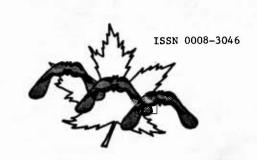
THE CANADIAN BOTANICAL ASSOCIATION

BULLETIN



L'ASSOCIATION BOTANIQUE DU CANADA

July 1981

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Vancouver

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

CRA/ABC ANNUAL MEETING 1981

Congratulations to all those people involved in the organization and running of the Annual Meeting in Guelph. A full report will appear in the next issue of the Bulletin, but the approximately 250 people who attended all appeared to find it worthwhile and enjoyable. The Banquet was something that should be remembered for a long time to come. Would that all Universities had Food Services of the calibre found at Guelph!

CBA/ABC AWARDS 1981

George Lawson Medal

The George Lawson Medal was awarded to Dr. Stanley J. Hughes of the Biosystematics Research Institute in Ottawa, for his cumulative and distinguished contributions to Mycology. The award was made at the Annual Banquet held in Guelph on June 9, 1981.

Mary E. Elliott Award

The Mary E. Elliott Award for outstanding service to the Association was awarded to Dr. Janet R. Stein of the University of British Columbia. The award was made at the Annual Banquet, being received by Mrs. Jean Gerrath on behalf of Dr. Stein.

Citations and photographs of the above two awards will appear in the next issue of the Bulletin.

Lionel Cing-Mars Award

The Lionel Cinq-Mars Award for the best student paper presented at the Annual Meeting was awarded to Mr. Norm Kenkel of the University of Western Ontario for his paper entitled "Spatial differentiation of epiphytic vegetation on Acer macrophyllum".

CBA/ABC 1982 ANNUAL MEETING PRELIMINARY ANNOUNCEMENT

A joint meeting of the CBA/ABC and CSPP/SCPV will be held at the University of Regina, Regina, Saskatchewan, provisional dates are June 20-24, 1981. The finalised dates will be announced in the October Bulletin. Arrangements for the meeting are proceeding at a normal pace.

A symposium entitled "Seed Biology" has been selected as a general theme for the meeting. Five distinguished speakers have been invited: Dr. Paul B. Cavers (Canada), Dr. James M. Naylor (Canada), Dr. Daphne J. Osborne (Great Britain), Dr. Taylor A. Steeves (Canada), and Dr. Ian M. Sussex (U.S.A.). The local organizing committee has tentatively planned to have the symposium papers published in the Canadian Journal of Botany. If many more papers on aspects of "Seed Biology" are submitted for the regular contributed sessions, the committee will try to arrange for their publication, along with the symposium papers, in the form of a separate proceedings.

The meeting also includes regular contributed paper sessions of both CBA/ABC and CSPP/SCPV,

the Luella K. Weresub Memorial Lecture by a distinguished local Mycologist, and a public lecture by Dr. D.J. Osborne on a topic dealing with Plant Growth in the Absence of Gravity.

Some half-day field-trips to certain ecologically interesting areas of southern Saskatchewan are being planned during the meeting. In addition, visits to local places of interest are being organized. More details about these trips will be published in subsequent issues of the Bulletin and will also be mailed to members.

Photographic salons, poster displays, demonstrations, etc., will be organized if there are demands for them. The local committee solicits suggestions in this regard from members as soon as possible.

We hope to present the George Lawson Medal and the Mary E. Elliott Award at the meeting. There will be an award for the best student paper, and for the photographic competition if held.

Please contact the Chairman of the local organizing committee with suggestions for the meeting: Dr. M.V.S. Raju, CBA-CSPP, Biology Dept., Univ. of Regina, Regina, Sask S4S 0A2.

The final schedule for the meeting will appear in the January issue of the Bulletin.

HOW IS CBA/ABC ORGANIZED?

It came to our attention during the Annual Meeting in Guelph that many new members are not clear as to the organization of the CBA/ABC. The following notes have been abstracted from the By-laws.

Membership in CBA/ABC is limited to persons having a scientific interest in Botany. There are 4 classes of membership:-

 Regular members - pay full annual dues and have full privileges.

