

THE CANADIAN BOTANICAL ASSOCIATION

# BULLETIN

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VANCOUVER

## PATRON

HER EXCELLENCY THE RIGHT HONOURABLE JEANNE SAUVE,  
P.C., C.C., C.M.M., C.D., GOVERNOR GENERAL OF CANADA

## PATRON

SON EXCELLENCE LA TRES HONORABLE JEANNE SAUVE,  
C.P., C.C., C.M.M., C.D., GOUVERNEUR GENERALE DU CANADA

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## NEWS FROM THE SECTIONS

### Ecology Section

Chairman: Keith Winterhalder  
Dept. of Biology  
Laurentian Univ., Sudbury,  
Ontario P3E 2C6  
(705) 675-1151, Ext 572

#### MINUTES OF ECOLOGY SECTION MEETING

1. Paul Maycock reported on INTECOL (International Organization for Ecology) and plans for the next International Congress of Ecology in Japan in 1990. The first circular was sent out some time ago. Anyone who has not received it can write to :

Dr. A Miyawaki  
Institute of Vegetation Science  
Yokohama National University  
Yokohama, Japan

Approximately 100 full day symposia are expected and 90 symposia have already been suggested. There will probably be no contributed papers (i.e. no papers outside of symposia papers), but extensive poster sessions are anticipated. Anyone with ideas for symposia should send title and suggestions for speakers to:

Dr. Paul Maycock  
Department of Botany  
Erindale College  
University of Toronto  
Mississauga, Ontario

The United Kingdom will be much involved with the 1990 meetings and it is expected to be a good scientific and cultural experience. Unfortunately there is little money to support symposium speakers from North America, most of the available money being used to support speakers from underdeveloped countries.

The organizers are trying to provide inexpensive accommodation through the "homestay" program (which involves staying in peoples homes - as might easily be imagined). There are also possibilities for inexpensive accommodation in temples which have extensive simple dormitories, where people sleep on mats and receive 2 meals a day (at 5:00 a.m. and 6:00 p.m.) for the daily \$25.00 charge. The toilet and bathing facilities are usually adequate. Given the possibility of reasonable accommodation and the fact that flights from Canada can cost only a little more than it costs to fly across Canada (\$1300 return from Toronto to Japan), ecologists should think positively about going to Japan.

2. Diane Fahselt brought the section up-to-date on the work of the Conservation Committee. A report has

been provided to the executive of the C.B.A. In addition to what is noted in this report C.B.A. will have representatives at hearing concerning the Creditview wetland complex near Toronto, and at hearings concerning possible future alterations to the Matchedash lake shoreline. Some complications have arisen with regard to the establishment of South Moresby Island National Park. Two others issues have been brought to the attention of the committee, one concerning the Westmeath area near Ottawa, the other concerning a bog at low elevation in the Fraser River Valley. It is expected that action will be taken on both of these issues.

It is anticipated that a joint symposium with the Canadian Centre for Plant Conservation (Devonian Botanic Garden, University of Alberta) will be held in 1989. (Action Winterhalder).

Some changes to the Conservation Committee have been recommended to C.B.A. executive. These changes result in 1 member from British Columbia, 1 from Saskatchewan, 2-3 from Ontario where activity is centered and 1 from Quebec.

3. Three members of the Ecology Section executive were replaced with the following:

Paul Catling as Secretary  
Agriculture Canada  
Biosystematics Research Centre  
Central Experimental Farm  
OTTAWA K1A 0C6

Norm Kenkel  
Department of Botany  
University of Manitoba  
WINNIPEG, Manitoba  
R3T 2N2

V. Lieffers  
Department of Forest Science  
University of Alberta  
EDMONTON, Alberta  
T6G 2H4

4. Field trips to the Sudbury area and to Manitoulin Island are to be sponsored by the ecology section (action Morton & Winterhalder).

5. Joseph Svoboda offered to organize a symposium on arctic ecology for the section (action Svoboda).

6. Concern was expressed by section members over field trip expenses at annual meetings and it was generally agreed that expenses should be minimized.

7. Peter Beckett kindly agreed to act as Lionel Cinq Mars judge for the 1989 meetings. He will choose an alternate (action Beckett).

8. Paul Maycock, John Morton and Jennifer Shay will form a science policy committee of the ecology section to determine what can be done regarding the decline in support for vegetation ecology (action Morton, Maycock and Shay).

#### General Section

Chairman: D. R. Lee Dept. Biology  
Memorial Univ., St. Johns,  
Newfoundland,  
A1B 3X9  
(709) 737-4339

#### Mycology Section

Chairman: Randy Currah  
Devonian Botanical Garden  
Univ. of Alberta  
Edmonton, Alberta  
T6G 2E9  
(403) 987-3054

#### MINUTES OF THE BUSINESS MEETING OF THE MYCOLOGY SECTION

1. Dr. Alex Olchowecki (Univ. Manitoba) volunteered to act as mycology representative on the judging panel for the Lionel Cinq-Mars (best student paper) award in 1989; Jim Traquair will serve as alternate.

2. Dr. Randy Currah (Devonian Botanical Garden, Edmonton) agreed to serve as the new chairman of the section in 1989.

3. The mycology section will not sponsor a fungal symposium for the Toronto meeting with AIBS in 1989; however, a special session on aquatic fungi was suggested for the Windsor meeting in 1990.

4. Dr. Scott Redhead (Biosystematics Research Center, Ottawa) was recommended as the Weresub Lecturer for the Toronto meeting in 1989; mycogeography was suggested as a possible topic.

#### MYCOLOGY AT THE CBA/CSPP MEETING IN VICTORIA

Dr. Charles Dorworth at the Pacific Forestry Centre in Victoria organized an impressive and very interesting symposium entitled "Contemporary Issues in Fungal Physiology". Physiologists working with fungi are hard to find in Canada, but Charles was successful in obtaining the cooperation and support of his microbiologist and phytopathologist colleagues.

Dr. Robert Hall from the University of Guelph set the stage with a beautifully illustrated talk on the physiology and control of Sclerotinia sclerotiorum. He outlined the importance

of physiological information in the design of various control measures for white mold caused by this fungus. Dr. Michael Shaw from the University of British Columbia outlined advances in the artificial culture of Melampsora lini (flax rust fungus) and its potential use in molecular genetics and the study of host-pathogen interactions. Dr. R. Miller, microbiologist at UBC, discussed the use of Trichoderma for gene cloning and studies of cellulase production. Dr. P.M. Townsley, food scientist at UBC, described dipol electrofusion of fungal protoplasts. Dr. Gary Hunt from the Balco Reforestation Centre in Kamloops ended the session by outlining the usefulness of fungal physiology in the practical application of ectomycorrhizal fungi.

