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PROCEEDINGS

OF THE

TWENTIETH MEETING

OF THE

CANADIAN TREE IMPROVEMENT ASSOCIATION

PART 1:

MINUTES AND MEMBERS' REPORTS

HELD IN
QUEBEC CITY, QUEBEC
AUGUST 19-22, 1985

EDITORS:
C.W. YEATMAN & T.J.B. BOYLE

Part 1. Minutes and Members' Reports

Distributed to Association members and to others on request to the Editor, C.T.I.A./A.C.A.A., Chalk River, Ontario. Canada, K0J 1J0

Part 2. New Ways in Forest Genetics

Distributed worldwide to persons and organizations actively engaged or interested in forest genetics and tree improvement.

Additional copies of this publication are available from:

Editor C.T.I.A./A.C.A.A.
Canadian Forestry Service
Petawawa National Forestry Institute
Chalk River, Ontario K0J 1J0

Produced by
Canadian Forestry Service,
for the
Canadian Tree Improvement Association,
Ottawa, 1986

COMPTES RENDUS

DE LA

VINGTIÈME CONFÉRENCE

DE

L'ASSOCIATION CANADIENNE POUR L'AMÉLIORATION DES ARBRES

PARTIE I

PROCÈS-VERBAUX ET RAPPORTS DES MEMBRES

TENUE À
QUÉBEC (QUÉBEC)
DU 19 AU 22 AOÛT 1985

RÉDACTEURS
C.W. YEATMAN & T.J.B. BOYLE

Partie I. Procès-verbaux et rapports des membres

Distribué aux membres de l'association et aux autres sur demande au rédacteur, A.C.A.A./C.T.I.A., Chalk River (Ontario) Canada, K0J 1J0.

Partie II. Voies nouvelles en génétique forestière

Distribué à l'échelle mondiale aux personnes et aux organisations activement engagées ou intéressées à la génétique forestière et à l'amélioration des arbres.

Des exemplaires de cette publication peuvent être obtenus à l'adresse suivante:

Rédacteur A.C.A.A./C.T.I.A.
Service canadien des forêts
Institut forestier national de Petawawa
Chalk River (Ontario) K0J 1J0

Publié par
le Service canadien des forêts
pour
l'Association canadienne pour
l'amélioration des arbres,
Ottawa, 1986

PROCEEDINGS OF THE TWENTIETH MEETING OF THE CANADIAN TREE IMPROVEMENT ASSOCIATION

With the compliments of the Association

Enquiries may be addressed to the authors or to Mr. J.F. Coles, Executive Secretary, C.T.I.A./A.C.A.A., c/o Ontario Tree Improvement Council, Johnston Hall, University of Guelph, Guelph, Ont. N1G 2W1.

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The Twenty-first Meeting of the Association will be held in Truro, Nova Scotia, August 17-21, 1987. Speakers will be invited to address the topic of "Progressing together on Co-operative Tree Improvement Programs in Canada". Canadian and foreign visitors are welcome. Further information will be distributed in the winter 1986 to all members and to others on request. Enquiries concerning the 21st Meeting should be addressed to: Mr. Howard Frame, Tree Breeding Centre, Dept. of Lands and Forests, Debert, N.S. BOM 1GO.

To: *T.J.B. Boyle, Editor, C.T.I.A./A.C.A.A.*
Canadian Forestry Service
Petawawa National Forestry Institute
Chalk River, Ontario K0J 1J0
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Don gracieux de l'association

Les demandes de renseignements peuvent etre adressées aux auteurs ou à J.F. Coles, Secrétaire général, A.C.A.A./C.T.I.A., c/o Ontario Tree Improvement Council, Johnston Hall, University of Guelph, Guelph, Ont. N1G 2W1.

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La vingt et unième conférence de l'association aura lieu à Truro, en Nouvelle-Écosse, du 17 au 21 août 1987. Des orateurs seront invités à adresser le sujet de "Nos efforts vis-à-vis les programmes coopératifs de l'amélioration des arbres au Canada". Les intéressés au Canada et à l'étranger sont les bienvenus. Des renseignements supplémentaires seront distribués au cours de l'hiver de 1986 à tous les membres et à tous ceux qui en feront la demande. Si vous avez des questions à poser concernant la 21e conférence veuillez les adresser à: M. Howard Frame, Tree Breeding Centre, Dept. of Lands and Forests, Debert, N.S. B0M 1G0.

À: *T.J.B. Boyle, rédacteur, A.C.A.A./C.T.I.A.*
Service canadien des forêts
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Chalk River (Ontario) K0J 1J0

LETTRES MOULÉES

Nom: *Dr*
M.
Mme . . . .

Adresse: . . . .
. . . .
. . . . *Code postal* . . . .

s.v.p. cocher une seule case:

Correction

Nouveau destinataire

Rayer le destinataire de la liste d'envoi de l'A.C.A.A.

Signé . . . .

