



BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA

ISSN 0008-3046

July 1991

Volume 24 Number 3

Guelph

PATRON

His Excellency the Right Honourable Ramon John Hnatyshyn P.C., C.C., C.M.M., C.D., Q.C.
Governor General of Canada

IN THIS ISSUE

Conservation Committee	P. 30
CFBS Science Policy Achievements & Impacts	P. 32
Notes-CFBS Board of Directors Meeting	P. 35
CBA/ABC Awards/Edmonton	P. 36
Development Committee	P. 37
Edmonton 1991/Impressions	P. 37
Can. J. Bot.: Editor's Report	P. 38
Garden News	P. 38
Positions Open	P. 39
New Publications	P. 41
News of Members	P. 42
Law of Biotechnology/National Conference	P. 42
Interim Treasurer's Report	P. 42
List of Officers	P. 44
The Last Word	P. 44

EDITORS' FORUM:

It seems that I was rather premature in celebrating the Association's success in weathering the storm of increased membership dues. In fact, we are in considerable trouble this year with our membership down close to 30%. This seems to be the pattern with most of the biological organizations that recently joined CFSB and were forced to increase dues. We will now have to work very hard to try and get back members who did not renew and to recruit new members. If everyone in CBA/ABC brings in one new member we could theoretically have a membership of close to 500. It's particularly important to bring in graduate students and senior undergraduates. The future of botany in Canada rests with students, many of whom are unaware of the advantages to them of membership in CBA/ABC. We hope to have a new pamphlet out in the near future which explains the benefits of CBA/ABC, i.e. newsletters, annual meetings, travel scholarships, awards for best paper, a chance to interact with potential graduate and post-doctoral supervisors and probably most important today is the opportunity to influence science and environmental policy. Please make sure that you spread the word to your students and colleagues. This is a very critical time for our Association. We will need to work hard to get through this difficult period, but this is a time that our expertise and knowledge of environmental issues are needed more than they've ever been needed before.

FUTURE MEETINGS:

1992-Truro, N.S. (July 5-9)

1993-Ames, Iowa, with AIBS (Aug.23-Sept.3)

1994-Calgary, Alberta

1995-Saskatoon, Saskatchewan

1996-Charlottetown, P. E. I.



Printed on paper made of 100% recycled fibers

**CANADIAN BOTANICAL ASSOCIATION /
L'ASSOCIATION BOTANIQUE DU CANADA
CONSERVATION COMMITTEE ANNUAL RE-
PORT**

1. Mid-winter meeting. Nine attended a four-hour meeting in Toronto at S. Varga's residence on February 8, 1991.

2. "Planting to complement natural area protection". There is increasing interest in revegetation and planting in various provinces/municipalities. Since guidelines are required, a position paper on the subject was drafted for consideration by the CBA/ABC annual general meeting.

3. "Use of native plants in gardening". Because of the current enthusiasm for wildflower gardening and the potential for damage to natural habitats and native population which this involves, a statement was drafted which could eventually be adopted by the CBA/ABC to deal with a variety of situations.

4. Carolinian Canada Program (CC). Classification of sites was done by K. Kavanagh for the Carolinian Conservation Data Center. The first 5 years of CC have expired, but CBA/ABC has written letters advocating that further grants be awarded to enable the program to protect all top sites. The CBA/ABC representative on the CC Steering Committee, J. Morton, cast the deciding vote which ensured that any further acquisitions through CC will be entrusted to the Nature Conservancy of Canada (NCC), since NCC has more experience and is more effective and efficient in purchasing.

5. Ontario Heritage Foundation. CBA/ABC was invited to submit research grant applications to OHF, and we submitted two, but neither was funded. It was pointed out that both were relevant to the Carolinian life zone and the inference was that they overlapped with the Carolinian Canada program.

6. North American Waterfowl - Eastern Joint Venture. Since this is closely connected with wetland preservation, S. Varga represented CBA/ABC at a Sept. meeting in Toronto. Funds from the program will be used for acquisition at

Matchedash Lake and will help to forestall marina development on this important wilderness lake. CBA/ABC agreed to offer botanical expertise to the Joint Venture to promote wetland protection.

7. Matchedash Lake, Ontario. For the first time, the Ministry of Natural Resources (MNR) in Ontario attempted to stop a development on private lands within an area designated as an area of natural and scientific interest. As a result, only 2 of the 6 cottage severances which had been requested were granted. However, the stated opinion of J. Riley that no severances were environmentally acceptable was badly misrepresented in the decision. The decision stated instead that MNR considered the two lots would have "negligible impact".

8. Temagami. CBA/ABC has written to the Ontario premier advocating a moratorium on logging in old growth pine in Temagami. In spite of a long-standing interest in preserving the area, Premier Rae's government proposes more logging roads and harvesting. We have received information on the plan and an invitation to send suggestions.

9. Northern Wetland Evaluation. CBA/ABC was asked to comment on the evaluation process in N. Ontario and we have requested that proper biological expertise be brought to bear in the process, and also that biological values not be sacrificed for economic ones.

10. Canadian Council of Ecological Areas (CCEA). Eric Haber represented CBA/ABC at the September meeting of CCEA in Ottawa which discussed a national system for protecting ecological areas.

11. Termination of the curator position in Guelph Arboretum. Letters were sent to University of Guelph administrators to object to the termination of a research position at the Arboretum and to point out the importance of botanical research. Conservation Committee members have recommended that similar letters be sent to other Canadian institutions but to date no specific suggestions of positions or details have been received.

12. Leitrim Wetland, Ontario. CBA/ABC object-

(continued on next page)

(continued)

ed that, though no thorough study has been made on the site, it is evidently a Class 1 wetland. Approval has been granted to drain the area and unfortunately it has been zoned urban. However, P. Catling is involved as a CBA/ABC representative, and an OMB hearing which may resolve this now seems to be imminent.

13. Ontario Environmental Youth Corps. A government program which supports young people who work on environmental improvement projects was brought to our attention. Non-government organizations such as CBA/ABC may be sponsored to employ youth for periods of 18 weeks, usually in summer. Suggestions from members are welcome.

14. Student enquiries. The chair provided information to high school students who had written regarding conservation and the Carolinian Canada life zone. Also some advice was requested and given concerning prevention of gravel pits.