Dr. Dennis Parkinson from the University of Calgary's Kananaskis Centre for Environmental Studies delivered the L. K. Weresub lecture on June 6. The title of his talk was "Fungi and Forest Ecosystems". This subject fit into the general theme for the conference, "The Biology of Trees".

Dr. Parkinson clearly demonstrated that fungi have profound effects on the forest ecosystem, not only as parasites but also as saprobes with major contributions to nutrient cycling. He pointed out that fungi are preeminent in the organic layer on the forest floor as colonizers and decomposers of leaf litter and wood. There are successions of different fungi and interactions with other microbes and soil microfauna as decomposition proceeds. Competition and synergism between fungi under forest environments are difficult to duplicate in vitro. Throughout, he alluded to the problems in methodology that have frustrated fungal ecologists. However, remarkable advances have been made in this area since World War II.

Born in Bolton, England, Dr. Parkinson obtained his B.Sc. from the University of London and his Ph.D. from the University of Nottingham. After lecturing in botany at the Royal Holloway College in London and Liverpool University, he came to Canada as a mycology professor at the University of Waterloo. He moved to the University of Calgary in 1967 where he was Head of the Department of Biology for 13 years. Currently, he is Director of the Kananaskis Centre for Environmental Studies at U. of C.

Dr. Parkinson's eloquent and enthusiastic lecture was well-attended and a fitting tribute to the memory of Luella Weresub.

There was an interesting range of mycological topics covered in the contributed papers and posters with most major groups of fungi being represented. In the basidiomycete department, Hugues

Massicotte delivered an enthusiastic report on his work with morphogenesis of hyphae of Laccaria bicolor as they form mycorrhizae with Betula alleghaniensis and Pinus resinosa. (Massicotte, Melville and Peterson). He also included some impressive light and scanning electron photomicrographs of some early stages in fruit body formation in this fungus.

Zygomycetes were represented in Larry Peterson's paper on the early stages of colonization of Allium porrum by Glomus versiforme (Peterson, Garriock and Ackerley). He included also some pictures of the intriguing bacterium like organelles that are found in the appressoria and coils of the hyphal phase of the developing VA mycorrhiza.

For Ascomycetes, we had papers on Pyrenomycetes (Neurospora biochemistry: Cossins, Chan and Dale), Discomycetes (Rhizocarpon ecology: John, Helvella taxonomy: Abbott and Currah), and Plectomycetes (Aphanoascus and Keratinophyton taxonomy: Currah and Armstrong). Elizabeth John's paper on niche separation in the lichenized disco Rhizocarpon included some impressive data supporting her hypothesis that the distribution of morphologically similar species in this genus reflects finely developed ecophysiological adaptations. What appears as just another flat rock to you and I is actually a diverse array of microhabitats for the species of Rhizocarpon. Sean Abbott neatly summarized the species of Helvella that occur in Alberta and described a new species from the southern part of the province.

Poster papers on mycological topics ranged from those dealing with hyphomycetes (Sporothrix, Fusarium: Traquair, Shaw and Jarvis, Kasenberg and Traquair) to the ecology and phenology of basidiomycetes (Nantel and Neumann), and orchid mycorrhizae (Smreciu and Currah).

James Traquair and Randy Currah

#### Phycology Section

Chairman: Lewis M. Brown  
Dept. Plant Scis.,  
Univ. Western Ontario  
London, Ontario  
N6A 5B7  
(519) 679-2838

#### Structure & Development Section

Chairman: R. T. Riding  
Dept. of Botany  
Univ. of New Brunswick  
Fredericton, N.B. E3B 6E1  
(506) 453-4582

#### Systematics & Phytogeography Section

Chairman: Paul Catling  
Agricul. Can.  
Biosystematics Res. Centre  
Saunders Bldg. C.E.F.  
Ottawa, Ontario  
K1A 0C6

#### MINUTES OF THE ANNUAL MEETING

1. The section will sponsor two symposia at the 1989 meetings in Toronto. A Symposium on the Flora of North America project co-sponsored with the American Society of Plant Taxonomists will be organized by Luc Brouillet and Nancy Morin. A symposium on molecular systematics of economically important plants will be organized by Suzanne Warwick and Randy Bayer. (action Brouillet, Morin, Warwick, Bayer).

2. The progress of preparation of regional floristic bibliographies was reviewed. Since the Fredericton meetings in 1984 when the Section determined to promote the production of bibliographies, they have been produced for all provinces (except Quebec) in published or manuscript form. It was noted that computerization of these bibliographies is desirable. A floristic bibliography for Quebec will be encouraged (action Brouillet).

3. The executive was re-elected for a second two-year term with Paul Catling as chairman, Randy Bayer, John Bain and Julie Hrapko as executive. Moved by C.C. Chinappa, seconded by John Morton. Unanimous.

4. Members of the section noted that positions of systematists are being lost at many universities in Canada, and that many herbarium collections are less supported than they have been in the past. These observations were a matter of concern to all members because maintenance of herbaria, classification of plants and basic knowledge of organisms are linked and essential aspects of biology and related sciences. A committee including Luc Brouillet (co-ordinator), C.C. Chinappa and Jim Phipps was established to investigate further and report to the 1989 section meeting, at which time some action is expected to be taken (action Brouillet, Chinappa, Phipps).

5. The executive of the section was charged with the job of determining other new directions and activities for the section to develop (action Catling, Bayer, Bain, Hrapko).

#### CALL FOR NOMINATIONS OF OFFICERS AND DIRECTORS FOR CBA/ABC 1989-1990

At the Annual Meeting at the University of Victoria a call for

nomination for the following members of the Board of Directors was made:

1. President-elect (1989 - 1990)
2. Secretary (1989 - 1990)
3. 3 Directors (1989 - 1991)

One of the Directors must reside east of the Ontario-Manitoba Provincial boundary, one west of the boundary, and one at - large.

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 invites retourner chaque mise en nomination au secretaire pour le 31 decembre de cette annee. Toute nomination doit etre accompagnee du consentement ecrit de la personne nommee, laquelle doit etre membre regulier en regle. Chaque mise en nomination doit porter la signature d'au moins trois membres en regale.

