



# BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA

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Guelph

## Patron

Her Excellency The Right Honourable Jeanne Sauv , P.C., C.C., C.M.M., C.D., Governor General of Canada

## Patron

Son Excellence la tr s Honorable Jeanne Sauv , C.P., C.C., C.M.M., C.D., Gouverneur g n ral du Canada

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## EDITORS' FORUM:

Welcome to a new look and a new outlook for the CBA/ABC Bulletin. As we take on the task of editors of the Bulletin we feel honoured and challenged to follow in the footsteps of previous editors who did such a magnificent job in producing a newsletter which has become the recognized voice of the Canadian Botanical Association.

Our goal for the next three years is to build and strengthen the communication links that the Bulletin provides for botanists across Canada. This newsletter has served as the primary medium for interaction within our profession, but in order for it to continue to work properly we need the participation of the membership.

There are several new sections we will be adding to the Bulletin as well as reviving ideas that seemed to work well in the past. We would like to keep in touch with our colleagues throughout their career. We will begin a new section called "News of Colleagues". We also want graduate students to become involved with CBA/ABC and we will encourage their involvement in a section called "Graduate Student Opportunities". We would also like to set up a section devoted to techniques in teaching and research called "Botanical Helpful Hints". Please feel free to send us any information that you feel is relevant. We don't want a central Canada focus, we want to hear from everyone.

As we approach our 25th anniversary we have much to look back on with pride and much to look forward to with great anticipation. With the help of our membership we hope that the Bulletin will continue to accurately reflect all aspects of Canadian botany and Canadian botanists.

## PRESIDENT'S MESSAGE

This year marks the 25th Anniversary of the Canadian Botanical Association and it is appropriate to restate the purposes of the association:

1. to represent Canadian Botany and botanists in the national and international arenas and to respond rapidly and professionally on matters that are of concern to Canadian botanists;

2. to provide a national organization for botanists in Canada and to encourage the participation of professional botanists working in universities, colleges, schools, government and industry, as well as interested students, technicians, and amateurs;

3. to provide a national annual meeting for botanists at which there are opportunities to give papers, attend symposia, participate in field trips, and to meet in smaller, special interest sections that reflect the main areas of botanical activity in Canada;

4. to provide means for studying issues that particularly concern botanists, and to provide national support to certain local activities;

5. to publish a bulletin that provides news of Botany and botanists in Canada;

6. to sponsor regional meetings on topics of interest.

It is reassuring that the majority of Botanists in Canada support these goals and that, in spite of the distances involved, an active and interesting annual meeting is held. I suggest, however, that it is time for all members of the botanical community in Canada to make a commitment to CBA in terms of membership and participation at the annual meeting. Graduate students, post-doctoral fellows, research associates and other botanically-oriented scientists should be encouraged to support CBA if the association is to reflect the excellent botanical work in this country. It is disappointing to hear colleagues remark that there is little of interest for them at the annual meeting when they do not take an active role in CBA!

Perhaps prospective members are not aware that there is much more to the CBA than the annual meeting. A timely example of this is the enormous amount of work performed by the Conservation Committee on behalf of the members of CBA and concerned citizens of this country. This group of dedicated botanists makes CBA visible in every part of the country and at every level of government. We must support and encourage this Committee in its important work if we are to raise awareness of environmental issues and effect change where it is called for.

This year is crucial for members of CBA since the Biological Council of Canada will, because of a shortage of funds, cease to function in 1990. We, as a member society of BCC, will have to decide if we want BCC to merge

with the Canadian Federation of Biological Sciences and have this umbrella organization represent us at the national level. A letter explaining the situation will be sent to all CBA members early this year.

I am optimistic about the future of CBA. The association has an enthusiastic executive and the Bulletin has an editor and associate editor who are eager to work with all members to strengthen communication among botanists in Canada. I welcome your help in making CBA even stronger by increasing membership -- encourage non-members at your place of work to join. The more members we have, the more we all benefit.

See you in Toronto in August!

*-R. L. Peterson*

## MESSAGE DU PRÉSIDENT

L'année 1989 marque le 25<sup>ième</sup> anniversaire de l'Association Botanique Canadienne et il semble approprié de mentionner à nouveau les buts de l'association:

1. représenter la botanique et les botanistes canadiens sur les scènes national et internationale et intervenir de façon diligente et professionnelle sur les questions qui préoccupent les botanistes canadiens;

2. de nantir les botanistes du Canada d'une organisation nationale et d'encourager la participation des botanistes professionnels qui oeuvrent au sein des universités, collèges, écoles, gouvernements et industries, ainsi qu'aux étudiants, techniciens et amateurs intéressés;

3. d'organiser un congrès national annuel où les botanistes ont l'opportunité de donner des communications, d'assister à des colloques, de participer à des excursions et de se rencontrer au sein de sections spécialisées reflétant les principaux champs d'activité botanique au Canada;

4. de donner aux botanistes les moyens d'étudier les questions qui les préoccupent plus particulièrement et de fournir le support national nécessaire à certaines activités locales;

5. de publier un bulletin de nouvelles sur la botanique et les botanistes du Canada;

6. de favoriser les rencontres régionales sur les sujets d'intérêt.