15. Transplanting orchids in Gros Morne, Newfoundland. Transplantation of Cypripedium reginae was suggested to be a poor alternative to re-routing a proposed road around an orchid population in Gros Morne National Park.

16. Killaly Woods, Ontario. A highly unusual forest, worthy of preservation, which has extremely high black maple representation and tree-size Cornus alternifolia was examined by P. Maycock and D. Fahselt. Quantitative data will be taken later in the season.

17. Ecological Reserves Legislation in Canada. The committee would like to contrast existing reserve legislation in Canada with that in the US, and is presently trying to locate relevant Canadian information. We have commended the Ontario Minister of National Resources on a bill he had introduced which recognized the importance of habitat to rare species, and encourage him to try to pass this bill.

18. Bull Pasture Plain, New Brunswick. A large peat company proposed harvesting in this impressive peat bog, but CBA/ABC regional representative, H. Hinds, has indicated that the proposal has not been approved. The company has been required by Environment New Brunswick to produce a very demanding Environmental

Impact Assessment, and so far this requirement has successfully discouraged development.

19. Noxious Weed Acts. At the last two meetings, the committee discussed short-comings in weed legislation and the fact that species such as Lythrum salicaria may not be listed. All provinces are urged to examine their own legislation, suggest changes and seek support of CBA/ABC in bringing about modifications.

20. Alliaria officinalis. CBA/ABC was contacted regarding means of controlling this invasive weed. Published information has been reviewed and some experiments were suggested to teachers in Ontario who wish to organize their students to work on the problem in badly affected local remnant forests.

21. Manitoulin Reserve, Ontario. CBA/ABC is arguing for Nature Reserve Status for part of unspoiled western Manitoulin and adjacent islands. At present, part of this area is for sale, but S. McKay-Kuja and other CBA/ABC members are exploring the possibility of preservation through donation from the corporate owner.

22. Burnt Lands Alvar, Ontario. This spectacular and botanically unique alvar on the Smith Falls limestone plain has been zoned for limestone extraction. The CBA/ABC has protested to the Minister of Natural Resources, because the area was lost largely due to inadequate protective legislation for recognized areas of natural and scientific interest.

23. Environmental Assessment (EA). CBA/ABC was invited to suggest improvements to the environmental assessment process in Ontario and we replied that we thought the forest industry should no longer be exempt from assessment, that the EA Act should be strengthened and reconciled with the stronger Planning Act (which often advocates development), and that enforcement should be more stringent.

24. Natural Heritage League. The chair attended the annual general meeting in Toronto in October to represent CBA/ABC and get an overview of recent developments.

25. "Re-taxing nature". In 1988 a tax reduction procedure, "un-taxing nature", was instituted in

(continued on next page)

(continued)

Ontario, partially relieving landowners of taxes on conservation lands. The Ontario government is now considering a severe cutback in tax rebate levels and CBA/ABC is objecting to this retrograde move.

September 1990 - May 1991
D. Fahselt, Chair



CFBS SCIENCE POLICY ACHIEVEMENTS AND IMPACTS 1985-1991

RESEARCH FUNDING

- **February 1985** -- **Supplementary budgets** are requested for the granting councils (GC).

** \$31m (MRC) and \$21m (NSERC) are allocated in April 1985.

- **April 1985** -- The incorporation of these supplementary budgets to the **base budgets** of the councils is requested. ** Implemented in February 1986 by the Government.

- **October 1985** -- **A long-term funding plan and an increased funding** are requested for the GCs.

** In Feb. 1986, Government announces a 4% increase in the budget of the GCs for 1986-87, commits money for five years equivalent to the base budget and introduces the matching policy allowing for a yearly 6% growth in their budget from 1986-87 to 1990-91.

- **April 1986** -- Major modifications to the draft **regulations on the matching policy** are requested to ensure easy access to maximal matching contributions for the GCs ** Finance Department implements 80% of our recommendations in Sept. 1986.

- **December 1986** -- **A \$300m in catch-up federal funds for university research** is requested followed by a request to implement the doubling in the base budget of the GCs as recommended in Dec. 1987 by the National Advisory Board on S & T (NABST) to Prime Minister Mulroney.

** The base budget of the GCs is increased by \$200m over five years (NSERC: \$103m; MRC: \$61m) starting in 1988-89.

- **April 1987** -- **Supplementary budgets** are requested for the GC's. ** A one time supplement to the matching policy (MRC: \$3m; NSERC: \$6m) is announced in August 1987).

- **January 1988** -- The implementation of the NABST's recommendation is requested and CFBS is a **keyplayer in rechanneling \$200m from the \$1.5 billion (Innovaction)** announced in Jan. 1988 towards the GCs: announced in May 1988.

- **May 1988** -- CFBS issues recommendation regarding the **application rules for the Networks of Centres of Excellence (\$240m announced in Jan. 1988)** before the House of Commons Committee on Research, Science and Technology.

** Six of our seven recommendations have been implemented and the Committee's report recommended the implementation of the NABST's recommendation to double the budgets of the GCs to ensure Canada has enough people to staff future centres of excellence.

- **April 1989** -- Request and suggestions for coherent educational and scientific policies that will ensure that **by year 2000 Gross Expenditures on Research and Development (GERD) in Canada** will amount to 2.5% of the Gross Domestic Product (GDP), including the research carried out by universities, the federal government and other performing sectors. ** Though the federal government hasn't yet adopted a national GERD target, both the Council of Science and Technology Ministers (Sept. 13, 1989), and the National Forum of Science and Technology Advisory Councils (Aug. 12, 1989; May 27, 1990), the provincial counterparts to the NABST, are investigating ways to achieve the proposed target within the deadline introduced by the CFBS; the proposed target has also been endorsed on Dec. 1990 by the all-party House of Commons on Industry, Science and Technology, with the year 2005 as the deadline.

- **December 1989** -- In agreement with the GCs, CFBS endorses the conclusions of the Final Report on the Evaluation of the Matching Policy and requests **that the matching contributions be rolled into the base budgets of the GCs** and that these budgets be doubled as recommended by the NABST. ** The Feb. 1990 federal budget

(continued on next page)

(continued)

announcements specifically excluded the GCs from the 5% restraint in annual growth for two years applying to other S & T activities, allowing a 9.0% and 9.7% budgetary increase for NSERC and MRC respectively to take place in 1990-91.

