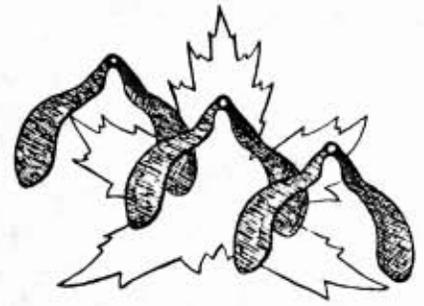


# BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA



Volume 3 Number 1

January 1970

Guelph

## EXECUTIVE MEETING NOTES:

The Executive held a meeting November 9, 1969, in Ottawa. The Constitution Committee will be directed to recommend a change in constitution admitting a new category of membership, Honorary Life Member. The draft version of the Biological Careers Bulletin being prepared by the Biological Council of Canada, under the chairmanship of Dr. A. N. Langford, was appraised and it was agreed the Executive Committee should study it further after obtaining copies of the latest version. Dr. Jack Alex has accepted responsibility for editing the *CBA-ABC Bulletin*. After discussion about policies of the Canadian Journal of Botany, the following *ad hoc* committee was struck to investigate the whole area of publications and to serve as an advisory council to the *Bulletin*: Chairman, T. Mosquin, J. Alex, P. Schnurr, A. Cardinal. Relationships of the CBA-ABC with other plant- or biology-oriented societies in Canada were discussed. The Treasurer's report was received and is reproduced on page 2 of this issue. Dr. Ritchie reviewed discussions by the Biological Council of Canada on the K. C. Fisher report on his study of Basic Biology in Canada. The main recommendations of this report will ultimately become available to the Executive Committee for study. Our representatives to the Biological Council of Canada will be the President and Past-President with Secretary and Treasurer as alternates. Other items looked at by the Executive were: Pollution probe and other areas of concern; Preparation of a roster of Canadian environmental specialists; Intercol; Executive committee meeting via telephone conference call; and publicity about award of the Lawson Medal.

## DR. K. C. FISHER

In reporting the death of Dr. K. C. Fisher, former head of the Zoology Department, University of Toronto, we are sorry that he did not live to see the implementation of some of his recommendations in the report on Basic Biology in Canada. He directed and prepared this report through the Biological Council of Canada and the Canadian Federation of Biological Societies for the Science Council and the Science Secretariat of the Privy Council Office.

## ANNUAL MEETING '70: CBA-ABC & CSPP-SCPV

Plan to attend the CBA-ABC 6th Annual Meeting, June 10-12, 1970 at Laval University, to be held in conjunction with the 11th Annual Meeting of the Canadian Society of Plant Physiologists. Symposia, contributed papers, business sessions, and 6 field trips, together with a special programme for wives and children, are planned to make this a refreshing as well as informative gathering for all Canadian Botanists, Plant Physiologists, and their families. A brief resumé of the field trips follows:

A. Southern Quebec. June 7-9. Montreal Botanical Garden, Morgan Arboretum, principal habitats from St. Lawrence Valley to Sherbrooke. \$50. G. Lemieux organizer.

B. Lake St. John — Saguenay. June 6-9. Across Laurentides Park, around Lake St. John, Saguenay, Ste.-Marguerite River Valley, Baie St. Paul. Essentially ecological in scope. \$90. M. Jurdant organizer.

C. Gaspé Peninsula. June 13-18. Riviere-du-Loup, Mont. St. Pierre, Bonaventure, Percé, and Cape Gaspé for fascinating diversity of scenery with visits to a variety of forest types and areas with interesting local species, plus the Oceanographic Laboratory at Rimouski. \$125. P. Dansereau organizer.

D. Levis County. June 13. Sugar maple-basswood and ash-elm communities, a peat-bog, and other tension zone habitats described in the light of recent ecological studies. \$7. R. Cayouette organizer.

E. Montmorency Forest. June 13. Forest stands illustrating transition from St. Lawrence Valley hardwood forest to boreal fir forest of Laurentide Park. Will emphasize forest ecology. \$8. C. Winget organizer.

F. Faculty of Agriculture's Experimental Stations. June 13. On-campus pedagogical garden planted according to systematic classification, Experimental Farm at St. Augustin, and Zoological Garden of Charlesbourg. \$7. M. Trudel organizer.

