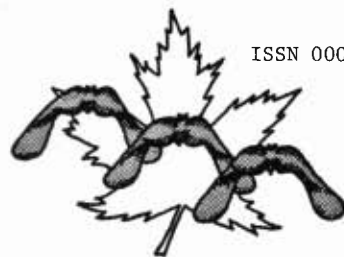


THE CANADIAN BOTANICAL ASSOCIATION

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

CBA TWENTIETH ANNUAL MEETING 1984
UNIVERSITY OF NEW BRUNSWICK - FREDERICTON
JUNE 24-27

VINGTIÈME RÉUNION ANNUELLE DE L'ABC
UNIVERSITÉ DU NOUVEAU-BRUNSWICK - FREDERICTON
24 AU 27 JUIN 1984

You are cordially invited to the Fredericton campus of the University of New Brunswick for this our TWENTIETH ANNUAL MEETING, and to partake of New Brunswick hospitality in the two hundredth year since the founding of the Province in 1784. Fredericton is located in the Saint John River about 70 miles by road from the Fundy Coast and is served by Air Canada and Eastern Provincial Airways, by SMT bus and also by the Via Rail system, through Moncton.

Vous êtes cordialement invité(e) à l'Université du Nouveau-Brunswick à Fredericton pour notre VINGTIÈME RÉUNION ANNUELLE en l'année du bicentenaire de notre province. Fredericton se trouve sur le fleuve Saint-Jean à 70 milles environ de la côte Fundy. La ville est desservie par Air Canada, Eastern Provincial Airways et l'autobus SMT, de même que par le train Via Rail en provenance de Moncton.

SCHEDULE

June 22-24 (Friday - Sunday)

Pre-conference field trip to eastern New Brunswick (see 'A' below)

June 24 (Sunday)

Pre-conference one-day field trip "Forests of the Nashwaak Experimental Watershed Project" ('B')

June 24 (Sunday)

14:00-23:00 Arrival and Registration
14:00 Outgoing Executive Meeting
19:00-23:00 Informal Reception

June 25 (Monday)

8:00-12:00 Arrival and Registration
8:30 Opening Ceremonies
8:45-12:00 Main Symposium
DEVELOPMENT OF WOODY PLANTS
1. Dr. P.B. Tomlinson (Harvard)
- "Tree Form as a Process"
2. Dr. P.R. Larson (Rhineland)
- "Shoot Development of Woody Angiosperms"

PROGRAMME

du vendredi au dimanche, 22-24 juin (avant la réunion annuelle)

Excursion dans l'est du Nouveau-Brunswick
(Voir "A", ci-après)

le dimanche 24 juin (avant la réunion annuelle)

Excursion dans la forêt du "Nashwaak Experimental Watershed Project" (voir "B", ci-après)

le dimanche 24 juin

14h-23h - Arrivée et inscription
14h - Réunion du comité exécutif sortant
19h-23h - Réception (tenue de ville)

le lundi 25 juin

8h-12h - Arrivée et inscription
8h30 - Cérémonie d'ouverture
8h45-12h - Symposium principal
DEVELOPPEMENT ET CROISSEMENT DES PLANTES LIGNEUSES
1. Le docteur P.B. Tomlinson (Harvard) - "Tree Form as a Process"

June 25 (Monday)

- 8:00-12:00 Arrival and Registration
 8:30 Opening Ceremonies
 8:45-12:00 Main Symposium
 DEVELOPMENT OF WOODY PLANTS
 1. Dr. P.B. Tomlinson (Harvard)
 - "Tree Form as a Process"
 2. Dr. P.R. Larson (Rhinelander)
 - "Shoot Development of Woody Angiosperms"
 3. Dr. J.N. Owens (Victoria)
 - "Patterns of bud and shoot development in conifers"
 12:00-13:15 Lunch
 13:15-14:45 Contributed papers session I
 14:45-15:00 Coffee
 15:00-16:15 Contributed papers session II
 16:20 Section meetings
 18:30 Dinner
 19:45 Luella Weresub Memorial Lecture
 20:30 Cash bar

June 26 (Tuesday)

- 8:30-10:00 Contributed papers III and/or sectional symposia
 10:15-12:00 Contributed papers IV and/or sectional symposia
 12:00-13:30 Lunch
 13:00-17:30 Half-day field trips and local visits
 18:30 Dinner
 20:00 Entertainment and cash bar

June 27 (Wednesday)

- 8:30-10:00 Contributed papers V and/or sectional symposia
 10:00-10:15 Coffee
 10:15-12:00 Contributed papers VI and/or sectional symposia
 12:00-13:15 Lunch
 13:15-14:45 Contributed papers VII
 14:45-15:00 Coffee
 15:00-16:15 Contributed papers VIII
 16:20-17:30 Annual General Meeting
 17:30 Incoming Executive meeting
 18:45-19:30 Reception and bar
 19:30 Banquet
 20:30 Presentation of awards
 20:45 Address
 - Dr. James Downey, President, UNB
 21:15 Cash bar

June 28-29 (Thursday - Friday)

- Post-conference field trip to western New Brunswick ('C')
 Post-conference field trip to southwestern New Brunswick and the "Quoddy" coast, marine and terrestrial ('D')

FIELD TRIPS

Mid-Conference Field Excursions (Tuesday June 26)

1. Botany of the Saint John River Valley
2. A brief look at the Fredericton region - botanical and touristic

le lundi 25 juin

- 8h-12h - Arrivée et inscription
 8h30 - Cérémonie d'ouverture
 8h45-12h - Symposium principale
 DEVELOPPEMENT ET CROISSEMENT DES PLANTES LIGNEUSES
 1. Le docteur P.B. Tomlinson (Harvard) - "Tree Form as a Process"
 2. Le docteur P.R. Larson (Rhinelander) - "Shoot Development of Woody Angiosperms"
 3. Le docteur J.N. Owens (Victoria) - "Patterns of bud and shoot development in conifers"
 12h -13h15 - Déjeuner
 13h15-14h45 - Communications I
 14h45-15h - Pause-café
 15h -16h15 - Communications II
 16h20 - Réunions des sections de l'ABC
 18h30 - Dîner
 19h45 - Conférence commémorative Luella Weresub
 20h30 - Bar payant

le mardi 26 juin

- 8h30-10h - Communications III et/ou Symposiums des sections de l'ABC
 10h15-12h - Communications IV et/ou Symposiums des sections de l'ABC
 12h -13h30 - Déjeuner
 13h -17h30 - Demi-journée d'excursions sur le terrain
 - Visites des environs
 18h30 - Dîner
 20h - Soirée sociale (bar payant)

le mercredi 27 juin

- 8h30-10h - Communications V et/ou Symposiums des sections de l'ABC
 10h -10h15 - Pause-café
 10h15-12h - Communications VI et/ou Symposiums des sections de l'ABC
 12h -13h15 - Déjeuner
 13h15-14h45 - Communications VII
 14h45-15h - Pause-café
 15h -16h15 - Communications VIII
 16h20-17h30 - Assemblée générale de l'ABC
 17h30 - Réunion du nouveau comité exécutif
 18h45-19h30 - Réception
 19h30 - Banquet de l'ABC
 20h30 - Présentation des prix
 20h45 - Allocution par le docteur James Downey, Président de l'Université du Nouveau-Brunswick
 21h15 - Bar payant

du jeudi au vendredi 28-29 juin (après la réunion annuelle)

- Excursion sur le terrain côtier et intérieur de l'ouest du Nouveau-Brunswick (voir "C", ci-après)
- Excursion sur le terrain sud-ouest du Nouveau-Brunswick et sur la côte Passamaquoddy (voir "D", ci-après)

EXCURSIONS SUR LE TERRAIN

Excursions durant la réunion annuelle (le mardi 26 juin)

1. Botanique de la vallée du fleuve Saint-Jean
2. Petite visite de la région de Frédéricion -

3. Kings Landing Historical Settlement
4. Heritage walking tour of Fredericton
5. Tours of laboratories and research stations:- Canada Agriculture Research Station, Canada Forestry Service Laboratory and the University of New Brunswick.

Pre-Conference Field Trips

- A. Eastern New Brunswick, Friday - Sunday, June 22-24. Three days, 750 km. Limit 38 people, cost \$75.00 (approx.)

Includes transportation and bag lunches; other meals and two night's lodging are participants' responsibility (accommodation will be reserved for Friday in Sackville and Saturday in Richibucto). Departure 8:00 a.m., Friday June 22 and return before 5:00 p.m. on Sunday June 24 (Thursday night accommodation will be available at Lady Dunn Hall). Leaders: H. Hinds (UNB) and H. Harries (Mt. A.).

Geobotanical phenomena will be featured along the upper Bay of Fundy coast, Isthmus of Chignecto, coastal Northumberland Strait including salt marsh, coastal lagoons, dunes, bogs and freshwater marsh, and the Miramichi estuary and valley. Side trips may include arctic outlier vegetation on gypsum cliffs, a copper bog area, Hopewell Rocks, inland salt springs, peat harvesting operation, Woodsmen and Salmon Museums.

- B. Forests of the Nashwaak Experimental Watershed Project, Sunday, June 24. One day, 200 km. Limit 30 people. cost \$12.00 (approx.)

Includes transportation and noon bag lunches. Leaders: Graham Powell and Joanne MacDonald (UNB)

A trip into the southern edge of the central uplands of New Brunswick, will include visits to lower slopes and valleys, where Red Spruce and Balsam Fir predominate and to upper slopes and ridges where Sugar Maple and Beech predominate. Each forest type will be seen in an undisturbed condition and in a recovery phase, six years after clear-cutting. The reproductive "strategies" of tree, shrub and herbaceous species under each condition will be highlighted. The return will be via the Saint John River Valley. A stop will be made at Mactaquac Provincial Park for a walk through varied habitats and an evening meal (not included in cost above) at the Lodge.

Post-Conference Field Trips

- C. Western New Brunswick Thursday - Friday, June 28-29. Two days, 450 km. Limit 38 people, cost \$40.00 (approx.)

Includes transportation and noon bag lunches; other meals and two night's lodging are participants' responsibility (accommodation will be reserved in the Grand Falls area). Departure 8:00 a.m., Thursday June 28 and return Friday, June 29 in time for late afternoon flight departures from Fredericton. Leaders: H. Hinds (UNB) and S. Clayden (Rothesay).

The vegetation of the Saint John River valley will be featured as well as the Spruce-Fir forest near the headwaters of the SW Miramichi River. Side trips may include a marly bog, acid bog, Aroostook River Gorge, and site for *Pedicularis furbishiae*.

- D. Southwestern New Brunswick and the Quoddy Coast, Thursday - Friday, June 28-29. Two days, 525 km. Limit 25 people, cost \$75.00. Includes transportation, meals (including a

(botanique et tourisme)

3. Village historique de Kings Landing
4. Les vieilles demeures de Frédéricton: promenade à pied
5. Visites de laboratoires et de centres de recherches: Agriculture Canada, Centre des recherches forestières des Maritimes, et l'université du Nouveau-Brunswick.

Excursions avant la réunion annuelle

- A. L'Est du Nouveau-Brunswick (du vendredi au dimanche 22-24 juin). Trois journées, 750 km. 38 places disponibles. Frais \$75.00

Ce prix comprend le transport et les collations. Il y a un supplément individuel pour les autres repas et le logement (2 nuits). (Le logement du vendredi est prévu pour Sackville et pour le samedi à Richibouctou.) Départ le vendredi 22 juin à 8h00: de retour avant 17h00 le dimanche 25 juin. (On peut réserver un logement pour la nuit de jeudi 21 juin à la résidence Lady Dunn.) Vos guides seront H. Hinds (UNB) et H. Harries (Mount Allison).