- March to October 1990 -- The maintenance of the former matching contributions (21% of the total GC's budget), their rolling into their base budget and the implementation of the NABST's recommendation are requested. ** The Feb. 26, 1991 federal budget confirms the maintenance of the former matching contributions into the budget of the GCs for 1991-92, and exempts the GCs for 1991-92 from the 3% cap imposed to all other S & T activities and most government expenditures, allowing a 3.7% increase in their base budget for 1991-92.

- October 1990 -- CFBS successfully mounts a letter-writing campaign which **prevents the diversion of NSERC's funds (\$90m/year) towards the support of scientific megaprojects** such as the TRIUMF-KAON factory.

DOUBLING INDUSTRY'S INVESTMENT IN CANADIAN R&D THROUGH BILL C-22, AN ACT TO AMEND THE PATENT ACT FOR PHARMACEUTICAL INDUSTRY

From 1984 until Bill C-22 received Royal sanction on Nov. 19, 1987, CFBS has been a keyplayer at every stage of the bill.

Before the introduction of the Bill: CFBS submitted a Brief to the Commission of Inquiry of the Pharmaceutical Industry (Eastman Commission) in August 1984, and issued a Position Paper on the report of the Commission in October 1985, after an extensive consultation with Heads of Departments of Pharmacology of 17 major Canadian universities and the 31 members of the Science Policy Committee of the CFBS. CFBS representatives met with the Minister of Consumer and Corporate Affairs to present the Position Paper on Oct. 29, 1985, and the first Draft Legislation was made public on July 27, 1986 by Minister Côté who was then replaced by Minister Harvie Andre.

Improving the Bill: CFBS submitted the following series of amendments to Bill C-22 on August

27, 1986 designed to link patent protection to the amount spent by pharmaceutical companies on R & D done in Canada: (i) that government's own projections for rate of growth in R & D investments be incorporated as essential mandatory increases, not as estimated increases

** (implemented); (ii) that the Patented Medicine Prices Review Board monitor the performance of the industry in R & D investments and make it, in addition to drug prices, the two criteria allowing for reduction or elimination of the exclusivity period ** (implemented); (iii) that a definition of research that focuses on the development of new knowledge directly relevant to new drugs be incorporated to the amendments ** (not implemented).

On January 12, 1987, CFBS appeared before the Legislative Committee of the House of Commons on Bill C-22 and called for an additional amendment that would compel pharmaceutical companies to report their investment in R & D on an individual basis rather than the industry as a whole. ** (implemented), allowing watchdogs to be functional. The second version of the bill, including CFBS' amendments, was tabled in the House of Commons on August 3, 1987 and sent to the Senate.

Rescuing the Bill: On June 2, 1987, CFBS appeared before the Special Committee of the Senate on Bill C-22 and urged the Committee to recommend the passage of the Bill. The stalling of the debate by the Senate jeopardized seriously the mere existence of the bill. In order to bring the debate on track, forty health organizations formed a coalition (Canadians for Health Coalition) to urge the passage of the bill. ** On Sept. 21, 1987, CFBS co-chaired a press conference in Ottawa on behalf of the Coalition, that turned out to be the decisive event in unlocking the debate and leading to the adoption of the bill.

Monitoring the impact of the Bill: Starting in 1988, the federal government transferred \$25 million per year for four years to provincial governments under section 31 of the Bill. In view of the fact that many provinces did not direct their total allocation to medical research as prescribed in Bill C-22, CFBS ran a letter writing campaign to ask premiers to comply. CFBS was also ** successful in asking that the Minister of Consumers and Corporate Affairs, the Hon. B. Valcourt write to the provincial re-

(continued on next page)

(continued)

cipients on March 13, 1989 inquiring whether these payments have been used for research and development related to medicine as Parliament directed they should be. ** The first two reports published by the Review Board demonstrated that the industry is in line with a doubling in their R & D investment to 10% of their total sales in Canada by 1995 and an increase in the price of drugs less than the inflation index.

THE USE OF ANIMALS IN RESEARCH: CFBS FIGHTS FOR IMPROVEMENTS TO ANIMAL CARE SYSTEM AND AGAINST FEDERAL LEGISLATION PROPOSED BY ANIMAL RIGHTS ADVOCATES

In addition to providing **support and counseling to individual researchers** through the organization of a workshop on the matter (Halifax, June 9, 1990) and the publication of a document on "Strategies for Response to the Animal Rights Movements", CFBS published three documents intended for non-scientists: *Experimental Animals: Their Indispensable Role in Bio-Medical Research* (July 1985), the CFBS Position Statement on the Use of Animals in Bio-medical Research and Teaching (July 1989) and the CFBS Comments on the Document "**Federal Legislation for Laboratory Animals**" published by the Canadian Federation of Humane Societies. ** So far, both the Ministry of National Health and Welfare (Nov. 6, 1989, Dec. 5, 1990), the New Democratic Party of Canada (Dec. 21, 1990) and the Pharmaceutical Manufacturers Association of Canada (Jan. 22, 1991) have expressed their agreement with the CFBS' assessment of the latter document. CFBS has been building support for the work done by the **Canadian Council on Animal Care (CCAC)** and continues to enlist the opposition of keyplayers to a potential federal legislation in the matter.

INCREASING THE PUBLIC AWARENESS OF SCIENCE: THE GORDIN KAPLAN AWARD, MEDIA RELATIONS TRAINING AND THE ESTABLISHMENT OF AN EFFICIENT COMMUNICATION NETWORK OF EXPERTS

CFBS was invited by the Royal Society of Canada to be one of the six scientific umbrella organizations that collaborated in the preparation and running of the **First National Workshop on Public Awareness for delegates of Scientific So-**

cieties held in March 1988 in Ottawa. ** CFBS has been a keyplayer in convincing officials at Industry, Science and Technology Canada (ISTC) to support the event which clearly identified the barriers to effective communication between Canadian scientists and the public.

The language barrier and the journalist vs scientist cultural gap was addressed through the June 15 1989 **CFBS Media Relations Workshop**.