All nominations must be delivered in writing no later than December 31, 1988, to the Secretary of the Association:

Mrs. Sylvia Taylor  
Botanical Garden  
Univ. of British Columbia  
Vancouver, B.C.  
V6T 1W5

On behalf of Nominating Committee

K. E. Denford, Chairman

#### CALL FOR NOMINATIONS - AWARDS 1989

Each year the CBA/ABC invites its entire membership to make nominations for the George Lawson Medals and for the Mary E. Elliot Service Award. The Awards Committee is now also responsible for forwarding nominations for two awards by other organizations. However, these other nominations have to be forwarded during late Fall, and the call for nominations from the membership was therefore published in the July issue of the Bulletin. Please refer to that issue for the terms of reference for the BCC Gold Medal and the John and Alice Tyler Ecology/Energy Prize.

#### George Lawson Medal

The purpose of the award is to provide a collective and formal expression of the admiration and respect for botanists in Canada for the excellence of the contribution of an individual to Canadian botany. Any botanist working permanently in Canada or having spent the greater part of his/her career here is eligible.

In any year, a maximum of two (2) awards may be made, one in each of the two categories outlined below, although a single award, or no award, may be made as the Awards Committee judges

appropriate. The two categories are:

A. Recognition of the cumulative, distinguished contributions of a senior investigator and/or teacher and/or administrator who has worked in Canada for the greater part of his/her career, and whose influence has contributed notably to the advancement of Canadian botany.

B. A single contribution to botanical knowledge of outstanding distinction. Commonly this would take the form of a published paper, a series of papers, a monograph, or a book by a botanist at any stage of his/her professional career. The contribution should be of singular significance to the discipline at large.

In order that the Awards Committee may learn of botanists who are eligible to these awards, all members of CBA/ABC are invited to submit nominations, and to consult with their colleagues for suggestions. Nominations should be accompanied by a curriculum vitae, a clear statement of the nominee's contribution to botany in Canada, and as much documentation as possible. Letters by others supporting the nomination would also help the Awards Committee in reaching its decision.

#### Mary E. Elliot Service Award

This award was established in 1978 for meritorious service to the Canadian Botanical Association. The award may be made from time to time as the Awards Committee may recommend at its discretion.

Members of CBA/ABC are invited to submit nominations for this award to the Awards Committee, together with a curriculum vitae. A citation of approximately 100 words should accompany the nomination.

Nominations for the awards are kept on file for three years after submission, but nominators are requested to provide updated information for the second and third years. Will nominators of candidates for these Awards during the last two years (i.e., 1987 and 1988) please submit a curriculum vitae for their candidate if not included originally and also update the information as necessary.

Nominations for any of the above Awards (including the BCC Gold Medal and the Tyler Prize) should be submitted to the Chairman of the CBA/ABC Awards Committee before December 31, 1988, (October 31, 1988, for the outside awards) with all necessary documentation to:

Lawrence Peterson  
Dept. Botany  
Univ. of Guelph  
Guelph, Ontario  
N1G 2W1

## MEMBERSHIP RENEWAL (NEW FEES)

Membership renewal forms will be sent out to all members in November. The new renewal fee is \$25.00 dollars Canadian. The By-laws state that dues for the calendar year are due on or before January 1 each year.

The Treasurer has requested that all members renew as soon as possible, particularly when wishing to subscribe to one of the NRC journals.

If you have not received a renewal form by the beginning of January 1989, please notify the Treasurer immediately: Prof. Keith Winterhalder, Dept. Biology, Laurentian Univ., Sudbury, Ontario P3E 2C6.

## FUTURE MEETINGS OF CBA/ABC

1989 - Toronto, August 6-10  
1990 - Windsor, Ontario  
1991 - Edmonton, Alberta  
1992 - A volunteer institution is required.  
1993 - Calgary, Alberta

## NEW EDITORS

After almost three years and approaching the end of my term as the editor of the CBA/ABC Bulletin, I must say that overall my involvement in this project was a very rewarding experience. I am very grateful to the many members and friends that made possible the smooth accomplishment of my editorial duties.

Starting with the January issue, major changes come to editorial office. First of all, the new editor will be:

Dr. Usher Posluszny  
Dept. of Botany  
Univ. of Guelph  
Guelph, Ontario  
N1G 2W1  
(519) 824-4120. Ext 2745

Please do not forget to send from now on all the information for the Bulletin to the address above.

The second major change is that there will be an associate-Editor in the person of

Dr. Jean Mary Gerrath  
Same address as above

I had the opportunity of meeting my two new colleagues during the Victoria 88 Annual Meeting. Therefore, I know that the third change will concern a brand new format for the Bulletin.

My best wishes of success on their duties to the new editors.

LUIS OLIVEIRA

## CONSERVATION COMMITTEE - ANNUAL REPORT (June 1988)

### 1. Areas of Natural and Scientific Interest - Ontario

Comments were provided on Ministry of Natural Resources reports on life sciences areas in two site districts in Ontario.

### 2. Atlantic Coastal Canada

We wrote a letter of support to the World Wildlife Fund advocating a maritime protection program patterned after the Carolinian Canada program in Ontario.

### 3. Backus Woods - Ontario

The CBA has nominated Kevin Kavanagh to be a scientific representative on the newly forming Backus Advisory Committee, with Steve Varga as alternate. Both have considerable experience with the tract itself as well as with fund-raising to protect it.

### 4. Bruce National Park - Ontario

A press release from the Federal Environment Minister announced the establishment of the new national park, a step which has been advocated by the CBA since June 1986.

### 5. Carolinian Project at Camp Orenda - Ontario

At the request of the Girl Guides of Canada, advice was given (DF & PFM) regarding establishment of Carolinian tree species on agricultural land in one of their properties.

### 6. Carolinian Tree Dedication

A representative of CBA (DF) was invited to the dedication of a Magnolia acuminata tree in a public parkland in London, Ontario.

### 7. Creditview Swamp - Ontario

A letter of support was written on short notice to recommend that this recently recognized area be set aside and protected and a vegetational study carried out on it.

### 8. Inverhuron Provincial Park - Ontario

A letter was written to indicate there would likely be no problem in deregulating 0.4 ha which was a travelled road at the perimeter of the park.

### 9. Matchedash Lake - Ontario

In late 1987 we expressed concern about creation of several new waterfront building lots. We have now been asked to provide an expert witness to speak on behalf of Matchedash Lake at Ontario Municipal Board hearings in the summer of 1988.

### 10. Moosonee District - Ontario

The committee responded to a document containing background information used by the Ministry of Natural Resources for land use planning in the Hudson Bay lowland.