On visitera des sites d'intérêt géobotanique le long de la côte nord de la baie de Fundy: l'isthme de Chignecto, la côte du détroit de Northumberland (comprenant marais salant et marais d'eau douce, barachois, dunes et marécages) ainsi que l'estuaire et la vallée du Miramichi. On espère organiser des excursions secondaires aux escarpements de gypse pour voir la végétation rélique de l'arctique, à un marais de cuivre, aux Roches de Hopewell, aux sources salines, à une tourbière, et enfin on vous amènera visiter le Musée du Bûcheron et le Musée du Saumon de l'Atlantique.

- B. Forêt de la "Nashwaak Experimental Watershed Project", le dimanche 24 juin. Une journée. 200 km. 30 places disponibles. Frais \$12.00

Ce prix comprend le transport et la collation du midi. Les guides seront Graham Powell et Joanne MacDonald (UNB).

Une excursion dans le sud du massif central du Nouveau-Brunswick comprendra la visite du versant inférieur et ses vallées où dominent l'épinette rouge et le sapin. On visitera également son versant supérieur et sa corniche où l'on trouve surtout des érables et des hêtres. On verra chaque espèce dans son milieu naturel et ensuite dans un site où elle repousse six ans après une récolte complète. On peut ainsi illustrer les "stratégies" de la reproduction pour l'arbre, l'arbuste, ou autre espèce herbacée dans chaque situation. Au retour on s'arrêtera au Parc provincial Mactaquac pour une promenade à pied. Enfin on dînera au restaurant du parc (frais supplémentaires).

Excursions sur le terrain après la réunion annuelle

- C. Excursion dans l'ouest du Nouveau-Brunswick. Du jeudi au vendredi 28-29 juin. Deux journées. 450 km. 38 places disponibles. Frais \$40.00

Ce prix comprend le transport et les collations du midi. Il y a un supplément individuel pour les autres repas et le logement (deux nuits). On réservera un logement dans la région de Grand-Sault. Départ 8h00 le jeudi 28 juin. De retour le vendredi 29 juin afin de permettre aux congressistes de prendre les voies de fin d'après-midi de Frédéricton. Les guides seront H. Hinds (UNB) et S. Clayden (Rothesay)

lobster supper) and accommodation at the Huntsman Marine Laboratory, St. Andrews. Departure 8:15am Thursday, June 28, returning Friday afternoon in time for afternoon aircraft departures. Leaders: Ron Taylor and Joanne MacDonald (UNB).

A trip to the southwestern area of New Brunswick by way of the Saint John River valley will show mixed farming, Mactaquac Lake, mixed forest, sandy pine forest and blueberry field, spruce bog, St. Andrews, coastal forest, St. George, and then go by ferry to Deer Island. Return to Letere for intertidal rocky shore algal collecting at Greens Point; coastal vegetation. Lobster supper and overnight accommodation at historic St. Andrews. Visit to Little Dipper Harbour and Musquash salt marshes, the "Reversing Falls" at Saint John and return to Fredericton.

Queries may be addressed to leaders of individual field trips.

CALL FOR PAPERS

This announcement is the first call for papers. Contributed papers will be allotted a total of 15 minutes (presentation and discussion); the two sessions will run synchronously so as to permit free interchange. Friday March 20 is the deadline for submitting abstracts. Papers may be submitted by members as posters or for oral presentation. For inclusion in the printed program, abstracts must be typed in correct form on the official abstract sheet.

ACCOMMODATION

Arrangements have been made to accommodate all members who wish in Lady Dunn Hall. Rates will be approximately \$16.60 single and \$12.00 double per night. Full meal service will be available in Lady Dunn Hall and a special package rate of \$65.00 (approx.) will cover meals from breakfast June 25 to breakfast June 28 inclusive. Additional meals and nights can be arranged before or after the meeting. These prices include 10% Provincial sales tax. Lady Dunn Hall is close to Marshall D'Avray Hall where the scientific program will be held.

Lists of nearby hotels, motels and campsites will be provided.

Cette excursion permettra de voir la végétation et l'écologie de la vallée du Saint-Jean ainsi que la forêt sapin-épinette près de la source du bras sud-ouest de fleuve Miramichi. On espère organiser des excursions secondaires pour voir un marais calcaire (marneux?), un marais acide, la gorge de la rivière Arrostock et l'habitat du *Pedicularis furbishiae*.

D. Le sud-ouest du Nouveau-Brunswick et la côte Passamaquoddy. Du jeudi au vendredi 28-29 juin. Deux journées. 525 km. 25 places disponibles. Frais \$75.00

Ce prix comprend le transport, les repas (y compris un souper au homard) et le logement au Laboratoire Huntsman Marine de Saint-André-sur-mer. Départ 8h15 le jeudi 28 juin. De retour vendredi après-midi assez tôt pour prendre les vols de fin d'après-midi. Les guides seront Ron Taylor (UNB) et Joanne MacDonald (UNB).

Cette excursion dans le sud-ouest du Nouveau-Brunswick à travers la vallée du Saint-Jean vous permettra de voir la diversité de l'agriculture et de la forêt, le lac Mactaquac, les pinèdes des régions sablonneuses et des champs de bleuets. Ensuite nous verrons un champ d'épinette, Saint-André-sur-mer, la forêt côtière et St. George où nous prendrons le traversier pour aller à Deer Island. De retour à Letete nous aurons l'occasion de collectionner des algues de la côte à marée basse à Green's Point et de voir la végétation côtière. Souper au homard et logement dans la ville historique de Saint-André-sur-mer. Au retour une visite à Little Dipper Harbour et le marais salant de Musquash et aux "chutes reversibles" à Saint-Jean avant de rentrer à Frédéricton.

Pour plus amples renseignements on peut s'adresser aux guides des différentes excursions.

COMMUNICATIONS

Cette annonce est une première invitation à soumettre une communication. On accorde 15 minutes pour chaque communication (y compris la présentation et la discussion). Il y aura deux séances à la fois afin de permettre un libre échange. Le vendredi 30 mars est la date limite pour la soumission des résumés. Les membres de l'Association peuvent soumettre des communications par affiche ou en vue d'une présentation orale. Pour être imprimé au programme, les résumés doivent être dactylographiés selon le format habituel sur la feuille désignée à cette intention.

LOGEMENT

Tous les congressistes qui le désirent peuvent être logés à la Résidence Lady Dunn. Le tarif est de \$16.50 (chambre simple) et de \$12.00 (chambre à deux personnes) par nuit. Le restaurant de la Résidence servira trois repas par jour. Pour la somme de \$65.00 on aura droit à tous les repas à partir du petit déjeuner du 25 juin jusqu'au petit déjeuner du 28 juin. On peut également obtenir un logement ou des repas en dehors de ces dates en demandant une réservation à la Résidence. Les prix sont sujets à une taxe de vente provinciale de 10%. La Résidence Lady Dunn est à proximité du pavillon Marshall D'Avray où aura lieu le programme scientifique.

On tient à la disposition des congressistes une liste des hôtels, des motels et des sites de camping dans la région avoisinante.

SPOUSE AND FAMILY PROGRAM

Fredericton is the cultural and administrative centre of New Brunswick; places of special interest include the N.B. Legislature, the Beaverbrook Art Gallery with its internationally famous British and Canadian collections, the York Sunbury Museum in the historic "Military Compound Area", several private art galleries and craft centres. Opportunity will be provided to visit them and to explore the historic downtown area. Fredericton has facilities for recreation in O'Dell Park and Nature Reserve, various other community parks and playgrounds with 4 outdoor pools in the city and at nearby Mactaquac Provincial Park and golf course.

If interest warrants, trips may be arranged to historic St. Andrews, Saint John, and Kings Landing Historic Settlement.

PROGRAMME DES FAMILLES

Frédéricton est le centre culturel et administratif du Nouveau-Brunswick. Notons parmi d'autres bâtiments d'intérêt touristique, l'Assemblée législative de la province, le Musée d'art Beaverbrook avec ses célèbres collections britannique et canadienne, le Musée York-Sunbury installé dans l'ancienne caserne de l'époque coloniale. Il y a aussi plusieurs galeries d'art et centres d'artisanat qui méritent une visite. Frédéricton offre des centres de loisirs tel le parc O'Dell et plusieurs autres parcs et terrains de jeu et de golf. Il y a 4 piscines extérieures dans la région de la capitale.

S'il y a une demande suffisante on organisera des voyages à Saint-André, à Saint-Jean et au village historique de Kings Landing.

* * * * *

NEW AWARD FOR MYCOLOGICAL STUDENTS

Applications for the first Luella K. Weresub Mycology Award are now being accepted. If you are a mycologically oriented undergraduate or graduate student, or if you supervise or know someone who may be eligible, please read this announcement carefully.

This Award has been established to honour the memory of Luella K. Weresub, who taught so many of us so much, and whose life-long love of people, ideas, fungi and the English language made an indelible impression on all who knew her. The Award is intended to further some of the things she cared about: young people, mycological research, and excellence in the use of language.

Amount: The first Award will consist of \$1,000.

Eligibility: All students now working with fungi at Canadian Universities are eligible, as are Canadian students at Universities abroad. Research topics include fungal taxonomy, ecology, physiology, biochemistry, and genetics; plant pathology; forest pathology; medical mycology; fungal biotechnology; and perhaps others.

Conditions: The award will be given for the best paper arising from mycological work to be published in 1983. The judging committee will take into account originality, scientific significance, presentation and use of language, and its decision will be final. Although it may be preferable that the student be the sole author of the paper, joint papers will also be considered, if they are accompanied by a statement on University letterhead, signed by all authors, estimating the percentage responsibility of each author for: (1) the ideas that led to the initiation of the project; (2) the actual 'hands-on' research; (3) the writing of the manuscript. All applications should be submitted by the student's supervisor, and should include the following:

- (A) Four copies of the actual publication
- (B) Four copies of the candidate's curriculum vitae
- (C) A statement indicating that the student is currently enrolled in a degree program, or has completed that program during the calendar year for which the award is to be made

- (D) A statement from the supervisor, the student, and any co-authors, establishing responsibility for the paper as outlined above.

Address and Deadline for Submission: Applications and supporting documents should be sent to: Dr. Bryce Kendrick, Department of Biology, University of Waterloo, Waterloo, Ont N2L 3G1 before February 28, 1984.

Judging Committee: The Committee will consist of Professor Bryce Kendrick (Waterloo), Professor Dave Malloch (Toronto), Dr. Kris Pirozynski (National Museum), Dr. Scott Redhead (Canada Agriculture), and the President of the Canadian Botanical Association. The Committee reserves the right to make no award if submissions are not considered to be of sufficiently high quality or to share the award between two applicants if their papers appear to be of equal merit.

Date of Award: The winner will be notified by the end of April 1984 and the award will be presented at the Annual Meeting of the Canadian Botanical Association.

Donations: The Treasurer of CBA, Dr. Douglas Davidson, Department of Biology, McMaster University, Hamilton, Ont L8S 4K1, will be pleased to receive donations (which are tax-deductible) to the capital fund which finances this award.

5TH ANNUAL REGIONAL MYCOLOGY WORKSHOP

The 5th Annual Regional Mycology Workshop will be held on 18-19 February, 1984, at the University of Waterloo, Waterloo.

The theme for the 1984 meeting is TEACHING MYCOLOGY. This is of obvious interest to University Faculty members and to graduate students aspiring to Faculty positions, but we hope that those who work in Government Laboratories will also find it worthwhile to come, because they supply teachers with much new material, and can also give their disinterested perspectives on the way mycology is taught today.