** CFBS was successful in obtaining financial support from ISTC for this first workshop and three times as much funding for a second one to take place on June 8, 1991, designed to train key individuals appointed by member societies to negotiate interviews and act as advisors to their fellow scientist members of the 130 names **CFBS Roster of Scientists** initiated and disseminated for the first time in the fall of 1989. Finally, CFBS announced the first winner of the **Gordin Kaplan on the PAS** on October 18, 1990 as part of the CFBS' contribution to the First National S & T Week. CFBS has been successful in obtaining a three year commitment (\$2000 per year) from PMAC for the Gordin Kaplan Award. ** CFBS' initiatives on the PAS have been commended by the President of the Canadian Science Writers Association (Dec. 29, 1989), the Minister of Health and Welfare (Feb. 6, 1990), the Minister for Science (Oct. 9, 1989, March 8, 1991) and by the Chairman of the Advisory Committee on the PAS to the Royal Society of Canada: "CFBS has been a model for many of the things we have tried to induce other societies to attempt" (W. Neale, Aug. 1, 1990).

GOVERNMENTAL REGULATIONS

CFBS submitted comments on **Culture Collections** in Canada (Sept. 26, 1989) and on Draft Amendments Schedule K (infectious substances) and Schedule L (biomedical waste) to the **Transport of Dangerous Goods**. ** The incorporation of some of our recommendations to the Guidelines by Transport Department have been confirmed (March 7, 1990).

Through an active participation in the annual review of the **Canada Scholarships Program** of Industry, Science and Technology Canada in 1989 and 1990, CFBS obtained ** the inclusion of Pharmacology and Immunology to the list of eligible disciplines to the Program.

(continued on next page)

(continued)

FEDERAL SCIENCE, ENVIRONMENT AND SUSTAINABLE AGRICULTURE

On June 5th 1990, the CFBS issued for the first time public statements on the status and management of federal scientists and on sustainable development, before the Standing Committee of the House of Commons on Industry, Science and Technology.

CFBS participated in the National Wrap-Up Session on the Green Plan (Aug. 19-21, 1990). In line with the objectives of the Green Plan made public on December 11th, 1990, a discussion paper on a **Canadian Long-Term Ecosystem Research Program** has been drafted and used at a Dec. 14th 1990 meeting with the Scientific Advisor to the Minister of Environment. ** Officials at Environment Canada expressed marked interest for the Program. The Federation plans to request funding from NSERC to organize workshops necessary to fine-tune the program. CFBS is also working in collaboration with the Science Council of Canada to organize a **Workshop on Sustainable Agriculture** that would bring together agricultural economists, biologists and other keyplayers.

** In its Nov. 2nd, 1990 report, the Federal Science and Technology Expenditures Committee of the NABST made many recommendations that are in line with the ones issued by the CFBS on June 5th before parliamentarians, and to Prime Minister Mulroney on July 18th, 1990 through a brief jointly submitted with BCC and CCUBC titled **"The Status and Management of Federal Research Scientists: The Scientists' Perspective"**. An ad hoc Committee on Federal Science has been created by CFBS on Feb. 28th, 1991 to make an in depth analysis of the NABST's report and liaise with keyplayers in the matter.

COMMUNICATING WITH PARLIAMENTARIANS, THE GRANTING COUNCILS AND ACADEMIA

The creation of an all parties **Standing Committee of the House of Commons on Research, Science and Technology** was requested in June 1985. ** CFBS appeared three times (1986, 1988, 1990) before the Committee since its inception on Feb. 13th, 1986. The second major report of

the Committee, "Canada Must Compete" released on Dec. 20, 1990, reflects CFBS' recommendations to a large extent.

CFBS' relationships with the granting councils improved tremendously since the establishment of **liaison committees with both MRC and NSERC** in 1985. In addition to on-going contact through the Science Policy Office, policy issues and funding allocations are discussed formally twice a year by members of the committees. ** CFBS is invited to nominate representatives of the various committees of both agencies, and our comments and recommendations always receive due consideration.

CFBS revitalized and led **The National Consortium of Scientific and Educational Societies** from 1985 to 1990. The Consortium is an informal coalition representing 55,000 researchers and educators from various disciplines across Canada. The Consortium holds monthly meetings to discuss and take action relating to policies on research and postsecondary education, and organizes a yearly lobby of parliamentarians and government administrators.

- Clément Gauthier, Ph.D. Science Policy Officer, CFBS

NOTES FROM THE CFBS BOARD OF DIRECTORS MEETING, FEBRUARY 24, 1991

1. Mark Bisby is English Editor of CFBS Newsletter. A Co-Editor proficient in French is being sought.
2. CFBS has agreed upon 2 names to be nominated for MRC President.
3. Further discussion of an Executive Director for CFBS has been deferred due to financial restrictions.
4. CFBS will seek observer status but not membership on the Canadian Council of Animal Care.
5. CFBS was asked to make a response to the Spicer Commission on the Future of Canada. T. Clandinin, Pres.-Elect, is preparing it, and will comment on the role of the Federal and Provincial governments in funding research and higher education.
6. Canadian Phytopathological Society was accepted as a member.
7. Motions made that the preferred site for 1995

(continued on next page)

(continued)

CFBS Annual Meeting be Saskatoon, and that for 1996 be Ottawa. To be investigated further, invitations sought or confirmed, final decisions made, etc.

8. CFBS Standing Exhibitors Liaison Committee (sic) established, with responsibility for soliciting and planning exhibits and workshops. (NB. I do hope they are allowed to sit down sometimes!)

9. Pres.-Elect is investigating establishment of Corporate Liaison Committee to seek corporate memberships in CFBS. Noted that this committee must work with the Exhibitors Committee.

10. CFBS By-Laws approved as amended for submission to Consumer and Corporate Affairs.

11. The 33rd CFBS Annual Meeting in Halifax resulted in revenue of \$23,716 (down over previous years).

12. The 1990 Auditor's Report showed that CFBS had a surplus of \$28,562, but owed \$53,197 to the University of Ottawa for previous services and rentals. This debt should be paid off within the next 2 years. Cost saving measures for publishing the Newsletter were discussed and will be applied where possible.

13. Programme Committee has an objective to attract more "middle" scientists to CFBS Annual Meetings by providing more programmes, workshops, etc.

14. Terms of Reference for the Equal Opportunities Committee were accepted. Each society is to appoint 1 member to the EOC for a 3-year term. Chairperson will be recommended by committee members to CFBS Board for appointment. One graduate student and one post-doctoral member will be co-opted on to EOC, and CFBS will pay the costs for them to attend one meeting per year. Individual societies to bear costs for their representative.