11. Skunk's Misery - Ontario

A critique was written on a proposed study of "fuelwood thinning" in this Area of Natural and Scientific Interest (ANSI).

12. Slate Islands Provincial Park - Ontario

We have been informed, in response to our earlier representation against mineral development, that development of the Slate Island Management Plan is temporarily "on hold".

13. South Moresby - British Columbia

The CBA was informed in a letter from Vander Zalm that a memorandum of understanding had been signed for the establishment of a National Park and a Maritime National Park.

14. Turkey Point Provincial Park - Ontario

We supported the Ministry of Natural Resources in its proposal to require a survey of private properties fronting on the public beach and to resolve the encroachment problem on public lands.

15. Destruction of Trees Committee - Northfolk Naturalists Club, Ontario

We provided support for the Norfolk Naturalists in their efforts to ensure protection from logging for rare tree species.

16. Botanically Significant Sites in Canada

The first in a series of articles recommended by the conservation committee has appeared in the Canadian Field - Naturalist; it concerns ecologically significant areas in Essex Co., Ontario.

17. Wetland Conservation

The chair responded to a questionnaire from the Univ. of Guelph regarding wetland conservation activities of the CBA.

18. Canadian Wildlife Service

The chair spoke to a consultant (an economist!) evaluating the aims and terms of reference of the CWS.

19. Transplantation Policy

Permission was given to the Canadian Council of Ecological Areas Newsletter, Canadian Plant Conservation Programme Newsletter, Clintonia, and the Natural Areas Journal to publish the CBA transplantation statement.

20. Plant Conservation Symposium

Discussion has taken place regarding a joint symposium with the Canadian Plant Conservation Program (Ambrose) probably to take place at the 1989 meeting in Toronto.

21. Canadian Institute of Forestry

To maintain contact between CBA & CIF a copy of the annual Conservation Committee report was sent to the Director of CIF.

22. Carolinian Canada

Our representative (DF) has participated in formulation of management philosophy, funding philosophy and fund allocation. CBA sent a donation of about \$500 from member contributions through the Bulletin.

23. Canadian Council on Ecological Areas

J. Shay was our representative at the last CCEA meeting.

24. Natural Heritage League

A preliminary response has been made to the NHL to help fund a natural heritage secretariat. A copy of the annual report of the CBA Conservation Committee was sent to the chairman of the League.

25. Ministry of Natural Resources - Ontario

The CBA commented favorably on positive steps made by MNR toward natural area conservation.

HIGHLIGHTS OF THE VICTORIA 88 MINUTES

Thanks were extended by the outgoing President (K. Denford) to all members of the Executive for their dedicated service during the past year.

The editor indicated that there was always shortage of material for publication in the April and July issues of the Bulletin and that book reviewers were also required.

The amount of money in the Endowment fund is increasing but additional donations are still required.

The BCC annual fee is set at \$2000.00 for next year. This means that members will not be paying the fee individually as they have in the past. Instead, this will be included as part of the annual membership in the CBA. A ballot on a fee increase for 1989 will be required.

Nominations were invited for the positions of President - Elect (1989-1990), Treasurer (1989-1991) and three Directors (1989-1991), of which one of whom must reside West of the Ontario - Manitoba border.

It was moved by K. Winterhalder and seconded by S. Taylor and approved that P.J. Beckett and J. Shorthouse be appointed auditors for 1988-89.

Other business

(a) Name for the Endowment Fund travel bursary - It was moved by B. Crins, seconded by R. Hebda and approved unanimously that the award be named in honor of John Macoun, an early Dominion



botanist who travelled extensively throughout Canada (see feature article).

(b) Membership drive - R. Hebda has agreed to compile a list of suggestions of ways of increasing membership and broadening our membership base. Any suggestions should be forwarded to him. It was suggested that any spare membership brochures should be distributed to university departments.

(c) IUBS - I. Tavor indicated that there was some renewed activity within this group. One of the priority areas for the next year will be to foster greater opportunities for exchange with foreign scientists.

The President (L. Peterson) raised the question of the increasing cost of the Awards, particularly the Elliot, and the Secretary (S. Taylor) was asked to look into changing the format of the Elliot award.

Question of publishing abstracts before the annual meeting has been raised again. The situation is fine for 1989, but needs to be looked at for future years. This raised the question of timing calls for paper submissions, and Denford reminded the Board about the How to Run a CBA/ABC Meeting guidelines produced by Jennifer Shay in 1977. Secretary to ensure that representative at host university gets guidelines early (at least 2 years in advance) and to check if J. Shay wants to and/or can update them.

Relationship between CBA/ABC and Canadian Journal of Botany - should CBA have the CJB as its official publication? Involves no financial cost but CBA would be recognized as sponsoring journal, with Society named on cover and input into editorial board. Denford will investigate further. It was noted that it is possible to advertize society meetings in CJB and we should ensure that CBA meetings are so advertized.

The President intends to do as much as possible to increase membership and inform students of the advantages of joining CBA, perhaps by making them more aware of the Cinq-Mars, travel bursaries, career opportunities, etc. Denford suggested Bulletin could publish listing of all bursaries, financial help, etc. available at North American universities for graduate students.

BCC report - M. Shaw, President

The BCC have established two new initiatives for 1988:

(a) A study of the role of federal research scientists in determining science policy. At present scientists are either not involved or reluctant to criticize the federal policies.

(b) Raise awareness of biological sciences among high school students.

BCC is also working to establish closer links with the Canadian Federation of Biological Sciences to increase its lobby effort since the annual budget of the BCC is not large enough to support a full time person in Ottawa). A larger group would be more effective in getting views accepted by government. A Memorandum of Intent has been passed to amalgamate the CFBS and the BCC by December 1, 1989. An information package will be sent to each member of the CBA explaining the implications of the proposed amalgamation.

IUBS - I. Taylor and R. South are our nominees.

Conservation Committee Report (D. Fahselt).

Sought Board approval for changes in committee because G. Ledingham retiring and Fahselt going on leave. Suggested P. Catling and S. Varga be appointed Co-Chairmen from January 1989 (with overlap with Fahselt), and R. Ogilvie and L. Brouillet be appointed to improve cross-Canada representation. Will report back in one year as to whether there will be any more changes. Committee structure proposed:

D. Fahselt (Chair to Jan. 1989; continues on committee)  
P. Catling (Co-Chairman from Jan 89)  
S. Varga (Co-Chairman from Jan 1989)  
G. W. Argus  
L. Brouillet  
V. Harms  
P. Maycock  
R. Ogilvie

#### THE JOHN MACOUN TRAVEL BURSARY

At its Annual General Meeting in June 1985, the CBA/ABC established an endowment fund, with the aim of providing travel bursaries to partially defray the costs of attending annual meetings by graduate students. These bursaries are awarded annually, on a competitive basis. The first series of travel bursaries was awarded at the Sudbury meeting in 1986.