For further information contact: Dr. Bryce Kendrick, Dept. of Biology, Univ. of Waterloo, Waterloo, Ont N2L 3G1

OFFICERS OF CBA/ABC 1983-1984

President:	Dr. W. George Barker Univ. of Guelph
Past-President:	Dr. James H. Soper Nat.Mus.Nat.Sci., Ottawa
Vice-President:	Dr. A.R.A. (Ron) Taylor Univ. of New Brunswick
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	Dr. Keith E. Denford Univ. of Alberta
	Dr. J. André Fortin Univ. Laval
	Dr. Richard Hebda B.C. Prov. Museum
	Dr. Vipen K. Sawhney Univ. of Saskatchewan
Editor <i>Bulletin</i> : (<u>ex off.</u>)	Mrs. Sylvia Taylor UBC Botanical Garden
Archivist:	Dr. W.I. Illman Carleton Univ.

NEWS FROM THE SECTIONS

Ecology Section

Chairman: Bruce A. Roberts, Canadian Forestry
Serv., P.O. Box 6028, St. John's,
Nfld A1C 5X8

General Section

Chairman: Joanne MacDonald, Dept. of Forest
Resources, Univ. of New Brunswick,
Bag Service #44555, Fredericton, N.B.
E3B 6C2

Mycology Section

Chairman: James A. Traquair, Harrow Research
Station, Harrow, Ont NOR 1G0

Phycology Section

Chairman: Gordon G.C. Robinson, Dept. of
Botany, Univ. of Manitoba, Winnipeg,
Man R3T 2N2

Structure & Development Section

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

Systematics & Phytogeography Section

Chairman: Keith E. Denford, Dept. of Botany,
Univ. of Alberta, Edmonton, Alta
T6G 2E9

CBA/ABC REPRESENTATIVES TO BCC

<u>Executive</u>	Member: W.G. Barker Alternate: G.A. Mulligan
<u>Council</u>	Member: J. McNeill Alternate: G.A. Mulligan

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 Fredericton, N.B., in June 1984, MUST BE DELIVERED TO THE SECRETARY OF THE ASSOCIATION NO LATER THAN FRIDAY, JUNE 15, 1984.

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:-

- should declare the policy of the Association on matter(s) that shall be forwarded outside the Association,
- shall be carefully worded,
- require a mover and 4 seconders, all of whom must be members in good standing,
- must be accompanied by a supporting brief,
- must be accepted by the Board of Directors before presentation to the Annual Meeting,
- must be presented in person by one of its sponsors,
- require the approval of two-thirds of the members present and voting at the Annual Meeting.

Send resolutions and accompanying material to:- Dr. Iain E.P. Taylor, Secretary, CBA/ABC, Dept. of Botany, Univ. of British Columbia, Vancouver, B.C. V6T 2B1

Iain E.P. Taylor

LIONEL CINQ-MARS AWARD

The following regulations will apply to the judging for the Award:-

- The Lionel Cinq-Mars Award shall be given for the best student paper presented at the Annual Meeting of the CBA/ABC.
- Any *bona fide* student enrolled at any Canadian institution of higher learning is eligible.
- Guidelines to competitors:-
 - The paper will be presented during the appropriate session as determined by the program committee.
 - Adjudication will be on the basis of: Content, 60% (originality, technical expertise, and associated subject knowledge, and Presentation, 40% (lucidity and logical flow, value of visual aids if appropriate, audibility, and 'presence').

The Lionel Cinq-Mars Award is presented at the Banquet at the Annual Meeting of the CBA/ABC based on a decision made by a judging panel chaired by the President-Elect. The award has been raised from \$100 to \$200, effective at the 1984 meeting. The winner will also become an honorary member of the Association for the next year. The panel is composed of one member from each of the Sections of the Association, and one member must be francophone.

A student member wishing to compete and be considered for the Award must so indicate on the Abstract Form when submitting it to the organizing committee for inclusion in the program of contributed papers. Failure to indicate the decision to enter the competition by checking the appropriate box on the Abstract Form, even though unintentional, cannot be corrected later.

G.A. Mulligan, Chairman
Judging Panel, Lionel Cinq-Mars Award

The Executive once again participated in the Conference Call, which has replaced the Fall Executive Meeting since 1980. This year, the Conference Operator managed to connect 7 members of the Executive between Vancouver and Fredericton on November 30, with very few problems. Following are extracts from the Minutes of this call.

The President reported that we have received a clear statement of accountability from BCC concerning their travel budget (see BCC item elsewhere). The President was instructed to convey to BCC the Executive's satisfaction with the information provided.

The Past-President reported that a letter has been sent to CSPP repeating CBA/ABC opposition to a name change for the Canadian Journal of Botany.

The Secretary requested a budget not to exceed \$200 to explore the possibilities of preparing a Membership Directory, possibly with CSPP participation — approved. He reported that the implications of CBA/ABC's tax-exempt charitable status have been clarified and passed on to the Treasurer. The transfer of the archives to the National Archives is substantially complete. The original of the Lawson Medal will be transferred to the National Archives as soon as personal delivery can be arranged.

The Treasurer moved that \$1,000 be the Luella Weresub Prize in Mycology for 1984. This amount is subject to review each year as and when interest rates on the principal are reviewed — approved. The value of the Lionel-Cinq Mars Award was increased to \$200 plus one year's honorary membership in CBA/ABC.

The Vice-President reported that matters are well in hand for the 1984 Annual Meeting.

The Editor of the *Bulletin* requested guidance on advertising rates. The Executive approved an increase in the rates to \$10 per published column inch for Positions Open and Classified categories.

Concern was expressed that the Conservation Committee appears to deal principally with conservation matters in Ontario. It was pointed out that issues must be brought to the attention of the Committee, and it is therefore up to members in other provinces to do this.

BCC INFORMATION

The following items are taken from the report of the BCC Fall Meeting, held on 10 November, 1983, in Ottawa.

1. The BCC document on government hiring policy seems to be having some effect, at least in some quarters of the Public Service.
2. An inventory of biological Field Stations in Canada has been completed and copies are available (see notice elsewhere in this issue).
3. A committee, chaired by Taylor Steeves, was established to consider possible BCC involvement in the forestry situation in Canada.
4. A BCC information leaflet should be available soon for distribution through the constituent societies.
5. NSERC is still uneasy about the matter of an Advisory Committee on Life Sciences to NSERC.

Concern re the amount of BCC executive travel and entertainment was expressed at Grand Forks. As a result, there has been an exchange of letters between the CBA/ABC President, W. George Barker, and the BCC President, G. Robin South. Reprinted below are extracts from Dr. South's letter, which explained the matter to the unanimous satisfaction of the CBA/ABC Executive.

"... the mandate of the BCC is different from [that] of the member societies, in that through its executive and particularly through its President it must make representation across the breadth of this enormous country on issues concerning science policy. You will appreciate that a surprisingly large proportion of these funds with respect to travel [and entertainment] are met from the budgets of the executive members themselves, not least that of the President. It is therefore important to realize that a proportion of the so-called executive travel and entertainment is actually funded from sources other than the BCC. It is impossible to pursue [these] issues without some travel and indeed without some entertainment. The cost to the members of the various BCC societies is on a per capita basis extremely small in relation to the potential returns

"... I can assure you and the members of CBA that a great deal of attention has been paid on my part to the question of economizing on the amount of travel necessary, and in substantially reducing the amount of entertainment paid for from BCC funds. The entertainment is now reduced to two modest receptions at the two meetings of BCC Savings in travel could be made were it not considered necessary for the President to attend the annual meetings of the constituent societies the BCC report has been presented by members of the Executive other than the President at some of the society meetings, partly due to conflicts in my office with other events, or to the ready accessibility of a member of the Executive to the meeting site. Certainly this question will be explored further in our Council, but I have found the exchange between the members and myself was extremely valuable

" I hope that I have assured you that every effort is being made to reduce travel and entertainment costs to the bare essentials. I am just as sensitive to the concerns about this as will be my fellow members of the CBA, but I am also convinced that one cannot run an organization such as the BCC without essential travel of at least the President and key members of the Executive to attend critical meetings during the year. Extensive use is made of the telephone. I would like you to convey to the members of CBA that these expenses have in the current year been met entirely from the budget of my own University.

"... It is fortunate for me, as it has been for my recent predecessors, that my University does support such an activity [of an umbrella organization]. I hope that the members of your association will continue to do so since their activities are much closer to those of the BCC

Dr. Thomas M.C. Taylor, Professor Emeritus of Botany at the University of British Columbia, died on August 6, 1983, at the age of 79. Dr. Taylor was Chairman of the Department of Biology and Botany at UBC from 1954-1964. He retired in 1968 and moved to Victoria, B.C., where he died.

"Tommy" Taylor was born in Pretoria, South Africa, on July 7, 1904, and was educated at the Royal Naval College of Canada (First Class Certificate, 1922), the University of British Columbia (B.A. with honours in Biology, 1926), the University of Wisconsin (M.S. in Plant Pathology, 1927), and the University of Toronto (Ph.D., 1930). He taught in the Botany Department at the University of Toronto for 19 years, from 1927-1946, although his time there was interrupted by war service from 1942 to 1945. Dr. Taylor was appointed to the rank of Professor at the University of British Columbia in 1946, becoming Director of the UBC Botanical Garden in 1951, and Head of the Botany Department in 1954.

Dr. Taylor was widely known as one of Canada's experts on ferns, and was the author of a book and numerous articles on these plants. He maintained an active interest in botany after his retirement, writing four handbooks on plant families of British Columbia for the B.C. Provincial Museum that were published between 1971 and 1974. He was also interested in the flora of Ontario during his time at the University of Toronto. There are two unpublished manuscripts on the flora of Sibley Point in Ontario in the files of the Botany Division, National Museum of Canada, Ottawa.

Dr. Taylor visited the Queen Charlotte Islands with a UBC Centre for Continuing Education study group less than a month before his death, celebrating his 79th birthday on board the ship.

Dr. Taylor had three graduate students while at UBC -- Frank Lang, Walter Lewis and K.J. Roller.

He was predeceased by his wife Barbara in 1971, and leaves four children -- Pat (a biophysicist at the University of Western Ontario), Jean (married to Job Kuijt of the University of Lethbridge), Susan, and Phyllis.

Publications

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WHAT'S ON IN SYSTEMATICS AND PHYTOGEOGRAPHY IN CANADA

V. QUEBEC

(Jacques Cayouette, Québec)

Sources d'information: Luc Brouillet (pour l'institut botanique de l'Université de Montréal et le Jardin botanique de la ville de Montréal). Bulletin de L'AQUA, vol 8 no. 3, 1982 (pour le Département de géographie de l'Université de Montréal). Bulletin de la Société botanique du Québec, no. 2, 1982 (pour le reste de la botanique à Montréal). Bulletin de la Société botanique du Québec, no. 4, 1982 et no. 6, 1983, en préparation (pour la botanique à Québec).

Montréal

UNIVERSITE DE MONTREAL, INSTITUT BOTANIQUE

Luc Brouillet — travaux sur le genre *Aster* au Québec et sur l'évolution de ce genre; étude systématique de genre *Begonia*; systématique des Angiospermes; conservateur de l'Herbier Marie-Victorin (MT).

Stuart G. Hay — étudie les genres *Juncus* et *Cyperus* au Québec, ainsi que les Cypéracées en général; travaille sur la flore de l'Abitibi; assistant-conservateur de l'Herbier Marie-Victorin.

André Legault — *Aster cordifolius* au Québec; variation morphologique et cytogéographie (maîtrise en cours).

Francine Houle — *Aster* sg. *Brachyactis*: biologie de la reproduction et biosystématique des 3 taxons de ce groupe (maîtrise en cours).

