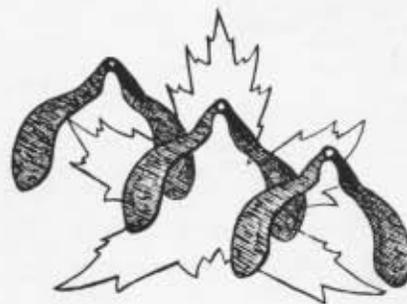


BULLETIN

L'ASSOCIATION BOTANIQUE DU CANADA



Volume 2 Number 4

October 1969

Vancouver

SEATTLE REPORT

The XIth International Botanical congress was an unqualified success from the Canadian point of view.

ANNUAL MEETING

Nearly 100 members of CBA/ABC gathered for an informal social hour and salmon dinner at the Sherwood Motor Inn on the occasion of the 4th Annual Meeting of the Association. All members congratulate our secretary for his forethought in arranging this function off the University of Washington campus! Guests at the dinner from Japan, Argentina, Switzerland and United States were in keeping with the international flavor of this meeting. The highlight of the evening was the award of the first George Lawson Medal of Botany to a distinguished Canadian botanist, Professor Jacques Rousseau. Our President, Dr. J.C. Ritchie, introduced the award by outlining its history and emphasizing its importance as a means for recognizing outstanding contributions of Canadians to the field of botany. Dr. Ritchie then introduced Professor Rousseau by saying:

"J'ai le très grand honneur de vous annoncer que la première Médaille Lawson de l'Association botanique du Canada a été décernée au Dr. Jacques Rousseau de l'Université Laval. Comme plusieurs d'entre vous le savent, le Dr. Rousseau a apporté une contribution notoire aux connaissances de la botanique surtout dans les domaines de la floristique des régions boréales et arctiques de sa propre province, le Québec; mentionnons entre autres la phytogéographie, la taxonomie et l'ethnobotanique. Par ses nombreuses publications, conférences et émissions, il a su faire progresser remarquablement la botanique au Canada; et il s'est particulièrement distingué aux postes élevés qui lui ont été confiés dans l'administration d'institutions tant provinciales que fédérales." The President then called on a Dr. Askell Löve, a longtime friend of Professor Rousseau to make the presentation. Professor Rousseau thanked the Association for the award and gave both a witty and thought provoking address on the state of Canada today. A brief biography of Professor Rousseau appears elsewhere in this issue.

Auditors appointed at the Annual Meeting for 1969 were R.J. Moore of the Plant Research Institute, Ottawa and I.W. Brodo, Museum of Natural Sciences, Ottawa.

New members of the Executive Committee elected were President Hugh M. Dale 1969-70 (Guelph), Vice-President Janet Stein 1969-70 (University of British Columbia); Directors for 1969-71, Paul B. Cavers (University of Western Ontario), André Cardinal (Université Laval); John S. Rowe (University of Saskatchewan).

CONGRESS NOTES:

Other members of CBA/ABC were honored by the Congress. Dr. D.B.O. Savile of the Plant Research Institute, Ottawa, was appointed to a committee for planning for future congresses. Dr. Stanely J. Hughes, Plant Research Institute, Ottawa, received The Jakob Eriksson Gold Medal for Mycology, Plant Pathology and Virology at the closing

Plenary Session of the Congress. This is the third time the medal has been given and the award was made to Dr. Hughes for his work on advances in the classification of the Fungi Imperfecti. The award, given by the Royal Swedish Academy of Science began in 1923 as a cash fund and was given in 1930 at the Cambridge Congress to Dr. J.H. Craigie, well known Canadian plant pathologist.

The XIIth International Botanical Congress will probably be held in Leningrad in 1975.

The Hunt Botanical Library had a most interesting exhibit of botanical artists. Examples of outstanding illustration are always welcomed by the Library and enquiries should be directed to Director, Hunt Botanical Library, Carnegie Inst. of Tech., Pittsburg, Pennsylvania, 21513.

A special philatelic ceremony was held to commemorate the issue of four 6 cent botanical stamps issued by the United States Post Office during the Congress.