- b) Student members pay reduced annual dues and have full privileges except eligibility for nomination and election to the Board of Directors. They must be registered in undergraduate or post-graduate programs in botany, plant science or biology at a recognized institution of higher learning, and must be sponsored by a supervising professor. Student members are auto-matically eligible for regular membership at the end of the Association's fiscal year in which they cease to be registered students.
- c) Retired members pay reduced annual dues but retain all privileges of regular members. They must have been regular members for at least 5 years and be retired from formal professional employment.
- d) Life members regular members who have elected to pay a one-time fee.

The annual dues are set by the Board of Directors, and ratified by a majority of returned ballots sent by mail to all members in good standing. Dues for the calendar year are payable on or before January 1 each year. Members who are six months in arrears in payment of their dues are removed from membership, but may be reinstated on payment of current dues.

The affairs of CBA/ABC are governed by the Board of Directors, which consists of: the President, immediate Past-President, President-Elect, Vice-President, Secretary, Treasurer, Editor of the Bulletin (ex officio), and six Directors (at least 2 of whom must reside west and 2 east of the Ontario-Manitoba border). All positions are elected except the Editor of the Bulletin and the Vice-President. The position of Vice-President is occupied by the Chairman of the local organizing committee for the next annual meeting, who is appointed by the Board at least 10 months prior to the annual meeting for which he/she is responsible. The Vice-President is often also an elected Director.

The full Board of Directors holds two meetings a year — one for the retiring Board at the beginning of the annual meeting and one for the incoming Board at the end of that meeting. The Chairmen of the various Sections are expected to attend these meetings, or to send alternates, to report on the activities of their respective Sections. In addition, the Executive (consisting of the President, Past-President, President-Elect, Vice-President, Treasurer, Secretary, and Editor of the Bulletin) holds one other meeting in October/November each year. This meeting may be replaced by a conference telephone call, as it was last year. Any other meetings of the Board or Executive are called as necessary.

An elected or appointed officer can be removed from office for several reasons, including dying, becoming a lunatic or of unsound mind, or becoming bankrupt or suspending payment of accounts by his creditors. The Board may fill such a vacancy by appointing a temporary replacement until the next annual meeting.

The Association may present three awards annually:-

 a) The George Lawson Medal, in two categories recognizing:

 i) a single contribution to botanical knowledge of outstanding distinction (commonly a published paper, monograph, or book).

- ii) the cumulative, distinguished contributions of a senior investigator who has worked in Canada for the greater part of his/her career; or, an academic career of distinction in teaching and inspiring undergraduate and/or post-graduate students at a Canadian institution, and in training scientists to meet the basic and applied needs of botany in Canada; or, significant contributions to the growth and development of botany in Canada by administrative, policy-making initiative in government or other agencies.
- b) The Mary E. Elliott Award for outstanding service to the Association.
- c) The Lionel Cinq-Mars Award for the best student paper presented at the annual meeting.

The George Lawson Medal is a wood and bronze plaque, the Mary E. Elliott Award is a bronze "paperweight", and the Lionel Cinq-Mars Award is a cash award.

OFFICERS OF THE CBA/ABC - 1981-1982

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Secretary:

General Chairman/

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Mycology Chairman: J.A. Traquair

Alternate: D. Punter

H.C. Duthie Phycology Chairman:

Secretary: M. Munawar

Structure &

Development Chairman: R.I. Greyson

Secretary: R.E. Dengler

Systematics &

Phytogeography Chairman: J.M. Canne Secretary

J. McNeill

Representatives on other organizations

B.C.C. Council J.B. Phipps

J.H. Soper

P.F. Maycock

N.G. Dengler

Alternates not yet named

I.U.B.S. Not yet named

Board

CBA/ABC BOARD MEETING NOTES

The CBA/ABC Board of Directors held two meetings during the Association's Annual Meeting in Guelph.

The Secretary reported that the mould for the George Lawson Medals had been purchased for \$400 from the widow of the artist, Victor Tolgesy, and was now the property of the Association.

The Treasurer reported that the 1982 subscription the Canadian Journal of Botany will increase to \$32, because of increased production costs. He had received no information as to whether the BCC rates would also be increased.

The Archivist and Secretary are to discuss the possibility of depositing the archives of the Association with the Public Archives of Canada.

The Board decided to take no further action on the Symon's Report (re increasing Canadian content in courses), as was requested by AUCC, on the basis that Botany does not naturally demand effort to impose such content.