15. Science Policy Report was presented. Paul Catling suggested a summary be sent quarterly to Editors of newsletters of member societies so that members could be kept informed.

16. A workshop on the interface between research and teaching is planned by the Canadian Council of University Biological Chairmen (CCUBC) for the CFBS meeting in Victoria.

Sylvia Taylor

EDMONTON MEETING AWARDS

The following is a list of CBA/ABC Awards presented at the Banquet in Edmonton. A more complete writeup, citations and pictures will appear in the October issue of the Bulletin.

Lawson Medal:

Category A for a major piece of work:

George Argus

Category B for lifetime achievement:

Donald M Britton

Mary E. Elliott Award:

Keith Winterhalder

Weresub Award:

Myron L. Smith from Erindale College,
University of Toronto

Macoun Travel Bursary:

Ewa Mellerowicz from the Department
of Biology, University of New Brunswick.

Cinq-Mars Award:

This year's overall winner was **Godo Stoyke**, Department of Botany, University of Alberta, for his paper "Identification of sterile, subalpine *Phialocephala fortinii* - using restriction fragment length polymorphism of ribosomal DNA and axenic mycorrhizal synthesis with *Menziesia ferruginea*". The paper was coauthored with R. Currah and K. Egger.

As usual, the standard of presentation of student papers was very high, and there were three Honourable Mentions:

Guylaine Forest, Groupe de recherche en écologie forestière, Université du Québec à Montréal, "Démographie du genévrier de Virginie à sa limite boréal" coauthored with D. Gagnon.

Sheila M. Macfie, Department of Botany, University of Alberta, "Effects of manganese on chlorophyll content of *Triticum aestivum* (wheat)", coauthored with G. J. Taylor.

Ewa Mellerowicz, Department of Biology, University of New Brunswick, "Cytochemical evi-

(continued on next page)

(continued)

dence for the genomic instability in vascular cambium of *Abies balsamea*", coauthored with R. T. Riding and C. H. A. Little.

There were also a number of joint awards, which contributed to the general enjoyment of the meeting. The winners of the 5K Fun Run was **Usher Posluszny** for the men, and **Lorna Rollins** for the women. Congratulations for a great organizing job by the Race Director, Lol Maret and helpers Joe Booth, Mary Packer and Cory Nykiforuk all of the Department of Plant Science, University of Alberta. We all hope that this attempt at a Fun Run for CBA/ABC will not be the last and that we will get more people out next time.

The winners of the Photography contest were:

Black and White: **Linda Sealey** and **Martin Canny**, Department of Biology, Carleton University.

Colour: **Ernie Brodo**, Biosystematics Research Institute, Ottawa, **Greg Varney** and **Thomas Wilson**, Carleton University

Illustrations: **Kay Mohama**

Winners of the products of *Vitis*, for guessing the most number of NRC journal covers on the free bookmark were: **Greg O'Neill**, Department of Forest Sciences, University of British Columbia and **Sheila Macfie**, Department of Botany, University of Alberta.

CSPP/SCPV also presented its awards at the Banquet. The best student oral paper went to **Greg Varney**, Department of Biology, Carleton University "The branch roots of maize: are they important?", coauthored with **Martin Canny** and **Margaret McCully**. There was a poster winner, too, but I didn't catch the name. Winner of the Tree Physiology Prize was "**Dutch**" **Dumbroff**, of the Department of Biology, University of Waterloo, and The C. D. Nelson Award for outstanding research in plant physiology by a researcher under the age of 40 was **Vince de Luca**.

DEVELOPMENT COMMITTEE FORMED

This year, at the Annual Meeting of CBA/ABC, it was decided to strike a Development Committee, to be responsible for fundraising activities

of the Association. Specifically, this would be to help build up the Endowment Funds for the Macoun Travel Bursary, the Porsild Award, and any other future student awards. **David Cass**, Department of Botany, University of Alberta, and **Jean Gerrath**, Department of Horticultural Science, University of Guelph, agreed to serve on the committee. It is expected that two Directors will be involved, and the Treasurer, **Tim Dickinson**, will be an *ex officio* member. Our first priority is to solicit participation of other members of the Association who might wish to help in this long-term goal of the Association, and our second is to solicit fund-raising ideas from all members. You will be hearing more from us in future issues of the Bulletin.

Jean Gerrath



EDMONTON 1991

Impressions

This year's joint meeting of the CBA/ABC & CSPP/SCPV in Edmonton will probably be remembered by most of us for having one of the best recent collections of symposia. The list of speakers was truly impressive and the presentations stimulating. The social activities that were planned during the conference were also quite unique. Those of you who participated will certainly remember the sing-along at the barbecue after the Kurimoto tour, the Ukrainian feast followed by traditional dances punctuated with shrieks at the banquet.

After serving one year as a member of the board of directors of the CBA/ABC, this meeting reinforced many of my impressions about the association. It is more important than ever to participate in the growth of **our** botanical society. This can be done painlessly in several ways: (i) by making a special effort to recruit new members especially students, (ii) by attending CBA/ABC section meetings (i.e. ecology, structure & development, ...) at a conference, and (iii) by sending your written contributions to the bulletin. Remember, participation is the key to the success of our association!

La rencontre inter-société de l'ABC/CBA & de la SCPV/CSPP à Edmonton cette année sera reconnue par la plupart d'entre nous pour regrouper une des meilleurs et plus récentes collection de symposia. La liste des conférenciers invités

(continued on next page)

(continued)

était vraiment impressionnante et les présentations stimulantes. Les activités sociales planifiées durant la conférence étaient tout à fait uniques. Ceux d'entre vous qui ont participé se souviendront certainement des chants au barbecue après la visite organisée du jardin Kurimoto, et du festin ukrainien suivi de danses traditionnelles accentuées de cris aigus au banquet.

Après avoir servi en tant que directeur au sein de l'ABC/CBA pour un an, cette conférence a confirmé plusieurs de mes impressions de l'association. Il est encore plus important que jamais de participer à l'essor de notre société botanique. Ceci peu s'accomplir sans difficulté de plusieurs façons: (i) en invitant nos collègues (surtout les étudiant(e)s) à se joindre, (ii) en assistant aux réunions des sections de l'ABC/CBA (i.e. écologie, structure & développement, ...) à une conférence, et (iii) en faisant paraître vos contributions dans le bulletin. N'oubliez-pas, la participation est la clé du succès de notre association!