Come — and by your participation help increase the value of this Annual meeting for all who attend. And if you plan to present a paper, be sure to submit an abstract and registration form to M. Camille Rousseau, Herbarium Louis-Marie, Université Laval, Quebec, Canada. *The deadline has been extended to April 1, 1970.*

Each annual meeting of the Canadian Botanical Association has differed in location and emphasis. Among other unique features at Laval this year, we are attempting for the first time to coordinate part of our program with the Canadian Society of Plant Physiologists. Following their lead a major item will be a joint symposium headed by authoritative internationally known speakers on tissue differentiation. In the past our symposia have been organized using our own members with few outside participants. The executive will be pleased to have your reaction to this coordinated part of the meeting and to the introduction of outstanding speakers to our program.

## "SCITEC": CANADA'S OWN "AAAS"

SCITEC (pronounced as "SIGH-TEK") was founded in Ottawa on January 17, 1970. Its objective: "To marshal the scientific, engineering and technological community to provide leadership, to communicate, cooperate and work within itself, with government and the public in the national interest in those areas in which it can make a competent contribution." Membership is open to anyone with an interest in science and technology. Ted Mosquin tells us more beginning on page 3.

DATE — LIMITE DU BULLETIN PROCHAIN: LE 15 AVRIL

## CBA-ABC NEWS

## 1969/1970 Executive Committee

President ..... H. M. Dale (University of Guelph)  
 Vice-President ..... J. R. Stein (University of British Columbia)  
 Secretary ..... H. R. N. Edyt (University of Waterloo)  
 Treasurer ..... W. I. Illman (Carleton University)  
 Past-President ..... J. C. Ritchie (Dalhousie University)  
 Directors:

G. W. Argus 1968-70 (Canadian Forestry Service); M. A. M. Bell 1968-70 (University of Victoria); A. Cardinal 1969-71 (Université Laval); P. B. Cavers 1969-71 (University of Western Ontario); T. Mosquin 1968-70 (Plant Research Institute, Ottawa); J. S. Rowe 1969-71 (University of Saskatchewan).

## SECTION NEWS — ACTUALITES DES DIVISIONS

This column regularly carries news as submitted to the Editor by each Section.

## ECOLOGY SECTION

Chairman: J. S. Rowe, Department of Plant Ecology, University of Saskatchewan, Saskatoon.

Secretary: P. B. Cavers, Department of Botany, University of Western Ontario, London.

At our Section meeting, in 1968, it was suggested that Biologists willing to use their skills for consulting or working on the improvement of environmental quality should make this willingness known. The subject was raised at the recent meeting of the executive committee in Ottawa. J. S. Rowe was instructed to compile a list of Canadian Environmental specialists within or without the CBA-ABC, who are competent and would be willing to advise public and private agencies on matters having to do with the deterioration of land, water, and air environments.

The Ecology Section has collected information on its members' interests with a questionnaire circulated by P. B. Cavers. This will provide the basis for a first roster to which, hopefully, other names will be added. (And here we enter a plea that the twenty members who have yet to complete and return this questionnaire, would please do so as soon as possible). There is no intention of confining the list only to those who have described themselves as "Ecologists". It must be broader. Volunteers from any of the sciences will be welcome. Information required includes name and address, present employment, degrees and professional or other qualifications with dates, relevant publications and experience, and, very important — the topics and geographical areas within which the volunteer would advise. For further information, please contact J. S. Rowe.

Interestingly, the British Ecological Society is assembling a similar list of members prepared to undertake part-time consultancy work on ecological subjects. The Ecological Society of America has similar plans.

## GENERAL SECTION

Chairman: R. T. Riddell, Department of Botany, University of Guelph.

Secretary: W. I. Illman, Department of Biology, Carleton University, Ottawa.

## MYCOLOGY SECTION

Chairman: D. M. MacLeod, Insect Pathology Research Institute, Sault Ste. Marie.

## PALEOBOTANY SECTION

Chairman: G. E. Rouse, Department of Botany, University of British Columbia, Vancouver.

Secretary: Margaret W. Steeves, Department of Geology, University of Saskatchewan, Saskatoon.

## PHYCOLOGY SECTION

Chairman: R. F. Scagel, Department of Botany, University of British Columbia, Vancouver.

Secretary: R. K. S. Lee, National Herbarium of Canada, National Museums of Canada, Ottawa.

## SYSTEMATICS AND PHYTOGEOGRAPHY SECTION

Secretary: J. B. Phipps, Department of Botany, University of Western Ontario, London.

Members wishing to affiliate with or learn of activities of a section should contact the Section Secretary or the Secretary of the Association.