At the second meeting held on June 11, the Board approved the resolution from the annual meeting of the General Section that a new Section, the Structure and Development Section, be organized.

It was agreed that the Treasurer should send out dues notices to members in November each year.

NEW CBA/ABC SECTION ORGANIZED

Earlier this year General Section members were asked to complete and return a question-naire regarding either changing the name of the section to "Structure and Development Section" or establishing a new section.

The results of this questionnaire were reported at the annual meeting of the General Section held in Guelph. The overwhelming preference was for the retention of the General Section, in order to provide a forum for those members whose interests, e.g., ethnobotany, teaching, etc., do not accord with any other Section.

Therefore, the members of the General Section requested the CBA/ABC Board of Directors to establish a new section, to be called the Structure and Development Section. The request was granted and the Section established at the Board Meeting held on June 11, 1981. Dr. R.I. Greyson was elected the first Chairman of the Section.

NEWS FROM THE SECTIONS

Ecology Section

Chairman: Dr. P.B. Cavers, Dept. of Plant Sciences, Univ. of Western Ontario, London, Ont N6A 5B7

General Section

Chairman: Dr. I.E.P. Taylor, Dept. of Botany, Univ. of British Columbia, Vancouver, B.C. V6T 2B1

Mycology Section

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

Phycology Section

Chairman: Dr. H.C. Duthie, Dept. of Biology, Univ. of Waterloo, Waterloo, Ont N2L 3G1

Structure & Development Section

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

Systematics & Phytogeography Section

Chairman: Dr. J. McNeill, Dept. of Botany, Univ. of Ottawa, Ottawa, Ont KlN 6N5

The Annual Meeting of the S & P Section was attended by 41 persons. The result of the mail ballot for the sectional officers was: John McNeill, Chairman; Judith M. Canne, Secretary; A.B.M. Bouchard, D. Fahselt and R.T. Ogilvie. G.W. Argus remains a member of the Executive for 1981-82.

J.H. Soper reported for the committee on a national repository for floristic checklists. A list of checklists received to date was distributed, but there had been little input during the past year. Dr. Soper was reappointed as a committee of one, with a new appeal for information to be made.

G.W. Argus distributed copies of a written report on rare and endangered plant species. This included: publication of the list of rare species for the Yukon Territory, expected publication of the Quebec list early in 1982, and progress on the Alberta and B.C. lists; publication of the first 3 family treatments for the atlas of rare plants in Ontario expected in fall 1982; completion of many status reports on rare species, and an appeal for more, noting that funds, from the Ivey Foundation, would be available for one more year.

J.M. Gillett reported on the Natural History Collections Workshop held at the Univ. of Ottawa, 27-28 May, 1981. The group decided to affiliate with the Canadian National History Curators' group. Summaries of the papers given will be published in *Syllogeus*.

J. McNeill spoke on CITES certificates as their use relates to loans of specimens from, or returned by, Canadian herbaria. It is planned to publish more information on this in a later issue of the CBA/ABC Bulletin.

The S & P Executive was authorized to work with that of the Ecology Section to explore the possibilites of having the symposium theme for the 1983 Whitehorse meeting as Nearctic phytogeography, and to make recommendations on the subject to the CBA/ABC Executive.

It was pointed out that the paper by A.A. Reznicek on Plant Collection Guidelines (Bulletin, January 1981) was the preliminary version. Dr. Reznicek was reappointed as a committee of one to work on a final version, which will be printed in a journal where it would receive the widest circulation.

James S. Pringle Secretary A shortened version of the following report was presented to the CBA/ABC Annual General Meeting held on June 10, 1981, by Dr. Frank Wightman, Vice-President of BCC.

1981 Report of the President of BCC, Dr. Ken Davey

In my report last year, I dealt with a number of general issues that were of concern to the Council. In this report I wish to deal with some specific issues which we have been addressing in relation to the development of science policy in Canada.

The BCC sponsored a second invitational symposium in October, 1980, on the subject of 'BIO-TECHNOLOGY'. You will remember that our first national symposium in 1979 dealt with 'Agricultural R & D'. This second symposium again brought together representatives of University, Government and Industry to discuss the policy aspects of Biotechnology developments in Canada. I have experienced the usual difficulties in wrestling manuscripts from the invited speakers, but I expect the Proceedings to be published soon and circulated to all our member Societies, to members of the Government and to many of their senior officials.