Il est réassurant de constater que la majorité des botanistes canadiens encouragent ces buts et que, en dépit des distances, un congrès actif et intéressant est tenu chaque année. J'encourage fortement tous les membres de la communauté botanique du Canada à devenir membre et à participer aux activités de l'ABC. Les étudiants gradués, les boursiers post-doctoraux, les associés de recherche et autres scientifiques orientés vers la recherche botanique devraient encourager l'ABC si l'association veut refléter l'excellence des travaux botaniques de notre pays. Il est certes découra-

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geant d'entendre des collègues dire qu'il y a peu de choses intéressantes au congrès annuel surtout lorsqu'ils n'y participent pas!

Il est possible que les membres éventuels de l'ABC ne réalisent pas qu'il y a bien plus qu'un congrès annuel! L'énorme contribution du Comité de conservation, au nom des membres de l'ABC et des citoyens canadiens, est un exemple opportun. Ce Comité de botanistes convaincus a fait valoir les vues de l'ABC dans toutes les régions du pays et à chaque niveau de gouvernement. Nous devons nous efforcer de supporter et d'encourager ce Comité et son travail afin d'augmenter le niveau de conscience sociale face aux délicates situations environnementales et à leurs solutions.

Cette année est cruciale pour les membres de l'ABC puisque le Conseil de Biologie du Canada est appelé à disparaître en 1990, faute de fonds. Nous devons décider, en tant que Société membre du CBC, si nous voulons que le CBC fusionne avec la Fédération Canadienne des Sciences Biologiques et si nous voulons que cette nouvelle organisation nous représente à un niveau national. Une note expliquant la situation sera envoyée à tous les membres de l'ABC en début d'année.

Je suis très optimiste quant au futur de l'Association Botanique du Canada. L'association possède un exécutif enthousiaste et un éditeur et une éditrice associée pour le Bulletin désireux de consolider la communication entre les botanistes du Canada.

Je compte recevoir votre aide pour faire de l'ABC une association plus forte en encourageant les non-membres à votre place de travail à adhérer à l'association. Nous bénéficierons tous d'une société avec un effectif nombreux et représentatif.

Au revoir et rendez-vous à Toronto, en août!

-R. L. Peterson

## REPORT/FALL EXECUTIVE MEETING

### Summary of Fall Executive Conference Call (Nov. 30, 1988)

Conferees: R. L. Peterson (Pres.), I. M. Brodo (Pres. Elect), J. C. Ritchie (Vice-Pres.), S. Taylor (Secr.), K. Winterhalder (Treas.), U. Posluszny (Ed.).

### President's Report (R. L. Peterson)

Plans are proceeding smoothly for the 1989 meeting in Toronto, and the 1990 meeting in Windsor.

Iain Taylor has been appointed as new Editor of the Canadian Journal of Botany (see News and Notes section of Bul-

letin for further details).

The Biological Survey of Canada is putting together a Botany module. The Executive has approved support for the development of such a module. A letter has been sent to Luc Brouillet, informing him of this support.

### President-elect's Report (I. M. Brodo)

The Cinq-Mars award will be presented either at the CBA/ABC Luncheon on Thursday, Aug. 10, or by mail and announced in the October issue of the Bulletin.

### Secretary's Report (S. Taylor)

Enquiries about a new, less costly form of the Mary E. Elliott Service Award are being pursued.

The Meeting Guidelines will be rewritten by the Secretary, with major input from recent Vice-Presidents.

### Treasurer's Report (K. Winterhalder)

Membership is down slightly to 325 members.

The financial situation is good. The operating funds are up about \$4000.

The Weresub Fund is healthy.

The Macoun Fund has \$846 in savings and a \$1000 investment certificate. Donations to this fund would be gratefully received.

The BCC requirement for 1988 was \$1800, all but \$27 of which has been paid.

### Editor's Report (U. Posluszny)

The editor has access to electronic mail service (Editor's address on BitNet is BOTUSH @ UOGUELPH.CA). Reports can be sent by electronic mail.

### BCC Meeting (I. Brodo)

This was attended by I. Brodo (because R. L. Peterson was not informed of the dates of the meeting). The proposed merger with CFBS was discussed. A letter has been drafted for the CBA/ABC membership re amalgamation. This will be sent out in time for a full discussion at the Annual General Meeting in Toronto.

### IUBS (S. Taylor)

Iain Taylor is Chairman of the Canadian National Committee (CNC) of IUBS and attended the General Assembly in Canberra in October as one of the 2 official Canadian representatives. He was elected to the IUBS Executive for a 3-year term.