CBA/ABC's awards are named to commemorate well known botanists who have contributed to the development of botany and/or the association in Canada (e.g. George Lawson, Mary E. Elliot, Lionel Cinq-Mars, and Luella K. Weresub). Prior to this year's A.G.M. in Victoria, the travel bursary had no formal name. For this reason, I presented the following motion at the meeting:

"I move that the CBA/ABC adopt the following name for its student travel bursary: The John Macoun Travel Bursary."



This motion was passed.

There are several good reasons for choosing John Macoun as the namesake for this award. The most compelling of these is that John Macoun served Canada as the official botanist on no less than five major expeditions (including Sandford Fleming's C.P.R. survey in 1872). He also made numerous shorter trips in all parts of pre-1920 Canada, from British Columbia to Nova Scotia and Prince Edward Island. During the course of his travels, he became famous for his extensive collections of vascular plants, bryophytes, lichens, and other organisms. Ernest Thompson Seton called him "... the pioneer naturalist of Canada" (Autobiography of John Macoun, M.A., Canadian Explorer and Naturalist, 1831-1920. 1922. Ottawa Field-Naturalists' Club). He was also an accomplished teacher, and corresponded widely with other great botanists of the time, including the Hookers, Sullivan, Dewey, Gray, Tuckerman, and Engelmann. He was invited to become a member of Canada's first national botanical association, the Botanical Society of Canada, by George Lawson (the namesake of another CBA/ABC award), and he was also invited to be a founding fellow of the Royal Society of Canada. He was appointed Botanist to the Geological and Natural History Survey of Canada in 1881, of which the National Museum of Canada was a part. His contributions to the development of Canadian botany through his extensive travels and collections, scholarship, and teaching, over his long career, make him an eminently appropriate namesake for our travel bursary.

I want to re-iterate the fact that this award is available to graduate students who attend the annual meetings and present papers in the Lionel Cinq-Mars Competition. Make sure you apply.

For more details about this award, see the recent article on the endowment fund (CBA/ABC Bulletin 21: 11, 1988).

William J. Crins

Director, CBA/ABC

#### INTERNATIONAL ORGANIZATION OF PLANT BIOSYSTEMATISTS (IOPB)

##### CALL FOR NOMINATIONS

A Nominating Committee consisting of the IOPB Council and Executive members has been established to solicit names for a mail ballot for Vice-President, Secretary-Treasurer, and ten Council members. No more than two persons may be

elected from any one country. The Nominating Committee consists of the Council J. F. Bain (Canada), Maria A. Cardona (Spain), Jiakuan Chen (China), H. C. M. den Nijs (Netherlands), W. H. Eshbaugh (U.S.A.), J. R. Estes (U.S.A.), B. Jonsell (Sweden), A. Rousi (Finland), C. J. Webb (New Zealand), Judy West (Australia) and the Executive, K. Urbanska (Switzerland), S. Kawano (Japan), L. Borgen (Norway) and W. F. Grant (Canada). Send suggestions of names to any member of the Nominating Committee by November 1, 1988. A ballot will be sent for voting to all members of IOPB and the names of the new Executive and Council Members will be announced at the Business Meeting to be held during the IOPB 1989 Symposium, Kyoto, Japan, July 9 to 14, 1989.

#### FIELD TRIP TO THE B.C. INTERIOR (CBA Annual Victoria Meeting) - The OFF-AGAIN, ON-AGAIN SITUATION

The off-again, on-again field trip to the B.C. interior was eventually confirmed. A small bus left Victoria at 7:00 am on Friday morning, June 10th, 1988 for what proved to be a truly worthwhile experience for the botanists who were fortunate enough to participate. Leon Pavlick was the intrepid leader who guided us unerringly from the coastal lowland forests with rhododendrons to the palouse grasslands (Agropyron spicatum, Balsamorhiza sagittata, Lewesia rediviva). Many of the plant communities were new to the botanists who all learned a great deal and thoroughly enjoyed the trip.

One suggestion emanating from the experiences gained from the cancellation of this trip was that field trips should, if possible, precede the annual meeting rather than follow it.

J. Shay

#### CANADA WIDE SCIENCE FAIR - WINNIPEG, MAY 15 - 22nd, 1988.

I had the privilege of presenting the CBA prize at the Canada Wide Science Fair Awards banquet. Two grade 10 students, Holman and Jack Wang from the Prince of Wales Mini School in the Vancouver Lower Mainland were the recipients. They also received the Intermediate Gold Medal and the CSPP prize. Their study was entitled "Germination Inhibitors".

Their objectives were: (1) to determine if inhibiting substances from tomato and cucumber extracts will affect germination and growth of tomato and

cucumber when applied at various stages of seed development and to see if water offsets the effect; (2) to determine the effect of phenolic compounds, caffeic acid, ferulic acid, B-coumaric acid, chlorogenic acid and rutin individually and in various combinations on tomato and cucumber and; (3) to determine if apple and cherry leaves contain inhibiting substances.

Their presentation was excellent. It was logical, and the findings summarized in a clear manner. Detailed illustrated work books with all the data and observations accompanied their display. It was truly a fine effort.

J. Shay

#### VANCOUVER STUDENTS WIN BOTANICAL AWARD

Each year the Canadian Botanical Association presents a \$150 award for the plant science exhibit at the Canada-Wide Science Fair. This year's recipients were Jack and Holman Wang from Vancouver for their project entitled "Germination Inhibitors".

Jack and Holman approached the subject with the intention of studying a variety of natural solutions for their effect on the germination and development of cucumber plants.

They began by testing cucumber and tomato extracts for inhibiting capabilities. Then they moved to the effect of a variety of phenolic compounds in various combinations on germination and concluded with a test to find out if cherry and apple leaves had any inhibiting substances. Jack and Holman felt that as the leaves aged, their inhibition of growth would increase.

