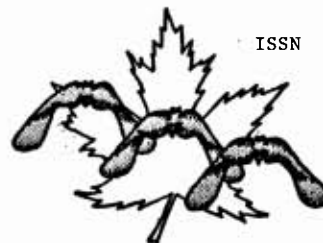


THE CANADIAN BOTANICAL ASSOCIATION

BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA



ISSN 0008-3046

APRIL 1988

VOLUME 21

NUMBER 2

VANCOUVER

PATRON

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

PATRON

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

IN THIS ISSUE:

CALL FOR EMERGENCY RESOLUTIONS	-----	18
MISSOURI BOTANICAL GARDEN NEWS	-----	18
INTERNATIONAL ORGANIZATION OF PLANT BIOSYSTEMATISTS - SYMPOSIUM ANNOUNCEMENT	-----	18
NEW DIRECTOR OF THE U.B.C. BOTANICAL GARDEN	-----	19
AGRICULTURE CANADA - BIOSYSTEMATICS RESEARCH CENTER	-----	19
RESULTS OF THE BALLOT FOR THE INCREASE IN ANNUAL FEES	-----	19
CHANGE OF ADDRESS FOR THE NATIONAL HERBARIUM OF CANADA	-----	19
BOOK REVIEWS	-----	19 & 20
TREASURER'S REPORT	-----	21
OFFICERS CBA/ABC 1987 - 1988	-----	24

NEWS FROM THE SECTIONS

Ecology Section

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

General Section

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

Mycology Section

Chairman: James A. Traquair Agricul.
Agricul. Can., Research Stat.
Harrow, Ontario N0R 1G0
(519) 738-2251

Phycology Section

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

Structure & Development Section

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

Systematics & Phytogeography Section

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

CALL FOR "EMERGENCY RESOLUTIONS"

Members are reminded that, in accordance with By-law 76, "Emergency resolutions" may be submitted to the Board of Directors at any time prior to their meeting immediately before the annual meeting. The Board of Directors will then declare whether they conform to the general guideline for resolutions ...

Resolutions submitted under the By-law 76 must be received by the Secretary 10 days before the annual meeting (NO LATER THAN MAY 27, 1988). "Emergency resolutions" can only be admitted if they deal with an emergency situation that leaves no time for preparation of a normal resolution.

Send "Emergency resolutions" plus all relevant material to the Secretary: Dr. Gordon Thomas, Secretary CBA/ABC, Research Station, 5000 Wascana Parkway, P.O. Box 440, Regina, SK S4P 3A2.

GARDEN MEMBERSHIP CLOSES OUT 1987 WITH RECORD NUMBERS

The Missouri Botanical Garden closed out 1987 with a record-setting 20,778 members, an increase of 12.3 percent over 1986's total of 18,490. The Garden's membership is the largest of any St. Louis cultural institution, and the largest metropolitan membership for botanical gardens worldwide.

"While membership here at the Garden has increased steadily over the last three years -- 35.8 percent -- 1987 numbers are particularly healthy with an increase of 2288 new members," said Dana Hines, membership marketing coordinator for the Garden. "One of the reasons it increased so much last year is due to the creation of a junior membership category, the MoBot Club." Since its inception in July, the MoBot Club has enlisted 527 members of all ages. The club is fun-oriented and features a wide variety of activities designed especially for children and their families. Its goal is to help establish the value of belonging to and supporting cultural institutions at an early age.

Regular Garden membership is \$35, and entitles supporters to free admission to Garden grounds, Tower Grove House and Shaw Arboretum. In addition, supporters receive a member's magazine, are invited to exclusive "members-only" events, and receive discounts on educational courses and on gifts and plants in the Garden Gate Shop.

For more information on becoming a member, call (314) 577-5118.

International organization of Plant Biosystematists (IOPB)

Symposium Announcement, Kyoto, July 10 - 14, 1989.

The title of the IOPB-1989 Symposium is "Biological Approaches and Evolutionary Trends in Plants." Subtitles include: "The Biology and Evolution of Weeds", "Molecular Approaches in Plant Biosystematics", "Population Biology and Life History Evolution", Session 1.

"Reproductive Biology of Plants", Session 2. "Demography and Life History Evolution of Plants". To obtain a preliminary announcement of the Symposium, or to present a poster, write to the Chairman of the Symposium, Dr. Shoichi Kawano, Department of Biology, Faculty of Science, Kyoto University, Kyoto 606, Japan.