EXECUTIVE MEETING NOTES:

The Executive held one meeting during the congress. Treasurer reported that there are now 359 regular members and 71 student members. Twenty-seven new members have joined to date. The financial statement of the Association for the 1969 fiscal year will appear in the next issue of the Bulletin. The Executive are going to review two additional classes of membership in the coming year, i.e. membership for retired members and honorary life members. Other items discussed include the draft version of the Biology Career Brochure being produced by a Biological Council of Canada committee under the chairmanship of Dr. A.N. Langford; the preliminary arrangements for the next annual meeting at Laval (see report in Bulletin); the problem of publishing longer scientific articles and the proposal to investigate the development of special supplements to current Canadian journals publishing botanical works; the establishment of the Lawson Medal committee with a report to be made by President Dale; the possibility of joint meetings with other Canadian societies such as the Entomology Society of Canada and the Genetics Society of Canada; and proposed joint Botanical Society of America and CBA-ABC meeting in 1971.

The new Directory of Canadian Botanists has been distributed. Extra copies can be obtained from the Treasurer at \$1.00 per copy. Directories will be made available to commercial firms at a cost of \$85.00 per copy.

A vote of thanks was given to Janet Stein, Editor of the Bulletin and James H. Soper, Treasurer, for their excellent service to the Association during their terms of office.

The Executive Committee will hold their fall meeting on November 8th in Ottawa.

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. Eydtt (University of Waterloo)
 Treasurer W.I. Illman (Carleton University)
 Past-President J.C. Ritchie (Dalhousie University)

Directors:

G.W. Argus 1968-70 (University of Oregon); 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. An asterisk (*) preceding a section name indicates a formerly organized and recognized Section.

Sous cette rubrique se trouvera des nouvelles des Divisions. Un astérisque (*) précédent indiquera une Division formellement reconnue.

ECOLOGY SECTION

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

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

GENERAL SECTION

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

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

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.

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

PHYCOLOGY SECTION

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

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

SYSTEMATICS AND PHYTOGEOGRAPHY SECTION

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

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

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: Jack F. Alex, Editor, Department of Botany, University of Guelph, Ontario, Canada.

BULLETIN HAS NEW EDITOR

Dr. Jack F. Alex, Botany Department of the University of Guelph, has been appointed as the new editor of the

Bulletin commencing with the first number of Volume 3. The Bulletin has prospered since it was first launched in July of 1968 under the expert editorial hand of Janet Stein. Janet is currently travelling down under, visiting Australia and New Zealand on a well earned sabbatical leave. We wish her well and look forward to her return in the spring as our new Vice-President. I hope all members will make Jack's new task that much easier by providing copy for the Bulletin and we wish him every success in his new task. Any errors or admissions in this issue are the result of bungling by acting-editor Roy L. Taylor.

1970 ANNUAL MEETING

The 1970 annual meeting will be held June 10-12 at the Université Laval. The Canadian Society of Plant Physiologists will be joining us for this meeting. Plans are well under way for this meeting and an active committee is busy organizing the affair. The committee consists of: Lionel Cinq-Mars, président, Claude Willemot, secrétaire-trésorier; Hugh M. Dale, Gilles Lemieux, Roger Paquin, André Cardinal, Marcel Lortie and Claude Aubé. All correspondence should be directed to Prof. Lionel Cinq-Mars, Conservateur, Herbar Louis-Marie, Université Laval.

1971 ANNUAL MEETING

The 1971 meeting is scheduled for late June in Edmonton. The Botanical Society of America and a number of its affiliated Botanical societies will be meeting jointly with us at that time. Our local representative will be Wilson M. Stewart, Chairman, Botany Department, University of Alberta.

CONTROLLED ENVIRONMENT CENTRE OPENS AT CARLETON UNIVERSITY

Dr. Kenneth V. Thimann of the University of California, Santa Cruz, officiated at the opening of the new Environmental Laboratory (Biology) on the Campus of Carleton University, Ottawa, Sept. 25, 1969.

The new complex provides greenhouses for the growth of a permanent collection of plants (temperate, tropic and desert) for use in teaching and research, numerous controlled environment chambers for growing experimental plants and rearing insects, cold rooms and ranges of glass-houses for research in ecology plant physiology, virology, entomology and pathology. The support area in the main building provides excellent facilities for greenhouse management to a competent but small staff headed by horticulturist H. Datema as Curator. A small outdoor growing area and arboretum adjoins the building.