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Robin South was re-elected to the Canadian National Committee in November for a 6-year term.

The Executive requested that I. Taylor be asked to write an article for the Bulletin on IUBS.

#### Conservation Committee (D. Fahselt)

It continues to be active. D. Fahselt is dealing with on-going issues and P. Catling is dealing with new ones.

#### 25th Anniversary

The Executive is considering several suggestions for celebration of the Anniversary, and plans are underway.

#### Term of President

The Executive has been asked to consider the possibility of extending the term of President (+ President-elect and Past-President) to a two-year term. The main rationale for this is that it takes almost one year to learn the job. The Secretary is going to contact previous Presidents regarding their views, check By-laws, and proceed as necessary to the stage of a membership vote on a change of term.

### CALL FOR RESOLUTION OF POLICY

Resolutions for presentation to the Annual Meeting of CBA/ABC to be held in Toronto, Ont., in August, 1989, **MUST BE DELIVERED TO THE SECRETARY OF THE ASSOCIATION NO LATER THAN MONDAY, MAY 1, 1989.**

Members are referred to the Association's By-laws 68-77 for details of the nature and preparation of such resolutions. All resolutions for presentation:

- a) should declare the policy of the Association on matter(s) that shall be forwarded outside the Association,
- b) should be carefully worded,
- c) require a mover and four seconders, all of whom must be members in good standing,
- d) must be accompanied by a supporting brief,
- e) must be accepted by the Board of Directors before presentation to the Annual Meeting,
- f) must be presented in person by one of its sponsors,
- g) require the approval of two-thirds of the members present and voting at the Annual Meeting.

Send resolutions and accompanying material to: Mrs. Sylvia Taylor, Secretary CBA/ABC, Botanical Garden, The University of British Columbia, Vancouver, B. C. V6T 1W5.

### MEETINGS \* FUTURE

#### Preliminary Notice

A detailed schedule of symposia, section meetings and field trips will appear in the April Bulletin...Remember that the deadline for abstracts for CBA/ABC this year is Feb. 3rd.

#### CBA Meeting

(jointly with AIBS)

August 7th to 10th, 1989

University of Toronto, Toronto, Ontario

A wide range of symposia, workshops, contributed and poster sessions is being planned, including many co-sponsored events involving CBA. Pre- and post-meeting field trips of varied interest and duration will be offered. The **CBA Banquet** will be held jointly with the Botanical Society of America. A **CBA Luncheon**, at which awards and prizes will be presented, will be held on Thursday, August 10th, when we will also celebrate our 25th Anniversary. Details of the programme will be forthcoming in the April issue of the Bulletin. In the meantime, don't forget that the **deadline for receipt of Abstracts is Feb. 3, 1989.** -- J. C. Ritchie.

#### FUTURE MEETINGS OF CBA/ABC

1990 Windsor (June 10-14)

1991 Edmonton

1992 Waterloo

1993 Calgary

#### MICROSCOPICAL SOCIETY OF CANADA SOCIÉTÉ DE MICROSCOPIC DU CANADA

#### 1989 ANNUAL MEETING

Wednesday May 31st to Friday June 2nd  
University of Guelph, Guelph, Ont. Canada

"NEW TECHNIQUES" Symposia, Posters, Roundtable

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discussions, Workshops, Exhibits

For further details contact: Local Organizing Chairman  
Richard Humphrey  
Dept. of Microbiology  
University of Guelph  
Guelph, Ont. N1G  
2W1  
(519) 824-4120  
ext. 6409

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## MEETINGS \* PAST

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### 22nd Plant Development Workshop

The 22nd Plant Development Workshop was held on November 5, 1988 at the Department of Botany, University of Toronto. The program consisted of 15 contributed papers presented orally and 4 posters, followed by a keynote address given by Dr. Barry Tomlinson of Harvard Forest. Despite the wide-ranging subject matter of the contributed papers (from vegetative to floral development, growth responses to environmental stress, etc.) Barry was able to integrate the ideas of external and internal controls of development in his lecture on "Unique features of shoot development in *Phyllocladus* (Podocarpaceae)". He even managed to do so bilingually!

These plant developmental workshops have been informal gatherings of botanists interested in the area of plant development in its broadest sense. Meetings have been held in spring and fall every year for the past 11 at one of the southern Ontario Universities (or at the Vineland station as was the case in fall, 1987). The format varies, but often includes a keynote speaker, contributed paper sessions, an open discussion about an aspect of development, reports on other meetings or sessions on techniques. Graduate students and undergraduates often give papers, and the workshops have been a good venue to get responses to new ideas and work. New faces are always welcome as well.

The 23rd Plant Developmental Workshop will be held in the spring at McMaster University and will be organized by John Lott and Douglas Davidson. Potential participants not currently on the mailing list should contact either John or Douglas for further information.

