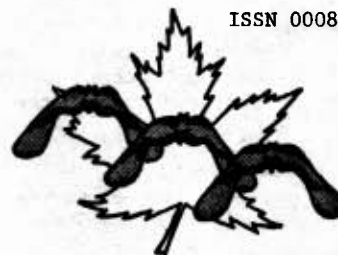


BULLETIN



L'ASSOCIATION BOTANIQUE DU CANADA

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PATRON

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

PATRON D'HONNEUR

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

C.B.A ANNUAL MEETING 1981 REUNION ANNUELLE DE L'A.B.C.
UNIVERSITY OF GUELPH - JUNE 7-11 JUIN - UNIVERSITE DE GUELPH

You are cordially invited to the University of Guelph for the sixteenth Annual Meeting of the CBA/ABC, June 7-11, 1981. This will be the first time that the Association has met at Guelph, and we hope to provide some enjoyable and stimulating experiences. The University of Guelph is located on the southern edge of the city about 60 km west of Toronto International Airport. Via Rail connects Guelph with Toronto, and Highways 6, 7 and 24 pass through the city.

Vous êtes cordialement invités à la seizième réunion de l'ABC qui aura lieu du 7 au 11 juin, 1981, à l'Université de Guelph. Ce sera la première réunion de l'association à Guelph, et nous envisageons des sessions agréables et stimulantes. L'Université de Guelph est située à l'extrémité sud de la ville et à 60 km de l'aéroport international de Toronto. Via Rail relie Toronto et Guelph, et les routes 6, 7 et 24 traversent la ville.

SCHEDULE

June 5-7 (Friday - Sunday)

Pre-conference field trip to the Bruce Peninsula
(See details below)

June 7 (Sunday)

p.m. Arrival and Registration
CBA Executive Committee Meeting
eve. Informal reception

June 8 (Monday)

a.m. Registration
Opening Ceremonies
Main Symposium: Approaches to Plant Structure - Then and Now"
(See details below)
p.m. Contributed paper sessions
S.E.M. Workshop
eve. CBA Sectional Business Meetings
Informal reception

L'HORAIRE

vendredi - dimanche, 5-7 juin

Excursion à la péninsule Bruce
(Voir informations ci-dessous)

dimanche, 7 juin

p.m. Arrivée et inscription
Réunion du comité exécutif de l'ABC

soirée Réception

lundi, 8 juin

a.m. Inscription
Cérémonies d'ouverture
Symposium principale: 'La structure des plantes, approches d'hier et d'aujourd'hui'
(voir informations ci-dessous)

p.m. Communications
Atelier: Microscopie électronique à balayage

soirée Réunion des différentes sections de l'ABC
Réception

June 9 (Tuesday)
 a.m. Contributed paper sessions
 Phycology Section Symposium:
 "Nanoplankton - State of the Art"
 p.m. Contributed paper sessions
 eve. CBA Banquet
 Presentation of Awards
 Speaker: George Setterfield

June 10 (Wednesday)
 a.m. Ecology Section Symposium:
 "Reclamation of Pits and
 Quarries"
 Contributed paper sessions
 p.m. Half-day field trip
 (See details below)
 eve. CBA Annual Meeting
 Tasting of Ontario Wines and
 Cheeses

June 11 (Thursday)
 a.m. Contributed papers (if necessary)
 CBA Executive Committee Meeting
 Field trip
 (See details below)

PROGRAM

The meeting will open with the Main Symposium, "Approaches to Plant Structure - Then and Now". The speakers taking part, and their topics, include:

- Irene Manton (Leeds): The History of Microscopy.
- Margaret McCully (Carleton): New Techniques in Histochemistry and Fluorescence Microscopy.
- John Lott (McMaster): Energy Dispersive X-ray Analysis of Plant Material.
- Nina Allen (Dartmouth College, U.S.A.): Videomicroscopy and other Techniques for Studying Cytoplasm.
- A speaker from JEOL Co.: Modern Scanning Electron Microscopy Techniques.

The Phycology Section is organizing a symposium on nanoplankton, and the Ecology Section is organizing a symposium on the reclamation of pits and quarries. Speakers for these symposia are not yet confirmed. Several contributed paper sessions have been scheduled.

CBA BANQUET AND SOCIAL PROGRAM

The Banquet is scheduled for Tuesday evening, June 9. The banquet tickets, costing \$20.00, may be purchased at the time of registration.

There will be informal receptions on the evenings of Sunday, June 7, and Monday, June 8. A tasting of Ontario wines and cheeses is organized for Wednesday, June 10.

FIELD TRIPS

Trip #1: The Bruce Peninsula (June 5-7)
 Leaders: Paul Catling, Joe Johnson, Paul Keddy, Mac Kirk.

Cost: Approx. \$100.00 (includes all meals and two nights accommodation at the Wildwood Lodge on Red Bay)

Areas to be visited include: (1) an alvar (dry, open limestone barrens) where the rare *Hymenoxys acaulis* should be at its peak of flower. (2) shoreline mires with *Castilleja coccinea*, *Drosera linearis*, *Pinguicula vulgaris* and *Primula mistassinica*. (3) sand dune succes-

mardi, 9 juin
 a.m. Communications
 Symposium de la section de phycologie: 'Nanoplancton: techniques actuelles'
 p.m. Communications
 soirée Banquet de l'ABC
 Présentation des prix de l'association
 Orateur invité: George Setterfield

mercredi, 10 juin
 a.m. Symposium de la section d'écologie: 'Réaménagement des fosses et carrières'
 Communications
 p.m. Excursion
 (voir informations ci-dessous)
 soirée Assemblée générale de l'ABC
 Dégustation de vins et fromages

jeudi, 11 juin
 a.m. Communications (si nécessaire)
 Réunion du comité exécutif de l'ABC
 Excursion
 (voir informations ci-dessous)

PROGRAMME

La réunion commencera par le symposium principal. 'La structure des plantes, approches d'hier et d'aujourd'hui'. Voici la liste des conférenciers et de leurs sujets:

- Irene Manton (Leeds): Histoire de la microscopie.
- Margaret McCully (Carleton): Nouvelles techniques en histochimie et en microscopie fluorescente.
- John Lott (McMaster): Analyse des plantes par rayons X.
- Nina Allen (Dartmouth College, U.S.A.): Vidéomicroscopie et autres techniques pour l'étude du cytoplasme.
- Un conférencier de la Cie. JEOL: Techniques modernes de la microscopie électronique à balayage.

La section de phycologie organisera un symposium sur le nanoplancton, et la section d'écologie organisera un symposium sur le réaménagement des fosses et carrières. Les conférenciers et leurs sujets ne sont pas encore connus. Il y aura aussi plusieurs sessions de communications.