*Christian Lacroix
Department of Biology
University of Prince Edward Island*



CANADIAN JOURNAL OF BOTANY: EDITOR'S REPORT

The Canadian Journal of Botany has had a year of steady progress during which we have:

- introduced a 28 day time limit for revision
- accelerated publication time (382 days in 1989 down to 337 days in 1991)
- introduced a subject index
- started a programme of invited reviews
- returned to the photographic quality achieved before we were forced to change printers

Any improvements are the result of the commitment of both the Vancouver and Ottawa staff and of the outstanding work of the team of Associate Editors. It is to be expected that Associate Editors will retire. Some stay longer than others, but it is always sad to see the inevitable changes. Donald Barr, Brian Ellis, Don Harder, Martin Lechowicz, Vic Lieffers, Ian Reid, Robin South and Roy Turkington have retired since last year. Claude Richard will be stepping down

in September. The community owes them all a great big "thank-you". I am very pleased to welcome Nicole Benhamou, Mark Dale, Vince DeLuca, Paul G. Harrison, John Lott, Anwar Maun, Greg Taylor and Jim Traquair to the Editorial Board. I know that you can look forward to their excellent contributions to CJB.

The key question is "How well does CJB serve your needs?" Only you can answer that question, but we continue to work towards faster publication and increasing quality. We have a page limit of 2600 pages for 1991, which makes us the largest of the NRC Research Journals but means that we have less space than in previous years when we published up to 3400 pages. We are not consciously trying to reject more papers but we are trying to discourage 'baloney slicing' and bulk submission of chapters from doctoral theses!

The Guidelines for Review Articles are available. I will be happy to have any comments on the subject index which appeared in the December 1990 issue. I am responsible for all flaws and will be happy to hear of any glitches or ideas for improvement.

Iain E.P. Taylor



GARDEN NEWS:

MISSOURI BOTANICAL GARDEN NEWS

Flora of North America Project now includes mosses.

The Flora of North America project has added mosses and liverworts to its workplan. Previously, the Flora was to include only the higher plants in its catalog of all the plants growing wild in North America. This is the first reference work ever to bring together information on all North American plants. The project will take at least the next 10 years to complete, and is projected to produce 13 volumes detailing approximately 20,000 plant species of the region. In addition, the project is developing a computerized database to be integrated into the floristic databases for other regions. Volume 1 of the Flora, to be published this year, contains descriptions of ferns, fern allies, and gymnosperms as well as a series of introductory chapters covering the vegetational, climatic, and geological history of the North American conti-

(continued on next page)

(continued)

nent. The publisher is Oxford University Press.

MONTREAL BOTANIC GARDEN NEWS

Volume 15, number 2 of the Botanic Garden's quarterly publication, *Quatre-Temps*, is devoted to the newly-opened Chinese Garden. It features articles on the conception of the garden, the importance of gardens in China, the plants used, and details of the actual building of the garden itself. Next time members are in Montreal, they should plan to include a visit to this new part of the Garden.

POSITIONS OPEN:

Poste offert

Stagiaire postdoctoral (\$26K/an) pour étudier les paramètres de bouturage du peuplier baumier et du peuplier faux-tremble et/ou le statut hydrique de transplants de ces espèces, en milieu subarctique. Le (la) candidat(e) sera intégré(e) à une équipe de recherche sur la restauration des sites perturbés au Québec nordique. Le Centre d'études nordiques maintient une station de recherche ouverte à l'année et une serre que est en opération de juin à septembre, dans le village de Whapmagoostui-Kuujuarapik (Nouveau-Québec). Faire parvenir (avant le 1 septembre 1991) votre CV, ainsi que le nom de trois personnes pouvant fournir des références à: Gilles Houle, Centre d'études nordiques, Université Laval, Sainte-Foy, Québec G1K 7P4.

University of Saskatchewan, Department of Biology, Women's Faculty Awards

The Department of Biology, University of Saskatchewan, invites applications for nomination for NSERC Women's Faculty Awards. In compliance with NSERC guidelines, the applicant must be a female Canadian citizen or landed immigrant. A Ph.D. is required and postdoctoral experience is preferred.

Preferred areas of research are molecular biology, mycology, aquatic biology, and plant ecology, but other areas are not excluded.

Applicants should submit a curriculum vitae, names and addresses of three referees, a statement of research interests, and available reprints to: R.J.F. Smith, Head, Department of Bi-

ology, University of Saskatchewan, Saskatchewan, Canada, S7N 0W0, by July 20, 1991.

Preliminary inquiries are welcome:

Phone: (306)966-4400

Fax: (306) 966-4461

E-mail: SMITHR@SASK.USASK.CA.

NSERC - Women's Faculty Award in Plant Biology

University of Alberta - Department of Botany

The Department of Botany, University of Alberta invites applications for an N.S.E.R.C. Women's Faculty Award, an award directed toward Canadian citizens and landed immigrants living in Canada or abroad. We are interested in individuals with a strong commitment to excellence in teaching and research, and who will develop an active research program to complement existing strengths in the Department. **We are prepared to sponsor an applicant in any area of plant biology.**

The University of Alberta is committed to the principle of equality in employment. The University encourages applications from aboriginal persons, disabled persons and members of visible minorities. Interested applicants should submit a resume, a statement of research interests, the names of three referees and three copies of up to five published papers that best exemplify the candidate's interests. Completed applications should be mailed to Dr. Gregory J. Taylor, Chairman, Positions Committee, Department of Botany, University of Alberta, Edmonton, Alberta, T6G 2E9, Canada. Review of applications will begin August 1, 1991.

NSERC Women's Faculty Awards Botany Department, University of British Columbia

The Botany Department of the University of British Columbia is prepared to sponsor a candidate for an NSERC Faculty Women's Award.

The programme of Women's Faculty Awards is intended to expand career opportunities in an academic setting for a select number of very promising women researchers in the natural sciences and engineering. Preference will be given to nominees who have not had more than

(continued on next page)

(continued)

five years of experience following receipt of the Ph.D., but consideration will be given to absences from science for family-related reasons.

Therefore we invite applications from qualified Canadian women botanists with a proven record in any area of botanical research. The successful candidate will have the endorsement of the Botany Department and the University of British Columbia, and then enter a competition run by NSERC. The appointment would be salaried at the assistant professor level, starting in 1992. A tenure track position could be made available to a suitable applicant.