-- Nancy Dengler.

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## CINQ-MARS AWARD

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### Lionel Cinq-Mars Competition for 1989

Each year, The Canadian Botanical Association makes an award for the best student paper presented at the annual CBA/ABC meeting. The award is made in memory of Lionel Cinq-Mars, one of the founding members of the association and a widely admired teacher.

The rules and criteria for the award are quite simple. Any bona fide student enrolled at any Canadian institution of higher learning is eligible. Since the paper can be given at any session of the meeting, and since the 1989 meeting will be a big one (held in conjunction with A.I.B.S.), the judging will be somewhat more complicated than it usually is. Every effort will be made, however, to ensure that each student wishing to be included in the competition has a fair adjudication and an equal chance at the award.

Adjudication will be made by a panel of judges selected by the various CBA/ABC sections (at least one from each). It is chaired by the President-elect. The merit of the paper will be judged on the basis of content (60%) (originality, technical expertise, and associated subject knowledge); and presentation (40%) (lucidity, organization, use of visual aids, audibility and "presence").

The Cinq-Mars award has always been a very important part of the annual meeting. We hope that there will be many participants and that the students will benefit both from the experience of giving an oral presentation, and from the comments each will receive on their talk from the panel of judges.

Please remember that only those students that specifically indicate on their abstract form that they wish to be included in the Cinq-Mars competition will be listed for judging.

Good luck!

- Irwin M. Brodo, President-Elect

### Compétition Lionel Cinq-Mars 1989

Chaque année, l'association canadienne de botanique décerne un prix pour la meilleure communication orale présentée par un étudiant lors de la rencontre annuelle de l'ABC/CBA. La récompense est remise à la mémoire de Lionel Cinq-Mars, un des membres fondateurs de l'association et un professeur fort admiré.

Les critères d'admissibilité à ce prix sont fort simples. Tout étudiant inscrit à une institution canadienne d'études supérieures est éligible. Étant donnée que la communication peut être présentée à n'importe quelle session de la ren-

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contre et que cette rencontre de 1989 en sera une d'importance (rencontre conjointe avec l'A.I.B.S.), la décision finale en sera un peu plus compliquée. Cependant un effort sera fait afin d'assurer à chaque étudiant qui exprime le désir d'être inclus dans cette compétition, de pouvoir compter sur une chance égale pour l'obtention de ce prix.

La décision finale sera rendue par jury de membres sélectionnés parmi les différentes sections de l'ABC/CBA (au moins un membre de chaque section). Le jury est dirigé par le président élu. La qualité de la communication est jugée selon le contenu (60%) (originalité, techniques et connaissance du sujet) et la présentation (40%) (lucidité, organisation, utilisation de l'audiovisuel et clarté du texte).

Le prix Cinq-Mars a toujours constitué une partie fort importante des rencontres annuelles. Nous comptons sur une forte participation et nous espérons que les étudiants bénéficieront autant de l'expérience acquise à communiquer oralement que des commentaires qu'ils recevront de la part des membres du jury.

Veuillez prendre note que seuls les étudiants qui ont clairement indiqué sur le formulaire des résumés leur intention de participer au concours Cinq-Mars seront inscrits sur la liste des participants à la compétition.

Bon Chance!

*Irwin M. Brodo, Président-élect*

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## JOHN MACOUN TRAVEL BURSARY

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### CALL FOR APPLICATIONS

As was noted in the October, 1988 (Vol. 21, No.4) issue of the Bulletin, the Endowment Fund established by CBA/ABC in 1985, with the purpose of providing travel bursaries to graduate students, is now known as the John Macoun Travel Bursary. Below is the official notification of who is eligible, the terms of the competition, and the method of notification of winners. **Graduate student members who plan to attend the meeting in Toronto are urged to apply.**

#### Eligibility:

1. Competition for awards from the Fund is open to **student members of CBA/ABC**. Eligible students are encouraged to apply even if the meeting is to be held at their own university.

2. Competitors **must present a paper in the Lionel Cinq-Mars Competition.**

3. No student may receive more than one award from the Fund to attend the annual meeting while registered for the same degree.

#### Competition:

1. The President shall appoint a Student Awards Committee to screen the applications and to recommend the candidates for awards and the amount of each award.

2. The sole selection criteria shall be those of academic merit.

3. Students applying for an award must do so **no later than February 28** of the year in which they expect to attend the CBA/ABC meeting. 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 an M.Sc. or Ph.D. programme.

c) a statement from the student outlining the **amount of money requested.**

d) A **curriculum vitae** (one page)

e) A **\*letter of recommendation from a member of the student's research committee** (not the Supervisor).

(\* supporting letters should accompany the application. They may be open or sealed).