BANQUET DE L'ABC ET PROGRAMME RÉCRÉATIF

Le banquet aura lieu mardi soir, le 9 juin. Les billets, au prix de \$20.00, pourront être achetés lors de l'inscription.

Des réceptions sans cérémonie sont organisées pour les soirées du dimanche, 7 juin, et lundi, 8 juin. Une dégustation de vin et fromage est projetée pour mercredi, le 10 juin.

EXCURSIONS

1^o Excursion: La péninsule Bruce (5-7 juin)
 Responsables: Paul Catling, Joe Johnson, Paul Keddy, Mac Kirk.
 Coût approximatif: \$100.00 (comprend tout les repas et deux nuits à l'auberge Wildwood, à la Baie Rouge)

Les participants visiteront les régions suivantes: (1) un site calcaire, aride et sec où le rare *Hymenoxys acaulis* devrait être en

sion in the Sauble Beach area, (4) an acid *Sphagnum* bog to contrast with the shoreline mires, and (5) mature maple-beech forest where *Orchis spectabilis* should be at its peak of flower. Other botanical specialities should include *Calypso bulbosa*, *Cypripedium arretinum*, and a great variety of insectivorous plants. Time permitting, we may also visit a section of the Niagara escarpment and a disappearing stream. A night trip for breeding amphibians and spring birds will round out the tour. Bring your hiking boots, camera, and binoculars.

Trip #2: Fern Foray to Mono Centre (June 10, afternoon)

Leaders: Don Britton and Allan Anderson
Cost: Approx. \$7.00

This afternoon trip will explore a typical central section of the Niagara escarpment and its vegetation. The outlier of escarpment at Mono Centre has a well-developed cliff face, talus slope, and protected sand valley, which contribute to its high botanical diversity. Forest types range from coniferous through to rich deciduous woods, and the vegetation is in some aspects a transition between the northern (Trip #1) and the southern (Trip #3) areas of escarpment. As well as a typical woodland flora, a wide range of ferns and fern allies can be found, including Walking Fern and the rare Hart's Tongue Fern.

Trip #3: Royal Botanical Garden, Hamilton (June 11, full day)

Leader: Jim Pringle
Cost: Approx. \$20.00 (includes lunch at "The Turner Pavilion")

The Royal Botanical Gardens has extensive natural areas as well as large special collections. June will be a perfect time for exploring the Arboretum, the Rock Garden, the Spring Garden, and the Iris collection. At the Rock Chapel Geology Exhibit, you will descend the vertical face of the Niagara escarpment. The Nature Interpretation Centre and the research facilities available to visiting botanists will also be available for visitation. If you have taken either of Trips 1 or 2 you will be able to compare the vegetation of the northern and central areas of the escarpment with the southern extremities in the Royal Botanical Gardens.

PHOTO SALON

A CBA botanical illustration and photographic competition is being organized. The exhibition of prints, slides and illustrations will be held in the foyer of the McLaughlin Library. Details of the competition will be included in the registration package.

REGISTRATION

Registration forms will be mailed near the end of February, 1981. The registration fee is likely to be around \$40.00 for regular members and \$30.00 for students.

ACCOMMODATION AND MEALS

1. University Residences: Delegates are urged to take advantage of the accommodation available at the University residences. Room rates will be as follows:

Single occupancy:	\$14.00/day
Double occupancy:	\$12.00/person/day
Students:	\$9.00/day

pleine floraison, (2) les vases du littoral où poussent *Castilleja coccinea*, *Drosera linearis*, *Pinguicula vulgaris*, et *Primula mistassinica*, (3) la succession des dunes de sable à la plage Sauble, (4) un marécage caractérisé par une abondance de sphaignes et qui contraste avec la végétation retrouvée sur la vase du littoral, (5) une forêt mature d'érables et hêtres où l'*Orchis spectabilis* devrait être en pleine floraison.

On pourra aussi observer *Calypso bulbosa*, *Cypripedium arretinum*, et une grande variété de plantes insectivores. Si le temps le permet, vous pourrez visiter l'escarpement du Niagara et un ruisseau qui disparaît sous terre. Une excursion de nuit pour observer les amphibiens en période de reproduction et les oiseaux printanniers complètera le voyage. Amenez vos bottes de randonnée, votre caméra, et vos lunettes d'approche.

2° Excursion: Les fougères du Centre Mono (après-midi du 10 juin)

Responsables: Don Britton et Allan Anderson

Coût approximatif: \$7.00

Cette excursion permettra d'explorer une section typique du centre de l'escarpement du Niagara et sa végétation. L'escarpement du Centre Mono a une grande diversité botanique: une falaise, un talus en pente, et une vallée de sable bien protégée. Les types de forêt varient de bois de conifères à de riches bois décidus, et la végétation est, sous certains aspects, une transition entre la région nord (excursion #1) et sud (excursion #3) de l'escarpement. On peut y trouver une grande variété de fougères, lycopodes et prêles, compris la Fougère ambulante et la rare Langue-de-Cerf, en plus de la flore forestière typique.

3° Excursion: Le Jardin Botanique Royal, Hamilton (journée du 11 juin)

Responsable: Jim Pringle
Coût approximatif: \$20.00 (comprend le dîner à "The Turner Pavilion - Le Pavillon Turner")

Le Jardin Botanique Royal possède de grandes étendues naturelles ainsi que des collections spéciales imposantes. Juin est le mois idéal pour explorer l'arboretum, la rocaille, le jardin printannier, et la collection d'iris. Au site géologique de "Rock Chapel", vous descendrez la face verticale de l'escarpement du Niagara. Vous pourrez visiter le centre d'interprétation de la nature et les commodités de recherche offertes aux botanistes en visite. Si vous avez participé aux excursions 1 et 2, vous pourrez comparer la végétation des régions nord et centre de l'escarpement avec celle de l'extrémité sud que l'on retrouve au Jardin Botanique Royal.

LE CONCOURS DE PHOTOS

Le concours de photos et d'illustrations botaniques est en période d'organisation. L'exposition des photos, diapositives et illustrations se tiendra à l'entrée de la Bibliothèque McLaughlin. De plus amples informations seront incluses lors de l'envoi des formules d'inscription.

INSCRIPTION

Les formules d'inscription seront postées vers la fin de février, 1981. Les frais

A meal plan will be available, costing \$12.00 per day. No on-campus meals will be available on Sunday, June 7, however. A list of nearby restaurants will be provided for those who arrive early. Fast-food meals or snacks may be obtained at the University Centre.