Applicants should submit their curriculum vitae, a brief statement of research interests, and ask three people to send letters of reference directly, to:

Dr. David H. Turpin, Head
Botany Department, University of British Columbia
#3529-6270 University Boulevard
Vancouver, B.C. V6T 1Z4

Closing date for the receipt of all this material is August 31, 1991.

Post-doctoral Position in Conifer Biotechnology

A post-doctoral position is available beginning September 1st, 1991 to work on micropropagation of jack pine (*Pinus banksiana* Lamb.). Expertise in tissue culture is essential. Support for this project is for 3 years; salary will be based on NSERC rates \$24 000 for the first year).

Applicants should send a curriculum vitae, summary of research interests and two letters of recommendation to:

Dr. Sylvie Laliberté
GREF
Département des sciences biologiques
Université du Québec à Montréal
C.P. 8888, Succ. A, Montréal, Québec
Canada H3C 3P8

Phone: (514) 987-3963
Fax: (514) 987-4647

Poste de Stagiaire Post-doctoral en Biotechnologie des Conifères

Un poste de stagiaire post-doctoral est offert pour le 1er septembre 1991, dans le cadre d'un projet impliquant la micropropagation du pin gris (*Pinus banksiana* Lamb.). De l'expérience en culture *in vitro* est requise. Ce projet sera financé pendant trois ans, et le stagiaire sera rémunéré selon les normes du CRSNG (24 000\$ la première année).

Les candidats-es doivent faire parvenir leur curriculum vitae, un résumé de leurs intérêts en recherche, ainsi que deux lettres de recommandation à:

Dr. Sylvie Laliberté
GREF
Département des sciences biologiques
Université du Québec à Montréal
C.P. 8888, Succ. A, Montréal, Québec
Canada H3C 3P8

Station de biologie des Laurentides Université de Montréal

Poste de Stagiaire Postdoctoral ou Chercheur Invité disponible à la Station de biologie des Laurentides de l'Université de Montréal. La préférence sera accordée aux candidat(e)s possédant des compétences en écologie comparative des écosystèmes terrestres et aquatiques. La connaissance des méthodes quantitatives et de l'écologie des écosystèmes du bouclier canadien est jugée essentielle. La capacité de travailler en français ou la volonté d'acquérir cette capacité est aussi importante. *Conformément aux exigences d'Immigration Canada, la priorité sera accordée aux citoyens canadiens ainsi qu'aux immigrants reçus.* Veuillez faire parvenir votre curriculum vitae, des tirés-à-part des publications pertinentes et les noms et adresses de trois références avant le 15 juillet 1991 à: Dr. John A. Downing, Directeur, Station de biologie des Laurentides, Université de Montréal, 440 avenue du Lac Croche, CP 159, St-Hippolyte, Québec, Canada G0R 1P0.

Postdoctoral Fellow or Visiting Scientist sought by the Station de biologie des Laurentides de l'Université de Montréal. Preference will be given to candidates with competence in the comparative ecology of aquatic and terrestrial eco-

(continued on next page)

(continued)

systems. A strong quantitative approach and previous experience with the ecology of Canadian Shield ecosystems is essential. An ability to work in the French language, or a willingness to acquire this ability is also important. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.* Please send curriculum vitae, reprints of pertinent publications and the names and addresses of three references by 15 July 1991 to: Dr. John A. Downing, Directeur, Station de biologie des Laurentides, Université de Montréal, 440 avenue du Lac Croche, CP 159, St-Hippolyte, Québec, Canada G0R 1P0.

NEW PUBLICATIONS:

Handling Agricultural Materials.

This new, seven volume series replaces *The Canadian Agricultural Materials Handling Manual*, published in 1979. The series is primarily for engineers, but Volume 6, "Storage and Conditioning of Grain and Forage" may be of interest to those members with agricultural connections. The average cost per volume is about \$6.50. For more information, write: Canada Communication Group-Publishing, Ottawa, Canada K1A 0S9.

Canadian Museum of Nature/ Musée canadien de la nature

Syllogeus 65

The Rare Vascular Plants of the Island of Newfoundland/Les plantes vasculaires rares de l'île de Terre Neuve by A. Bouchard, S. Hay, L. Brouillet, M. Jean and I. Saucier. Price Cdn \$7.95.

Syllogeus 67

The Rare Vascular Plants of Prince Edward Island by R. Day and P. Catling. Price Cdn \$4.95.

Both of these recent publications may be obtained from the Canadian Museum of Nature, Direct Mail Section, P. O. Box 3443, Station D, Ottawa, Ont. K1P 6P4.

Mushrooms of Western Canada by Helene M. E. Schalkwijk-Barendsen

This comprehensive field guide to the mushrooms of western Canada and the Pacific northwest covers areas from Manitoba to the Pacific Coast, and from the Yukon to California. It illustrates and provides scientific information for over 500 species. The treatment for each species includes habitat, distribution, identifying characteristics, and edibility. The author/illustrator was the 1991 Weresub lecturer in Edmonton. The book is available for \$19.95 + \$1.50 shipping and handling charges (U.S. and overseas residents add \$3.00 Cdn per copy) from: Lone Pine Publishing, #206, 10426-81 Ave, Edmonton, Alberta, Canada T6E 1X5.

The Green List: A Guide to Canadian Environmental Organizations and Agencies. 510 pp. Cost (incl. postage & handling) \$50.

To order, write to: Canadian Environmental Network.

P. O. Box 1289,
Stn. B, Ottawa, ON K1P 5R3

La liste verte: Le répertoire environnemental du Canada. 510 pages. Prix: (manutention et affranchissement compris) 50\$.

Commander, adressez-vous au: Réseau canadien de l'environnement

C.P. 1289,
Succ. B., Ottawa (Ont.) K1P 5R3.

Guide des Crucifères sauvages de l'est du Canada (Québec, Ontario et Maritimes) par André Saborin. Rédigé en collaboration avec Michel Bertrand, Pierre Auger, Monique Bonkowski et Denis Paquette. 1991.

Ce travail fut entrepris dans le cadre du Jardin Botanique de Montréal.