Unexcelled facilities for research in plant physiology (Dr. J.A. Webb), virology (Dr. Peter Lee), cell biology (Dr. George Setterfield) and mycological plant pathology (Dr. W.I. Illman) are provided in the laboratories of the main building. A teaching laboratory for Plant Taxonomy, drawing on the extensive resources of the near-by living plant collections and herbaria, completes the complex.

Carleton is extremely happy to be able to have these facilities and to make them available for sharing with neighbouring sister universities and research groups.

NEW ARBORETUM AT GUELPH

A 300 acre arboretum will be established at Guelph. The new arboretum is the result of planning by the departments of Botany, Horticulture and Landscape Architecture. The area is set in rolling land and possesses woods and ponds. Over 2,000 woody species including commercial varieties, will be grown in the arboretum. It is estimated that the arboretum will provide plant material for 4,500 students in over 60 courses. For the University community and the general public, the new arboretum will be a valuable addition to the facilities of the University of Guelph.

Dr. R.J. Hilton, former chairman of Horticulture, has been appointed director.

JACQUES ROUSSEAU- LAWSON MEDAL WINNER

Professor Jacques Rousseau was awarded the first of The Canadian Botanical Association - L'Association Botanique du Canada George Lawson Medals in Botany. He is Professeur d'ethnobiologie et chargé de recherches, Centre d'Études Nordiques, Université Laval.

Professeur Rousseau is the author of over 500 articles covering many phases of science and the social sciences. Although his primary interests are in botany and ethnobiology, he has published on topics in agriculture, horticulture, zoology, geology and anthropology. He has been honored by many societies and organizations including election in 1942 as a Fellow of The Royal Society of Canada and is the recipient of the Médaille Marie-Victorin, Médaille de la Société botanique de France, and The Certificate of Merit of the Botanical Society of America.

He is best known for his activities associated with the Université de Montréal and the Jardin Botanique de Montreal. During the period 1928-1944 he was a member of the Institut Botanique, Université de Montréal. In 1938 he first became affiliated with the Jardin de Botanique and upon the death of Frère Marie-Victorin (1944) was appointed Director until 1956. During this 28 year period he participated in a number of collecting trips mainly in Québec, Labrador, the Maritimes, the island of St. Pierre and Miquelon and the Northwest Territories. The results of these trips have served as the bases of many publications. From 1956 to 1959 he was Director of the Musée de l'Homme du Canada and in 1959 moved to Paris where he was Professeur associé at the Sorbonne. In 1962 he returned to Canada to his present position at Université Laval.

The awarding of the George Lawson Medal in Botany at the XIth International Botanical Congress has special meaning to Professeur Rousseau. He has taken an active role in previous Congresses serving as President of sections and as a member of the Executive Committee for the IXth Congress held in Montreal in 1959.

We are pleased and proud to have Dr. Rousseau as our first recipient of the Association's George Lawson Medal in Botany.

KANANASKIS '69 - FUNGI IMPERFECTI

Twenty mycologists from eight countries, assembled at the University of Calgary's Environmental Sciences Center at Kananaskis, Alberta, for the first International Specialist's Workshop-Conference on Criteria and Terminology in Fungi Imperfecti.

Intensive discussions of conidium ontogeny and other characteristics of these fungi were held. It is hoped that concepts and definitions can be agreed upon and the course of action for future research on these fungi indicated.

Proceedings of the conference will be published as soon as possible. If you are interested in more details, contact the Convenor and Chairman, W. Bryce Kendrick, Department of Biology, University of Waterloo, Waterloo, Ontario.

WALTER JEFFREY 1933-1969

Dr. Walter W. Jeffrey, associate professor of forest hydrology, University of British Columbia, was one of three persons killed on August 14 in a helicopter crash on the Liard River at Fort Liard in the North West Territories.

Born in Ayton, Berwickshire, Scotland, in 1933, Dr. Jeffrey obtained a Bachelor of Science degree (Forestry) in 1953 and a Bachelor of Science (Honours) degree in 1954 from the University of Edinburgh. He studied at the Swiss Federal Institute of Technology, Zurich, Switzerland during 1954-1955. He obtained a Master of Forestry degree from Oregon State University in 1956

and the Doctor of Philosophy degree from Colorado State University in 1968.