2. Motels near the University: Those who wish to stay off-campus may contact the following:
- a) Biltmore Motel, 785 Gordon St., Guelph (519-822-9112)
Estimated rates for June: \$28.00 single; \$35.00-37.00 double.
 - b) College Motor Inn, 716 Gordon St., Guelph (519-836-1240)
Estimated rates: \$34.00 single; \$39.00 double.
 - c) Holiday Inn, 601 Scottsdale Rd., Guelph (519-836-0231)
Estimated rates for June not yet available. Present rates are: \$39.50 single; \$45.00 double (one bed); \$49.00 double (two beds).
3. Camping: Participants wishing to camp may stay at the Riverbend Camp, RR6, Guelph, or at Guelph Lake. Details will be sent on request.

CALL FOR PAPERS

This announcement constitutes the first call for papers for the Annual Meeting 1981. Members are urged to participate by submitting abstracts for oral presentation or as a poster using the abstract form supplied. Additional copies of the abstract form will be mailed upon request. Students wishing to have their paper in competition for the Lionel Cinq Mars Award should indicate this on the abstract form.

WE'RE GOING TO WHITEHORSE!

The response to the request made in the last issue of the *Bulletin* (Would you like to go to Whitehorse?) was such that the Executive agreed at its November 28, 1980 meeting to approve the venue.

The Association has received an invitation from the Yukon Visitor's Association to meet during the first week of June, 1983. No further details are yet available, but please make plans now to attend the meeting.

This means that the future meetings of the CBA/ABC are as follows:

- | | |
|------|--|
| 1981 | Guelph, June 7-11 |
| 1982 | Regina, June 13-17 |
| 1983 | Whitehorse, early June |
| 1984 | Fredericton, June |
| 1985 | Biological Council of Canada
Sponsored Meeting. Site and
date not yet confirmed. |

d'inscription seront d'environ \$40.00 pour un membre régulier et de \$30.00 pour un étudiant.

LOGEMENT ET REPAS

1. Résidences de l'université: Les délégués sont encouragés à profiter du logement offert par l'université. Les taux sont les suivants:
- | | |
|----------------------------|-----------------------|
| Chambre pour une personne: | \$14.00/jour |
| Chambre pour deux: | \$12.00/personne/jour |
| Étudiants: | \$9.00/jour |

On pourra se procurer les billets pour les repas au taux de \$12.00/jour losr de l'inscription. Il n'y aura pas de repas servi à l'université dimanche, le 7 juin. Une liste des restaurants près de l'université sera disponible. On peut acheter des casse-croûtes et repas légers au Centre Universitaire.

2. Motels près de l'université: Ceux qui desirent demeurer à l'extérieur du campus doivent faire leurs propres réservations. La liste qui suit comprend les motels près de l'université ainsi que l'estimation de leurs taux pour juin.

- a) Biltmore Motel, 785 Gordon St., Guelph (519-822-9112)
\$28.00 (une personne); \$35-37.00 (double)
- b) College Motor Inn, 716 Gordon St., Guelph (519-836-1240)
\$34.00 (une personne); \$39.00 (double)
- c) Holiday Inn, 601 Scottsdale Rd., Guelph (519-836-0231)
Les taux pour le mois de juin ne sont pas disponibles. Les taux actuels sont:
\$39.50 (une personne); \$45.00 (double avec un lit); \$49.00 (double avec deux lits)

3. Le camping: Les participants qui le désirent peuvent camper au terrain de camping Riverbend, RR6, Guelph, ou au lac Guelph. De plus amples informations seront envoyées sur demande.

SOUMISSION DES COMMUNICATIONS

Cet avis constitue la première invitation à soumettre des communications. Les membres sont encouragés à participer en soumettant leur résumé de présentation orale ou d'affiche en employant la formule officielle ci-incluse. Des copies supplémentaires seront envoyées sur demande. Les étudiants désirant entrer en compétition pour le prix Lionel Cinq Mars devraient l'indiquer sur la formule du résumé.

MEMBERSHIP RENEWAL

The membership dues for 1981 are now due. You should soon receive renewal notices from the Treasurer, if they have not already arrived. Please send your remittance as soon as possible to the Treasurer, Dr. David Punter, Department of Botany, University of Manitoba, Winnipeg, Manitoba, R3T 2N2.

No further copies of the *Bulletin* or Association news will be sent to members who are not in good standing in the Association.

ERRATUM

The masthead of the last issue of the *Bulletin* was incorrectly labelled as Volume 12 Number 4. It should, of course, have been Volume 13.

OFFICERS OF CBA/ABC 1980-81

President:	Dr. Michael Shaw Univ. of British Columbia
Past-President:	Dr. Nancy G. Dengler Univ. of Toronto
Vice-President:	Dr. W.G. Barker Univ. of Guelph
President-Elect:	Dr. J.B. Phipps Univ. of Western Ontario
Secretary:	Dr. Iain E.P. Taylor Univ. of British Columbia
Treasurer:	Dr. David Punter Univ. of Manitoba
Directors:	Dr. W.G. Barker Univ. of Guelph Dr. A.B.M. Bouchard Jardin Botanique, Montreal Dr. D.T. Canvin Queen's Univ. Dr. P.F. Maycock Erindale College Dr. M.V.S. Raju Univ. of Regina Dr. J.S. Rowe Univ. of Saskatchewan
Editor <i>Bulletin</i> :	Mrs. Sylvia Taylor (ex off.) UBC Botanical Garden
Archivist:	Dr. W.I. Illman Carleton Univ.

CALL FOR NOMINATIONS - GEORGE LAWSON MEDALS AND MARY E. ELLIOTT SERVICE AWARD

Each year the CBA/ABC invites its entire membership to make nominations for the George Lawson Medals and for the Mary E. Elliott Service Award.

George Lawson Medal

The purpose of the award is to provide a collective and formal expression of the admiration and respect of 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 career here is eligible.

In any year, a maximum of two 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:

1. 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 in his professional career. The contribution should be of singular significance to the discipline at large.
2. 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 career, and whose influence has contributed notably to the advancement of Canadian botany.

In order that the Awards Committee may learn of botanists who are eligible for these awards, all members of the CBA/ABC are invited to submit nominations, and to consult with their colleagues for suggestions. Nominations should be accompanied by 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. Elliott 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. A citation of approximately 100 words should accompany the nomination.

Nominations for either the George Lawson Medal or the Mary E. Elliott Service Award should be submitted to the Chairman of the Awards Committee before March 31, 1981, with all necessary documentation: Dr. Michael Shaw, Office of the President, University of British Columbia, 107-6328 Memorial Road, Vancouver, B.C. V6T 2B3.