NEWS OF MEMBERS:

Dr. Robin Scribailo, who is currently a postdoctoral fellow with Dr. Judith and Art Hilliker in the Botany, and Molecular Biology and Genetics Departments at the University of Guelph, will be taking up a position as Assistant Professor at Purdue University. His new address, as of Aug. 1, is:

Dr. Robin Scribailo
Purdue University
North Central Campus
Westville, Indiana 46391
U.S.A.

Dr. Stephen R. Downie has accepted a faculty position in the Department of Biology at the University of Illinois at Urbana-Champaign. His research interest is in plant molecular systematics and his appointment will begin January 1992.



NATIONAL CONFERENCE THE LAW OF BIOTECHNOLOGY October 31 - November 1, 1991 Calgary, Alberta

The Environmental Law Centre is holding a conference which will examine biotechnology law from cradle to grave. Experts from Canada and the United States will offer a comprehensive review of federal, provincial and municipal regulatory schemes applicable to biotechnology. Legal issues relating to patenting, ethics, environmental and health impacts, socio economic impacts and commercial transactions will also be addressed.

This conference will be of interest to biotechnology companies, scientists, regulators, lawyers and environmentalists. The conference fee will be less than \$450 with student rates and some scholarships available. For more information please contact:

Environmental Law Centre
201, 10350 - 124 Street
Edmonton, Alberta T5N 3V9
Phone: (403) 482-4891 or
Alberta Toll Free: 1-800-661-4238.

Interim Treasurer's Report - 11 July 1991

Please note the number to the right of your name on your Bulletin mailing label. These have now been updated and should reflect the last year for which you have paid dues: 90, 1989/90; 91, 1990/91; 92, 1991/92. If you last paid dues for 1989/90, please pay your arrears for 1990/91. Membership renewal forms for 1991/92 will be sent out in fall 1991.

Summary Financial Report for 1990/91

1989/90 Surplus: \$30,931.17

1990/91 Net income:

Membership (see notes below)

1989/90 Dues	\$ 359.72
150 Full (Ph.D)	3,750.00
30 Full (non-Ph.D.)	750.00
34 Students	340.00
26 Retired	260.00
2 Life	nil
Partial payments	152.00

1989/90 AGM Profit	3,510.98
Bulletin Subscriptions	250.04
Interest	2,321.98
Other	<u>387.08</u>
	\$12,081.80

1990/91 Net expenses:

Expenses paid	5,274.62
Liabilities against 91/92	<u>1,089.00</u>
	\$6,363.62

1990/91 Net Surplus \$5,718.18

1990/91 Total Surplus \$36,649.35

The table below demonstrates that during 1990/91 (actually through mid-July 1991) CBA/ABC lost almost a third of its 1989/90 membership, without comparable increase in new members. This attrition is probably due at least in part to the increased fees resulting from CBA/ABC membership in CFBS at a time when the benefits of that membership are not yet widely understood.

<u>1989/90 Membership</u>		<u>Renewed for 1990/91</u>		<u>New Members 1990/9</u> <u>and 1991/92 to date</u>	<u>Attrition(%)</u>
Regular	241	(Ph.D.)	147	11	66(27)
		(non-Ph.D.)	28	2	
Student	48		31	11	18(38)
Retired	<u>29</u>		<u>29</u>	0	00
Total	318		235	24	84(26)

OFFICERS OF CBA/ABC 1990/91

President:	Dr. Paul M. Catling Agriculture Canada Biosystematics Research Centre, Ottawa (613) 996-1665	Directors: (Retiring 1992) Dr. James Traquair Agriculture Canada, Harrow (519) 738-2251
Past-President:	Dr. I. M. Brodo Canadian Museum of Nature, Ottawa Botany Division (613) 990-6446	Dr. Christian Lacroix Dept. of Biology, Univ. of P.E.I. (902) 566-0301
Vice-President:	Dr. R. Currah Dept. of Botany Univ. of Alberta (403) 492-7010	Dr. Randy Currah Dept. of Botany, Univ. of Alberta (403) 492-7010
President-Elect:	Dr. U. Posluszny Dept. of Botany Univ. of Guelph (519) 824-4120 ext 2745	(Retiring 1993) Dr. Randall Bayer Univ. of Alberta (403) 492-7567
Secretary:	Mrs. Sylvia Taylor U. B. C. Botanical Garden (604) 822-4188	Dr. Daniel Gagnon Univ. de Qué. à Montréal (902) 566-0301
Treasurer:	Dr. Tim Dickinson Royal Ontario Museum (416) 586-8032	Dr. Roy Turkington Univ. of British Columbia (604) 228-2141
Editor Bulletin: (ex. off.)	Usher Posluszny Univ. of Guelph (519) 824-4120 ext. 6000	Archivist: Dr. Erich Haber Canadian Museum of Nature, Ottawa (613) 990-6452

THE LAST WORD: (Jean M. Gerrath)

As Usher stated at the beginning of this issue, we have fewer members this year than last. However, our new Development Committee plans to build a more secure financial base for the Association, that can weather short term fluctuations in membership. Our fund-raising ideas range from silent auctions to corporate sponsorship. Your ideas will also be important in the success of this group. Send them to me, as you think of them. At the same time, encourage your colleagues to join (re-join) CBA/ABC.

NOTE: The deadline for the October issue is September 15.

The Bulletin of the Canadian Botanical Association:

EDITOR: DR. U. POSLUSZNY
DEPARTMENT OF BOTANY
UNIVERSITY OF GUELPH
GUELPH, ONT. N1G 2W1
(519) 824-4120 EXT. 2745
NETNORTH BOTUSH@VM.UOGUELPH.CA
FAX (519) 767-1991

Issued quarterly in January, April, July and October, and sent to all members of the Association. Non-members may subscribe at a price of \$25.00 per annum (\$5.00 per issue) post free. Cheques or money orders (in Canadian funds ONLY) should be made payable to "The Canadian Botanical Association" and addressed to the Editor.

Advertisements for **Positions Open and Classified** categories may be placed at a cost of \$10.00 Cdn. per published column inch. Advertisements by individual members of **Post-doctoral Opportunities and Positions Wanted** are carried free

To ensure prompt delivery of the Bulletin please notify the Treasurer (**Dr. Tim Dickinson, Botany Department, Royal Ontario Museum, 100 Queen's Park, Toronto, ON M5S 2C6, Tel. (416) 586-8032, FAX (416) 586-5863, BITNET: TIM@UTSTAT.UTORONTO**) of any change of address as soon as possible.