Hélène Brousseau — cytogéographie et variation d'*A. lateriflorus* et *A. lanceolatus* au Québec, pour compléter nos connaissances sur l'histoire de la flore québécoise (maîtrise en cours).

Gaston Sylvain — étude sur les *Salix* du sud-ouest du Québec (maîtrise en cours).

André Bouchard — flore de l'Abitibi; étude écologique de la région du Haut Saint-Laurent.

Yves Bergeron — flore de l'Abitibi; études écologiques du Haut Saint-Laurent; herbiers aquatiques du Lac des Deux-Montagnes; étude numérique des Hamamelididae; maintenant au Centre de Recherches en Ecologie de Montréal.

Isabelle Saucier — étude sur la végétation du Haut Saint-Laurent (maîtrise en cours).

Sylvie Poitras — étude sur les fougères du Québec (maîtrise en cours).

N.B.: Bouchard, Barabé, Hay et Dumais viennent de terminer la liste des plantes rares Québec (parution en 1983 dans Syllogeus).

VILLE DE MONTREAL, JARDIN BOTANIQUE

Denis Barabé — étude systématique et morphologie florale des Aracées; systématique du genre *Begonia*; étude numérique et cladistique des Hamamelididae; systématique des Angiospermes.

Gilles Vincent — a terminé une étude floristique d'une portion de la réserve de Caughnawaga; étude des herbiers du Lac des Deux-Montagnes; étude numérique des Hamamelididae; malherbologiste à la Ville de Montréal: contrôle et taxonomie des mauvaises herbes urbaines.

UNIVERSITE DE MONTREAL, DEPARTEMENT DE SCIENCES BIOLOGIQUES

Laboratoire de paléobiogéographie et de palynologie

Jean-Pierre Simon — (avec la collaboration de Anne-Marie Parent et de Madeleine Gauthier) Adaptation et acclimatation thermique de plantes supérieures au niveau enzymatique; recherche des mécanismes génétiques qui contrôlent la variation enzymatique. Travaux sur *Arabidopsis thaliana*, *Viola* spp., *Echinochloa crus-galli*, *Corydalis sempervirens*, céréales,

UNIVERSITE DE MONTREAL, DEPARTEMENT DE GEOGRAPHIE

Laboratoire de paléobiogéographie et de palynologie

Pierre J.H. Richard (palynologie) et Alain Larouche (analyse macrofossile) — recherches sur la paléophytogéographie post-glaciaire du Québec.

Pierre J.H. Richard — poursuit la rédaction d'un livre sur "Les paysages végétaux du Québec dans une perspective temporelle". Dirige ou codirige la plupart des travaux des personnes suivantes:

Claude Labelle — paléophytogéographie postglaciaire en Gaspésie par l'analyse des pollens et des macrorestes (doctorat en cours).

Louise Savoie — analyses polliniques de sédiments inorganiques et d'échantillons de surface (mousses) en relation avec le Quaternaire des Torngats (N. Québec et Labrador) (doctorat en cours).

Michèle Fréchet — analyse macrofossile des sédiments du lac Bromont en vue d'en reconstituer l'histoire de l'environnement post-glaciaire (maîtrise en cours).

Carole Mathieu — étude palynologique de paises de la région du Koroc (Ungava) (maîtrise en cours).

Anne De Vernal — étude pollinique des dépôts interstadias et interglaciaires de Baie Saint-Laurent (Ile du Cap-Breton) (maîtrise récente).

Guy Lortie — étude des Diatomées dans les sédiments quaternaires du sud du Québec.

UNIVERSITE DE MONTREAL, CENTRE DE RECHERCHES ECOLOGIQUES DE MONTREAL (CREM)

Organisme pluridisciplinaire qui touche à certains aspects de la floristique

Raymond McNeill — la flore mycologique des boisés de la région de Montréal (avec la collaboration de Peter Neuman du Département de sciences biologiques de l'Université de Montréal).

Bernadette Pinel-Alloul — étude du phytoplancton en relation avec la création de réservoirs dans le Nord québécois.

UNIVERSITE DU QUEBEC A MONTREAL (UQAM), DEPARTEMENT DES SCIENCES BIOLOGIQUES

Laboratoire de botanique appliquée

Claude Hamel — (responsable). Etude des hydrophytes vasculaires: écologie, cartographie, distribution. Cartes de distribution des hydrophytes vasculaires du Québec à partir des grands herbiers nords-américains.

Denis Jacques — cartographie et photointerprétation des plantes aquatiques et riveraines du Haut-Richelieu.

Manon Bélanger — Etudes floristiques et écologiques des hydrophytes vasculaires du Haut-Richelieu (maîtrise en cours).

UNIVERSITE MCGILL, CAMPUS MACDONALD

Laboratoire de génétique

William F. Grant (directeur) — Cytogénétique, mutagenèse, cytotaxonomie et amélioration génétique chez *Lotus* (Fabaceae). Amélioration génétique de *Vaccinium corymbosum*.

C.W. Crompton — Examen des relations interspécifiques chez *Lotus* à l'aide d'une étude palynologique au microscope électronique à balayage (maîtrise en cours).

Laboratoire de malherbologie

Alan K. Watson (directeur) — Nombreux travaux en malherbologie dont les études de dynamique des populations de mauvaises herbes, avec emphase sur les espèces vivaces.

Daniel Cloutier — Biologie et écologie d'*Equisetum arvense* (maîtrise récente, 1982). Dynamique des populations de *Cyperus esculentus* (doctorat en cours).

M.G. Sampson — L'effet des facteurs biotiques sur la dynamique des populations d'*Agropyron repens* (doctorat en cours).

Laboratoire de taxonomie et herbier

Dorothy E. Swales (conservateur émérite) — Flore arctique. Flore du Domaine Bider, Lac Carré.

Marcia J. Waterway (présentement aux études au Bailey Hortorium de l'Université Cornell) — Taxonomie de *Carex* sect. *Heleonastes*. Floristique des environs de Schefferville. Etudes sur *Carex aquatilis*.

UNIVERSITE LAVAL, DEPARTEMENT DE BIOLOGIE

Pierre Morisset — Etude biosystématique de certains groupes de plantes vasculaires (*Empetrum*, *Eriophorum*, *Poa*). Biologie des populations de plantes de milieux ouverts ou perturbés. Flore vasculaire et phytogéographie du Québec nordique (avec le Centre d'Etudes Nordiques). Dirige (ou co-dirige) les travaux suivants des personnes suivantes:

Jacques Cayouette — Etude biosystématiques des *Carex* halophytes de la section *Cryptocarpace* pour l'est de l'Amérique du Nord (doctorat en cours). Cytologie de certaines sections du genre *Carex* (*Acutae*, *Limosae*, *Atratae*, *Extensae*).

Louise Filion — Dynamique holocène des systèmes éoliens et signification paléoclimatique (Québec nordique) (doctorat complété 1983)

André R. Bouchard — Etude démographique d'une population de *Polygonum scabrum* Moench dans un champ labouré (maîtrise terminée 1983).

Céline Boutin — La plasticité phénotypique chez *Chrysanthemum leucanthemum* L. (maîtrise en cours).

France Brulotte — Hybridation entre l'épinette noire (*Picea mariana* (Mill.) B.S.P.) et l'épinette rouge (*P. rubens* Sarg.) au Québec. (maîtrise complétée 1983; co-direction avec Louis Parrot du département d'écologie et de pédologie).

Jean Deshayé — La flore vasculaire d'un archipel nordique: une étude de biogéographie insulaire (maîtrise en cours).

Martin Dubé — Etude de la variation de *Festuca rubra* L. dans l'est du Québec (maîtrise

en cours). Taxonomie et distribution canadienne du groupe *Festuca pratensis*.

Luce Dumont — La flore et la végétation macrophytiques des lacs du parc des Laurentides (maîtrise en cours).

Claudel Lemieux — Compétition entre la spargoute des champs (*Spergula arvensis* L.) et la sétaires glauque (*Setaria glauca* (L.) Beauv.) (maîtrise complétée 1983; co-direction avec Jean-Marc Deschênes d'Agriculture Canada).

Laboratoire de phycologie, GIROQ (Groupe Inter-universitaire de recherche océanographique Québec)

André Cardinal — Nombreux projets, entre autres: distribution des algues sur le Saint-Laurent; diatomées des glaces, diatomées benthiques marines de substrats durs: taxonomie, écologie, écophysiologie. Dirige les travaux suivants:

Michel Poulin — Etude taxonomique et écologique d'une communauté épontique (Détroit de Manistounuk, Baie d'Hudson) (doctorat complété 1983).

Hélène Desilets — Les populations phytoplanctoniques littorales de l'estuaire maritime du Saint-Laurent (maîtrise en cours).

Miriam Sole — Variations morphologiques intraspécifiques chez les diatomées benthiques marines (maîtrise en cours).

UNIVERSITE LAVAL, DEPARTEMENT DE PHYTOLOGIE

Danielle Bernier — Biologie d'*Euphorbia cyparissias* (maîtrise en cours sous la direction de Robert Beeraj).

Anne-Marie Lapointe — Biologie et seuil de nuisibilité de *Chenopodium album* dans l'avoine et la luzerne (maîtrise en cours sous la direction de Paul Gervais et co-direction de Jean-Marc Deschênes d'Agriculture Canada).

Michel Brind'Amour — Phytogéographie du littoral du fleuve Saint-Laurent et évaluation de la productivité primaire épigée des marais (maîtrise en cours sous la direction de Victorin Lavoie). Etude sur le genre *Spartina* au Québec.

Gyorgy M. Oláh — Recherche systématique et dynamique de la mycoflore du Québec (aspects théoriques et pratiques).

Luc Vézina — Biologie de la petite oseille (*Rumex acetosella* L.) dans les fraisières (maîtrise en cours sous la direction de Henri-Paul Therrien et la co-direction de Claude-J. Bouchard d'Agriculture-Québec).

UNIVERSITE LAVAL, HERBIER LOUIS-MARIE

La recherche est principalement axée dans les domaines suivants: taxonomie, phytogéographie et floristique des vasculaires et des bryophytes (*Sphagnum*), histoire de la botanique canadienne et bio-bibliographie botanique.

Robert Gauthier (conservateur de l'Herbier, QFA) — Taxonomie et distribution du genre *Sphagnum* (avec la collaboration de Gilles Ayotte, Michelle Boivin et Claude Roy). Flore du Nouveau-Québec (avec le Centre d'Etudes Nordiques). Catalogue de l'Herbier Léon Provancher (avec la collaboration de Pierre Morisset, Jacques Cayouette et Martin Dubé).

Bernard Boivin (anciennement de l'Institut de Recherches biosystématiques Ottawa, maintenant retraité) — Flore des provinces des prairies, du Québec-Labrador et des

régions limitrophes. Bio-bibliographie et histoire de la botanique canadienne. La botanique canadienne des herbiers étrangers. Etude des types de *Salix* dans l'Herbier Barratt.

Jacques Cayouette — Phytogéographie et écologie des plantes vasculaires des milieux ouverts du secteur calcaire de la rivière Shipshaw (Saguenay). Additions à la flore vasculaire du Québec (avec la collaboration de Jean-Paul Bernard, Claude Roy et Martin Dubé). Etude sur le genre *Lycopus* au Québec (avec Robert Gauthier). Etude d'une communauté de plantes arctiques-alpines dans le comté de Charlevoix (avec la collaboration de Richard Cayouette, conservateur-retraité de l'herbier du Québec). Bibliographie d'Ernest Lepage (avec la collaboration de Marcel Blondeau).