Matters concerning IOPB should be addressed to the President, Dr. Krystyna

Urbanska, Geobotanische Institut,
E.T.H., Zurichbergstrasse 38, CH-8044,
Zurich, Switzerland.

Membership in IOPB, for the period
1987-1989, is U.S. \$20.00 payable to
IOPB and sent to Dr. Liv Borgen,
Secretary-Treasurer, IOPB, Botanical
Garden and Museum, Trondheimsveien 23B,
0562 OSLO 5, Norway.

Items of interest to biosystematists
on an international level may be sent
for publication in the IOPB Newsletter.
The editor is Dr. Krystyna Urbanska at
the address above.

THE UNIVERSITY OF BRITISH COLUMBIA BOTANICAL GARDEN HAS A NEW DIRECTOR

Mr. A. Bruce Macdonald has been
appointed Director of the University of
British Columbia Botanical Garden. He
was formerly Assistant Director when Dr.
Roy Taylor was Director and later Acting
Director when Roy moved to Chicago
Botanic Garden in 1985.

The University of British Columbia
Botanical Garden has been given a recent
donation of \$1 million by a private
donor, Mr. David Lam. The money is to be
used toward a new office-research
building in the Botanical Garden.

AGRICULTURE CANADA - BIOSYSTEMATICS RESEARCH CENTRE

After 41 years with the Department
of Agriculture, and Curator of the
Vascular Plant Herbarium now a part of
the Biosystematics Research Centre since
1959, William J. Cody retired at the end
of December 1987. He will however, be
remaining at the Biosystematics Research
Centre as a Research Associate in order
to complete his studies of the Yukon
flora. Paul M. Catling who joined the
Biosystematics staff in 1980 has assumed
the role of Curator, Vascular Plant
Herbarium. Correspondence regarding
loans, exchange and other herbarium
matters should be sent to him.

RESULTS OF THE BALLOT FOR THE INCREASE IN ANNUAL FEES.

Based on the information received by
the secretary, the final results are as
follows:

Yes - 36 No - 7

As reported in the conference call
minutes, there are 372 members. The
response rate was 11.5%.

CHANGE OF ADDRESS FOR THE NATIONAL HERBARIUM OF CANADA

As part of the dissolution of the
National Museums of Canada and the
formation of four independent museums,
which is well under way, comes a change
in the mailing address for the National
Museum of Natural Sciences. All staff at
the museum, including those at the
Botany Division, National Herbarium of
Canada, located physically at 1505
Laperriere Ave., can be reached by using
the following mailing address.

P.O. Box 3443, Station D
Ottawa, Ontario
K1P 6P4

Please do not include the street and
number as part of the address.

ERIC HABER

BOOK REVIEWS

Ireland, R.R., 1982, Moss Flora of the
Maritime Provinces. National Museums of
Canada, Publications in Botany, No. 13.
738 pp. including 415 plates (\$25.00).

It is a major event when a floristic
manual is published in Canada. The
appearance of Dr. Ireland's elegant
flora is of particular importance
because it is the first comprehensive
manual of mosses for any part of Canada.
Dr. Ireland is eminently qualified to
produce such a work. His research is
meticulous and concise, based on an
extensive knowledge of mosses as living
plants in the field. He is especially
fortunate in his illustrators Linda Ley,
Anne Hanes and Gilda Bellio-Trucco. The
beauty of the habit sketches and the
well-chosen details of structure
substitute for detailed descriptions of
each species. Each plate represents many
hours of painstaking labour, not least
of which is the careful choice of the
most representative material for
illustration.

The maritime provinces of Canada
have been utilized for agriculture and
forestry since the sixteenth century,
thus few sites remain that have not been
disturbed by man's activities. This
means that many bryophytes are now found
in very few localities. A number of
species, for example, have not been
collected since the nineteenth century
(Tortula ruralis, Grimmia anodon,
Desmatodon heimii, Kiaeria starkei,
Entodon brevisetus, Meesia uliginosa).

Splachnum luteum, Thuidium minutulum, T. scitum). This may represent extinctions or may simply reflect rarity in the Maritimes. It is a monument to Dr. Ireland's careful field and herbarium research that he has attained a reasonably complete census of the moss flora. His book should stimulate students and amateurs to make further contributions to the flora of these provinces.