CALL FOR RESOLUTIONS OF POLICY TO BE PRESENTED TO THE ANNUAL MEETING

Resolutions for presentation to the Annual Meeting of CBA/ABC to be held in Guelph, Ontario on June 10, 1981, MUST BE DELIVERED TO THE SECRETARY NO LATER THAN WEDNESDAY APRIL 1, 1981.

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 forward outside the Association,
- b) shall be carefully worded,
- c) require a mover and 4 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: Dr. Iain Taylor, Secretary, CBA/ABC, Dept. of Botany, Univ. of British Columbia, B.C. V6T 2B1

Iain E.P. Taylor

CLASSIFIED ADS

Our next catalogue of Horticultural/Botanical books will include a section of Canadian material. Copy free. Pomona Book Exchange, Highway 52, Rockton P.O. Ont L0R 1X0 (Used-New-Old-Rare Books. Collections and single works purchased).

CBA/ABC EXECUTIVE MEETING NOTES

The Executive held a Conference Telephone Call on November 28, 1980. As decided in 1979, this replaced the Fall Executive Meeting usually held at a place central to the majority of the Executive members.

The Executive approved a request from the Treasurer that all members of the Executive and the Section Chairmen submit a budget for their anticipated expenses for the forthcoming calendar year. This will allow the Treasurer to budget the Association's funds more closely than has been possible in the past.

The Executive regretfully agreed that it was financially impossible to publish the proceedings of the 1979 Ottawa Symposia as a Supplement to the *Bulletin*. The Executive reaffirmed its position adopted in July 1980 that proceedings of CBA/ABC Symposia be published in the Canadian Journal of Botany by arrangement with the Editor of that journal.

The Executive reiterated its long-time position that officers of the Association are not to be reimbursed for expenses to attend CBA/ABC Annual Meetings.

NEWS FROM THE SECTIONS

Ecology Section

Chairman: Dr. Kaye MacInnes, 5001-52nd Ave.,
Site 11, Box 21, Yellowknife, NWT
X1A 1H1

General Section

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

The major item of business transacted during our annual meeting of the General Section held during the BOTANY 80 Conference at Vancouver was the decision to request the CBA/ABC executive to allow a change of name to "Structure and Development Section" or alternatively to establish a new S & D section. This request has been transmitted to the executive.

While it was the preference of those members present that the General Section be renamed - in fact, we see no justification for both sections - it would help considerably if we had some expression of opinion from the rest of the membership. We therefore ask that all members of the General Section complete the questionnaire included with this issue of the *Bulletin* and mail the replies to the Secretary of the Section: Dr. R. Dengler, Dept. of Biology, Scarborough College, University of Toronto, Toronto, Ont

R.I. Greyson

EDITORIAL NOTE - Many members of the CBA/ABC are members of the General Section, either from choice or because they did not indicate Section affiliation on the membership form. In the latter case, the member is automatically listed as a member of the General Section by the Treasurer.

Mycology Section

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

Phycology Section

Chairman:

Systematics & Phytogeography Section

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

Report of the Rare and Endangered Plants Committee

Canadian botanists have been active during the past year in studies of the rare and endangered plants of Canada. Much is being done, but even more needs to be done if we are to have any effect at all on the growing threats to plants and their habitats. It is the purpose of this one-man committee to keep the members of the S and P Section informed of new developments on the rare and endangered plants front.

1. Rare Plants Lists: published and in progress.

The Rare Vascular Plants of Manitoba has been published by the National Museum of Natural Sciences, as Syllogeus No. 27. The list was written by David J. White, National Museum, and Karen Johnson, The Manitoba Museum of Man and Nature.

A manuscript of the Rare Vascular Plants of the Yukon is in the final stages of preparation, and the list should be published in the Syllogeus series in late 1980.

The Rare Vascular Plants of Quebec project, under the direction of André Bouchard, is in the second year of a two-year contract from the National Museum of Natural Sciences and the Department of Supply and Services. Satisfactory progress is being made and a manuscript should be completed by about this time next year.

Work on a list of the rare vascular plants of British Columbia, under the direction of Roy L. Taylor, is nearing completion.

2. Plant Status Reports

An important step forward was taken when the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) enlarged its scope by adding a subcommittee responsible for plants. The subcommittee members are: G.W. Argus, André Bouchard (Univ. de Montréal), Paul Catling (Univ. of Toronto), and Roy L. Taylor (Univ. of British Columbia). The main objectives of the subcommittee are to prepare status reports on plant species that could qualify for endangered, threatened or rare status in Canada, and to recommend on their status to COSEWIC. The recognition of their status by COSEWIC will alert responsible agencies and will encourage action to reduce threats to their populations.

The first plant status report was written on *Pedicularis furbishiae*, a species endemic to New Brunswick and northern Maine. This species is endangered by hydroelectric development on the St. John River. COSEWIC at its April 24th meeting designated the species as endangered, and has brought this status to the attention of the New Brunswick government. Status reports are being written for *Cypripedium candidum*, *Isotria medeoloides* and *Buchnera americana*.

The plants subcommittee needs the support of botanists in the preparation of status reports on plants that are at risk in Canada. An outline for the preparation of plant status reports

and a list of candidate species are available and will be sent on request. Funds are available to aid in the preparation of status reports, and application for support can be made to COSEWIC. For further information contact George Argus, National Herbarium, Ottawa, KIA 0M8, or one of the subcommittee members.

George W. Argus, Chairman

ENDANGERED SPECIES

The following items have been abstracted from the Endangered Species Technical Bulletin Volume 5 Number 10 (October 1980), published by the Endangered Species Program, U.S. Fish and Wildlife Service, Department of the Interior, Washington, D.C. 20240.

Isotria medeoloides, the Small Whorled Pogonia, has been proposed for listing as an Endangered species. The plant is often referred to as the rarest orchid in America - there are only 16 known populations in the eastern U.S. and Canada (150-175 individuals). The species is threatened by the inadvertent loss of populations by habitat alteration, such as golf courses and housing complexes, and taking by collectors for non-commercial purposes. It is believed that there are nearly as many, if not more, dried specimens in herbaria than are known in the wild.

In 1979, *Isotria medeoloides* was known to occur in only one county in Ontario, and in 12 counties in 11 States in the U.S.

Critical Habitat is not being proposed because of the history of collecting of this species and the lack of prohibition against the taking of plants in the U.S. Endangered Species Act. "Designation of Critical Habitat would only call further attention to existing populations."

Potentilla robbinsiana, Robbins' Cinquefoil, which is now known only from one locale in New Hampshire, has been listed as Endangered with Critical Habitat.

Phacelia formosula, with only one known location in Colorado, has been proposed as an Endangered species.

Euphorbia skottsbergii var. *kalaeloana*, the 'Ewa Plains' Akoka, has been proposed for listing as an Endangered species.