These symposia are important instruments in the development of BCC's views on science policy. It is widely accepted by many in Ottawa that Biology is unlikely to benefit much from the expected increase in industrial research. These two symposia - one dealing with an established industry which is an important part of our economy, and the other dealing with an industrial process of potential importance - represent part of our attempt to alter these perceptions.

Canada is a resource based economy, and it is therefore appropriate that much of our research should be focussed on the resource based industries. For a variety of reasons not worth going into here, much of the research carried out on behalf of industries like agriculture, fisheries and forestry is done by government laboratories and is financed out of the general tax base. We believe that there should be an increase in this industry directed research, and that the increase should be financed and the research influenced by the industry itself. This will require a different organisation and structure, but we believe it to be worth exploring.

We are continuing to press for additional recognition and funding for basic research. As many of you will know, MRC has received an increase of 27% for 1981-82. NSERC has, thus far, been guaranteed only 11%, an amount which is not enough to cover inflation, let alone maintain the 5-year plan!!

It is worth noting that MRC and NSERC are dealt with by different committees of Cabinet, and that each committee has its own spending envelope. NSERC and MRC are not, therefore, competing directly with each other for the same pool of funds. However, it is also worth noting that NSERC and NRC are both dealt with in the Economic Development envelope, and thus are competing directly with one another. My contacts with Mr. Roberts have led me to believe that he is very much convinced of the need for the 5-year plan. I therefore concentrated our efforts on the other members of the Economic Development Committee, contacting each of them

by letter setting out the importance of the 5-year plan, and then fortifying this contact by telephoning their offices to restate my views.

Of course, these efforts are only one part of a strong lobby for scientific research that has been developing in Ottawa over the last 2 years. The BCC is also a participant, on your behalf, in the Ottawa Consortium, which is a loose alliance of some 22 widely different organizations representing universities, government agencies and 'umbrella' organizations for national societies. While I have reservations over some of the Consortium's concerns and activities, there is no doubt that it is becoming an effective lobbying organization in Ottawa for furthering the discussion and development of science policy - and as such, the BCC must continue to support it. Dr. Frank Wightman, one of our Vice-Presidents, is our representative on this Committee.

At the time of writing (late May), there is no definite indication from Ottawa of the success of these lobbying activities. Mr. Roberts, however, appears to be optimistic that additional funds for NSERC will be provided soon. If it does, it is our understanding that some modest increase will be given to Operating Grants and that additional Equipment Grants will be made.

The uncertainty surrounding the funding of NSERC, particularly in the wake of an apparent commitment to support the 5-year plan, has produced a good deal of understandable frustration and anger in the scientific community. Unfortunately, some of this frustration has sometimes surfaced in terms of intemperate letters or public statements which amount to personal attacks on political figures. Quite apart from the dubious merit of antagonising those we wish to convince, it is important to realise that most of our politicians are sincere. If our message is not getting across, we will simply have to try harder. It is worth emphasizing that Mr. Roberts is generally convinced of our arguments and is doing what he can to advance the cause. I do not urge that we soften our argument, but only that we direct our energies to issues, not people.

A second matter which has been the subject of intense lobbying has to do with the matter of confidentiality of written peer reviews. The current legislation requires, for example, that a NSERC grantee be given access to all written reviews of his or her grant applications, including the identity of the reviewer. This is a delicate matter. On the one hand, one can only admire the principle of openness. On the other hand, the fact that we are dealing with human sensitivities makes such a policy unworkable. There are signs that referees are either refusing to take on such chores, or are producing relatively soft reviews. I have had correspondence with Mr. Fox, the responsible Minister, urging that the identity of the referee be kept confidential, and he has replied with sensitivity and understanding. However, it does not now look as if we will be able to effect any change. I can only hope that those who have some faith in peer review will not allow this regulation to affect the frankness and objectivity of their reviews. I also urge each of you, when asking NSERC for copies of reviews, to request that the name of the referee be deleted.

These two issues, you will note, are common to all scientists. It has always troubled me a little that in the past, the BCC has had to shoulder a good deal of the burden of dealing with such issues. The emergence of the Ottawa Consortium has been a great help, but this ad hoc organization can only serve us in the short-to-medium term. Moreover, it is not exclusively concerned with science policy matters. It is important that some national organization emerge soon that can speak with authority on behalf of Science. With this objective in mind, the BCC has urged the Academy of Science of the Royal Society to seize its acknowledged responsibilities in the development of Science Policy in Canada. There are signs that the Academy is accepting the challenge.