### THESE DOCUMENTS ALONE WILL FORM THE APPLICATION.

#### Notification of Winners:

1. Successful competitors will be notified before the registration deadline for the annual meeting. Awards will be paid at that time.

2. Names of the winners will be announced and the certificates presented at the annual banquet.

3. All winners will receive a certificate in recognition of their award.

## BOOK REVIEWS

**Plantes sauvages des lacs, rivières et tourbières, Guide d'identification Fleurbec, Fleurbec, Saint-Augustin, Portneuf, Québec, 1987, 399 pages, ISBN 2-920174-10-X, circa \$25.00.**

*Plantes sauvages des lacs, rivières et tourbières* is the latest addition to the already published field guides of identification by the group Fleurbec, a Quebec-based corporation devoted to the popular improvement of our floristic knowledge of the North-East American flora.

This pocket size book of impeccable technical presentation is an easy-to-access account, gathering an impressive amount of information (more than 300 references consulted) on a number of taxa found mainly in lakes, rivers, bogs and fens.

After a short introduction on how to use this guide (Fleurbec trademark!), the reader finds an elegant summary on the main floristic groups of North America, from arctic to desert environments (Les domaines floristiques et les paysages végétaux de l'Amérique du Nord). The next section is an account devoted to the typification of different wet lands (L'eau qui court vite, et l'autre). These two sections are informative and easy to read and it is regrettable that some of the color pictures used as illustrations are very small.

The remaining portion of this guide describes at least 65 taxa, divided into 7 sections to facilitate the search of the plant under scrutiny. Each plant description includes a list of names in French and English, a study on its etymological origins, its geographical distribution, a list of plants similar to the one studied, its habitat and folkloric anecdotes, and its agricultural, horticultural, culinary, toxicological and medicinal interests. This is completed with an informative distribution map (North America) and usually one full page high quality color picture of the plant taken *in situ*.

However, in spite of these excellent photos, some submerged portions of a few plants cannot be seen adequately. Complementary pictures showing these submerged parts, such as those on pages 258 and 262, would be helpful.

This book is completed by a glossary, a bibliography, a list of latin names, a list of curative plants, a list of edible plants, an index of species described so far by the Group Fleurbec (including previously published guides!), and an index of plant names. Considering the literature consulted, the authors might have included the English translation of terms explained in the glossary and reconsidered botanical expressions such as "queue" for petiole.

It is clear that this guide represents a valuable addition to the popular literature of descriptive botany. It has been

suggested that the oldest profession of mankind may be the description of plants, the Group Fleurbec must be congratulated for demonstrating, once again, very humanistic concerns.

-Hugues Massicotte, Dept. of Botany, Oregon State Univ.  
Corvallis, OR 97331 U.S.A.

**Microfungi on Miscellaneous Substrates: An Identification Handbook** by Martin B. and J. Pamela Ellis. Timber Press, 9999 SW Wilshire, Portland, OR 9722. 1988. 244 pp., 56 plates (556 figs.). Price: US\$46.95 + US\$ 3.00 shipping and handling.

This is a companion volume to the Ellises' *Microfungi on Land Plants: An Identification Handbook* which appeared in 1985. This one deals with over 730 species of microfungi on bryophytes, fungi, myxomycetes, burnt ground or charcoal, soil, dung, and bones, feathers, paper, or cloth. It should be noted, of course, that a number of the fungi included in this book are not 'microfungi' in the strict sense but this is no real problem since relatively few species with larger sporocarps are treated. The substrata and host habitat types covered by this rather slim volume provide something of a mixed bag, especially since their coverage is somewhat uneven. Nonetheless, it is a volume that both amateur and professional mycologists should welcome since it will facilitate identifications of many of the fungi commonly associated with these diverse substrata.

The layout of the book is essentially identical to that of the earlier volume. Host indexes are included for the fungi on bryophytes and on other fungi and simple keys to genera and species are given for almost every group included. I couldn't agree more with the authors' decision to omit the constant repetition of the  $\mu\text{m}$  sign in measurements. Likewise their decision to omit specific references to the literature in the body of the text results in considerable saving of space. I do not, however, agree that their list of 'Recommended Books' (three on Ascomycetes, one on Mucorales, one on New Zealand dung fungi, Webster's general mycology text, and Ainsworth and Bisby's *Dictionary of the Fungi*) will "... between them contain all these references. ..." that one might want to see in identifying fungi from these various habitats. I can think of several other volumes that could have been added to the list to the advantage of the typical user. For example, either of Martin Ellis' volumes on hyphomycetes, *Dematiaceous Hyphomycetes* or *More Dematiaceous Hyphomycetes*, would have been a much more useful reference in an identification handbook of this sort that Webster's *Introduction to Fungi*.