The New England State Reports on Rare, Threatened, and Endangered Plants, prepared by the New England Botanical Club in cooperation with the U.S. Fish and Wildlife Service, are now available as follows (all prices U.S.):

New Hampshire	#PB 80168933	\$8.00
Massachusetts	PB 80176126	\$7.00
Rhode Island	PB 80176159	\$5.00
Maine	PB 80176167	\$6.00
Connecticut	PB 80176175	\$6.00
Vermont	PB 81106734	\$7.00

The reports may be obtained by writing to the U.S. Department of Commerce, National Technical Information Service, Springfield, Virginia 22161, enclosing a cheque made payable to the "National Technical Information Service".

XIII INTERNATIONAL BOTANICAL CONGRESS

Details of travel (with some unfortunate misprints) have been circulated to all paid-up members. If you did not receive a copy of the arrangements, please contact the Secretary or feel free to photocopy someone else's copy.

You are urged to send in your preliminary booking fee (\$50.00 per person, returnable) if you think that you are going on the CBA/ABC arranged travel.

Poorly subscribed trip(s) may be cancelled, but participants involved will be offered other arrangements.

No firm fares will be known until late Spring - do not believe anyone who claims otherwise.

We hope to prepare a set of botanical notes for those who wish such information, especially for the Cook Islands.

If there are any problems please contact the Secretary: Dr. Iain Taylor, Dept of Botany, Univ. of British Columbia, Vancouver, B.C. V6T 2B1. Phone: (604) 228-2340.

The Editor is prompted to pass on some advice to members planning to attend the Congress in Sydney.

August in the Southern Hemisphere is equivalent to February here, and Sydney can be cold, wet and windy at that time of year. In addition, central heating is not common, especially in houses and many hotels or motels. My advice is prompted by memories of August, 1975, in Melbourne, when I was colder than I have ever been before (even allowing for a British childhood!).

You will not need a fur coat and lined boots - but a heavy sweater and a raincoat will be extremely useful. Those of us hoping to go via the Cook Islands may have a packing problem!

FIRST INTERNATIONAL PHYCOLOGICAL CONGRESS

The International Phycological Society is pleased to announce its sponsorship of the First International Phycological Congress, to be held August 8-14, 1982, on the campus of Memorial University of Newfoundland. It is also anticipated that the Phycological Society of America will join with the International Phycological Society in what promises to be a major gathering of phycologists from around the world.

Please plan to attend the Congress. In addition to paper sessions, those attending will have opportunities to see at first-hand the transitional sub-arctic marine flora of Newfoundland and Labrador, and to explore the multitude of lakes, rivers and bogs of the Newfoundland taiga wilderness.

The first circular is planned for February 1981. If you wish to be placed on the mailing list, please write as soon as possible to:- The Secretariat, 1st International Phycological Congress, Department of Biology, Memorial University of Newfoundland, St. John's, Newfoundland A1B 3X9.

G. Robin South

PLANT COLLECTION GUIDELINES

The following report was presented to the Herbarium Curators' and Associates meeting held in Vancouver on July 13, 1980. It is published here because of the wide implications for all botanists in its contents.

Guidelines for Floristic Surveys by Consultants and Governmental Agencies, Including Criteria for Choice of Herbaria for Deposition of Voucher Specimens

Introduction

With ever increasing numbers of floristic and ecological surveys associated with planning studies, resource inventories and environmental impact statements, the role of taxonomists and the herbarium is becoming more important in the public sector. This is particularly so for taxonomists working in floristics and phytogeography. These surveys are often conducted in botanically significant areas, sometimes difficult of access, and thus of great interest. Botanical evidence is becoming increasingly important in hearings and court cases. Taxonomists should not choose to sit on the sidelines in these activities. If the large and increasing number of consultant and government botanical surveys are done poorly, it is much to the botanical communities' loss. Herbaria will not receive important collections and reliable records for significant areas, and critical sites may not receive the recognition and protection that they warrant.

One of the most critical aspects of this botanical activity is the support of significant records by voucher specimens in suitable herbaria. Specimens supporting important records are often not even collected. Also, the specimens are sometimes deposited in unsuitable, inaccessible collections. It is very important to taxonomists that these specimens be available for checking determinations and for research. Consultants and governmental agencies making floristic and vegetational surveys should also be made aware that, without the collection, preservation, and permanent filing of voucher specimens from their study area to allow later verification of determinations, their studies lack proper documentation. Little validity can usually be given to floristic lists if vouchers are lacking.

Guidelines

1. Vouchers should always be collected for any species of botanical significance or any species not able to be recognized with certainty in the field. An attempt should be made to have every plant species listed in a report represented by at least one voucher specimen from the general study area.
2. Wherever possible, collections should be in duplicate, or larger, sets, so that sets are available for determination by specialists, who will then keep the specimens in exchange for identifications. Also, in some instances, collecting permits may require that a set of specimens be deposited in a herbarium (e.g., a national park herbarium) that is not entirely suitable for permanent deposition of vouchers.
3. Identification of plant specimens in critical groups should be confirmed by authorities in the flora. A list of persons willing to

determine plant collections should be compiled along with the geographical area or taxonomic group in which they are experts.

4. Floristic reports should be reviewed by authorities in the flora. A review policy should be developed for this purpose, and names of people willing and capable of reviewing should be compiled.
5. Guidelines for preparation of adequate specimens, as presented in most taxonomy texts, should be followed wherever possible. An exception can be that rare species may be vouched for by photographs, supplemented, if possible, by fragments of the floral or other parts vital for positive determination, or the latter alone.
6. Specimens should be labelled but unmounted when given to herbaria for deposition. Labels should be prepared according to the guidelines presented in most taxonomy texts.
7. Arrangement should always be made with the curator of an herbarium before deposition of specimens. If requested, specimens should be given with "no strings attached" so that curators may discard worthless specimens or weed out excessive duplication. Lists of specimens discarded may be given if needed.
8. In any report or publication, the place(s) where specimens are deposited should be clearly indicated, using the acronyms found in Index Herbariorum. Also, botanists responsible for certain determinations should be acknowledged, with a list of the plants determined.
9. The choice of herbaria to which the voucher specimens from floristic or vegetational surveys are given for permanent deposition is important. As basic criteria for suitable and adequately curated herbaria for the deposition of specimens from the surveys the following may be enumerated:-
 - a) The herbaria should be public institutions. Private collections may be great treasures but are very subject to loss by catastrophe and pests, or dissolution upon the death of the owner. Specimens should also not be deposited in closets in offices of consulting firms, etc.
 - b) The herbaria should be major institutions that could always be expected to have proper storage facilities, a commitment to research, and a curatorial staff for mounting new accessions, sending out loans, and other routine curatorial activities. Local county museums, park herbaria, etc., are generally not suitable since specimens will be essentially inaccessible, and frequently are not adequately stored and protected from pests.
 - c) The herbaria should be relevant to the study site. Specimens should not be deposited in a distant collection far away from the flora that they represent.
 - d) The herbaria, if possible, should have a curator or associated researcher with an interest in the flora of the region from which the specimens come.