Certainly, we have concerns as scientists over many of these basic issues, and BCC will continue to press the Federal Government or its agencies to address these concerns. But as biologists, we also have more specific concerns, and it is my belief that you would want me to spend much of my time dealing with these specific, but no less legitimate causes.

One such concern has to do with the membership on NSERC. When the new Council was announced last autumn, only a single biologist emerged as a member. I simply do not believe that one biologist can possibly represent, in an adequate way, the enormous range of sub-disciplines and organisational levels embodied by our subject. Dr. Church is a remarkable individual, but is it really fair to expect a molecular biologist to be able to speak on behalf of, for example, marine biology or tundra ecology? In the past, we have been put off with comments to the effect that numbers matter less than quality. While I can agree that we want only the highest quality of scientific understanding and judgement on the Council, it is important to recognise that there is enormous breadth to our subject which requires the expertise of different individuals.

I have written to Mr. Trudeau on this matter with relatively little response. However, my contacts with Mr. Robarts have been more productive. He has asked for specific nominations, and I have provided him with some names. We will be watching the announcement of new names this summer with great interest.

I have been pressing in an informal way with NSERC for recognition that work in the Arctic is expensive, and if our ecologists are to be effective there, they must have access to travel and logistical support. NSERC officials have been looking at this question and, while it is too early yet to be definite, there are signs that an acceptance proposal will soon be forthcoming.

You may have heard that NSERC has been hoping to conduct a study of "major" projects in each discipline. The first of these has been organised through the Canadian Association of Physicists and deals only with Physics. This is very much a pilot study and is now in full swing. Depending on the results of this study, other disciplines will be examined. I have expressed our interest, but in my informal consultations across the country, I have not detected many individuals who wish to think in terms of major installations. Do we need additional national field facilities, for example? Or some good research ship? Are there any major facilities analogous to the astronomer's telescope in Hawaii which would constitute a quantum leap in a particular field?

The policy with respect to the research jour-

nals is still confused. There are two aspects to this matter. Firstly, there is the continuing pressure, largely from non-biologists, which asserts that there are too many journals. Secondly, there is the inquiry from Treasury Board as to whether a plan for moving the responsibility for the journals outside NRC could not be brought forward within the next 5 years. We are continuing to monitor the situation.

Finally, we have been spending a good deal of time during Council meetings dealing with government science. This is a multi-faceted and complex area, and progress is bound to be a little slow and even fragmentary. There is one area which has particularly concerned us, namely, the methods used for recruiting scientists in the Public Service. We now have authoritative information and all informational memorandum on current practices, and my office will be distributing this information to the President of each of our member societies.

Since these practices do not involve automatic advertising of the positions, it is essential that our younger scientists, in particular, know exactly what the current procedures are for applying for a position in the Public Service.

A related issue has involved the policies concerned with affirmative action in federal scientific service appointments, in order to increase the proportion of francophones in our public service. Rumours and letters have been circulating for some time concerning the possibility of preference being given to francophone applicants in filling professional positions in the Biosystematics Research Institute in Agriculture Canada. Some of the rumours were unfounded, but it is clear that the Research Branch of Agriculture Canada has been identified as having too low a proportion of francophone employees. As a result, six positions due to become available have been designated as "French Essential". If efforts to recruit francophones are unsuccessful, a less qualified person will be hired and sent to an appropriate graduate school to obtain a Ph.D. While there, the individual will be paid in excess of \$16,000 per

I have put forward to Mr. Whalen, the Minister of Agriculture, my own view that while some form of affirmative action can be welcomed, the proposed measures for advertising the positions, whereby recruiters will visit campuses in Quebec and letters will be sent to selected Canadian Universities, are totally inadequate. Indeed, the record of the Federal Government in advertising vacant positions in the professional scientific service is very bad. In any case, the process that has been chosen does not give me confidence that the best candidates will be encouraged to apply. The BCC endorsed my views on this matter at its recent meeting and we shall continue to monitor the situation and, in particular, we will press the government on the matter of advertising all available scientific positions.