The results of their 15 day, 2700 plant study confirmed some of their suspicious and disproved others. Every substance they tested inhibited the growth and development of the seeds and seedlings, with the exception of the phenolic compounds, which they had definitely thought would. The cucumber extract proved to be the most powerful. It was able to kill the young seedlings but it was not as harmful to the older plants. Jack and Holman also observed that the cherry and apple leaves did possess some inhibiting substance but that it didn't seem to become any stronger as the leaves aged; in fact the seedlings subjected to the leaves grew more tolerant as they aged.

#### NEW TITLES

Catalogue Bibliographique des Bryophytes du Quebec et du Labrador by Marc Favreau and Guy Brassard.

Memorial University of Newfoundland, Occasional papers in Biology, No. 12, 1988. \$5.50 Canadian.

The present catalogue is a list of published records of bryophytes for Quebec and Labrador, Canada. The total bryological flora of the area includes three species of hornworts, 102 species and 20 infraspecific taxa of liverworts, and 599 species and 66 infraspecific taxa of mosses. The area was divided into 23 regions for Quebec and five regions for Labrador, and for each taxon, bibliographic references are provided by region. The introductory text is in French and in English.

#### Flora of North America

A vast amount of information about the diversity of plant life in North America--morphology, distribution, ecology, chemistry, genetics--is being gathered by researchers. Until now it has been scattered in hundreds of different publications, accessible only to the most tireless researcher.

The Flora of North America project will fill the longstanding need for a synoptic Flora of the vascular plants of North America from the Mexican border north through Canada, Alaska, Greenland, and St. Pierre and Miquelon Islands by consolidating this information and making it available to any interested user.

The project will result in a 12-volume Flora as well as a computerized data base that will allow a large amount of information to be stored, sorted, and compared.

#### DESCRIPTION OF THE PROJECT:

The Flora of North America project will synthesize our current knowledge about plants in the area: their relationships, characteristics, and distributions. In essence, the Flora will be a catalogue of the plant biological diversity in North America north of Mexico. It also will be a resource for identification of our plants. Such a standard reference is needed for wildlife management, forestry, range management, and horticulture as much as it is for theoretical and applied research. The Flora will highlight the many taxa and geographical areas that are still poorly known, and thus stimulate further research.

Some 17,000 species will be covered, about 7% of the world's total species of vascular plants. The treatments of species will be written and reviewed by experts from throughout the systematic botanical community and will be based on original observations of herbarium specimens supplemented by a critical review of the literature.

The Flora of North America will be published in twelve volumes issued over a ten-year period beginning in 1990. It will include scientific and vernacular names, taxonomic placement, identification keys, summaries of habitat and geographic ranges, pertinent synonymies, descriptions, chromosome numbers, phenological information and other significant biological observations. The final volume will contain a comprehensive bibliography and complete index.

Most importantly, all of the data contained in the treatments will be recorded and maintained in a computerized data base. The data base will also include information not published in the Flora, such as more detailed morphological descriptions and geographical ranges, and notes on uses. Sources of all data will be documented. Information will be continually added to the data base after the Flora itself has been completed, and the data base will be maintained as a permanent resource, made available to users through printed copy, magnetic, and other media.

Furthermore, the database can be easily searched and manipulated, making it possible to provide floristic information in ways never before available or even considered, such as ordered by characteristic or habitat, or correlated with physical parameters.

Partial funding for the project has been provided by the Pew Charitable Trusts and the Robert and Lucille Packard Foundation. The project staff is grateful to the many individuals and institutions who, through their contributions of time and effort, are helping to keep the monetary cost of this project to a minimum.

#### FREE SCIENTIFIC PUBLICATIONS

The Biosystematics Research Centre has a stock of the publication "Artic Adaptations in Plants" (1972) by D.B.O. Savile that they would be happy to send to any interested individual free of charge.

Requests should be addressed to:

Curator of the Reprint Collection  
Vascular Plant Herbarium  
Biosystematics Research Centre  
William Saunders Bldg., C.E.F.  
Ottawa, Ontario K1A 0C6

#### NEW SCIENTIFIC JOURNAL

##### The Journal of Indigenous Studies

The Journal of Indigenous Studies is a refereed semi-annual scholarly journal published by the Gabriel Dumont Institute of Native Studies and Applied Research. The journal aims to provide an open forum for the dissemination of scholarly research, discussion and ideas. It seeks a broad readership, both French and English, national and international, of all scholars and the general public having an interest in indigenous studies. The content of such studies will be in the areas of, but in no way exclusive to, administration, anthropology, arts, ecology, education, ethnography, health, language, law, linguistics, literature, political science and sociology.

The journal is open to all points of view, and we invite manuscripts from authors within and outside of Canada. Articles are published in either French or English with an abstract in the alternate language.

The Journal of Indigenous Studies invites the submission of original, unpublished manuscripts and essays that are both solidly researched and well written. Manuscripts should begin with a separate page containing the title of the article, the name(s) of the author(s) and affiliated institutions and the date of submission. Name(s) of author(s) should not be displayed elsewhere. All copy, including notes and captions, should be typed and double spaced with generous margins. Four copies of the manuscripts in the mode specified in the APA style, third edition, of the Publication Manual of the American Psychological Association should be sent with a typed, self addressed envelope. Articles may be submitted in either French or English and accompanied by an abstract of 100 - 150 words, if possible, in the other language.

Published in January and July.

Subscription rates are:

##### Individual:

\$10.00 Canadian a single issue  
\$20.00 Canadian annual

##### Institutional:

\$15.00 Canadian a single issue  
\$30.00 Canadian annual

Send manuscripts and subscription requests to:

Dana F. Lawrence, Editor  
The Journal of Indigenous Studies  
Gabriel Dumont Institute of  
Native Studies and Applied Research  
121 Broad Avenue East, Regina  
Saskatchewan, Canada S4N 0Z6

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## ENDOWMENT FUND STUDENT COMPETITION

The fund provides financial assistance for meritorious graduate students to attend the annual meeting of CBA/ABC.

The competition is open to students members of CBA/ABC. Eligible students are encouraged to apply even if the meeting is to be held at their own university.

Competitors must present a paper in the Lionel Cinq-Mars Competition. No student may receive more than one award from the Fund to attend annual meetings while registered for the same degree.

The sole selection criteria is that of academic merit. The application must contain:

- a. A copy of the Abstract that is to be submitted for the Cinq-Mars Competition;
- b. A supporting letter from the supervisor that also includes a statement that the student is engaged in a M.Sc. or Ph.D. program;
- c. a letter of recommendation from a member of the student's research committee (not the research supervisor);
- d. a curriculum vitae (no more than one page long);
- e. a statement from the student outlining the amount of money requested.