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Likewise, I am not entirely convinced by the 556 figures illustrating the book. The figures are generally good and certainly adequate for the professional who knows many of the species and most of the fungal groups included. However, I don't think they will be of great use to an amateur who knows little about microfungi. The size of many of the illustrations is such that details are often lost, especially so in the habit sketches of Ascomycetes. The Hyphomycetes fare much better. However, it should be noted that in all respects the printing of the illustrations in the volume is superior to that found in *Microfungi on Land Plants*. The printing of the figure numbers in a new typeface that can actually be read is a most notable improvement. As in the previous volume, the figures are grouped according to habitat type, a procedure which really enhances their usefulness, but alas, there are no scale markers on the plates. Overall I think this omission makes the plates less useful than they could have been. It is not likely to be a problem for the mycologist who knows a lot of these fungi and has a good mental image of their sizes and size ranges but for a reader who doesn't know the microfungi at all it could be frustrating.

My minor quibbles aside, this is a valuable addition to the literature available for identifying microfungi and should have a place beside its larger companion volume wherever microfungi are being studied. Although I may not agree entirely with the publisher's suggestion the I "... will find this new volume an indispensable addition ..." to my library, I feel certain that it will see a lot of use because it is there.

*Gilbert C. Hughes, Department of Botany, University of British Columbia, Vancouver, V6T 2B1.*

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## NEW PUBLICATIONS

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**Brodo, Irwin -- Lichens of the Ottawa Region, Second Edition.**

This book is an illustrated guide to the identification of the lichens of southeastern Canada and adjacent United States. It is written for the serious amateur, but is useful to novices as well. It features an illustrated glossary, 84 line drawings, and practical keys to 400 species of fruticose, foliose and crustose lichens. It can be obtained from the Ottawa Field Naturalists' Club, P.O. Box 3264, Postal Station C, Ottawa, Ontario. K1Y 4J5. The cost is \$9.95 each, plus \$2.50 handling charges for the first copy, \$3.50 for the first two copies, and \$1.00 more for each additional copy.

**Cody, William J. -- Plants of Riding Mountain National Park, Manitoba (Les Flores du Parc National du Mont Riding, Manitoba).**

This book, which is expected to be approximately 250 pp. in length, with 326 line drawings, is being published in separate English and French editions. It is aimed towards professional botanists, and includes a key to the families, the flora, excluded species, literature, a checklist of species, as well as a glossary and an index. It became available December, 1988, by mail from the Canadian Government Publishing Centre, Ottawa, Ontario. K1A 0S9. Cost: \$24.75.

**BIOLOGUE -- A new biology newsletter for high school teachers and students, published by the Department of Biology, University of Waterloo.**

The editors of this new newsletter would be pleased to receive articles suitable for high school students. Topics which are included in the Ontario high school curriculum include: Vascular Plants: growth and structure; Mycology; Impact of Science on Society; Plant Physiology and Photosynthesis; Theory of Evolution; Ecology; Safe Use of Plants; Safety in the Laboratory. If you wish to be placed on the mailing list, or require further information, you can contact Joan M. Venn, Co-editor, BIOLOGUE, Department of Biology, University of Waterloo, Waterloo, Ontario. N2L 3G1.

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## NEWS AND NOTES

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**Electronic Mail . . . BitNet, NetNorth, Fax**

It is now possible to reach almost every university in Canada by electronic mail, either BitNet or NetNorth. If you have a personal computer which is linked to a main frame computer through a modem you can easily tap into this future wave of instant postal service. Through this service you can send everything from a note or letter to a manuscript. As you can see on the back page, the editors of the Bulletin can be reached through electronic mail at **BO-TUSH @ UOGUELPH.CA**. Any item which you want to include in the Bulletin can be sent from your computer, into the editors' computer and right onto the desktop publishing programme within a matter of seconds.

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In order to fully utilize the tremendous potential of electronic mail and Fax (we hope to get a Fax in the near future) we would like to begin to compile a directory of CBA/ABC members who can be reached on BitNet, Net-North or Fax. Please send your electronic mail address or Fax number to the editors of the Bulletin as soon as possible. We hope to publish a directory of electronic mail in the Bulletin in the near future.



#### Data Wanted

We are writing a review on plant phenology (leaf, flower, fruit, and seed/germination). We know that many researchers have collected phenological data as background information for studies with other objectives. We are trying to review phenological patterns on a global scale, and in many ecosystems there are few published accounts. If you have data you would be willing to contribute on phenology we would be interested in hearing from you. All contributions will be properly acknowledged in the review. We would greatly appreciate a detailed description of the methods used in collection of these data. We would also appreciate reprints and manuscripts in press or in review. Please contact:

T. Mitchell Aide  
Todd Dawson  
Department of Biology  
University of Utah  
Salt Lake City, UT 84112  
USA  
Tel. (801) 581-7086 or (801) 581-5927



#### Presqu'ile Research Station

In January, 1988 the Faculty of Environmental Studies at the University of Waterloo signed a new five year agreement with the Ontario Ministry of Natural Resources for the exclusive use of the Presqu'ile Research Station. This agreement facilitates improved research, education and information pertaining to the planning and management of Presqu'ile Provincial Park and provincial parks in general.