## STATEMENT OF FINANCIAL STANDING—10 SEPT. '69

		<i>Assets</i>	
Balance in Savings Account			\$2152.42
Balance in Current Account			1779.25
Fees awaiting deposit			49.74
			<hr/> 3981.41
Less: Liabilities			688.11
			<hr/> \$3313.30
		<i>Liabilities</i>	
Cheques Outstanding			\$632.87
Bills unpaid			35.24
			<hr/> \$668.11
		<i>Receipts</i>	
Membership Fees			
Regular		\$816.00	
Student		68.00	
Arrears		12.00	
Advance		19.00	\$915.00
Subscriptions (C.J.B.)			283.50
Interest on Savings			54.22
Exchange on cheques			10.96
Refund on N.S.F. cheques			52.50
Refund on post office applications			15.00
Royalties (U. of T. Press)			32.24
			<hr/> \$1363.42
		<i>Expenditures</i>	
Subscriptions (C.J.B.)			\$336.00
C.B.A. Bulletin (3 issues)			483.68
Travel of Executive			103.75
Postage and Stationery			367.82
Biol. Council Dues			275.00
Banks Charges			27.50
Field Trip deficit (1967)			132.51
Medals (C.B.A. Awards)			319.95
Shipping of stationery			12.00
Directory Can. Botanists			522.14
Annual Dinner (Seattle)			30.20
			<hr/> \$2610.55
		<b>SUMMARY</b>	
Balance at last Audit — Dec. 30/68			\$4595.67
Receipts: Dec. 30/68 to Aug. 5/69			1363.42
			<hr/> \$5959.09
Net balance on August 5/69			\$3313.30
Expenditures: Dec. 30/68 to Aug. 5/69			2610.55
Bills unpaid			35.24
			<hr/> \$5959.09
Audited and found correct by:			
(signed) R. J. Moore, Robert R. Ireland, Irwin Brodo			
Date September 15, 1969			
(signed) James H. Soper, Treasurer			
<b>Supplement, 7 Nov. '69</b>			
		<i>Receipts</i>	
C.S.P.P. to Directory			\$100.00
Memberships and Subscriptions			29.50
		<i>Expenditures</i>	
Bills paid N.R.C.			\$32.24
Royalties and C.J.B.			3.00
Bills unpaid: 1 C.J.B. 1970 subsc.			4.50
Memberships: Three new memberships have been taken out.			
Forty-five members remain delinquent.			
			Respectfully submitted,
7. Nov., 1969.			W. I. Illman.
<hr/>			
CBA-ABC — Proposed Budget for 1970 (07/08/69)			
		<i>Receipts</i>	
Membership Fees			
Regular 360 at \$6.00			\$2160.00
Student 50 at \$2.00			100.00
Bank Interest and Exchange			140.00
			<hr/> \$2400.00
		<i>Expenditures</i>	
CBA Bulletin (4 issues)			\$700.00
Annual Meeting			600.00
Travel of Executive			370.00
Biological Council Dues			330.00
Postage and Stationery			250.00
Lawson Award			150.00
			<hr/> \$2400.00

## FROM THE EDITOR

A poor start has one notable advantage: there remains room for improvement! So it is with this first edition of our *CBA-ABC BULLETIN* by its new editor. This winter the "flu" took a vast toll in lost time and delayed work in many areas — even the *BULLETIN* was not exempt. Nevertheless, responsibility for this long delay in publication, as well as for errors and omissions, all rest with yours truly.

The *ad hoc* committee on publications (see Executive Committee Notes) will have its first meeting soon and the future of the *BULLETIN* will be on our agenda. This quarterly is intended to be, in part, a forum for our association. Every member who has any criticism or suggestion regarding this publication is invited to write and tell us about it. Direct your correspondence to me or to Ted Mosquin.

One other thing — let me remind you to look closely at The Kentucky Fellowship announced here. Let us see how many nominees from our membership we can mount for this award.

J.F.A.

## THE KENTUCKY FELLOWSHIP

The University Press of Kentucky has announced The Kentucky Fellowship, a \$5,000 grant for the best work in progress on any aspect of ecology or conservation.

The competition will run from November 1969 through October 1970. It will be open to any environmental scientist, humanist, social scientist, or anyone writing or researching a book-length study likely to make a valid and important contribution to man's understanding of his relationship to nature.

The judges for The Kentucky Fellowship are Leonard Carmichael, The National Geographic Society; Marston Bates, The University of Michigan; Loren Eiseley, The University of Pennsylvania; Edward Weeks, The Atlantic Monthly Press; and Elvis Stahr, The National Audubon Society.