Prior to joining the U.B.C. Faculty of Forestry in 1966, Walt spent several years as a Research Officer and Research Scientist in the Forest Research Branch of the Canada Department of Forestry in Ottawa, Ontario, and Calgary, Alberta. In 1962 he was appointed Co-ordinator, East Slopes (Alberta) Watershed Research Program and in 1965 was appointed Section Head, Watershed Management and Tree Biology Research for Alberta, the North West Territories and the Yukon Region.

At the University of British Columbia, Walt had established a very active program of under-graduate and graduate instruction in forest hydrology and a strong and expanding research program. Early this year he initiated a ten year study of the watershed of the Greater Vancouver Water District with the twin objectives of helping to insure continuance of the high quality of water from these watersheds and of learning the hydrologic characteristics of the heavily forested coastal lands of British Columbia.

In addition to his leadership in programs of teaching and research in forest hydrology at U.B.C., Walt played a strong advisory role in forest and land use policy through service on numerous national committees.

Walt's dedication to excellence and his often witty intolerance to mediocrity gained him the respect of his colleagues everywhere. At the University of British Columbia he enjoyed the enviable reputation among his students as an excellent teacher, confident and friend.

At the time of his death, he was taking part in a water resources study sponsored by the Canadian Department of Indian Affairs and Northern Development.

Walt is survived by his wife, Robena (nee Robinson) and his four year old daughter, Lisa.

As a memorial to Walt, a scholarship fund has been established by a group of his close associates at U.B.C.

Friends wishing to contribute to this scholarship fund may do so by sending marked donations to the Faculty of Forestry, U.B.C.

INTERESTING BOOKS

"Some Common Mosses of British Columbia" by W.B. Schofield (University of British Columbia). 262p. British Columbia Provincial Museum Handbook No. 28 \$1.00. Available August 1969. Illustrations by Patricia Drukker-Brammall. Order from Provincial Museum, Victoria.

"Plant Structure and Development - A Pictorial and Physiological Approach" by T.P. O'Brien and Margaret E. McCully (Carleton University). Published by Collier-MacMillan Canada Ltd.

POSITION AVAILABLE

Position available at the University of Toronto in Vascular Plant Systematics. Duties may include some introductory teaching, some teaching of taxonomy, and research. Rank and salary commensurate with experience. Apply directly to: Professor N.P. Badenhuizen, Chairman, Department of Botany, University of Toronto, Toronto 5, Ontario.

CALL FOR NOMINEES FOR GEORGE LAWSON MEDAL

Members are reminded that nominations for the George Lawson Medal of Botany for 1970 should now be forwarded to President Hugh Dale prior to January 15, 1970. The purpose of the award(s) is "To provide a collective formal expression of admiration and respect of botanists in Canada for the excellence of the contribution of an individual(s) to Canadian botany. Two awards can be given annually. (1) An award for a single outstanding

contribution to botanical knowledge. (2) An award for recognition of cumulative distinguished contributions of a senior investigator, teacher, or administrator. It is possible that only one award or none will be given. Any professional botanist working permanently in Canada is eligible. Nominations should be accompanied by supporting statements and biographic data.

PERSONALIA

Ernest Small, recent graduate of the University of California, Los Angeles, has joined the Taxonomy Section of the Plant Research Institute, Ottawa to work in ecophysiological systematics.

Robert Reid of Washington State University has been appointed to the staff of the Department of Biology at the University of Ottawa to continue work in forest ecology.

Michael Dickman of the University of British Columbia, has returned from a post-doctoral year at Uppsala, to join the Department of Biology at the University of Ottawa. Dr. Dickman will be conducting research on the ecology of aquatic organisms.

Congratulations to Bill Grant on the publication of the first Bulletin of the Genetics Society of Canada.

James W. Markham, completed PhD at University of British Columbia, and will be NRC Post-doctoral Fellow at the Atlantic Regional Laboratories in Halifax.

Robert W. Hounsell has moved from Kitchener, Ontario, to the Department of Biology, Nova Scotia Agricultural College, Truro.

John McNeill is new Chief of Vascular Plant Taxonomy Section of the Plant Research Institute in Ottawa. He comes from the University of Liverpool via the University of California at Irvine.