Guy Baillargeon (actuellement au doctorat à Berlin, Allemagne) — Zonation et modification de la composition floristique de la flore vasculaire dans une région urbaine: la colline de Québec (maîtrise terminée 1981).

Nicole Charest (actuellement au doctorat à Berlin, Allemagne) — Flore des environs de Mont-Joli (Bas Saint-Laurent).

Gildo Lavoie (maintenant au Service des inventaires écologiques, ministère de l'environnement, Québec) — Flore du comté de Témiscouata.

Jean-Paul Bernard — Flore du campus de l'Université Laval. Flore de Nominique, comté de Labelle. Additions et extensions d'aires dans la flore du Québec. *Geum urbanum* au Canada.

Claude Roy — Les types de l'Herbier Ernest Lepage.

Michelle Boivin — Etudes sur le genre *Callitriche*.

UNIVERSITE LAVAL, DEPARTEMENT D'ECOLOGIE ET DE PEDOLOGIE

Laboratoire de recherche sur les Mycorrhizes

J.-André Fortin (directeur), Valentin Furlan, Michel Couture, Yves Piché — Travaux portant sur la morphogénèse des symbioses mycorrhiziennes chez les plantes herbacées et les ligneux. Aspects physiologiques et recherches taxonomiques.

Shannon Berch — Systématique des Endogonacées (doctorat en cours).

Christian Godbout — Ectomycorhizes de l'aulne, des peupliers et des saules (maîtrise en cours).

Louisa Bouhired — Endomycorhizes des *Citrus* (maîtrise en cours).

Jean-Louis Duclos — Ectendomycorhizes des Ericacées (maîtrise en cours).

Laboratoire de physiologie de l'arbre, section des interactions spécifiques

Jean-Robert Thibault et Pierre Bellefleur — Travaux sur les modalités d'action de l'interférence allélopathique chez les plantes.

Patricia Younger — Interaction allélopathique peupliers-aulnes (doctorat en cours).

Yves Perradin — Caractérisation phytochimique de l'interférence entre *Populus balsamifera* et *Alnus crispa* (maîtrise en cours).

Bertrand Fecteau — Caractérisation phytochimique des sujets d'introgession chez le genre *Picea* (maîtrise en cours).

Laboratoire d'écologie forestière

Miroslav M. Grandtner (directeur) — Travaux écologiques variés. Cytogéographie de *Claytonia caroliniana* (avec Camille Gervais d'Agriculture-Québec). Editeur de la série Etudes écologiques.

UNIVERSITE LAVAL, CENTRE D'ETUDES NORDIQUES

Serge Payette (directeur) — Centre multidisciplinaire qui comporte des projets liés à l'inventaire des milieux naturels du Québec nordique, des projets sur le fonctionnement de ces milieux et d'autres sur leur utilisation.

- Projet de Flore vasculaire du Québec nordique et des territoires limitrophes (au-delà du 55^e parallèle nord). Pierre Morisset (responsable) avec le concours principal de Robert Gauthier et de Serge Payette. Les projets particuliers et leurs responsables sont les suivants: Serge Payette — Flore de la rivière aux Feuilles. Flore du lac Bush.

Jacques Cayouette — Flore de la Mine Raglan et de Douglas Harbour (Ungava). Flore de la région du lac Chavigny. Flore de la péninsule des Manitounuk (Baie d'Hudson).

Jean Deshayé — Flore de l'île Ivik (Ungava) (parution récente). Flore du lac à l'Eau Claire. Flore d'un archipel du golfe de Richmond.

Marcel Blondeau — Flore de la région de Fort-Chimo.

Martin Dubé — Flore de l'île Cornwallis (T.N.-O.).

Francis Boudreau et Serge Payette — Flore du mont Jacques-Cartier (Gaspésie).

- Travaux reliés aux limites actuelles et passées des forêts (aspects écologiques et phytogéographiques), presque tous sous la direction de Serge Payette.

Serge Payette — Dynamique des systèmes forestiers du Québec nordique.

Lucie Maillette — Dynamique de croissance des arbustes de la toundra forestière québécoise.

Yves Bégin — Dynamique de la végétation héliophytique du lac à l'Eau Claire (doctorat en cours).

Paul Comtois — Phytogéographie du peuplier baumier (*Populus balsamifera*) à sa limite nord de distribution (doctorat terminé 1983). Structure génétique de populations d'espèces arborescentes (*Picea*, etc.) à leur limite nord de distribution (avec la collaboration de Jean-Pierre Simon de l'Université de Montréal).

Hubert Morin — Dynamique holocène des combes à neige du Golfe de Richmond (Nouveau-Québec) (doctorat en cours).

Jean Millet — Histoire des feux naturels de la région du lac à l'Eau Claire (doctorat en cours).

Line Couillard — Evolution de la végétation d'une tourbière à plateau palsique (Rivière aux Feuilles, Nouveau-Québec) maîtrise terminée 1982).

GOUVERNEMENT DU QUEBEC

Ministère de l'agriculture, des pêcheries et de l'alimentation. Service de recherche en défense des cultures. Division de botanique,

d'écologie et de malherbologie

Dominique Doyon (conservateur de l'Herbier du Québec (QUE). Inventaire et distribution de plantes nuisibles dans les cultures du sud du Québec (avec la collaboration de Claude-J. Bouchard et de Romain Néron). Taxonomie des plantes nuisibles à l'état de plante (en collaboration).

Claude-J. Bouchard - Atlas des mauvaises herbes (avec la collaboration de Dominique Doyon et de Bernard Drouin).

Camille Gervais - Etudes en cytogénétique, microévolution en particulier dans les genres *Avenula* et *Helictotrichon* (avoines vivaces). Essais d'hybridation avec les avoines annuelles. Etude cytotaxonomique de différents genres de mauvaises herbes, *Achillea*, *Chenopodium*, *Polygonum*, *Cerastium*, *Centaurea*, *Phragmites*, etc. Etudes cyto-écologiques: variations des nombres chromosomiques dans certaines populations de *Claytonia caroliniana* (avec Miroslav M. Grandtner de l'Université Laval). Préparation de listes annotées de nombres chromosomiques de plantes vasculaires du nord-est de l'Amérique. Etude cytologique du groupe *Cornus canadensis* - *suecica* (avec Jean Smith, Québec). Etude floristique de la région du Mont Logan (Gaspésie).

Richard Cayouette (conservateur-retraité 1978) - Flore du Saguenay: un premier volume intitulé Géographie floristique du Saguenay (Ptéridophytes, Gymnospermes et Monocotyles) paraîtra en 1983. Flore du comté de Lévis (avec Dominique Doyon). Variations mineures chez *Trillium cernuum*.

Ministère de l'Energie et des Ressources

Pierre Masson - Inventaire des Bryophytes du Québec. Etude sur les Polytrichales (avec la collaboration de Louis Parrot de l'Université Laval).

Ministère de l'Environnement. Service des inventaires écologiques

Gildo Lavoie (conservateur de l'Herbier) - Taxonomie, phytogéographie et floristique des vasculaires et invasives de la Basse Côte-Nord. Autécologie et socio-écologie (avec Vincent Gerardin et Francis Boudreau).

Ministère de l'Environnement. Conseil consultatif de l'Environnement

Benoît Cauthier - Biogéographie des plantes en milieu aquatique. Limites phytogéographiques du Saint-Laurent et du Saguenay

GOVERNEMENT DU CANADA, AGRICULTURE CANADA,
STATION DE RECHERCHE DE SAINTE-FOY

Section de malherbologie

Jean-Marc Deschênes (directeur) et Anne Légère - Inventaire des mauvaises herbes dans les principales cultures du Québec. Biologie des mauvaises herbes avec emphase sur les espèces annuelles (*Galeopsis tetrahit*, etc.)

QUEBEC. Non affiliés

René Pomerleau (à la retraite) - Taxonomie et floristique des champignons du Québec.

Rimouski

UNIVERSITE DU QUEBEC

Paul Demalsy - Floristique de l'Est du Québec. Le genre *Tragopogon* dans l'Est du Québec et les Maritimes.

Sherbrooke

UNIVERSITE DE SHERBROOKE, DEPARTEMENT DES SCIENCES

Albert Legault - Conservateur de l'Herbier assisté de Jean-Marc Lalonde (en remplacement de Samuel Brisson décédé en octobre 1982). Floristique des Cantons de l'Est. Flore de la serpentine.

Chicoutimi

UNIVERSITE DU QUEBEC, DEPARTEMENT DES SCIENCES FONDAMENTALES

Réjean Gagnon - Fluctuations holocènes de la limite des forêts de mélèze (Rivière aux Feuilles, Nouveau-Québec) (doctorat complété en 1983 sous la direction de Serge Payette). Fluctuations postglaciaires de la limite des forêts de mélèze au Québec nordique et corrélations climatiques (avec le Centre d'Etudes Nordiques de l'Université Laval).

Trois-Rivières

UNIVERSITE DU QUEBEC, DEPARTEMENT DE CHIMIE-BIOLOGIE

Estelle Lacoursière - Floristique de la région de Trois-Rivières. Travaux de vulgarisation. L'Arbrier québécoises, L'Herbier québécoises et Herbier médicinal (avec la collaboration de Daniel Fortin).

Claude Tessier - Végétation riveraine. Flore du lac Saint-Pierre et de l'archipel de Berthier.

René Verrette (Musée de l'Université) - Floristique régionale. Vulgarisation.

The previous four lists were printed in the CBA/ABC *Bulletin*, Volume 15, Numbers 1, 2 and 3 (1982) and Volume 16, Numbers 3 and 4 (1983). If you know of anyone who has been omitted from any of the lists published so far, would you please contact the Secretary of the S & P Section: Dr. Janet R. Dugle, Environmental Research, Whiteshell Nuclear Research Establishment, Pinawa, Man ROE 1L0.

INTERNATIONAL YOUTH YEAR 1985

The Canadian Youth Science Foundation is developing a detailed plan of science-related activities for International Youth Year in 1985. One suggestion is to organise a program of visits to increase the contact between young people and scientists in industry, government and universities, to expose students to possible careers in science, and to improve the scientific literacy of students. These could be visits to schools or by students to the laboratory. The plan is to implement this program in fall 1984.

Please contact: Youth Science Foundation, 8th Floor, 151 Slater St., Ottawa, Ont K1P 5H3

BCC FIELD STATION DIRECTORY

A Directory of Field Stations has been completed by BCC. It may be obtained for \$10 (Can) from: Dr. Brock Fenton, Department of Biology, Carleton University, Ottawa, Ont K1S 5B6

BCC is establishing a task force to develop a policy for Field Stations. A preliminary report is due in May 1984.

OWNERSHIP OF TAXONOMIC MATERIALS

Concern has been expressed over the ownership of biological materials collected by a researcher as expressed in the NSERC Awards Guide (para. 221). Do these belong to the researcher or to the institution?

If anyone has any comments, concerns and ideas, would they please contact: Dr. W. George Barker, President CBA/ABC, Dept. of Botany & Genetics, Univ. of Guelph, Guelph, Ont N1G 2W1

XIV INTERNATIONAL BOTANICAL CONGRESS

The Preliminary Announcement is now out, and the First Circular is enclosed with this issue of the CBA/ABC *Bulletin*. The IBC is held under the auspices of the International Union of Biological Sciences, and will take place in Berlin (West), Germany, from 24 July - 1 August, 1987.

Programme - will comprise 6 divisions: metabolic botany, developmental botany, genetics and plant breeding, structural botany, systematic and evolutionary botany, and environmental botany. All plant groups will be considered, and aspects of both pure and applied research will be covered. Special emphasis will be laid on inter- and multi-disciplinary topics.