There are signs that the government is, in fact, beginning to realise that it will be in its own best interests to advertise positions, in any case. We still have the absurdity of the series of advertisements sponsored by Manpower and Immigration with a photograph of a fictional marine biologist with a Ph.D. who could not find a job in science and who is now supposed to be driving a taxi. The adverts state that if a suitable employer would rehire this 'out-of-work

scientist', his salary would be partly financed by the Government. At the same time these adverts are being circulated, we understand that Manpower and Immigration are sending teams of recruiters outside Canada to seek out Canadians who may want to accept scientific employment back in Canada. Clearly, one department in the Ministry of Manpower and Immigration does not know what another department in the Ministry is doing! — and this is just one example of the kind of problems we scientists have to overcome in our continuing efforts to get our message through to Federal politicians and government departments.

Let me conclude by assuring you that the BCC will continue to work hard, on your behalf, to bring the concerns of all plant scientists, whether in universities or government labs, to the attention of the Federal Government or its agencies.

Dr. Ken Davey President, BCC

3RD MARY E. ELLIOTT MYCOLOGICAL FORAY

The 3rd Mary E Elliott Mycological Foray will be held on Friday, August 14 and Saturday, August 15, 1981. The annual foray, sponsored by the CBA/ABC, will coincide this year with the 5th North American Conference on Mycorrhizae (NACOM), being held on the weekend preceding the Conference. It will be held in the Québec City region.

The tentative plans for the foray include: departure in rented bus from Université Laval, Friday afternoon, August 14; arrival at Forêt Montmorency, boreal collecting, supper, reception, a possible speaker, and lodging; breakfast Saturday, followed by collecting in the Jardin du Parc, a southerly enclave of subarctic vegetation; lunch; visit a poplar-dominated habitat near Baie St-Paul; and, return to Univ. Laval where laboratory facilities will be available.

This promises to be a unique combination of diverse collecting habitats, magnificent scenery, and mycologists from North America and overseas.

The approximate cost is \$40-50 (Can.). There will be further details later.

Interested persons are requested to notify the Organizing Committee as soon as possible before July 10, 1981, as accommodation capacity at Forêt Montmorency is limited. Contact: Scott Redhead, Biosystematics Research Institute, Ottawa, Ont KIA OC6, or Shannon Berch, Faculté de Foresterie et de Géodésie, Université Laval, Québec, P.Q. GIK 7P4

MEMBERSHIP RENEWAL

The subscription dues for 1981 are now way overdue. If you have not renewed your membership for this year, will you please send your remittance as soon as possible to the Treasurer: Dr. Guy R. Brassard, Dept of Biology, Memorial Univ., St. John's, Nfld AlB 3X9

No future *Bulletins* or Association news will be sent to members who are not in good standing in the Association.

8TH PLANT DEVELOPMENT WORKSHOP

The 8th Plant Development Workshop, an informal bi-annual get-together of Southern Ontario botanists, was hosted on Saturday, April 4, 1981, by the Department of Plant Sciences, Univ. of Western Ontario. Forty-five persons from seven institutions attended the meeting. The morning session included the following contributed papers:

- 1. Correlation of Reproductive Anatomy and Behavior in Individuals of Crataegus crusgalli and C. punctata, T.A. Dickinson and J.B. Phipps, U.W.O.
- A Fresh Look at the Significance of Peroxidase and Plant Cell Development, R.B. van Huystee, U.W.O.
- 3. Leaf Surface Was Analysis of Corn, T. Blaker, U.W.O.
- Root Anatomy and Silicon Distribution in the Bamboo Sasa palmata, Daphne M. Bennett and A.G. Sangster, Glendon College, York Univ.
- 5. Tapetal Cell and Orbicule Development of Corn, P.C. Cheng, U.W.O. and Univ. of Chicago.
- 6. In Vitro Liquid Culture of Corn Inflorescences, Patricia Polowick, U.W.O.
- Early Growth Characteristics of Hybrid and <u>Non-Hybrid Poplar Clones</u>, Nancy Cain, Univ. of Guelph.