Tony Reznicek
Chairman

CBA'S OWN COLLECTION OF SOUTH AFRICAN FERNS

In a memorandum dated August 24, 1863, Wm. S. M. D'Urban presented a collection of South African Ferns and Lycopodiaceae to the Botanical Society of Canada. The collection found its way into company with the historic Canadian collection of the brothers Bell, Robert and John, and thence some years ago to herbarium CCO at Carleton University.

I recently became aware of the existence of this fine representation of pteridophytes from South Africa and have undertaken to list and accede these sheets, which are generously annotated with distributional notes and personal thoughts on appropriate disposition by the author of the collection. The collection is the property of CBA/ABC, and is curated in CCO for safekeeping and reference, under the names as listed herewith.

LYCOPODIACEAE

Lycopodium gnidioides L.
Lycopodium verticillatum L.

SELAGINELLACEAE

Selaginella kraussiana A. Braun

OSMUNDACEAE

Todea barbara (L.) Moore

LYGODIACEAE

Mohria caffrorum (L.) Desv.

GLEICHENIACEAE

Gleichenia polypodioides (L.) Sm.

HYMENOPHYLLACEAE

Trichomanes pyrroides L. var. *melanotrichum* (Schl.) Schelpe

PTERIDACEAE

Adiantum capillus-veneris L.
Adiantum poiretii Wikstr. in Kongel
Cheilanthes bergiana Schlect.
Cheilanthes capensis (Thunb.) Sw.
Cheilanthes eckloniana (Kunze) Mett.
Cheilanthes hirta Sw.
Cheilanthes hirta Sw. var. *contracta* Kunze
Cheilanthes multifida Sw.
Hypolepis sparsisora (Schr.) Kuhn
Pellaea calomelanos (Sw.) Link
Pellaea quadripinata (Forsk.) Prantl
Pellaea viridis (Forsk.) Prantl
Pellaea viridis (Forsk.) Prantl
a) var. *stenophylla* Kunze
b) var. *macrophylla* Sim
Pteridium aquilinum (L.) Kuhn
Pteris cretica L.
Pteris dentata Forsk.

CYATHEACEAE

Cyathea capensis (L.f.) Sm.
Cyathea dregei Kze.

ASPIDIACEAE

Dryopteris inaequalis (Schl.) O. Ktze.
Elaphoglossum acrostichoides (Hook. & Grev.) Schelpe
Polystichum aculeatum (L.) Schott
Polystichum pungens (Kaulf.) Presl
Rumohra adiantiformis (Forst.) Ching
Thelypteris bergiana (Schl.) Ching
Thelypteris pozoi (Lagasca) Morton

BLECHNACEAE

Blechnum attenuatum (Sw.) Mett.
Blechnum australe L.
Blechnum punctulatum Sw. var. *krebsii* (Kze.) Sim
Blechnum tabulare (Thunb.) Kuhn

ASPLENIACEAE

Asplenium aethiopicum (Burm.) Bech.
Asplenium aethiopicum (Burm.) Bech.
var. *tripinnatum* (Baker) sensu Sim
Asplenium boltonii Hook. ex Schelpe
Asplenium cuneatum Lam.
Asplenium erectum Bory ex Willd.
Asplenium gemmiferum Schrad.
Asplenium gemmiferum Schrad. var. *discolor* (Pappé & Rawson) Sim
Asplenium lobatum Pappé & Raws.
Asplenium lunulatum Sw.
Asplenium monanthes L.
Asplenium protensum Schrader
Asplenium rutaefolium (Berg.) Kunze
Asplenium solidum Kunze
Ceterach cordatum (Thunb.) Desv.

POLYPODIACEAE

Loxogramme lanceolata (Sw.) Presl
Pleopeltis macrocarpa (Bory ex Willd.) Kaulf.
Pleopeltis schraderi (Mett.) Tardieu
Pleopeltis thunbergiana Kaulf.
Polypodium polypodioides (L.) Hitchcock
ssp. *ecklonii* (Kunze) Schelpe
Polypodium vulgare L. sensu Sim

W.I. Illman, CCO, ELBA
Carleton Univ.
Ottawa K1S 5B6

1979 OTTAWA SYMPOSIA

It had been planned that the Symposium held at the 1979 Annual Meeting in Ottawa should be published as a Supplement to the April 1980 *Bulletin*. This proved not to be possible. Subsequently, rising costs and the financial position of the Association meant that we were no longer financially able to carry out the promise made in 1979. In addition, the CBA/ABC Executive adopted a position at its July 11, 1980 Meeting that proceedings of CBA/ABC Symposia should be published in the Canadian Journal of Botany, subject to the approval of the Editor of that journal.

Subsequent to the Executive's decision, the Secretary contacted the Editor of C.J.B., with the result that the proceedings of the Symposia "Documenting Plant Form and Development" and "Landmark Events in the Evolution of Plants" will be published in future issues of the Canadian Journal of Botany.

CBA/ABC T-SHIRTS

A few CBA/ABC T-shirts are still available for \$8.00 (including postage and handling) for adult sizes (S, M, L and XL). The shirt has short sleeves, round neck, and is white with the Association emblem (maple leaf and samaras) in green and red.

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

Hurry, supplies are dwindling fast. The T-shirt will be on sale at Guelph, provided there are any left.

The 7th Plant Development Workshop was held on November 1, 1980, at McMaster University in Hamilton. The one-day meeting was attended by about 100 botanists. The following contributed papers were presented:

1. Histochemical methods for botanical material - bright field microscopy, M. McCully, Carleton Univ.
2. Histochemical methods for botanical material - fluorescence microscopy, L. Peterson, Univ. of Guelph.
3. Clearing as a useful method for studies of plant tissues, C. Peterson, Univ. of Waterloo.
4. Methods for studying nuclei, D. Davidson, McMaster Univ.
5. Protoplasts and culture methods for studies of plant development, L. Fowke, Univ. of Saskatchewan.
6. Analytical electron microscopy, J.N.A. Lott, McMaster Univ.

The afternoon session consisted of workshops and demonstrations on various techniques for studying plant development, and there was also a poster session on display.