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August 1985

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Hugh George MacGillivray

George MacGillivray died in Fredericton, N.B. on August 31, 1984. George was born in Sydney, Nova Scotia in 1920 where he received his primary and secondary education. He enlisted in the Canadian Armed Forces (Royal Canadian Artillery) in 1939 the day after Germany invaded Poland and eight days before Canada officially entered World War II. He subsequently served with distinction in the West Nova Scotia Regiment. He was seriously wounded in 1944 crossing the Lamone River in Italy.

George entered the University of New Brunswick in 1946 and was awarded a BSc Forestry degree in 1949. He obtained his Masters of Forestry degree from the University of Michigan in 1950. In June 1950 he joined the Canadian Forestry Service, Maritime District, where he was employed until his retirement in December 1976.

Essentially all of George's professional career was devoted to research and development in forest genetics and tree improvement. He pioneered research in this field in the Maritimes where he succeeded in laying the foundation for a valuable research program despite difficult obstacles. George established numerous species and provenance trials throughout the Maritimes Region in close cooperation with Mark Holst at P.N.F.I. and many provincial and industrial representatives in the Region. He planted replicated trials of black, red, white, and Norway spruces, jack and red pines, balsam fir, Douglas fir, Japanese, European and native larches and yellow birch as well as numerous other species. His foresight in establishing these trials and in maintaining detailed records over a period of almost 25 years has left the Maritimes a legacy of valuable materials and information as a basis for current tree improvement activities.

George was an active member of the C.T.I.A. throughout his professional career and upon his retirement was elected as an honorary member. He maintained a strong and continuing interest and served in positions of responsibility in several organizations including the Royal New Brunswick Rifle Association (life member and past president), and the Fredericton Rifle Club (president). Throughout his life he maintained a keen interest in Scottish affairs and at the time of his death he was Honorary President of the Fredericton Society of Saint Andrew.

George will long be remembered by numerous friends and colleagues for his ability to overcome severe physical handicaps and to contribute to his fellow man with his knowledge, skills, generosity and friendship. He is survived by his life companion, friend and wife, Dr. Ellen MacGillivray.

HONORARY MEMBER

MEMBRE HONORAIRE

Dr. W.H. Cram

Dr. W.H. Cram

Dr. W.H. "Bill" Cram was born at Morden, Manitoba in 1913. He completed his highschool education to grade 12 at Morden in 1932 and graduated from the University of Manitoba in 1939 with a B.S.A., majoring in Plant Science and Horticulture. From 1934 to 1938 Bill was employed seasonally by the Experimental Farm at Morden, as a labourer and student assistant in the Pomology Section for propagation and breeding work. From 1939 to 1941, he was employed at the University of Manitoba as a summer supervisor of vegetable trials and also as a lecturer and laboratory instructor for Horticulture. From 1941 to 1942, Bill was employed with the Dominion Forest Nursery Station at Indian Head, Saskatchewan, as a tree planting supervisor. Bill joined the R.C.A.F. in 1942, where he served in Canada and Europe until 1945. Upon his return from war service, Bill returned to Indian Head, where he was employed at the Experimental Farm as a Horticulturist. During this time he also attended the University of Manitoba, from where he graduated in 1948 with his M.Sc. in Plant Breeding and Biometrics. In 1947 Bill again began work at the Forest Nursery Station in Indian Head as a Tree Breeder and conducted related propagation research. During this time, Bill also attended the University of Minnesota, where he obtained his Ph.D. in Plant Breeding and Genetics in 1950.

From 1947 to 1958, Bill was actively involved in a tree improvement program and had many papers published related to his work at the nursery. His extensive work with caragana and his promotion of this species earned him the title of "Caragana Bill".

In 1958 Bill was appointed Superintendent of the Canada Agriculture Nursery Station at Indian Head, and served in this capacity until his retirement in December of 1977. Although his duties as Superintendent reduced the time available for research, he continued to supervise an extensive and diverse program of applied research and equipment development which resulted in the nursery changing from a manual operation to one where herbicides and machines were of considerable importance.

After his retirement in 1977, Bill was rehired by the Prairie Farm Rehabilitation Administration (PFRA) Tree Nursery on a part time basis, to write up research projects which had been done during his tenure at the nursery.

Perhaps Bill's greatest contribution to prairie forestry and horticulture has been his great enthusiasm in promoting tree plantings, as well as his unending desire to improve the plant material available for prairie planting.

BUSINESS MEETING MINUTES

COMPTES RENDUS DE LA RÉUNION D'AFFAIRES

BUSINESS MEETING - MINUTES

Dr. A. Corriveau chaired the 20th Business Meeting of the CTIA/ ACAA held in Pavillon De Koninck, Université Laval, Quebec City, on Tuesday, August 20, 1985.

227. MINUTES OF THE LAST MEETING

Motion: That the minutes of the 19th business meeting be approved as published.

Moved by D.P. Fowler, seconded by B. Cheliak. Carried.

228. CHAIRMAN'S REPORT

Dr. Corriveau commented on the busy term in office. Of particular interest was the Forest Research Advisory Committee of Canada meeting and their request for forest genetics research priorities from the CTIA. Recently the chairman has pursued incorporation of the CTIA and redesigning the letterhead. The CTIA received a Canada At Work grant to employ 3 students for 5 months to organize this meeting.