A poster session was held in conjunction with lunch and included the following contributions:

- 1. A Study of the Zea mays L. mutant designated "tn", tinged, Patricia Taylor and W. G. Hopkins.
- Calcium Oxalate Crystals in Plant Tissues: <u>Methods of Identification</u>, E. Spitzer and J.N.A. Lott.
- 3. Some Preliminary Observations on the Use of HPLC for the Isolation of Plant Growth Regulators, D. Greyson, Andrea Patch and Dawn Bogseth.
- 4. Comparison of Maize Polypetides from Various Sources, C.C. Baszcyzynski and W.G. Hughes.
- 5. Electrophoretic Study of Maize Pollen Polypeptides, W.G. Hughes and D.B. Walden.

Following the extended lunch/poster session, an informal discussion led by D.B. Walden tackled the topic:- "Plant Development at the Level of Transcription and Translation - Possibilities, Methods and Problems".

R.I. Greyson

FUTURE MEETINGS OF CBA/ABC

- 1982 Regina, provisional dates June 20-24.

 Joint meeting with Canadian Society of
 Plant Physiologists. See preliminary
 notice elsewhere in this issue.
- 1983 Whitehorse, tentatively July 11-15.
- 1984 Fredericton, June.
- 1985 Biological Council of Canada Sponsored Meeting. Site and date not yet determined.
- 1986 Open.
 Suggestions and/or invitations would be welcomed by the President or the Secretary of the Association.

5th North American conference on Mycorrhizae

The 5th North American Conference on Mycorrhizae will be held on August 16-21, 1981, at the Université Laval, Québec. The final date for pre-registration is July 10, 1981.

The keynote speakers and their topics are as follows:

- Systematics of ectomycorrhizal fungi.
 Title to be announced later, O.K. Miller.
- Anatomy of mycorrhizal systems.
 Comparative ultrastructural analysis of mycorrhizal associations, S. Scannerini and P. Bonfante-Fasolo.
- 3. Physiology of endomycorrhizal systems.

 The physiology of VA Endomycorrhizal symbiosis, D.S. Hayman.
- Physiology of ectomycorrhizal systems.
 Physiology of ectomycorrhizae, C.P.P.
 Reid and R.C. France.
- Ecology of mycorrhizae.
 The role of mycorrhizae in Plant Ecology,
 T. St. John and D.C. Coleman.
- 6. Mycorrhizae in Ericaceae.
 - Title to be announced later, D.J. Read.
- Application of endomycorrhizae.
 Title to be announced later, J. Menge.

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BOOK REVIEW

The Aloineae: A Biosystematic Survey, by Herbert Parkes Riley and Shyamal K. Majumdar. Published in 1979 (1980) by The University Press of Kentucky, Lexington, KY. x + 180 pp.

This is very much a specialist book on a tribe of the family Liliaceae that is primarily a South African group of plants widely used in horticulture. The authors indicate in their preface that: "The purpose of this book is to assemble in one place all [the] published material and to try to interpret from the works of the various authors some evolutionary trends and the possible taxonomic significance, if any, of the chromosomal and other factors operating in the development of the group."

In reviewing the contents of this book, which is 180 pages long, it is clear that the authors have concentrated on a thorough discussion of the chromosome numbers, their karyology, and the various mechanisms that are involved in the transfer of chromosomes in this group. In spite of the title being rather broad, i.e. 'A Biosystematic Survey', the principal content of the book is cytological, and therefore it will have a limited audience of specialists who are interested in the chromosome evolution of the tribe.

For the keen amateur and specialist in the group, there are two major deficiencies that preclude extensive use of this publication. There are no keys presented. A key to the genera would have been extremely useful to the user. Secondly, there are no lists of species with their synonyms in what is widely recognized as a very difficult group for horticulturists from a nomenclatural point-of-view.

It is unfortunate that the authors did not include these two principal aspects in their

study, as both keys and a list of synonymy are typically found in any major biosystematic survey of a group. For this reason, I think that the authors would have been better advised to indicate a sub-title The Cytology of the Tribe, rather than a general biosystematic survey.

The book is printed by an offset technique, and, unfortunately, there are no colored illustrations. It would have been nice to have at least one colored illustration of each of the principal genera discussed in the text. The balck and white pictures present are of medium quality.

The index, entitled <u>Index of Families, Genera, and Species</u>, would have been more accurately labelled as an index of genera and species, as all taxa dealt with in the text are members of the family Liliaceae. It is in this index that the authors could have combined the contemporary synonymy with the recognized taxa, and, therefore, provided both an index plus a list of synonymy at the same time.