Student applying for an award must do so NO LATER THAN January 31st of the year in which they expect to attend the CBA/ABC meeting.

Submit application to:

Dr. R.L. Peterson, President CBA/ABC  
Dept. Botany, Univ. Guelph  
Guelph, Ontario N1G 2W1

### KNOW YOUR OFFICERS

PRESIDENT: Official representative of CBA/ABC; responsible for all official actions of the Association; chairs Awards Committee; represents CBA/ABC on BCC Executive.

#### LAWRENCE (LARRY) PETERSON

Position: Professor  
Where: Department of Botany  
University of Guelph  
Research Interest(s): Development & structure of roots with emphasis on ectomycorrhizae vesicular arbuscular mycorrhizae and nodule development in actinorhizal plants

\* \* \* \* \*

PAST-PRESIDENT: Chairs Nominating Committee for following year's slate of officers; provides advice and help to President as required.

#### K.E. DENFORD

Position: Professor  
Where: Department of Botany  
Univ. of Alberta, Edmonton  
Research Interest(s): Chemical biosystematics. Biochemical adaptation of species in Arctic and Alpine environments, especially the genus Arnica. Effects of glaciation on the distribution of species in North America.

\* \* \* \* \*

PRESIDENT-ELECT: Chairs Lionel Cinq-Mars Committee; any other jobs as requested by President; represent CBA/ABC on BCC Council.

#### IRWIN BRODO

Position: Director Botany Section  
Where: National Museum, Ottawa  
Research Interest(s): Bryology

\* \* \* \* \*

VICE-PRESIDENT: Chairman of local Organizing Committee for next Annual Meeting, responsible for all matters pertaining to that meeting.

#### J.C. RITCHIE

Position: Professor  
Where: Scarborough College  
Research Interest(s): Paleobotany/  
Paleoecology

\* \* \* \* \*

SECRETARY: Responsible for day-to-day running of CBA/ABC; takes minutes of all Executive meetings and of Annual General Meeting; maintains membership and address lists.

#### SYLVIA TAYLOR

Position: Research Technician  
Where: Botanical Garden  
Univ. of British Columbia  
Research Interest(s): Cytogenetics, Ethnobotany, editing.

\* \* \* \* \*

TREASURER: Responsible for all financial operations; co-ordinates membership drives.

#### E. KEITH WINTERHALDER

Position: Associate Professor & Chairman

Where: Department of Biology  
Laurentian University  
Research Interest(s): Plant ecology,  
especially plant-soil relationships and  
specifically pollution and revegetation  
ecology.

\* \* \* \* \*

DIRECTORS: Local area representatives.  
No specific duties but may assigned jobs  
by President.

GORDON ROBINSON (88-90)

Position: Professor  
Where: Department of Botany  
Univ. Manitoba  
Research Interest(s): Phycology

GILLES VINCENT (88-90)

Position: Research Scientist  
Where: Jardin Botanique, Montreal  
Research Interest(s): Systematics

WILLIAM J. CRINS (88-90)

Position: Research Associate  
Where: ?  
Research Interest(s): Sedge systematics  
(numerical taxonomy/cytology) Compositae  
systematics (chemosystematics)

JOHN BAIN (87-89)

Position: Assistant Professor  
Where: Dept. Plant Sci.  
MacDonald Campus  
McGill University  
Research Interest(s): Systematics of  
Senecio, biosystematics of Asteraceae.

LEWIS M. BROWN (87-89)

Position: Assistant Professor  
Where: Dept. of Plant Science  
Univ. of Western Ontario  
Research Interest(s): Plant and  
Microbial Molecular Biology,  
environmental microbiology.

GREGORY J. TAYLOR (87-89)

Position: Assistant Professor  
Where: Department of Botany  
Univ. of Alberta  
Research Interest(s): Physiological  
mechanisms of Al, Cu, and Ni tolerance  
in higher plants (wheat).

\* \* \* \* \*

EDITOR OF BULLETIN: Responsible for  
production and mailing of CBA/ABC  
Bulletin, and that official notes are  
published at appropriate time.

USHER POSZLUSZNY

Position: Professor  
Where: Dept. of Botany  
Univ. of Guelph  
Research interest(s): Developmental  
Botany

J.M. GERRATH  
(Associate-Editor)

Position: NSERC Post-Doctoral  
Fellowship  
Where: Dept. of Botany  
Univ. of Toronto  
Research Interest(s): Developmental  
Botany

\* \* \* \* \*

ARCHIVIST: Receives originals and/or  
copies of all important items, transfers  
them to National Archives of Canada.

ERIC HABER

Position: Assistant Curator of Vascular  
Plants  
Where: Botany Division  
National Museum of Natural  
Sciences, Ottawa  
Research Interest(s): Systematics of  
Pyrola; floristics of Canada

\* \* \* \* \*

#### LATE SUBMISSIONS

#### CONSERVATION COMMITTEE CHANGES

Due to retirement and sabbaticals  
some changes will be made in the  
membership of the Conservation  
Committee. There will also be more  
regional representation on the committee  
while retaining some continuity of  
membership. The Chairmanship will shift  
from D. Fahselt to P. Catling during the  
spring of 1989 and probably back again  
in the summer-fall of 1990. Many thanks  
are expressed to George Ledingham for  
serving on the committee during 1981,  
and for continuing with the work for  
some years past his retirement.

#### Chair (1981-1989)

D. Fahselt  
Department of Plant Sciences  
Univ. of Western Ontario  
London, Ontario  
N6A 5B7

(1989-1990)

P. Catling  
Biosystematics Research Institute  
Central Experimental Farm  
Ottawa, Ontario  
K1A 0C6

## Members

(1989-1990)

S. Varga  
Ministry of Natural Resources  
Richmond Hill  
Ontario L4C 3C9

(1988- )

L. Brouillet  
Institute Botanique  
Univ. de Montreal  
4101 Est rue Sherbrooke  
Montreal, P.Q. H1X 2B2

(1981- )

G. Argus  
Museum of Natural Sciences  
Botany Division  
Ottawa, Ontario K1A 0M8

(1981- )

V. Harms  
Dept. of Plant Ecology  
Univ. of Saskatchewan  
Saskatoon, Sask. S7N 0W0

(1988- )

R. T. Ogilvie  
The Royal B.C. Museum  
Victoria, B.C. V8V 1X4

Issues are brought to the attention of the Chair who then seeks regional advice and pertinent data if it is not already in hand. He/she asks someone with the best knowledge of a situation (regional contact person?) to draft an appropriate response for the CBA and suggest where this response should be directed. Pertinent information and the proposed response is considered by members of the Conservation Committee who comment on appropriateness and make suggestions. Based on feedback from the committee the chair develops a consensus stand and transmits this to the CBA president for signature.