Dr. Ireland's researches coincided with those of H. A. Crum and L. E. Anderson, whose Mosses of Eastern North America appeared a year earlier. Thus Dr. Ireland's observations are original rather than derivative. This vastly increases the strength of his volume that complements the volumes of Crum and Anderson.

The moss flora of Nova Scotia, in particular received the attention of two gifted amateurs, M. S. Brown and J. S. Erskine. Their many collections from all parts of the province have been not easily accessible for many years. In consequence, Dr. Ireland was unable to verify some reports based on these collections. Recently, however, Acadia University has curated these collections and made them available for study. Thus it is possible to verify the presence of Bruchia sullivanii Aust., and Micromitrium austinii Aust. from Nova Scotia and to note that among the excluded taxa mentioned by Ireland (pp. 694-700) Campylium halleri (Hedw.) Lindb. from Nova Scotia is Herzogiella, Hypnum vacheri Lesq. from Nova Scotia is H. cupressiforme Hedw., and Meesia longuiseta from Nova Scotia is Dicranella polustris (Dicks.) Crundw. ex Warb. Dr. Ireland's book reinforces the fact that such collections are of eternal importance, and that their conservation should not be hampered by money-absorbing schemes of molecular biology.

W. B. SCHOFIELD, DEPT. OF BOTANY, U.B.C.

BOOK REVIEWS

Duncan, Betty D. & Golda Isaac, 1986. Ferns and Allied Plants of Victoria, Tasmania and South Australia. xii + 258 pages. Melbourne University Press (available in North America from I.S.B.S. Inc., 5602 NE Hassalo St., Portland, Oregon 97213 (\$20.00 (U.S.) + 2.25 shipping).

This is a beautiful book, first made apparent from the handsome cover painting by Celia Rosser, a botanical artist of great talent. Further evidence is in the 49 beautiful colour photographs. Black-and-white photographs and line drawings are also included for critical details and distribution maps

show the local distribution of many species.

In the region there are 130 species representing 53 genera. This is slightly more than one-third of the "pteridophyte" flora of Australia.

Introductory chapters give basic information on structural and biological details important in an understanding of the plants. A tabular key plus an illustrated dichotomous key guide the reader to the determination of genera, while each genus has a key to all local species. The keys are simple and appear to be constructed with the amateur in mind, with a minimum of terminology and a maximum of clarity. The species are arranged in each genus in the sequence that they key out.

Generic and species descriptions are ample and information detailing habitat and other biological features plus the derivation of the name are useful to the fern enthusiast. These reflect a keen acquaintance with the living plants in the field.

A chapter on propagation and cultivation is provided by D. J. Goudy and R. J. Hill. This is well illustrated and encourages gardeners to propagate these plants from spores rather than transplantation from nature; regrettably they were unable to supply methods of growing the notoriously difficult to propagate genera Gleichenia, Tmesipteris and Schizaea.

An extensive bibliography, index to authors of plant names and a comprehensive index to the text are included.

A few minor criticisms can be directed at some of the black-and-white photographs that are either too dark or too light, and to several of the line-drawings that appear to be rather hasty sketches. Under Isoetes a key is presented for only two of the six species mentioned. Scanning electron micrographs of mega- and micro-spores would have been extremely useful for this genus. Ophioglossum has no key for species, yet three species are noted to be present in the area.

Anyone interested in ferns will find the book a valuable addition to the library; those who teach a course where ferns are treated will find the book useful.

W. B. SCHOFIELD, DEPT. BOTANY, U.B.C.

TREASURER'S REPORT

CANADIAN BOTANICAL ASSOCIATION/L'ASSOCIATION BOTANIQUE DU CANADA

FINANCIAL STATEMENT FOR FISCAL YEAR 1986/87

BALANCE OF FUNDS - JUNE 1, 1986	\$26,207.45
REVENUE	<u>17,006.82</u>
	\$43,213.93

EXPENDITURES	17,981.05
BALANCE OF FUNDS - May 31, 1987	25,232.88

REVENUE BREAKDOWN

Membership Dues	
Regular	\$5,298.69
Student/Retired	<u>1,125.00</u>
	\$6,423.69
BCC Dues	1,715.00
NRC Journal subscriptions	4,045.50
Bulletin Subscriptions & Advertisements	545.00
Interest, Chequing/Savings Account	382.65
Interest, Term Deposit	660.69
Ontario Heritage Foundation	3,000.00
Sale of lapel pins	172.00
Miscellaneous	62.29