John N.A. Lott

FONDATION D'UNE NOUVELLE SOCIÉTÉ SCIENTIFIQUE, LA SOCIÉTÉ BOTANIQUE DU QUÉBEC

Le Québec compte aujourd'hui de nombreux botanistes (professionnels et amateurs) oeuvrant au sein d'institutions fort diverses. Contrairement à d'autres disciplines, ces botanistes ne disposaient, en dehors des associations canadiennes, d'aucun organisme à travers lequel il leur était possible d'échanger et de prendre position sur des sujets touchant leur discipline et de contribuer collectivement au développement et au progrès de la botanique. Ce sont là les principaux motifs qui ont conduit à la fondation d'une nouvelle société scientifique, la Société botanique du Québec.

C'est le 16 mai 1980, lors du dernier congrès de l'ACFAS (Association canadienne française pour l'avancement des sciences), qu'un groupe de près de cinquante personnes intéressées à la botanique a décidé de former cette nouvelle société. Lors de l'assemblée de fondation une constitution fut adoptée et un premier conseil d'administration fut élu: André Vézina (président), André Bouchard (vice-président), Jacques Cayouette (secrétaire), Claude Roy (trésorier), Collette Ansseau-Nuyt, Robert Gauthier et Pierre Morisset (directeurs). La société s'est donnée comme objectifs: de faire progresser la botanique; de favoriser les contacts et les échanges entre les personnes et les sociétés qui s'intéressent aux plantes; de favoriser la diffusion des travaux des membres. Pour atteindre ces objectifs, la société compte entre autre publier à l'intention de ses membres un bulletin d liaison. Le premier numéro de ce bulletin devrait paraître dès l'automne prochain. Peut devenir membre de la Société toute personne intéressée à la botanique qui paie sa cotisation annuelle (membre régulier, \$10.00; membre étudiant, \$5.00).

Prendre contact: André Vézina, président, Société botanique du Québec, Herbar Louis-Marie, Université Laval (pavillon Comtois), Cité Universitaire, Québec, G1K 7P4

CBA/ABC is a member of the Biological Council of Canada. This also gives us membership in the Association of Scientific, Engineering and Technological Community of Canada (SCITEC).

The objectives of SCITEC revolve around the improvement of the organization of science and technology and of communication with both the government and the public in Canada. The organization is now 10 years old. As in all such "federated" organizations, outsiders seem always willing to criticize and rarely willing to provide positive ideas; let alone actually do something.

SCITEC has several committees. The goals of two of these (Science Policy, and Parliamentary and Scientific Liaison) are important to all scientists.

Three years ago SCITEC sponsored the Canadian Parliamentary and Scientific Committee in an attempt to bring scientists and parliamentarians together and thereby to improve input by scientists to legislation and development of government policy in science and technology. It is becoming increasingly clear that more scientific societies and many more individual scientists must recognize the need for communication with politicians and make the commitment to become involved.

Once again it is notable that few botanists are involved in science politics. Those of us in universities rely on politicians for the policies and, in the last analysis, for the dollars with which we pursue our research. It is clear that informed politicians do favour science. We are obliged, if only out of self-interest, to provide information to politicians and policy makers.

The October 1980 issue of SCITEC BULLETIN contains a strong plea from the Past President of SCITEC, Dr. V.C. Abrahams, for more participation by individual scientists. "We need those who have a broad concern which extends beyond the boundaries of their discipline to come forward. Anyone wishing to participate in SCITEC activities should write to me [D. Abrahams] indicating which....areas [International Relations, Parliamentary and Scientific Committee, Science Week Committee, Publications by SCITEC, Science Policy, Annual Meeting] interest them."

The contact address is: Dr. V.C. Abrahams, Department of Physiology, Queen's University, Kingston, Ont K7L 3N6.

At a time when governments seem to demand that we woo them, we as scientists must campaign for our science or pay the consequences of low priority funding.

Iain E.P. Taylor

NEW AND FORTHCOMING PUBLICATIONS

Trees and Shrubs of the Dominion Arboretum by A.R. Buckley. 1980. Publication 1697. Agriculture Canada, Ottawa, Ont. 252 pp., with 339 illustr. \$19.95 Canada, \$23.95 other countries.

Order from: Canadian Government Publishing Centre, Supply and Services Canada, Hull, P.Q. K1A 0S9. (Cheque payable to "Receiver General for Canada".)

BOTANICAL SOCIETY OF AMERICA - ANNOUNCEMENT OF
DARBAKER PRIZE IN PHYCOLOGY FOR 1981

The Committee on the Darbaker Prize of the Botanical Society of America will accept nominations for an award to be announced at the Annual Meeting of the Society at Indiana University, Bloomington, Indiana, in August, 1981. Under the terms of the bequest, the Award is to be made for meritorious work in the study of *microscopical algae in all its facets*. At present, the Award is limited to residents of North America, and only papers published in the English language will be considered. The value of the prize for 1981 is expected to be approximately \$500. The Committee will base its judgement primarily on the papers published by the nominee during the last two full calendar years, i.e., papers dated 1979 and 1980.

Nominations for the 1981 Award, accompanied by a thorough statement of the merits of the case and by reprints of the publications for 1979 and 1980 supporting the candidate, must be received by April 1, 1981, by the Chairperson of the Committee, Dr. Patricia L. Walne, Department of Botany, University of Tennessee, Knoxville, TN 37916.

For further information, write the Chairperson, or call her at (615) 974-2256.

Carol C. Baskin
Secretary, BSA

BOOK REVIEWS

Pteridophyta und Anthophyta, 1. Teil: Lycopodiaceae bis Orchidaceae, by S. Jost Casper and Heinz-Dieter Krausch. In: *Süßwasserflora von Mitteleuropa*, edited by H. Ettl, J. Gerloff and H. Heynig. Published in 1980 by Gustav Fischer Verlag, Stuttgart - New York. 403 pp., 109 fig.

This treatment of the aquatic plants of Europe is part of the new edition of Pascher's *Süßwasser-Flora-Mitteleuropas*. The last edition of Pascher's *Süßwasserflora* appeared during the period from 1913 to 1936, and was, for many years, a standard set of identification books that was especially useful to algologists. The fifteenth volume of that edition, written by Glück and published in 1936, dealt with vascular plants, and was a rather strange (but also interesting and sometimes useful) collection of Glück's observations on the plasticity and variation of European aquatic plants.