Nomenclature Section - will convene in Berlin on 20-24 July, 1987

Pre- and Post-Congress Field Trips - will be arranged to various parts of Central, South and North Europe.

First Circular - is now available and contains a preliminary registration form. Send your name and full address to ensure inclusion on the mailing list.

Chairman of the Organizing Committee - Prof. Dr. h.c. K. Esser.

Enquiries - should be sent to the Secretary of the Organizing Committee, Prof. Dr. W. Greuter, XIV IBC, Bot. Garden & Museum, Königin-Luise-Str. 6-8, D-1000 Berlin (West) 33, Germany.

IN MEMORIAM

CBA/ABC was sorry to hear of the death during 1983 of Mr. Walter Hartley, R.R. #1, Southgillies, Ontario P0T 2V0. We express our regrets to Mrs. Hartley.

BOTANICAL SOCIETY OF AMERICA — ANNOUNCEMENT OF DARBAKER PRIZE IN PHYCOLOGY FOR 1984

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 with AIBS at Colorado State University in August 1984. Under the terms of the bequest, the Award is made for meritorious work in the *study of algae in all its facets*, with particular emphasis on microscopical forms. 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 1984 is 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 1982 and 1983.

Nominations for the 1984 Award, accompanied by a thorough statement of the merits of the case and by reprints of the publications for 1982 and 1983 supporting the candidate, must be received by April 1, 1984 by the Chair of the Committee, Dr. James R. Rosowski, School of Biological Sciences, University of Nebraska-Lincoln, Lincoln Nebraska 68588-0118

NATIONAL REPOSITORY FOR FLORISTIC CHECKLISTS

The National Repository for Floristic Checklists is a committee of the CBA/ABC's Systematic & Phytogeography Section, and reports to the annual General Meeting of the Section. Below are extracts from the report presented in August 1983 during the Meeting in Grand Forks.

During the period July 1, 1982 to July 31, 1983, five submissions have been received, consisting of two published and three unpublished lists. One publication contained two separate checklists. The copies received have been numbered (91-95) in the series.

There have been two requests for information from the files, one for a copy of the complete listing of items in the repository and the other for papers from a particular area.

The committee in charge of this project was P.M. Catling (DAO), E. Haber (CAN) and J.H. Soper (CAN).

The Section recommended that the Repository be continued for 1984. J.H. Soper resigned from the committee, which continues with P.M. Catling (Chairman) and E. Haber.

For further information, please contact: Dr. P.M. Catling, Biosystematics Research Institute, Central Experimental Farm, Ottawa, Ont K1A 0C6

ACID RAIN

The British Royal Society and the Norwegian and Royal Swedish Academies of Science are co-operating in a £5 million (ca. \$10 million), 5 year survey into acid rain. The U.K. Central Electricity Generating Board and the National Coal Board are providing financing for the survey. It is hoped that the results will be published "in due course". The survey will concentrate on the implications for fisheries rather than on woodlands.

OFFICERS AND AWARD WINNERS SINCE 1965Officers of CBA/ABC — 1965-1983

The Officers of CBA/ABC consist of the Executive and the Directors. All positions except three are elected — the Vice-President, Editor of the *Bulletin* and the Archivist are appointed by the Board of Directors. There have been only minor changes in title since the inception of the Association. The major change was the establishment of the position of President-Elect in 1975 — prior to this the Vice-President usually became President in the following year. After 1975, the Local Organizing Chairman of the next Annual Meeting was appointed as Vice-President by the Board. Dr. W.I. Illman has acted as the Association's Archivist for many years, although the Archives themselves are now held in the National Archives of Canada in Ottawa. Dr. Illman now acts as liaison between CBA/ABC and the National Archives. The Editor of the *Bulletin* and the Archivist are ex officio members of the Executive.

President

1965/66	-	R.A. Ludwig
1966/67	-	E. Rouleau
1967/68	-	R.L. Taylor
1968/69	-	J.C. Ritchie
1969/70	-	H.M. Dale
1970/71	-	J.R. Stein
1971/72	-	H.R.N. Eydt
1972/73	-	T.A. Steeves
1973/74	-	P.B. Cavers
1974/75	-	J.K. Morton
1975/76	-	M.E. Elliott
1976/77	-	W.N. Stewart
1977/78	-	P.R. Gorham
1978/79	-	J.M. Walker-Shay
1979/80	-	N.G. Dengler
1980/81	-	M. Shaw
1981/82	-	J.B. Phipps
1982/83	-	J.H. Soper
1983/84	-	W.G. Barker

Vice-President

1965/66	-	E. Rouleau
1966/67	-	R.L. Taylor
1967/68	-	J.C. Ritchie
1968/69	-	H.M. Dale
1969/70	-	J.R. Stein
1970/71	-	H.R.N. Eydt
1971/72	-	T.A. Steeves
1972/73	-	P.B. Cavers
1973/74	-	J.A. Fortin
1974/75	-	M.E. Elliott
(Position changed)		
1975/76	-	J.M. Stewart
1976/77	-	J.M. Walker-Shay
1977/78	-	G.R. Brassard
1978/79	-	W.I. Illman
1979/80	-	I.E.P. Taylor
1980/81	-	G.W. Barker
1981/82	-	M.V.S. Raju
1982/83	-	J.S. Rowe
		M.K. Wali
1983/84	-	A.R.A. Taylor

President-Elect (est. 1975)

1975/76	-	W.N. Stewart
1976/77	-	P.R. Gorham
1977/78	-	J.M. Walker-Shay
1978/79	-	N.G. Dengler

1979/80	-	M. Shaw
1980/81	-	J.B. Phipps
1981/82	-	J.H. Soper
1982/83	-	W.G. Barker
1983/84	-	G.A. Mulligan

Secretary

1965/67	-	R.L. Taylor
1967/70	-	H.R.N. Eydt
1970/71	-	P.B. Cavers
1971/72	-	J.E. Cruise (app. to finish term)
1972/74	-	M.E. Elliott
1974/76	-	C.J. Bird
1976/78	-	J.R. Dugle
1978/80	-	D.D. Cass
1980/82	-	I.E.P. Taylor
1982/84	-	I.E.P. Taylor

Treasurer

1965/67	-	W.J. Cody
1967/69	-	J.H. Soper
1969/71	-	W.I. Illman
1971/73	-	G.A. Mulligan
1973/75	-	G.S. Hicks
1975/77	-	J.F. Gerrath
1977/79	-	M. Hickman
1979/81	-	D. Punter
1981/83	-	G.R. Brassard
1983/85	-	D. Davidson

Directors

1965/66	-	L. Cinq-Mars, R.T. Coupland, C.J. Hickman, J.C. Ritchie, A.F. Szczawinski, A.R.A. Taylor
1966/67	-	F.A. Staplin, T.A. Steeves, K.E. von Maltzahn, J.C. Ritchie, A.F. Szczawinski, A.R.A. Taylor
1967/68	-	L. Cinq-Mars, D.B.O. Savile, F.A. Staplin, T.A. Steeves, J.R. Stein, K.E. von Maltzahn
1968/69	-	G.W. Argus, M.A.M. Bell, L. Cinq-Mars, T. Mosquin, D.B.O. Savile, J.R. Stein
1969/70	-	G.W. Argus, M.A.M. Bell, A. Cardinal, P.B. Cavers, T. Mosquin, J.S. Rowe
1970/71	-	I.M. Brodo, A. Cardinal, W.B. Kendrick, J.S. Rowe, W.B. Schofield, J.M. Walker
1971/72	-	J.A. Fortin, W.B. Kendrick, W.B. Schofield, W. Stewart, J.M. Walker-Shay, L.K. Weresub
1972/73	-	J.A. Fortin, C.J. Marchant, R.F. Scagel, J.H. Soper, W. Stewart, L.K. Weresub
1973/74	-	G.R. Brassard, P.R. Gorham, A.N. Langford, C.J. Marchant, R.F. Scagel, J.H. Soper
1974/75	-	G.R. Brassard, P.R. Gorham, A.N. Langford, P. Morisset, J.N. Owens, J.G. Packer, J.R. Stein
1975/76	-	J. Dainty, J.R. Dugle, P. Morisset, J.N. Owens, J.G. Packer, J. Roberts-Pichette
1976/77	-	J. Dainty, M. Famelart, J.O. Hrapko, J. Roberts-Pichette, A.G. Thomas
1977/78	-	M. Famelart, J.O. Hrapko, A. Legault, J.B. Phipps, A.G. Thomas, P. Weinberger
1978/79	-	K.E. Denford, A. Legault, J.R. Maze, J.B. Phipps, I.E.P. Taylor, P. Weinberger
1979/80	-	A.B.M. Bouchard, K.E. Denford, P.F. Maycock, J.R. Maze, J.S. Rowe, I.E.P. Taylor

- 1980/81 - W.G. Barker, A.B.M. Bouchard, D. Canvin, P.F. Maycock, M.V.S. Raju, J.S. Rowe
 1981/82 - W.G. Barker, D.T. Canvin, P.G. Harrison, K.I. MacInnes, M.V.S. Raju, B.A. Roberts
 1982/83 - P.M. Catling, J.A. Fortin, P.G. Harrison, K.I. MacInnes, B.A. Roberts, V.K. Sawhney
 1983/84 - L. Brouillet, P.M. Catling, K.E. Denford, J.A. Fortin, R. Hebda, V.K. Sawhney

CBA/ABC Award Winners — 1969-1983

George Lawson Medal

Category A for cumulative contributions to Canadian botany was established in 1968, Category B for a single contribution was established in 1970.

- 1969 - Jacques Rousseau (A)
 1970 - Rollo Otho Earl (A)
 1971 - Erling Forsild (A)
 Job Kuijt (B)
 1972 - Vladimir Joseph Krajina (A)
 Mildred Noble (B)
 1973 - Clarence Frankton (A)
 Marvin William Bannan (B)
 1974 - John G. Coulson (A)
 Rolf Sattler (B)
 1975 - Roy Franklin Cain (A)
 1976 - Douglas B.O. Savile (A)
 1977 - Harold J. Brodie (A)
 1978 - Taylor A. Steeves (A)
 R. Darnley Gibbs (B)
 1979 - Ibra Lockwood Connors (A)
 Bernard A. Baum (B)
 1980 - No Award Made
 1981 - Stanley J. Hughes (A)
 1982 - Leslie Laking (A)
 1983 - Thomas C. Hutchinson (A)

Mary E. Elliott Service Award

- 1978 - John K. Morton
 1979 - Paul K. Gorham
 1980 - No Award Made
 1981 - Janet R. Stein
 1982 - No Award Made
 1983 - Roy L. Taylor

Lionel Cinq-Mars Award

- 1977 - James F. Basinger
 1978 - Suzanne Forget
 1979 - Luc Brouillet
 1980 - Steven D. Price
 1981 - Norm Kenkel
 1982 - Raymond L. Legge
 1983 - Gregory J. Taylor

Luella K. Weresub Memorial Award

Established in late 1982, the first award will be considered in 1984 for the best student paper published in mycology during 1983.

(Part I appeared in the CBA/ABC *Bulletin*, Vol. 16, No. 3, July 1983)

MEMBERSHIP RENEWAL

Membership renewal forms were sent out in November 1983. If you have not already renewed your membership, please do so NOW. The membership list is corrected at the end of February and all those who have not renewed are deleted from the computer.

TRANSPLANTING

A colony of *Spiranthes spiralis* growing on the banks of a drainage channel at Sutton Bridge, Lincolnshire, is to be transplanted to a new site because of a £1 million (ca. \$2 million Can) drainage scheme.

GC & HTJ 194(16):6
 (October 14, 1983)

Ed. Note: I have no further information.