229. FINANCIAL STATEMENT

The financial statement prepared by Treasurer C.W. Yeatman was tabled for membership information and acceptance (see attachment #1). The statement shows a balance of $9,274.48 in the association's account as of August 16, 1985.

Motion: That the financial statement be accepted as presented.

Moved by G. Vallee, seconded by F. Yeh. Carried.

C.W. Yeatman stated that the CTIA should have their financial statement audited - particularly if the CTIA desires to become incorporated.

Motion: That the CTIA/ACAA have their financial statement audited and the cost be borne by the CTIA.

Moved by C.W. Yeatman, seconded by W. Baker. Carried.

230. EDITOR'S REPORT

C.W. Yeatmen reported that the Proceedings of the 10th meeting were produced and distributed rather tardily due to not receiving camera ready versions of papers.

The CTIA accepted the resignation of C.W. Yeatman as Editor.

Motion: To thank Kit Yeatman for the excellent services provided as Editor of the CTIA during the past several years.

Moved by G. Vallee. Carried.

231. MEMBERSHIP

a) Honorary Member

Dr. William H. Cram was proposed by C.W. Yeatman and seconded by W. Schroeder, A. Gordon and D. Fowler.

Dr. Cram has been a breeder of spruce and Caragand for many years and head of PFRA, Indian Head Nursery, Saskatchewan.

Motion: That Dr. W.H. Cram be elected Honorary Member. Carried.

b) The following were nominated as new active members:

Dr. J.J. Balatinecz	Univ. of Toronto, Faculty of Forestry
Mr. L. Bennett	Ontario Paper Co., Timmins, Ontario
Mr. D. Brophy	Ontario Paper Co., Thorold, Ontario
Mr. J. Dojack	OMNR, N.C.R., Thunder Bay, Ontario
Dr. R. Gambles	Univ. of Toronto, Faculty of Forestry
Mr. R. Greenwood	OMNR, N.R., Timmins, Ontario
Dr. C.T. Keith	Forintek Canada Ltd., Eastern F.P. Lab.
Dr. R.M. Kellogg	Forintek Canada Ltd., Western F.P. Lab.
Mr. W. Moore	Great Lakes For. Prod. Ltd., Thunder Bay, Ontario
Mr. B. Nicks	E.B. Eddy Co., Espanola, Ontario
Dr. J. Poliquin	Université Laval, Faculty of Forestry
Mr. J. Russell	B.C. Ministry Forest, Dept. For. Resources
Dr. R. Savidge	Univ. New Brunswick, Dept. For. Resources
Mr. W. Schroeder	PFRA Tree Nursery, Indian Head, Sask.
Mr. R. Seabrook	Great Lakes For. Prod. Ltd., Thunder Bay, Ontario
Mr. V. Wearn	OMNR, N.R., Timmins, Ontario
Mr. P. Wearmouth	Proctor & Gamble Ltd., Grande Prairie, Alberta
Dr. D. Webb	Queens Univ., Biology Dept., Kingston, Ontario
Dr. A. Yanchuk	Alberta Forest Service, Edmonton

Motion: That the nominated new active members be duly elected.

Moved by J. Klein, seconded by D. Winston. Carried.

C.W. Yeatman stated that 33 new corresponding members were added to the list along with 12 Institutions. There were 11 deletions and 60 address changes.

232. BUSINESS ARISING FROM PREVIOUS MEETINGS

a) Education Committee (E.C.)

J. Begin stated that five of the six universities sent students to this meeting in response to offer of travel expenses by CTIA.

Since the last meeting, the E.C. had pursued scholarship funds from industry and received pledges for about $3000. Some concern was voiced that this had been done without the authority of the membership.

Motion: That the approximately $3000 received from industry for graduate student scholarship be invested immediately with a view to beginning a scholarship as soon as funds permit and that further solicitations to industry take place after this meeting and subsequent incorporation of the CTIA/ACAA.

Moved by J. Begin, seconded by F. Yeh. Carried.

Some discussion ensued on the difficulties involved in administering such a scholarship.

b) Forest Gene Resources

C.W. Yeatman attended a Plant Gene Resources meeting and presented a paper. Forest genetic resources are retained more readily than is the case with domesticated agricultural crop species. Gene resources will be maintained by the new planted forests and in wild stands designated and regenerated as genetic resource areas.

c) Forest Tree Seed Act

D. Pollard stated that with the CFS move from Environment Canada to Agriculture Canada there is no need to revise Canada Tree Seed Act to accommodate forestry concerns. Completion of the Forest T.S. Act has been delayed by the necessity to having the act in 2 languages and the constant legal review this requires. Once completed, approval will come by Order-In-Council. Pollard reported that no reports from the CTIA committee have been received and that the CTIA must take an active role in drafting the appendices to the Act.

The CFS has inspected and certified 3 orchards in B.C.

G. Vallee raised concerns about Plant Breeders Rights. Pollard suggested that because of extreme controversy and resistance the Plant Breeders Rights Act may not be passed.

d) Tree Seed Working Group

B. Wang reported that during the business portion of yesterday's meeting the Tree Seed W.G. had elected Y. Lamontange as chairman and H. Schooley as editor of newsletter.