\* \* \* \* \*

## BACKUS WOODS TRUST FUND

In the spring of 1988 a trust fund of \$150,000 was established to assure the preservation of Backus Woods, a rare remnant of the Carolinian Forest in southern Ontario. One of the major contributions to this fund was made through the efforts of the Botany Conservation Group at the University of Toronto, in which two of our members, Steve Varga and Kevin Kavanagh, figure prominently. One initiative was concerned with organization of the "Backus road show", a spectacular sight and sound tour which was presented in several centers in southern Ontario. Considerable funding was realized as a result of these efforts, part of it honoraria which were received personally and then turned over to the cause of conservation.

Many thanks to Steve and Kevin and the others.

Diannne Fahselt

## CONSERVATION COMMITTEE NEWS

### Assiniboine Prairie

While small areas of native prairies have been set aside in Manitoba, there has been no large expanse of prairie protected as an Ecological Reserve. Recently Jennifer Shay took the matter of the Assiniboine Prairie to the Manitoba Ecological Reserves Advisory Committee and the committee recommended that the prairie be designated an Ecologically Significant Area. The site should now be effectively protected.

The area is an 800 acre good piece of mixed grass prairie, 480 acres of which have never been plowed. The CBA has commended Manitoba on saving the area and suggested that efforts be made to remove conifers which have been planted ill-advisedly in a part of the prairie.

### Matchedash Lake, Ontario

The CBA has sent congratulations to four Ministry of Natural Resources (MNR) representatives regarding the successful defense of sensitive shorelines at Matchedash Lake. This area is important because it supports the best example of Atlantic Coastal Plains flora in Ontario, and it has long been studied by CBA members such as Tony Reznicek and Paul Keddy. At the recent OMB hearing the Ministry of Natural Resources engaged a lawyer from the Attorney General's office, Rosalyn Train, to argue against severance of six new cottage lots, and four MNR personnel also participated significantly, above and beyond the call of duty, to protect the area from development. One of these was John Riley (Regional Ecologist) a CBA member, and the others were Dan Mansell (Manager), Bob Law (Planner) and Abraham Bosman (Crown Land Administrator).

The July 1988 OMB hearings were won on a technicality and if the Official Plan is changed within a year there may be other hearings. However, for the time being environmentalists, including MNR, have won!

\* \* \* \* \*

## AWARD WINNERS

### George Lawson Award

The George Lawson Award of the Canadian Botanical Association/L'Association Botanique du Canada was awarded to Dr. Paul Gorham of the University of Alberta at the Annual Meeting held in Victoria.

Dr. Paul Gorham has made significant contributions in at least three areas of plant science. From his early work on the isolation of chloroplasts, to later research on the translocation of carbohydrates, he has had an impact on the study of the assimilation and partitioning of carbon in plants. Paul has also made a major contribution to the study of the biology of aquatic plants. In his early research he developed a medium for culturing members of the Lemnaceae, a medium still in use and bearing his name. More recently, he was involved in the study of the influence of thermal effluence on the growth of aquatic macrophytes. While pursuing research in the two fields previously mentioned, he has also managed to carry out important research on the production of toxins by blooms of cyanobacteria. His contributions in any one of these three areas would predict a lasting reputation, but to make progress in all of these disparate fields is remarkable.

Dr. Gorham has been recognized previously for excellence in research by the Canadian Society of Plant Physiology. He was the recipient of that society's prestigious gold medal in 1987. Dr. Gorham's contributions to the CBA/ABC have been recognized with the Mary E. Elliot Service Award in 1979.

Members of the Canadian Botanical Association/L'Association Botanique du Canada extend congratulations to Dr. Gorham and are proud to honour one of its members who has contributed to significantly to Botany in Canada.

### The Mary E. Elliot Service Award

The Mary E. Elliot Service Award of the Canadian Botanical Association/L'Association Botanique du Canada was awarded to Dr. Luis Oliveira of the University of British Columbia for his excellent contributions to the society as editor of the Bulletin. The importance of keeping members of the society in contact is a challenge in a large country like Canada and Luis' role in attempting this is very much appreciated. Luis has been conscientious in meeting deadlines and keeping the Bulletin an informative and interesting publication in spite of financial constraints.

Members of CBA/ABC thank Luis Oliveira for his significant contributions to the society.

### The Luella K. Weresub Memorial Prize

The Luella K. Weresub Award for the best paper in mycology published by a graduate student in a Canadian University was awarded to Hugues B. Massicotte of the University of Guelph for paper published in the Canadian Journal of Botany:

"Structure and ontogeny of Alnus crispa - Alpova diplophloeus ectomycorrhizae".

Congratulations, Hugues.

### The Lionel Cinq-Mars Award

The winner of the Lionel Cinq-Mars Award for best oral presentation by a student was presented to Elizabeth John, University of Alberta, for her paper:

"Nich separation amongst coexisting species of the crustose lichen genus Rhizocarpon".

Honorable mention:

Jean Gerrath, University of Guelph, for her paper with Usher Posluszny "Floral development in Leea guineensis (G. Don).

Ellen MacDonald, University of Calgary, for her paper with C.C. Chinnappa entitled "Population differentiation for phenotypic plasticity in the Stellaria longipes complex (Caryophyllaceae)".

Congratulations to Elizabeth, Jean and Ellen for excellent contributions to the annual general meeting.

### The John Macoun Travel Bursary

Three awards were made to graduate students presenting papers at the annual meeting in Victoria:

Sheridan Woo, University of Saskatchewan

Roxanna Roschon, Laurentian University

Elizabeth John, University of Alberta.

Congratulations to the recipients.



## OFFICERS OF CBA/ABC 1988-1989

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(416) 284-3155

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K1A 0M8

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

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 Treasurer (Prof. Keith Winterhalder, Dept. Biology, Laurentian Univ., Sudbury, Ontario P3E 2C6) of any change of address as soon as possible.

Inquiries about membership of the CBA/ABC should be addressed to the Treasurer at the address given above.

## CBA/ABC REPRESENTATIVES TO BCC

Executive Member: R.L. Peterson  
(519) 824-4120

Council To be appointed by L.  
R.L. Peterson