Inquiries should be directed to The University Press of Kentucky, Lexington, Kentucky 40506.

## CBE TO MEET IN OTTAWA

This spring, for the first time, the Council of Biology Editors, will meet outside of the United States. At the invitation of the National Research Council of Canada, the fourteenth annual conference will be held May 11 and 12 at Carleton University.

To Canadian biologists, CBE is probably best known as the publisher of a *Style Manual for Biological Journals* and of the more recently issued *Scientific Writing for Graduate Students*. Its activities, however, are many and varied, effectively adapted to its purpose of fostering "education and improved communication in the biological sciences by providing efficient means for cooperation among editors and promoting effective publishing of continuing publications." The committees of CBE are continually at work; representatives have participated in the program of such bodies as UNESCO, and independently and with others (especially the National Science Foundation and American Institute of Biological Sciences), CBE has sponsored workshops and special studies, projects, and meetings.

The program of the Ottawa meeting will be of interest not only to Canadian members of CBE but to all biologists. Planned for May 11 is a discussion of The Prerogatives of Editors, and, for May 12, of the Journal in the Computer Age.

The Secretary of CBE is Dr. Karl F. Heumann, Executive Editor (Federation Proceedings), FASEB, 9650 Rockville Pike, Bethesda, Maryland, 20014.

## ROUND TABLE ON INFORMATION PROBLEMS, AUGUST 1969

Since, in late August '69, botanists were in, or en route to, Seattle when the American Institute of Biological Sciences met in Vermont, I am reporting, very briefly, about one of the sessions featured by AIBS: a Second Annual Round Table Discussion on Information Problems in the Biological Sciences. In opening the meeting, Dr. Robert E. Gordon, Dean of Science, University of Notre Dame, remarked that the Round

Table was planned to "see what is going on" for it is necessary now to consolidate biological information activities. Dr. J. Roger Porter, University of Iowa, moderator for the afternoon, noted that the large audience reflected the current concern about the problem of Scientific Communication and that, just a few years ago, only a handful of persons would have been present!

The morning was devoted to a discussion of the organization of biological information from three points of view: Federal (U.S.) Government, non-Government (Industrial), and Information Services (Biological Abstracts).

In the afternoon many differing information activities were described in reports from societies and institutions. For the Council on Biological Sciences Information, Dr. W. C. Steere, Director of the New York Botanical Garden, discussed a voluminous report, just completed but still not published, on Information Handling in the Biological Sciences.

Among the messages that emerged from the day-long meeting were the need for compression of material to be published, the need for scientists to share in coping with the complex problems of handling biological information, and the need for action now.

## A NATIONAL SCIENCE ORGANIZATION FOR CANADA

English-speaking Canada's version of the AAAS was formed at Ottawa, January 16 and 17, 1970. The Second National Science and Engineering Conference was in fact the founding meeting of SCITEC — short for The Association of Scientific, Technological and Engineering Communities of Canada. The Canada Department of Agriculture was host to the meetings.

One purpose of SCITEC is to act as a "sounding board" for policy-makers; another is to organize annual meetings of the member societies similar to those sponsored by the AAAS. French-speaking Canadians already have an organization that fulfills this function — l'ACFAS — L'Association Canadienne Française pour l'Avancement des Sciences, now 47 years old. L'ACFAS representatives, including its president and legal advisor, were present at the founding meeting of SCITEC and participated actively in the discussions.

The SCITEC meetings were attended by over 100 delegates representing nearly all the scientific (including Social Sciences), medical, technological, engineering and biological organizations in Canada.

A provisional constitution and by-laws were adopted. Standing Committees formed at the meetings were Public Opinion, Communications, Membership, and Finance. In four

or five years the annual operating budget is expected to be over \$200,000. SCITEC plans to approach the University of Toronto Press to explore the possibility of adopting "Science Forum" as the official publication.

The principal discussions dealt with organizational problems. Considerable concern was shown by delegates that SCITEC stay flexible and loose so that it be capable of evolution in the future and so that democratic procedures may prevail.

