin T. Day, Biology Dept., Univ. of New Brunswick, Fredericton, N.B. E3B 5A3

Oakes Ames, Jottings of A Harvard Botanist, edited by Pauline Ames Plimpton with a foreword by George Plimpton. Published in 1979 by the Botanical Museum of Harvard University and distributed by Harvard University Press.

Oakes Ames (1874-1950) was a son of a wealthy New England industrial family who consciously made up his mind to forsake the family tradition of business and finance to devote his life to the study of orchids. This ambition he achieved magnificently, writing a number of books, describing over 1000 new species, and collecting over 64,000 herbarium sheets of orchids. Almost incidental to this he became a professor at Harvard, Director of the Botanical Museum and of the Arnold Arboretum, and for many years gave a famous class in Economic Botany (3 hours per week, usually six students).

The book, however, is not a scientific treatise on orchids, they are mentioned but incidentally. Rather it attempts to give an impression of life in Massachusetts around the turn of the century and a little of the character of Oakes Ames. It deals with Oakes and his wife Blanche, who was a gifted artist; their home life; the building of their Elizabethan-style house on their 1200-acre Borderland estate; the designing of the magnificent library, which is the central feature of the Borderland house; and their other houses in Boston, houses so big that they required a large staff of servants to run them. In addition, there are some letters and journals of their various travels.

The book starts with 'Autobiographical Jottings' by Oakes Ames, an account of his life in much the same style as Charles Darwin's Autobiography and, like that book, written in the latter part of his life with the intention of amusing and informing his grandchildren. This is the better part of the book and it is unfortunate that he got discouraged while writing it. It ends abruptly, obviously incomplete, without describing many of the facets of his Harvard career, his role in persuading Miss Ware to donate the Ware Collection of Glass Flowers, or the founding of the American Orchid Society. Of the Ware Collection, he often joked that the little booklet he wrote on it was his most famous book since the display of Blaschka virtuosity in glass manipulation is the sole reason why a large proportion of visitors go to the museum and the booklet has sold by the hundred thousand.

The remainder, and larger part, of the book is composed of miscellaneous writings of Oakes Ames, largely travel accounts and diary notes selected by his daughter Pauline, presumably from a large collection of such writings. Individual segments are interesting, e.g., the Florida and Cuban journals, but they fit together lumpily. Pauline has added a few notes to give continuity, but they are insufficient to bridge the gaps in his career. The policy was obviously to let Oakes Ames speak from his own writing, apart from the introduction by his daughter and the foreword by her son George Plimpton, himself a writer of some repute, but the effect of cementing accounts written over almost fifty years inevitably leads to unevenness.

What does the book do? It paints the life of a wealthy, secure professor at Harvard with an intense dedication to his family, his books, and the study of orchids. I get the impression

of a man dedicated to satisfying an internal drive rather than seeking the open approval of his colleagues. His scientific reward was probably being able to see his own books on his library shelves and being able to say to himself that no-one had achieved so much in the study of orchids. For instance, he never attended scientific meetings and shunned conferences. This is the pure academic pursuit of knowledge for the sake of knowledge in what I regard as the English tradition. He represents, in many respects, the traditional concept of an ivory tower academic. This thought came to mind rather strongly since the previous autobiography I had read was that of the biochemist Erwin Chargaff [Heraclitean Fire, 1978. Rockefeller Press, N.Y.]. The two books contrast in almost every conceivable way. Chargaff, born a generation later (1905), represents what I call, for the lack of a better term, the German tradition; striving for publicity, outspoken, attending conferences, attracting grants, possibly in line at one time for a Nobel Prize. In other words, equally hard-working and dedicated, but going about it in a very different manner. Chargaff comments on his colleagues and the world in general with a barbed pen and makes gripping reading.

What is the difference between the two men? Is it inherited money? Partly, but I think not entirely, Oakes Ames was an exception in his own time. Chargaff's life has covered the modern phase of scientific research, dependent on massive supplies of public funds and appealing to the public (and hence politicians) via a promised technological spin-off. Universities in general, and science in particular, are now caught up in a massive dependency on government money. Even though wealthy families still exist, it is probably no longer possible for a young man to more or less anticipate a lifetime of scientific research independently supported. Herein lies the charm of "Jottings", it represents a way of life that is gone forever. Oakes Ames represents the last of the old way, Chargaff shows us the future, or rather warns us of the future.