WEEDKILLERS

The spraying of weedkillers and pesticides upsets many people, but a gentleman in England went a little too far when the local council wanted to spray weedkiller in a children's playground. The man was afraid that children would be poisoned, so he used a sledgehammer to damage the spraying machine to stop the work. He was fined £100 (reduced to £50 on appeal). The sledgehammer was considered an "offensive weapon".

KEW GARDENS REORGANIZATION

Members may be interested to hear that responsibility for running the Royal Botanic Gardens, Kew, England, will be transferred on April 1, 1984, from the Ministry of Agriculture to a new board of trustees. The board has been set up under the new National Heritage Act, and includes William Chaloner (Head, Department of Botany, Bedford College, London), Edward Cocking (Professor of Botany, Nottingham Univ.), Vernon Heywood (Head of Botany, Reading Univ.), and Sir Leslie Fowden (Director of Rothamsted E.H.S., and the Queen's appointee to the board). The transfer is partly because of Government restraint and partly because the Ministry feels that botany is outside its direct sphere of interest. The Minister of Agriculture continues to be responsible for the Gardens, and will provide the necessary funding through grant-in-aid.

FUTURE MEETINGS OF CBA/ABC

- 1984 — Fredericton, N.B. June 24-27
 1985 — London, Ont, June 23-29
 Canadian Congress of Botany
 1986 — Sudbury, Ont, date not yet known
 1987 — Montréal, Qué, June 14-18
 1988 — Victoria, B.C., date not yet known
 1989 — Open
 Suggestions and/or invitations would be welcomed by the President or the Secretary of the Association.

Progress Report, November 1982 - August 1983

Current members of the Committee proper are: Dianne Fahselt (Chair), George Argus, Vernon Harms, George Ledingham, and Paul Maycock.

1. Gilfillan Lake, Nova Scotia: Further representations have been made to the Nature Conservancy of Canada regarding the urgency of preserving this site. The Conservancy recognizes the value of the flora involved and will make an effort to protect the site as soon as possible.
2. Byron Woods in London, Ontario: The botanical survey advocated by CBA/ABC and others was undertaken and completed in 1982. The developer has now offered the Ontario Ministry of Natural Resources (OMNR) access to the site for purposes of transplantation, this as a substitute for setting aside those portions of the woodlot which have been identified by OMNR's consultant as botanically significant. The Conservation Committee took a stand against transplanting as a substitute for preservation, and this position was conveyed by the CBA/ABC President to OMNR. In addition, individual members made separate representations to the Ministry regarding transplantation and the value of the woods in general. An Ontario Municipal Board (OMB) hearing now appears to be imminent, and it is hoped that this will forestall development in botanically important parts of the site. The lawyer for the local naturalists, S. Garrod, is experienced in environmental law and optimistic about the prognosis for this site.
3. Matchedash Lake Dam, Ontario: The Ontario Ministry of Natural Resources opted for a 7-year cycle of drawdown and rise of water levels in the lake, permitting the fluctuations which CBA/ABC advised were necessary for maintenance of the sensitive flora there. A Gabion dam has now been constructed to permit water level fluctuations, though Orilla fish and game enthusiasts campaigned for a permanent earth-filled dam to maintain the water at a consistently high level. The Ministry will monitor the effect of fluctuating water levels on fish populations over the next 7 years and, according to our earlier recommendations, agreed that effects on plants should be monitored as well. Acknowledging a lack of botanical expertise in the Huronia District, OMNR requested CBA/ABC assistance with monitoring the vegetation, and we recommended that the ministry consult with Dr. Paul Keddy. Paul outlined a study procedure and will act as advisor to the botanist who will be hired by OMNR to study drawdown effects on vegetation. Botanical surveillance is beginning in this calendar year.
4. Acid Rain: In 1982 the Committee proposed that a symposium on the effects of acid rain be organized for the August 1983 A.I.B.S. meetings. The half-day program was arranged by the Ecological Society of America and co-sponsored by CBA. It will be one of a series of International Affairs Symposia, and has the title "Ecology in the International Arena: Acid Rain and Basic Science". One paper will deal with acidic deposition on terrestrial ecosystems. A more detailed consideration of the effects on boreal and north temperate forests was the three-day Quebec City conference sponsored by Environment Canada and the United States Department of Agriculture in June 1983. Many Canadian botanists

were not aware of this conference, but the Conservation Committee was able to advise CBA members in several institutions and a number of scientists were able to attend.

5. Ontario's Draft Land Use Planning Strategies and Provincial Parks: The Committee prepared an overall response to the recent land use planning program of the Ontario Ministry of Natural Resources, and a number of members of the committee's panel of experts reviewed draft district land use planning strategies. In addition, several CBA members participated in the public meetings held throughout the province in the fall of 1982 and made verbal representations to the Honorable Alan Pope, Minister, and/or submitted written briefs on the subject of nature reserves and other parks. In June 1983, MNR announced guidelines indicating its intention to establish 155 new parks in the province. The Committee prepared a letter of commendation to Mr. Pope which was signed and sent by the President of CBA/ABC, J.H. Soper.
6. Natural Heritage League, Ontario: In November 1982, a member of the Committee (D. Fahselt) attended the Natural Heritage Protection Conference sponsored by the Ontario Ministry of Natural Resources, The Ontario Heritage Foundation and the Nature Conservancy of Canada. CBA/ABC has requested representation on the National Heritage League that was formed following the Toronto Conference. We would like to advance botanical interests and knowledge, and in particular advocate acquisition and protection of Provincial Nature Reserves.
7. Backus Woods, Ontario: D. Fahselt represented CBA/ABC at the "Backus Group", which is to develop policies, objectives and a broad management plan for "The Backus", a fine old Carolinian forest in southern Ontario. This group is a unique example in Ontario of collaboration between OMNR foresters, scientists and other conservationists. At the most recent meeting, June 4, 1983, a consensus was reached regarding management philosophy and a general work plan. A significant item upon which agreement was reached was that removal of material from the woods can only take place with the approval of the fairly enlightened management committee.
8. Management Plans for Rondeau Provincial Park and Springwater Forest, Ontario: The Committee has requested a copy of the "comprehensive Vegetation Management Plan" which was mentioned in the text of Rondeau's broader overall Management Plan. We were told that a management strategy document for vegetation will not be made public until after internal review and approval of a new document which is presently being prepared. The Management Plan which OMNR uses in Springwater Forest was "not available due to a current policy on confidentiality". We are hoping that the same is not true for a publicly-owned provincial park, such as Rondeau.
9. The Canadian Council on Ecological Areas (CCEA): The general purpose of the CCEA is to promote the establishment of a comprehensive system of ecological areas in Canada. CBA/ABC was represented by D. Fahselt at the November 1982 CCEA Meeting in Toronto, and P. Taschereau will attend the August 1983 meeting in Sackville, N.B. Dr. Taschereau's manuscript on the status of Ecological Reserves in Canada, which will probably form the basis of a CCEA handbook, is one item on the upcoming agenda.

The CBA/ABC Conservation Committee has provided the Scientific Committee of CCEA with descriptions of a number of significant ecological areas in Canada which demonstrate the practical values of protected natural areas.

10. Alfred Bog, Ontario: A letter was sent to OMNR advocating preservation of the Alfred Bog, a unique and fragile wetland providing important habitat in the eastern part of the province. The reply from the minister indicates that the owner of the bog will convert a portion of it to agriculture if the official plan is amended. Though he says that MNR does support wetland conservation, it did not actively fight the zoning change at OMB hearings. The Conservation Committee, through the CBA/ABC Presidnet, has enquired why MNR did not appear at the hearings to represent its own interests while the Ministry of Agriculture did.

11. The Great Lupine Caper, B.C.: The Committee prepared a response to an article in the May issue of Homemaker's Magazine which spoke of the enjoyment that can be had by sprinkling seeds of alien species indiscriminately throughout natural areas and replacing, for example, native blue lupines by white-flowered ones from the Middle East. We hope that our reply will discourage readers of the magazine who might also contemplate "improving" the landscape in this way.

12. Nature Reserves on Pelee Island, Ontario: The Committee has inquired why the Lighthouse Point and Fish Point properties on Pelee Island were purchased by OMNR and posted as Nature Reserves while in fact they have not been officially designated. Alan Pope, Minister of Natural Resources, responded that the two sites would be regulated in the near future. (We understand from other sources that this is indeed to be the case.)

13. Ojibway Prairie, Ontario: The Committee was contacted regarding suggestions for the management plan of the Ojibway Prairie nature reserve near Windsor. Only three weeks were allowed for input into the plan, and the committee members who were available were able to respond in only a limited way.

14. Bruce Peninsula National Park, Ontario: Negotiations have been proceeding for the establishment of a National Park at the northern end of the Bruce Peninsula between Lake Huron and Georgian Bay. CBA/ABC sent a letter to the Minister of PMNR urging his cooperation in the creation of the park in order to protect this area of great phytogeographical significance.

15. Nahanni National Park, N.W.T.: CBA participated in the planning process for this park by pointing out botanical values in the area. It urged Parks Canada to extend the boundaries of the Nahanni to include the important Glacier Lake Area.

16. Request from Parks Canada for Information on Nationally Significant Species: Parks Canada, after terminating the appointment of one of its few botanists (due to financial restraint), repeated an earlier request that the CBA/ABC Conservation Committee provide it with information concerning rare plant species. They are specifically interested in plants of the St. Lawrence Islands National Park (SLINP) which may be of national significance. Parks Canada has sent the complete species list for SLINP and their current list of rare species to be reviewed by the Committee.

17. Transplantation: Data is still being gathered concerning the reliability and effectiveness of transplantation as a method of preserving plant communities and ecosystems. Thanks are due to several CBA members outside the Committee who have brought useful information and literature to our attention. We still intend to prepare a definitive statement of transplantation which will be generally applicable in a variety of situations.

Dianne Fahselt, Chair
Conservation Committee

NOTE: In addition to the activity noted above, J.H. Soper, President of CBA/ABC 1982-83, wrote personally in defense of the South Moresby Wilderness Area proposed for the Queen Charlotte Islands, B.C., and to urge a westward extension of the boundaries of the proposed Nahanni National Park, N.W.T.

Progress Report Update, November 1983

1. Byron Woods in London, Ontario: Ontario Municipal Board (OMB) hearings regarding the rezoning of Byron Woods to permit a housing development were held in late September 1983. Transplantation of rare plants had been suggested by the developer as a means to preserve them, and Tony Reznicek gave evidence to indicate that this would not be a satisfactory solution. Rezoning was approved by OMB. An alternative site plan that would have permitted the most crucial habitat to be preserved (maintaining the number of lots or houses) was rejected by the Board. Thus, the most floristically important parts of the woods will be lost.

2. Ontario Heritage Foundation: Dr. George Barker represented CBA/ABC at the November 1983 Meeting in Toronto. Conservation strategies for the province were discussed.

3. The Great Lupine Caper, B.C.: Homemaker's Magazine has agreed to print, as a letter to the editor, a letter from CBA/ABC indicating its displeasure with indiscriminate seeding of alien species into natural areas.

4. Canadian Council of Ecological Areas: Dr. P. Taschereau attended the Halifax Meeting of CCEA on August 15-16, 1983.

5. Dr. A.A. Reznicek is the alternate on the Conservation Committee for Dr. P. Maycock.

Dianne Fahselt, Chair

ROYAL BOTANICAL GARDENS, HAMILTON

The Royal Botanical Gardens at Hamilton, Ontario, has announced the receipt of a major grant of \$25,00 from Associated Medical Services, Inc., for the construction of a medicinal garden. Work is expected to begin in 1984.