In the new edition, vascular plants are treated in a more traditional manner. After the introductory chapters, the authors present several different keys for identifying the family, and in many instances the genus, of unknown plants. The arrangement of taxa follows that of Dalla-Torre and Harms. After the description of a genus, the authors list the most important literature and present a key to the species. A short paragraph on important diagnostic characters very often precedes this key. The keys are concise, easy to use, and reliable. The description of each species is very detailed. It is followed by a section on habitat, a section on distribution, and a list of distributional maps. Additional notes on taxonomy are given when appropriate, and keys to subspecies are also provided. The amount of information given for each species is amazing: chromosome numbers,

life forms (according to a modified version of Raunkier's system), growth forms (according to Segal), phytosociological characteristics, distributional types, etc. The North American taxa are usually mentioned in the section on distribution (e.g., *Potamogeton richardsonii* sub *P. perfoliatus*). Almost all species (with a few exceptions) are illustrated with a habit picture and a picture of important diagnostic characters. Most of the illustrations are redrawn from various sources by three different artists who were successful in finding a uniform style.

Although the *Süßwasserflora* only covers the area of central Europe, the authors include virtually all the aquatic plants of Europe, both native and naturalized. The book also deals with several recent introductions, such as some exotic species of the genus *Elodea*.

The nomenclature used by the authors deviates in many cases from that used in the *Flora Europaea*, Volume 5. For example, they have dropped the familiar name "*Potamogeton friesii*" in favour of the previously seldom used "*P. mucronatus*". They do not accept the older name *Sparganium gramineum* for *S. friesii*, although they list the former as a synonym of the latter. I wholeheartedly agree with abandoning the confused name "*Potamogeton pusillus*". I wish, however, that the authors had commented on their nomenclatural decisions regarding problematical cases.

This book, dealing with Pteridophytes and Monocotyledons, is only the first volume of a two-volume set. The list of references and the index will be published in the second volume, for which we will, hopefully, not have to wait too long. References in the text cite works published as recently as 1979, which is remarkable when one considers that this work appeared in the summer of 1980. I cannot forgive the authors for omitting certain literature, such as Ogden's works on *Potamogeton* and Aalto's monograph on pondweed fruits. I favour Ogden's method of identifying broad-leaved pondweeds using stem anatomy, and I would like to see it applied to the European material as well.

This book is an excellent example of the proper way to write a flora. I believe that its success stems from the fortunate concurrence of the authors. S. Jost Casper, a plant taxonomist from Jena, and Heinz-Dieter Krausch, a phytosociologist from Potsdam, combined skills in order to produce this remarkable handbook. This work is useful to all botanists who are not afraid of getting their feet wet.

Adolf Ceska
Ceska Geobotanical Research Co.
Victoria, B.C.

Présentation du phytobenthos limnétique, par B. Gauthier. 1979. *Mémoire de la Société linnéenne de Québec*. 78 pp.

Dans ce court mémoire, Benoît Gauthier s'attaque à un sujet qui intéresse le législateur tout autant que le biologiste: comment définir et délimiter les différentes zones littorales, et ce d'une façon qui soit aussi objective que possible. L'auteur passe premièrement en revue les efforts des différents chercheurs dans ce domaine, tant au Québec qu'à l'étranger. Gauthier discute ensuite de la détermination de la limite supérieure de l'hydrolittoral selon différents auteurs, et il

suggère l'utilisation du critère du "haut niveau normal moyen" des eaux. Le troisième chapitre consiste en une étude écologique de la végétation riparienne dans le but de définir la limite supérieure de l'étage hydrophytique. L'auteur y utilise ses propres données qu'il compare à ceux d'autres chercheurs québécois.

Gauthier, à la suite de nombreux écologues, divise les taxons de l'hydrolittoral en héliophytes (plantes palustres) et hydrophytes. A partir donc de cette revue de la littérature et de ses propres travaux, Gauthier subdivise l'hydrolittoral en milieux héliophytique et hydrophytiques, chacun comprenant deux sous-étages, inférieur et supérieur. Ce travail m'apparaît avant tout comme une synthèse des travaux passés qui permet de mieux cerner les problèmes liés à l'écologie des littoraux, surtout fluviatiles. A partir de ces données l'auteur a proposé des hypothèses qui devront être testées. Ce mémoire semble donc constituer un point de départ pour de futures recherches et discussions. (En vente à la Société linnéenne de Québec, Aquarium de Québec.)

Luc Brouillet
Macdonald Campus
McGill University

FROM THE EDITOR

During the last six months I have received an average of one book per month from publishers for review in the CBA/ABC *Bulletin*. The subjects covered are on almost all aspects of botany.

This is an appeal for CBA/ABC members who would be willing to review books to contact me so that I may start a file of possible reviewers for future use. An indication of your area of expertise and/or interest would also be helpful. The reward? A free book - the reviewer gets to keep the review copy for his/her own personal library!

Sylvia Taylor

RECENT PUBLICATIONS RECEIVED FOR REVIEW

Vascular Plants of Continental Northwest Territories, Canada by A.E. Porsild and W.J. Cody. 1980. National Museum of Natural Sciences, National Museums of Canada, Ottawa, Ont. \$80.00.

The Boreal Ecosystem by James A. Larsen. 1980. Physiological Ecology Series. Academic Press, Inc., Publishers, New York. \$45.00.

OPPOSITION SPOKESMEN

The Editor recently received a list of the P.C. Caucus Spokesmen. CBA/ABC members may be interested to know the following names and phone numbers (in Ottawa):

Agriculture	Hon. John Wise	992-2933
Horticulture	Fred King	992-0423
Science and Technology	Gordon Gilchrist	995-7485
Mines	Bill Yurko	593-5527
Forestry	Frank Oberle	996-2316
Environment	Tom McMillan	995-9537
National Parks	Blaine Thacker	995-4843

DIRECTORY OF URBAN FORESTRY PRACTITIONERS

The U.S. Forest Service is preparing a second edition of its *Directory of Professionals Practicing Urban Forestry in the U.S. and Canada*. This Directory attempts to identify those individuals currently devoting at least 75% of their time in the practice of Urban Forestry, as well as those who, although spending less than 75% of their time, have a basic responsibility in this area. If you feel that you meet the above criteria and wish to be included in the next edition of the Directory, please submit the information below to the company compiling the Directory before March 1, 1981: KC Information Services, Inc., 1320 Fenwick Lane, Suite 800, Silver Spring, MD 20910. Please note that no entry will be included unless complete information is received.

Name: (as you wish it to appear)

Area of Specialization: (select one only)

Forester	Horticulturist
Arborist	City Planner
Botanist	Land-Use Planner
Engineer	Urban Sociologist
Economist	Parks & Recreation Specialist
Architect	
Geographer	Landscape Architect

Professional Title:

Professional Address: (Organization and full address)

Telephone Number: (include area code)

The Bulletin of the Canadian Botanical Assoc.
Editor:- Mrs Sylvia Taylor

Office of the Botanical Garden
University of British Columbia
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VANCOUVER, B.C. V6T 1W5

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

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

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

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