TOTAL REVENUE \$17,006.82

EXPENDITURE BREAKDOWN

BCC Dues	\$ 1,561.00
NRC Journal Subscriptions	4,916.00
Bulletin Expenses	3,063.87
Secretary's Office Expenses	1,981.23
Treasurer's Office Expenses	577.78
President's Office Expenses	699.83
President's and President-elect's travel	1,125.56
Conservation Committee Expenses	443.20
Savanna Project Expenses	1,233.08
Lapel pins	732.07
Consumer & Corporate Affairs registration	60.00
Awards (casting, engraving)	676.34
Cinq Mars award	200.00
Youth Science Foundation membership and prize	211.00
Lawson Medal expenses	168.62
Botany '86 bill (error, to be corrected)	250.00
Miscellaneous	81.47

TOTAL EXPENDITURES \$17,981.05

RECONCILIATION

<u>ASSETS</u> (as of May 31, 1986)	
Chequing/Savings Account	\$15,232.88
Term Deposit	<u>10,000.00</u>
TOTAL	<u>\$25,232.88</u>

<u>LIABILITIES</u> outstanding	
BCC	679.00
Awards	342.91
Conservation Committee	188.09
NRC overpayment error	(-) 746.00
Banquet overpayment error	(-) 250.00

NET 214.00

SURPLUS OF ASSETS OVER LIABILITIES\$25,018.88

ENDOWMENT FUND Net surplus	1,493.92
WERESUB FUND Net Surplus	\$13,851.59

Keith Winterhalder, Treasurer

OFFICERS OF CBA/ABC 1987-1988

President: Dr. K. E. Denford
Univ. of Alberta
(403) 432-3247

Past-President: Dr. Luc Brouillet
Univ. de Montreal
(514) 256-7511

Vice-President: Dr. Richard Hebda
B.C. Prov. Museum
(604) 387-6512

President-Elect: Dr. R.L. Peterson
Univ. of Guelph
(519) 824-4120 Ext
3278

Secretary: Dr. A. G. Thomas
Agric. Canada, Regina
(306) 585-0255

Treasurer: Prof. K. Winterhalder
Laurentian University
(705) 675-1151

Directors: Dr. Barry G. Warner
Univ. Waterloo, Ont.

Dr. Geraldine A. Allen
Univ. Victoria, B.C.
(604) 725-7110

Dr. W. J. Crins
Univ. British Columbia
(604) 228-2133

Dr. John Bain
McGill University

Dr. Lewis M. Brown
Univ. Western Ontario
(519) 679-2838

Dr. Gregory J. Taylor
Univ. of Alberta
(403) 432-3247

Editor Bulletin: Dr. Luis Oliveira
(ex off.) Univ. British Columbia
(604) 228-6897

Archivist: Dr. Erich Haber
Nat. Mus. Nat. Sci.
P.O.Box 3443, Station D
Ottawa K1P 6P4

The bulletin of the Canadian Botanical Association

Editor:-Dr. Luis Oliveira
Department of Botany
The University of Br. Columbia
3529-6270 University Blvd
VANCOUVER, B.C., V6T 2B1
(604) 228-6897

Issued quarterly in January, April, July and October, and sent to all members of the Association. Non-members may subscribe at a price of \$20.00 p.a. (\$5.00 per issue) post free. Cheques or money orders (in Canadian funds ONLY) should be made payable to "The Canadian Botanical Association" and addressed to the Editor.

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

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

To ensure prompt delivery of the Bulletin please notify the Treasurer (Prof. Keith Winterhalder, Dept. Biology, Laurentian Univ., Sudbury, Ontario P3E 2C6) of any change of address as soon as possible.

Inquiries about membership of the CBA/ABC should be addressed to the Secretary of the Association: - Dr. A. Gordon Thomas, Regina Research Station, Agriculture Canada, Box 440, Regina, Sask., S4P 3A2, (306) 585-0255.

CBA/ABC REPRESENTATIVES TO BCC

Executive Member: L. Brouillet
(514) 256-7511

Council L. Peterson
M. Shaw