The structure of SCITEC will be as follows:

President

6-man Executive with a secretariat

SCITEC Council (22 from the Congress; 7 from l'ACFAS)

SCITEC Congress (200 members elected or appointed by the various societies)

Societies (about 60)

Individual Members

Working Committees (to be created by SCITEC Council)

The formation of a national science organization naturally raises some fundamental questions such as: What role should science play in society and therefore, toward what goals should scientific organizations direct their efforts? Opinions on these questions will vary depending on the view one holds on the nature of man and his needs. To this observer, the overriding problems of our time are the human population explosion and global environmental pollution that this explosion is causing. Hence, it seems obvious to me that any science organization to be responsible, must direct its main efforts toward solving these problems. And, further, it should work mainly with its member societies and with people, rather than by offering

advice to governments — such advice to governments will surely come naturally as it has in the past from many quarters, not only from scientists.

During the meetings at Ottawa, there was little evidence that SCITEC would concern itself with the population and pollution issues in a major way. The delegate from the Royal Architectural Institute of Canada summed this up well at the end of the meetings by stating that "the environmental thread has been lost at these meetings." Had an environmentally-conscious SCITEC existed in 1962, immediately following the publication of Rachel Carson's *SILENT SPRING*, it may not have required an additional 8 years to create a general public awareness to the environmental hazards of persistent pesticides. Similar environmental problems exist today and some scientists know about them, but once again the public is not adequately informed; hence solutions to the problems do not have the necessary public support. Will SCITEC be an organization where the voice of the independent scientist (one who does not speak mainly for the special interests of his employer) is heard loudly and clearly? Because of the importance of the population and pollution issues to the future of our species and to civilized values, active environmental scientists should occupy leading roles in any national science organization; otherwise the organization will remain marginally relevant to the needs and interests of most people.

Even a national organization like SCITEC will not assure that scientists speak with one voice, for such is not the nature of science. Common agreement among scientists is not possible on most issues. If SCITEC succeeds in being the sounding board through which the diversity of scientific views can be freely expressed and where new facts can be openly interpreted and communicated to the public and to governments it would achieve a most useful and worthy purpose.

Additional information about SCITEC can be obtained from the Chemical Institute of Canada, 151 Slater St., Ottawa.

Theodore Mosquin

## PERSONALIA

*George W. Argus*, resigned from the University of Oregon and returned to Canada to take up a position of Research Scientist (Plant Taxonomy) with the Canada Department of Fisheries and Forestry, Forestry Branch, 344 Wellington Street, Ottawa 4, Ontario, as of February 4, 1970.

*Bruce Cumming*, a member of both CBA-ABC and CSPP-SCPV is the new President of the latter organization. Bruce and his recent bride took a "bus man's honeymoon" to attend the International Botanical Congress and our CBA-ABC Banquet in Seattle last Autumn.

*William G. Hopkins*, joined the Department of Botany in the University of Western Ontario at London in September. He obtained his Ph.D. from Indiana University in 1964, was a Research Associate at Brookhaven National Laboratories from 1963 to 1965, and spent four years teaching at Bryn Mawr in Pennsylvania. His field is Phytochrome action.

*Roy A. Lubke*, and *Jim Phipps*, completed their Ph.D. degrees at the University of Western Ontario. Roy is now in England doing post-doctoral work with Dr. M. Proctor at Exeter University.

*D. B. Redfern* has moved from the Forest Research Laboratory at Fredericton, New Brunswick, to Hampshire, England.

*B. C. Sutton* moved from Winnipeg, Manitoba, to London, England.

*Zdenek Urban*, mycologist from Charles University, Prague, Czechoslovakia, visited Ottawa January 7-12 to meet and confer with mycologists at the Plant Research Institute. Dr. Urban was returning to Czechoslovakia after spending nine months studying rust fungi at Purdue University.

*C. Harold Zavitz* distributed a fascinating Christmas letter to friends and relatives from his new home in London, Ontario. After achieving a second retirement, Dr. and Mrs. Zavitz sailed aboard the Queen Elizabeth II to England, and spent three months there and on the Continent. What a marvelous way to begin one's retirement "in earnest". Our hearty congratulations to Dr. Zavitz.

## SEEKING THE LOST

Can you help us by supplying new addresses, or at least the whereabouts, of the following members: Dr. Richard Bland, Dr. C. C. Kuehner, Miss Soong Ming Chu, Mr. P. Jan Scheffer, Mr. B. I. J. Wiebe.

## NEXT DEADLINE FOR CBA-ABC BULLETIN: APRIL 15

*CBA-ABC BULLETIN* is published quarterly in January, April, July and October by the Canadian Botanical Association — L'Association Botanique du Canada. All correspondence for the *BULLETIN* should be directed to: J. F. Alex, Editor, Department of Botany, University of Guelph, Guelph, Ontario, Canada.