The book, while partly a family history, will appeal to devotees of Harvard University and to those of us who want to glimpse life around the turn of the century in a Massachusetts family.

M.J. Harvey
Dalhousie University

RECENT PUBLICATIONS RECEIVED FOR REVIEW

Survey of Canadian Herbaria by Bernard Boivin. 1980. Provancheria No. 10. Herbarium Louis-Marie, Université Laval, Québec, PQ \$10.00

The Aloineae, A Biosystematic Survey by Herbert Parkes Riley and Shyamal K. Majumdar. 1979. The University Press of Kentucky, Lexington, KY (No price indicated) /

Wild Green Vegetables of Canada by Adam F. Szczawinski and Nancy J. Turner. 1980. National Museum of Natural Sciences, National Museums of Canada, Ottawa, Ont \$9.95 (Can.). Available in either English or French editions.

PERSONALIA

Ms. Elaine H. Moose of the University of British Columbia won the award for the Best Student Paper given by the Physiological Section of the Botanical Society of America at the recent BOTANY 80 meetings held in Vancouver.

New Members

Ms. Gretchen de Boer, 308 Goldbeck Lane, Waterloo, Ont N2J 4L1
 Mr. Rod C. Bollman, Dept. Biology, Univ. of Winnipeg, 315 Portage Ave., Winnipeg, Man R3B 2E9
 Lewis M. Brown, Dept. of Plant Sciences, B & G, Univ. of Western Ontario, London, Ont N6A 5B7
 Miss Spruce Fraser, 617 Berwick Ave., Town of Mt Royal, Montreal, PQ H3R 2A1
 Miss Jacqueline D. Hall, Plant Pathology Sect., Agriculture Canada, Research Station, Lethbridge, Alta T1J 4B1
 Mr. Derek L.S. Harrison, 1000 Brock Ave., Victoria, B.C. V9B 3E1
 Mr. Jan A. Janssens, Dept. of Botany, Univ. of Alberta, Edmonton, Alta T6C 2E9
 Patricia McLellan, #6-88 South Park Drive, Winnipeg, Man R3T 2M1
 Ms. Marjorie L. Nietfeld, Dept. of Biology, Dalhousie Univ., Halifax, N.S. B3H 4J1
 Mr. Shane W. Porter, 532 Michener Park, Edmonton, Alta
 Dr. James Reid, 11 Fordham Bay, Winnipeg, Man R3T 3B8
 Anita Schewe, Dept. of Botany, Univ. of Manitoba Winnipeg, Man R3T 2N2
 Dr. Doina-Maria Serbanescu, Dept. of Biology, Laurentian Univ., Sudbury, Ont P3E 2C6
 Michael J. White, 142 Judith Crescent, Ancaster, Ont L9G 1L5
 Dr. Ed Yeung, Dept. of Biology, Univ. of Calgary Calgary, Alta T2N 1N4

Address Changes

Mr. Brian Amiro, Dept. of Land Resource Sci., Univ. of Guelph, Guelph, Ont N1G 2W1
 Dr. N.P. Badenhuizen, 159 Russell Hill Rd #202, Toronto, Ont M4V 2S9
 Luc Brouillet, Dept. of Plant Sciences, Macdonald College, St. Anne de Bellevue, PQ H9X 1C0
 Dr. J.W. Case, Physics Dept., Univ. of Alberta, Calgary, Alta T2N 1N4
 Dr. S. Charlton, 4811 Nordegg Cr. N.W., Calgary, Alta T2K 2M4
 Ms. Eva Dillon, 24 Dixington Cr. #310, Weston, Ont M4P 2K5
 R.L. Gambles, Faculty of Forestry, Univ. of Toronto, Toronto, Ont M5S 1A1
 Mlle Claire Gauvin, 9472 Millen, Montreal, PQ H2M 1W9
 S.L. Gray, 150 Brooke Ave., Toronto, Ont M5M 2X5
 Dr. A.N. Langford, c/o P.A. Langford, P.O. Box 60, Stanbridge East, PQ J0J 2H0
 Mrs. Joan E. Lee, Dept. of Botany, Univ. of Manitoba, Winnipeg, Man R3T 2N2
 Mrs. Mary I. Moore, 6 Laurier Ave., Box 159, Deep River, Ont K0J 1P0
 Dr. A. Randall Olson, Dept. of Biology, Univ. of Saskatchewan, Saskatoon, Sask S7N 0W0
 Dr. Everett B. Peterson, Western Ecological Services (B.C.) Ltd., Box 6900, Sidney, B.C. V8L 4N1
 Dr. Stanley A.J. Pocock, Esso Resources Canada Ltd., 339-50th Ave. S.E., Calgary, Alta T2W 0S3
 M. Georges-Henri Poirier, 3779 RR #7, Chicoutimi, PQ G7N 5B3