The book presents a general overall survey of the tribe from a descriptive point-of-view, with a small section on geographical and ecological features, but no particular emphasis is made on the criteria that are necessary for cultivation of the taxa. I think that most horticulturists will be very disappointed with this book. It is a book that can be used as an additional reference for anyone interested in the cytology of the group, but as a general horticultural reference it does not provide a great deal of new information, nor is the information in a form that can be readily used by the nursery trades or the amateur horticulturist. The price of the book is \$28.75 (U.S.), and represents a rather high cost for a book of very limited value to the general reader.

> Roy L. Taylor Botanical Garden Univ. of British Columbia

RECENT PUBLICATIONS RECEIVED FOR REVIEW

Petite fleur (collection 3-8 ans) by Le groupe Fleurbec. 1981. Le groupe Fleurbec, Saint-Augustin-de-Portneuf, Québec. \$2.95.

Brin d'herbe (collection 3-8 ans) by Le groupe Fleurbec. 1981. Le groupe Fleurbec, Saint-Augustin-de-Portneuf, Québec. \$2.95.

<u>Plantes sauvages au menu, guide culinaire</u> <u>Fleurbec</u> by Le groupe Fleurbec. 1981. Le groupe Fleurbec, Saint-Augustin-de-Portneuf, Québec. \$6.50.

Plantes sauvages comestibles, guide d'identification Fleurbec by Le groupe Fleurbec. 1981. Le groupe Fleurbec, Saint-Augustin-de-Portneuf, Québec. \$8.95.

<u>Die Küstenvegetation Ostkanadas</u> by Dietbert Thannheiser. 1981. Münsterische Geographische Arbeiten, Heft 10. Ferdinand Schöningh, Paderborn. DM 41.50.

Plant Tissue Culture: Methods and Applications in Agriculture, edited by Trevor A. Thorpe. 1981. Academic Press, Inc., New York, N.Y. \$23.50.

CBA/ABC 1983 ANNUAL MEETING

The 1983 Annual Meeting will be held in Whitehorse, the provisional dates being 11-15 July, thus immediately preceding the International Permafrost Conference to be held in Fairbanks, Alaska, July 18-22, 1983.

The theme of the meeting will be "Origin, Evolution and Survival of the Canadian Northern Flora". Sections are asked to submit ideas for symposia soon to Dr. K.I. MacInnes, Site 11, Box 21, Yellowknife, NWT X1A 1H1.

A "local" committee will be set up soon to assist Dr. MacInnes (our only member in the North) in organizing the meeting.

ADVICE TO SPEAKERS, OR HOW TO WIN FRIENDS

The following tips for exciting, interesting talks have been gathered from a variety of sources and from personal experience.

- 1. Ignore all instructions sent to you prior to the talk.
- 2. Pack as much information as possible into your talk, using as much jargon as possible.
- 3. If your graduate student or colleague understands the talk, immediately re-write.
- 4. The best lectures are always written just before they are due to be given.
- 5. Never rehearse your talk. Impromptu presentations are always best.
- 6. Use slides if necessary, ensuring that each table contains as much information as possible.
- 7. Use an ordinary typewriter to set up the copy for the slides.
- 8. Be creative black and white slides are boring. Try colored lettering on a colored background.
- 9. Slides distract the audience from listening to you. Show them for as brief a time as poss-
- 10. Overhead projectors and blackboards may be useful adjuncts to your talk, especially if you speak directly to them.
- 11. Be obscure when answering questions.

PERSONALIA

It was announced at the Annual Meeting of the Canadian Society of Plant Physiologists held at Laval University in Montreal, June 15-19, 1981, that Dr. David T. Canvin of Queen's University had won the Society's Gold Medal. The Gold Medal will be awarded to Dr. Canvin at the 1982 Annual Meeting, when he will have to give an Address.

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REMINDER

Remember to let the Editor of the Bulletin and the Secretary or Treasurer of the Association have your change of address as soon as possible. Every mailing of the Association (as many as ten per year) results in the return of up to half-a-dozen items marked "Moved - Address Unknown".

If you think that you will be moving from apartment to apartment at regular intervals, consider giving the Department and University address as your mailing address for the Association.

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

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