The Station consists of a modest but very comfortable stone house located on the shore of Lake Ontario in Presqu'ile Provincial Park near Brighton, Ontario. It is available to researchers and as a training facility for groups of up to 15 people.

The Station's programs focus on applied environmental research, particularly dealing with coastal zones, applied

landscape ecology, wildlife, environmental assessment, resource management, recreation and interpretation studies.

The complex geological and coastal history of Presqu'ile and surrounding region has provided a fascinating variety of physical environments which contribute to a rich biological diversity: beaches, dunes, wetlands and forest. A number of interesting research programs are underway including studies on bay barrier and dune processes, tombolo and beach development, fluctuating water levels and coastal zone management policies, development of water quality indices, tests of large scale vegetation mapping methodologies, solid waste management plans and assessing access and opportunities for disabled persons in parks. Between 1984 and 1988 researchers have generated in excess of \$140, 000 in grants and contracts spent wholly or partly on research at the Station and have completed 17 publications.

The Research Station Management Committee hosts annual workshops and seminars, distributes a publication series and administers a research bursary program. For more information on the Station's activities and copies of the annual report contact:

Roger Suffling, Director *or*  
Drew Knight, Associate Director  
c/o Presqu'ile Research Station  
Faculty of Environmental Studies  
University of Waterloo  
Waterloo, Ontario  
N2L 3G1  
(519) 885-1211, Ext. 3184 or 3591.



#### Directory of Western Mycologists

Randy Currah, of the Department of Botany, University of Alberta, has compiled a "nearly complete draft report of the mycological research going on in Western Canada." It is most extensive, and lists nearly 100 researchers (including graduate students) from 20 institutions in the four western provinces.

Each person's research interests are also listed. It is too extensive to be printed in the Bulletin, but Randy has kindly agreed to send copies to members who wish to receive them.



(continued on next page)

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**Call for Papers**  
**JOULES IN THE WATER**  
**MANAGING THE EFFECTS OF HYDROELECTRIC DEVELOPMENTS**

Montreal, April 6-7, 1989

Canadian Society of Environmental Biologists

The Canadian Society of Environmental Biologists is seeking papers for its 1989 Conference. The program features a day of Case Studies on major Hydroelectric Projects in Quebec and Manitoba and a day of concurrent sessions of contributed papers on the ecological effects of hydroelectric projects, with emphasis on what might be done to reduce the impacts or characteristics of the aquatic environment, plankton, invertebrates, fish, vegetation, and wildlife. Also to be included is a session on the social and economic implications of hydroelectric developments. Papers should be 20 minutes in length and may be presented in English or French.

Authors should submit abstracts by January 31 to:

John Lilley,  
Canadian Society of Environmental Biologists  
c/o 1003 Garland Terrace,  
Sherwood Park, Alberta  
T8A 2R5.  
or call (403) 427-5792.

**TAYLOR STEEVES RETIRES AS EDITOR:**

After eight years, Dr. Taylor A. Steeves is stepping down as editor of the Canadian Journal of Botany. As we all know, these past years have been years of change, growth, and development of what is now a respected international journal. Much of the credit must go to Dr. Steeves who guided the journal through turbulent and unpredictable times. His successful establishment of the Associate Editor system has gone a long way to strengthen the diverse botanical disciplines covered by the journal. All of us in the botanical community owe a great debt of gratitude to Taylor Steeves for his tireless and enthusiastic work.

The new editor of the Canadian Journal of Botany, as noted in the Report of the Fall Executive Meeting, is Iain Taylor of the Department of Botany, University of British Columbia. Iain is, of course, well known to all of us at CBA/ABC for his many years of dedicated work on the executive. We all wish Iain the best of luck with a very difficult job and we're confident that he will maintain the Canadian Journal of Botany's already well established reputation for high quality and high standards.

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**READERS' FORUM**

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**A LETTER TO CANADA**

As past presidents of the Canadian Botanical Association/L'Association Botanique du Canada, we look forward to the achievements of the new editors of the CBA/ABC Bulletin. We believe strongly that the quality of the CBA/ABC Bulletin must be professional in order to impart to professional colleagues and associations a clear message that Canadian botany is alive, well and thriving.

With the founding of CBA/ABC in 1964, a great new era for Canadian botany was launched. The development of the CBA/ABC Bulletin in 1968 became the vital link for communication of botany throughout Canada. The CBA/ABC and its Bulletin have a clear mandate to ensure that the quality of botanical education and research in Canada is maintained at levels appropriate to that of other biological sciences. Botany is a vital part of professional biology and CBA/ABC must continue its strong tradition of making other professionals aware of the importance of botany.