MEETINGS

Ontario Ecology and Ethology Colloquium will be held at the University of Waterloo, Waterloo, Ont., on April 24-26, 1984.

For further information contact: OEEC, c/o Department of Biology, University of Waterloo, Waterloo, Ont N2L 3G1

BOOK REVIEWS

The Cacti of the United States and Canada by Lyman Benson. 1982. Stanford University Press. Stanford, CA. xii + 1044 pp., illustrated. \$85.00 U.S.

Cacti clearly rank as one of the most exotic groups of plants of North America and public interest in them as horticultural curiosities never seems to wane. From a botanical point-of-view, they are usually poorly understood and often seem to be mired in taxonomic confusion. This monographic work, profusely illustrated with both black-and-white and color photographs, plus elegant line drawings, provides both the amateur and professional botanist with a comprehensive reference to all taxa in the Order Cactales (Family Cactaceae) for the United States and Canada.

The book is divided into two sections. The first part discusses the biology, taxonomy and ecology of the Family. A section on the physiology of cacti has been contributed by Frits W. Went of the Desert Research Institute, University of Nevada System, Reno. This first part also contains a discussion of the uses of cacti and their conservation, with a list of rare and endangered species provided.

The second section provides a detailed taxonomic treatment, with keys, to all species occurring naturally in North America north of Mexico. A separate table giving distinctive characters to separate complex infraspecific taxa is often provided in addition to a regular key. A clear distribution map is also provided. Discussion under each taxon details habitat and altitudinal distribution. The role of the plant in the landscape with details of its history since European contact, production and dispersal of seeds, and germination and establishment of seedlings is presented for many of the well-known taxa.

A final section in the book details documentation to the research underlying the classification, the references used to solve problems of nomenclature and the basis for geographical distributions. The references are organized according to the sequence of the taxonomic section and keyed to the species number. A glossary, list of references cited, illustration credits and a set of general reference maps complete the text. Regional maps included in this latter section provide boundaries and names for many of the countries, a most useful addition as county names are often difficult to determine.

The book represents the culmination of 48 years of research by Professor Benson. He indicates that it was written for the public, which he defines as all those "interested in cactus plants - from botanical specialists and ecologists to naturalists, horticulturists, hobbyists, ranchers, and those with only a casual interest in recognizing a species or two." The results of this long gestation period has provided a wonderful example of a scholarly work that provides a benchmark for all future studies in the family. I can't help but wonder how the NSERC review process for research support can continue to discount systematically oriented books as 'legitimate' when publications such as this clearly establish fundamental benchmarks for science. Professor Lyman Benson is to be congratulated for his contribution to systematic botany.

The book weighs just over 2 kilos and is not a field guide, but it is an essential work for any person or institution concerned with U.S. and Canadian cacti.

Roy L. Taylor
Botanical Garden
Univ. of British Columbia

The Diversity of Crop Plants by J.G. Hawkes. 1983. Harvard University Press, Cambridge, vii + 184 pp. \$20.00 U.S.

This book is based on the "John M. Prather - Lectures in Biology" that Professor J.G. Hawkes gave at Harvard University in April 1977. It consists of seven chapters outlining the nature of cultivated plants, the origins of agriculture, the study of crop plant evaluation and dispersal, the evidence of crop plant diversity, the value of diversity to the breeder, the exploration and storage of crop plant diversity, and global strategies for conserving and utilizing the genetic heritage of plants.

In addition, an appendix is given which outlines the International Board of Plant Genetic Resources revised priorities for crops and regions - a report produced in 1981; a useful list of abbreviations of organizations related to gene banking and gene resource management; and, finally, a comprehensive list of references, which provide the reader with a plethora of important publications in this field.

The book is designed as an introduction for people interested in the general field of plant conservation as it relates to cultivated plants, and, as such, admirably fulfills this purpose and function. The author has updated information from his 1977 lecture series to include many references up to and including 1981, so that the information contained in this book is current with respect to an understanding and an appreciation of the problems in plant gene resource management.

This publication provides a good general summary of our current state of knowledge as it relates to the nature of cultivated plants and the origin of agriculture, and includes a concise review of current theories on our understanding of how cultivated plants and, in particular, crop plants have evolved from centres of origin.

The last two chapters provide good detailed information as it relates to exploration and storage of plants, and includes sample formats for data collection in field work. The conservation procedures for storage for gene resources and their evaluation and documentation of materials are adequately covered and is useful information for those working in research and development of gene banks, whether or not of economic crop taxa.

The final chapter on global strategies for conserving and utilizing the genetic heritage of plants provides a concise summary of the current programs in this important area of conservation. Ready access to further information is provided by the many references on how an institution can play a contributing role.

As Professor Hawkes has indicated in his Preface, he will be content if he's managed to convey some of the excitement of the origin and evolution of cultivated plants as a fascinating and intellectually exciting subject to the reader. This reviewer certainly found that objective was achieved during the reading of the book. It is

a book that should certainly be recommended as a part of any reference library in botany or crop sciences.

Roy L. Taylor
Botanical Garden
Univ. of British Columbia

CBE Style Manual: A Guide for Authors, Editors, and Publishers in the Biological Sciences.
Fifth Edition. Prepared by the CBE Style Manual Committee. 1983. Council of Biology Editors, Inc., Bethesda, MD. xx + 324 pp. \$24.00 U.S.

I have used the CBE Style Manual, Third Edition (1972) for the last ten years as one of my two "bibles" for writing and editing scientific material. Both books (the other is A Manual of Style, Univ. of Chicago Press) have been extremely useful in their varied ways. The Manual of Style is more general, while the CBE Style Manual is more scientifically orientated.

The Fourth Edition (1978) of the CBE Style Manual changed the sequence of chapters and most were re-written. Now the Fifth Edition updates once again — the section on Plant Sciences in the chapter "Style in Special Fields" has been completely revised and expanded, and three major new chapters have replaced previous sections. These chapters, "Ethical Conduct in Authorship and Publication", "Application of Copyright Law" and "Illustrative Material", are all very instructive and necessary additions. This applies particularly to the section on ethical conduct involved in writing, co-authoring, editing, reviewing and publishing papers. The confidential nature of the material is stressed in the last three instances — an unfortunate necessity, because I am sure that many of us have heard at least rumours of data being misused by an unscrupulous editor or reviewer.

The chapter on copyright refers principally to the law as it pertains to the United States, although the general principles are applicable to other countries. The importance of good art work and its preparation, whether graph, table, diagram, drawing or photograph, is stressed in "Illustrative Material". Once again, a very useful chapter, with many suggestions.

The first few chapters concentrate on the actual writing of the article or paper, while succeeding chapters provide information on proof correcting, general style conventions, styles in special fields, abbreviations and symbols, word usage (including lists of confusing pairs and common mis-spellings or mis-usage), secondary services for literature searches, and useful references.

People who have used the earlier editions know the usefulness of the CBE Style Manual. This edition is even better.

I think that a copy of this edition should be on the shelves of any scientist who writes articles or books, whether regularly or infrequently.

Sylvia Taylor
Botanical Garden
Univ. of British Columbia

LATE FLASH — Lyman Benson has been awarded the 1983 Henry Allen Gleason Award of the New York Botanical Garden for The Cacti of the United States and Canada.

POSITIONS OPEN

National Museums of Canada, National Museum of Natural Sciences, Ottawa, Ontario

Curators of Algae and Vascular Plants — The Botany Division of the National Museum of Natural Sciences invites applications for two positions opening April 1, 1984: a Research Systematist in Algae and a Research Systematist in Vascular Plants.

The successful candidate for each position is expected to carry out systematic and floristic research primarily on the flora of Canada. Duties include laboratory studies, field work and herbarium and curatorial work, such as collections development, identification, cataloguing, and those connected with a lending and exchange programme. Incumbents of both positions are expected to provide some public identification service and to participate in the preparation of exhibits and related public programming activities. The position in Algae should focus on freshwater and terrestrial species, that in Vascular Plants on boreal and arctic flora.

Applicants should have a Ph.D., some herbarium-related experience, and a willingness to interact with the public. Preference will be given to Canadians; proficiency in English and French is an asset.

Curriculum vitae and three letters of reference should be sent to: Dr. Irwin M. Brodo, National Museum of Natural Sciences, Ottawa, Ont K1A 0M8. Deadline for all application materials is 2 March, 1984. Salary will be between \$23,000 and \$43,000 (Can), depending on experience and qualifications.

Queen's University, Kingston, Ontario

The Department of Botany invites applications for a tenure-track position in Limnology, preferably with research interests in aquatic invertebrates. The successful candidate should be prepared to develop a vigorous research program and to teach in the undergraduate and graduate programs, and to supervise graduate students. Qualifications include a Ph.D. degree and published evidence of excellent research. Candidates of either sex are equally encouraged to apply. The appointment will be effective September 1, 1984, and is expected to be at the rank of Assistant Professor with salary commensurate with experience (Floor — \$24,250 Can). Preference will be given to Canadian citizens or landed immigrants. Application deadline is March 1, 1984, or until a suitable candidate is selected.

Send applications, which should include a curriculum vitae, statement of future research interests and names and addresses of three referees, to: Professor D.T. Canvin, Head, Biology Department, Queen's University, Kingston, Ont K7L 3N6

Research Fellowship — for M.Sc. student to study tissue culture regeneration of disease-resistant Eastern White Pine (*Pinus strobus*). Stipend of \$10,000/yr for two years starting June 1984.

Please send complete resume, including transcripts and three letters of recommendation, to: Dr. D.T. Webb, Biology Department, Queen's University, Kingston, Ont K7L 3N6

NEW PRIZE - DUTCH ELM DISEASE CONTROL

The Elm Research Institute, Harrisville, NH, announces the first annual research prize of \$10,000 in an effort to develop new controls for Dutch Elm Disease.

The prize will be announced via national media and will go to the best entry outlining a research program that will ultimately lead to development of a new systemic repellent for the Elm Bark Beetle.

All proposals will be judged on the basis of:

1. Water solubility for systemic injection
2. Phytotoxicity
3. Beetle deterrence at point of feeding
4. Chemical stability of the repellent
5. Bio-assay technique for tracing distribution.

ERI stresses that this is not a research grant. It is an award for originality in the presentation of new concepts, new methods of achieving repellency through systemic treatment.

Prizes will be awarded as follows: \$5,000, first prize; \$3,000 second prize; \$2,000 third. Judging will be by a panel of recognized experts composed of entomologists and plant pathologists.

All entries should be mailed to Elm Research Institute, Harrisville, NH 03450 by May 1 1984, and will become the property of the Institute.

For further information write the Institute or call (603) 827-3048.

CBA GENERAL SECTION

The General Section will sponsor a symposium entitled "Balsam Fir development: the tree and the forest" at the 1984 Annual Meeting in Fredericton. Invited papers will deal with control of cambial activity, crown development (both vegetative and reproductive), and stand and forest development. I hope that this symposium will appeal to the general CBA/ABC membership. Balsam Fir and New Brunswick are linked in the minds of many members, and this is an excellent opportunity to hear about the physiology and development of individual Balsam Fir trees, as well as the development of Balsam Fir stands and the ecology of Balsam Fir forests.

Plans for some paleobotanical activity at the 1984 Annual Meeting have fallen through. The Minto Coalfields are nearby but the local researcher will be on sabbatical leave.

Joanne MacDonald, Chairman

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- T. Atkins, Dept. Botany, Univ. of Manitoba, Winnipeg, Man R3T 2N2 (S)
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The Bulletin of the Canadian Botanical Assoc.

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Advertisements for Positions Open and Classified Categories may be placed at a cost of \$10 (Can) per published column inch. Advertisements by individual members for post-doctoral opportunities and Positions Wanted are carried free.

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

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