Bernard Bovin, of the Plant Research Institute in Ottawa, was elected a Fellow of the Royal Society of Canada. He is presently a visiting Professor in the Botany Department at the University of Toronto.

Paul Maycock has moved from McGill University to the University of Toronto.

Glenn Rouse is on leave of absence from the University of British Columbia. He is associated with the University of Nagasaki in Japan.

Mohan Wali, from the University of British Columbia, has taken a position as Assistant Professor at the University of North Dakota, Grand Forks.

Charles Beil, University of British Columbia, has been appointed Assistant Professor of Biology at Acadia University, Wolfville, Nova Scotia.

Gary T. Cole is remaining at the University of Waterloo as a Post-Doctoral Fellow with Bryce Kendrick.

Wilfred B. Schofield, University of British Columbia, led the Bryophyte field trip for the XI Botanical Congress. T.M.C. Taylor led several of the one-day fern forays for the Congress.

David H.S. Richardson has been appointed assistant Professor of Botany at Laurentian University, Sudbury. He is interested in physiological and ecological aspects of lichenology, and comes from the University of Exeter, England.

Clayton M. Switzer University of Guelph, represented Canada at the First International Turfgrass Research Conference held this summer in Harrogate, England. He was elected to the Executive Committee of the newly formed International Turfgrass Society.

John Sutton, who recently completed his Ph. D. at University of Wisconsin, has accepted a research, teaching, and extension position in the Botany Department at the University of Guelph.

Roger Horton, formerly a post-doctoral fellow in the Botany Department at the University of Guelph, has now

joined the faculty of that Department. He will teach and continue his research in Plant Physiology.

I.R. Evans, formerly from Wales, has recently completed his Ph. D. at the University of Florida and joined the Department of Botany at the University of Guelph. Dr. Evans, a virologist, will have research, teaching, and extension duties.

PLANNING FIELD TRIPS OR RESEARCH?

A recent bulletin has been issued from the Department of Biology of Queen's University entitled "Field Stations of Ontario". It was prepared at the request of the Committee of heads of departments of Biological Sciences of Ontario and should be useful for people planning field trips or research in Ontario.

DATE - LIMITE DU BULLETIN PROCHAIN: LE 15 JANVIER

SPEAKING OF MEETINGS!

The following article appeared in Science 163:764-765 by Ronald G. Harvey that is of interest to CBA/ABC members.

MIGRATORY HABITS OF THE SCIENTIFIC GOOSE.

The rapidly expanding population of the once rare bird, the scientific goose, has increased the importance of attempts to study and interpret the rather exceptional geographic movement patterns of this species. Although permanent nesting areas are found in all habitable regions of the earth, they tend to be concentrated in the vicinity of the major cities. At intervals, which correlate only approximately with seasonal variations, individual birds from widely separated nesting sites simultaneously take flight. They travel, often vast distances, to flocking points where they engage in the "ritual ceremony" or "symposium" which lasts an average of 5 to 7 days, then return to their points of origin. The cycle is repeated again and again, with the only discernible difference being the location of the flocking point.

The assumption that this migratory behavior is related primarily to breeding may be rejected on the grounds that the males greatly outnumber the females; moreover, the frequency of participation appears to accelerate with age, so that the oldest birds (easily distinguishable by their bedraggled feathers and drooping tails) are in almost constant flight. Any alternative hypothesis to explaining this mysterious evolutionary adaption must account for the events of the "ritual ceremony." During this activity the individuals, one by one, take a position facing the others and cackle loudly in turn. Analysis of these sounds has demonstrated characteristic cackling patterns for each individual, the only variation being the addition of a few novel sounds at the end and the omission of a like number at the beginning of each presentation. Also to be explained are the recent experiments which have shown that the prime characteristic of the migrating individuals is their high position in the pecking order of their home flocks. Moreover, their departure signals a marked relaxation of flock activities as well as an exceptional degree of disorganized and chaotic behavior in the remaining members. In certain respects this overall behavior pattern suggests a form of racial suicide consequent upon the recent extremely rapid rise in the population.

In order to discuss these problems, a Congress on the Migratory Habits of the Scientific Goose has been organized and will be held either on the French Riviera or the island of Tahiti in the fall of 1969.