We are all too conscious of the current concerns swirling around the universities on whether it is worth retaining botany in the traditional sense. We contend that the traditional aspects of botany are now essential, even more than in the past, to build sound foundations for cellular and molecular biology studies.

The CBA/ABC, through its Bulletin, needs to continue pursuit of excellence at all levels of botanical research; to encourage students to become active in botany as a profession; and, to continue the excellent traditions of Canadian botanical research. Without attention to 'traditional' fundamental botany, an understanding of biological sciences will suffer with significant losses to the entire biological community.

We commend the new editors for their attempt to revitalize and upgrade the quality of the CBA/ABC Bulletin. Such will ensure that botanists take their proper place on the biological scene in Canada.

Congratulations and best wishes for an enhanced future of botany in Canada.

*Roy L. Taylor, Ph.D.,  
Director, Chicago Botanical Garden  
Secretary 1965-67, Vice-President 1967-68, President 1968-69.*

*Janet R. Stein, Ph.D., Board of Directors 1967-69, Vice-President 1969-70, President 1970-71; Editor CBA/ABC Bulletin 1968-70.*

## POSITIONS AVAILABLE

### TECHNICAL ADVISOR

Botany Department, National University of Singapore  
Reference No. CFTC/SNG/23/1

This is a temporary, three month position, open to a plant scientist with experience in the development of instruments, or an electronics specialist who has worked closely with plant scientists in the development of instruments.

The duties would include assessment of the current use of the instruments in the department and advice on their optimisation and computer interfacing, assistance with training of technicians in the department in the understanding, use and routine maintenance of instruments and equipment, and advice and assistance with the development of relatively cheap instruments incorporating modern concepts, suitable for teaching labs.

The position would provide for £650 per week plus a daily subsistence allowance at prevailing United Nations rates. Economy Class air fares are also provided.

For further information and applications, contact:

S. M. W. Deen, Administration Officer (Field Personnel)  
Commonwealth Secretariat  
Marlborough House  
Pall Mall  
London, SW1 5HX

### CHAIR DEPARTMENT OF ENVIRONMENTAL BIOLOGY

Ontario Agricultural College

Applications are invited for the position of Chair of the Department of Environmental Biology at the University of Guelph, effective September 1, 1989.

The Department of Environmental Biology is one of ten administrative units in the Ontario Agricultural College. It has close working relationships with the other units in the College, as well as with various departments in the College of Biological Science, and with the Ontario Ministry of Agriculture and Food.

The department plays a major University role in environmental and biological studies, especially related to agriculture and resource use. Its areas of specialization include applied microbiology, entomology, plant pathology, weed

science, apiculture and environmental biology. The department currently is made up of 29 faculty members and 29 other staff.

Applicants must have a Ph.D. in a relevant field of biological or agricultural science, experience in an academic setting and an established record of scholarly achievement.

The closing date for applications is February 28, 1989. Applications should include a curriculum vitae and the names and addresses of three persons who may be contacted for reference purposes.

Enquiries and applications, which will be treated in confidence, should be addressed to:

Dr. F. L. McEwen, Dean,  
Ontario Agricultural College,  
University of Guelph,  
Guelph, Ontario.  
N1G 2W1

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Subject to final budgetary approval. The University of Guelph is committed to Employment Equity.



### POSTDOCTORAL POSITION

A postdoctoral position is available for hormonal and biochemical investigations on male sterility in plants. Candidates should have a Ph. D. in Botany/Plant Sciences with a strong background in plant development and biochemistry. Experience in plant tissue culture, protein and/or hormonal analysis would be desirable.

The position is initially for one year with a possibility of renewal for the second year. Salary range is \$19,200-22,800 (NSERC rate).

Interested candidates should send a CV, reprints/preprints of papers and at least two letters of recommendation to:

Dr. V. K. Sawhney  
Department of Biology  
University of Saskatchewan  
Saskatoon, SK. S7N 0W0  
Canada

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**Archivist:** Dr. Erich Haber  
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## THE LAST WORD:

As we are approaching the 25th anniversary of CBA/ABC we would like to put out a special issue of the Bulletin in April. If you have any memorabilia, especially photos of past CBA/ABC activities please send these as soon as possible to the editors of the Bulletin.

Again, we'd like to remind all members of CBA/ABC to contribute to the Bulletin. Send in an article on teaching or techniques, write a letter, make suggestions, get involved. But remember to get in your contribution at least 1 month before the date of publication of that issue. **NOTE: The deadline for the April issue is March 1.**

The Bulletin of the Canadian Botanical Association:  
**EDITOR:** DR. U. POSLUSZNY  
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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 (**Prof. Keith Winterhalder, Dept. of Biology, Laurentian University, Sudbury, Ontario. P3E 2C6**) of any change of address as soon as possible.