Guy Rimmer, 5120 Edouard Monpetit, Montreal, PQ H3W 1R2
 Dr. T.M.C. Taylor, 2776 Seaview Rd., Victoria, B.C. V8X 1K8
 Dr. Marvin Weintraub, 6785 Laurel St., Vancouver, B.C. V6P 3T4

MEMBERSHIP UPDATE

As a result of the "love letter" mailed by the Treasurer in July, reminding members that membership dues were overdue, the membership now totals 386 (298 Regular, 65 Student and 23 Retired).

The Treasurer provided the following table, with the comment that it may spur recruiting in some provinces! The figures in brackets are new members.

	Regular	Student	Retired
B.C.	36(2)	8(4)	6
Alta	31(2)	5(1)	2
Sask	17	1(1)	-
Terr.	1	-	-
Man	15(7)	6(5)	1
Ont	114(7)	27(14)	10
PQ	37(2)	14(9)	-
N.B.	8(1)	3(1)	-
N.S.	16	1(1)	2
P.E.I.	-	-	-
Nfld	10	-	-
Foreign	13(1)	-	2
	298(22)	65(36)	23

POSITION AVAILABLE

Botanical Garden Director — The Board of the Royal Botanical Gardens, Hamilton, Ontario is seeking applicants for the position of Director of this institution. This is a senior staff position with responsibilities for directing the operation of a large botanical garden with recognized service at the provincial, national, international and community levels. Funding is principally from provincial and regional government sources.

Located at the western tip of Lake Ontario, RBG comprises 2000 acres (800 ha) of developed gardens, arboretum and extensive natural areas. Plant collections of international repute have been developed with expanding associated research, education, extension and public service programs. Programs associated with the natural areas complement those with horticultural and botanical orientation.

Qualifications — Training and experience in horticultural and botanical fields, proven administration skills and the ability to work with governments at all levels are basic requirements. Education to the Ph.D level with teaching experience is desirable. Salary offered will be commensurate with education and experience.

Applications will be received up to December 31, 1980.

Send detailed resume and names of three referees to: The Secretary, Selection Committee for Director, Board of the Royal Botanical Garden, P.O. Box 399, Hamilton, Ontario L8N 3H8

EXHIBITIONS

The National Museum of Natural Sciences has announced two exhibitions. The Museum is located at the corner of Metcalfe and McLeod in Ottawa, and the hours of opening are Tuesday through Sunday, from 10 a.m. to 5 p.m.

Pictures in the Wild — an exhibit of contemporary Swedish nature photography will open on Tuesday, September 9, 1980, and will run until November 30, 1980.

The exhibit of 85 photographs represents the work of 21 photographers of Sweden's avant garde "Naturfotograferna" group — devoted to environmental consciousness in nature photography.

Watercolours by James Fenwick Lansdowne — a collection of 90 watercolours donated to the people of Canada by Domtar Inc. The collection was commissioned by Domtar Fine Papers between the years 1958 and 1972 for the purpose of producing high quality calendars. The Museum is to be the custodian of the collection.

The exhibition will run from September 23 through November 30, 1980. It will then be sent on a national tour.

The Bulletin of the Canadian Botanical Assoc.
Editor:- Mrs. Sylvia Taylor
Office of the Botanical Garden
University of British Columbia
6501 N.W. Marine Drive
VANCOUVER, B.C. V6T 1W5

Issued quarterly in January, April, July and October, and sent to all members of the Association. Non-members can receive it at a price of \$10.00 p.a. (\$2.50 per issue) post free, made payable to "The Canadian Botanical Association" and addressed to the Editor.

Material for inclusion in the Bulletin should reach the Editor at least one month prior to the date of publication of that issue.

To ensure prompt delivery of the *Bulletin* please notify the Editor of any change of address as soon as possible.

Enquiries about membership of the CBA/ABC should be addressed to the Secretary of the Association: Dr. I.E.P. Taylor, Department of Botany, University of British Columbia, VANCOUVER, B.C. V6T 2B1