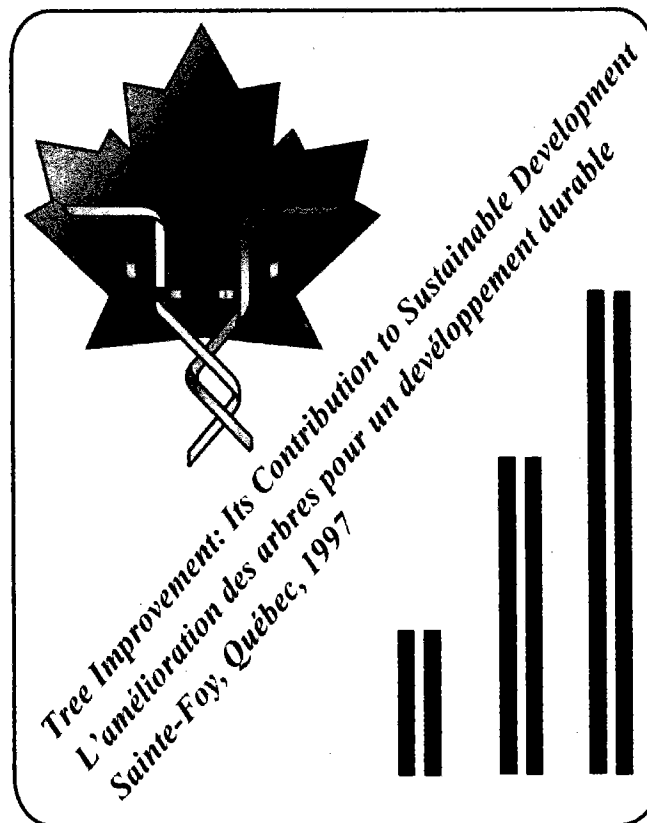


**PROCEEDINGS OF THE TWENTY-SIXTH MEETING  
OF THE  
CANADIAN TREE IMPROVEMENT ASSOCIATION**

PART 1 Minutes and Members' Reports  
PART 2 Symposium



**COMPTES RENDUS DU VINGT-SIXIÈME CONGRÈS  
DE  
L'ASSOCIATION CANADIENNE POUR  
L'AMÉLIORATION DES ARBRES**

1<sup>ère</sup> PARTIE Procès-verbaux et rapports des membres  
2<sup>e</sup> PARTIE Colloque

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PROCEEDINGS  
OF THE  
TWENTY-SIXTH MEETING  
OF THE  
**CANADIAN TREE IMPROVEMENT  
ASSOCIATION**

**PART 1**

**Minutes and Members' Reports**

TREE IMPROVEMENT:  
ITS CONTRIBUTION TO  
SUSTAINABLE DEVELOPMENT

Sainte-Foy, Québec  
August 18-21, 1997

Editor  
J.D. Simpson

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Dale Simpson  
Editor, CTIA/ACAA  
Natural Resources Canada  
Canadian Forest Service - Atlantic Forestry Centre  
P.O. Box 4000  
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DU  
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DE  
**L' ASSOCIATION CANADIENNE POUR  
L' AMÉLIORATION DES ARBRES**

**1<sup>re</sup> PARTIE**

**Procès-verbaux et rapports des membres**

L' AMÉLIORATION DES ARBRES  
POUR UN DÉVELOPPEMENT  
DURABLE

Sainte-Foy, Québec  
18-21 août 1997

Rédacteur  
J.D. Simpson

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Fredericton, Nouveau-Brunswick, Canada  
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**PROCEEDINGS OF THE TWENTY-SIXTH MEETING OF THE CANADIAN TREE  
IMPROVEMENT ASSOCIATION**

Enquiries may be addressed to the authors or to Mr. Dale Simpson, Editor CTIA, Natural Resources Canada, Canadian Forest Service - Atlantic, P.O. Box 4000, Fredericton, New Brunswick, Canada, E3B 5P7.

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Natural Resources Canada  
Canadian Forest Service - Atlantic  
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Les demandes de renseignements peuvent être adressées aux auteurs ou à Dale Simpson, Rédacteur, ACAA, Ressources naturelles Canada, Service canadien des forêts - de l'Atlantique, C.P. 4000, Fredericton, Nouveau-Brunswick, Canada, E3B 5P7.

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À : Dale Simpson  
Rédacteur, ACAA/CTIA  
Ressources naturelles Canada  
Service canadien des forêts - de l'Atlantique  
C.P. 4000  
Fredericton, Nouveau Brunswick, Canada  
E3B 5P7

**LETTRES MOULÉES S.V.P.**

**Nom :** Prof. Mme  
D<sup>r</sup> M \_\_\_\_\_

**Adresse :** \_\_\_\_\_  
\_\_\_\_\_  
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|              |                |                                 |    |
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CTIA/ACAA ACTIVE MEMBERS

---

---

Greg Adams  
 JD Irving, Limited  
 Sussex Tree Nursery  
 R.R. # 4  
 Sussex, New Brunswick E0E 1P0

Chris Atack  
 Fibre Max Forestry  
 111 Greeningdon Dr.  
 Timmins, Ontario P4R 1G3

Brian Barber  
 B. C. Ministry of Forests  
 Research Branch  
 31 Bastion Square  
 Victoria, British Columbia V8W 3E7

Leonard K. Barnhardt  
 Alberta Forest Service  
 Reforestation & Reclamation Branch  
 Pine Ridge Nursery Box 750  
 Smoky Lake, Alberta T0A 3C0

Dr. Tannis Beardmore  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P.O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

R. Beaudoin  
 Min. des Ressources naturelle  
 Service de l'amélioration des arbres  
 2700 rue Einstein  
 Ste. Foy, Québec G1P 3W8

Jean Beaulieu  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du PEPS C.P. 3800  
 Ste. Foy, Québec G1V 4C7

Francine Bigras  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du PEPS C.P. 3800  
 Ste. Foy, Québec G1V 4C7

Dr. Anne-Christine Bonfils  
 Natural Resources Canada  
 Canadian Forest Service  
 580 Booth St., 7th floor  
 Ottawa, Ontario K1A 0E4

J. M. Bonga  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3P 5P7

Dr. Jean Bousquet  
 C. R. B. F.  
 Fac. de foresterie et de géomatique  
 Université Laval  
 Ste. Foy, Québec G1K 7P4

Dr. Robin Browne  
 Nova Scotia Research Foundation  
 101 Research Dr. Box 790  
 Dartmouth, NS B2Y 3Z7

Stewart E. Cameron  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Dr. M. Carlson  
 B. C. Ministry of Forests  
 Kalamalka Res. Stn. & Seed Orchard  
 3401 Reservoir Road  
 Vernon, British Columbia V1B 2C7

John Carlson  
 University of British Columbia  
 Biotechnology Laboratory  
 237-6174 University Blvd.  
 Vancouver, British Columbia V6T 1Z3

Dr. Bruce Dancik  
 University of Alberta  
 Dept. of Renewable Resources  
 855 General Services Bldg.  
 Edmonton, Alberta T6G 2H1

Dr. Campbell G. Davidson  
 AAFC - Morden Research Centre  
 Unit 100-101-Route 100  
 Morden  
 Manitoba R6M 1Y5

Marie Deslauriers  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du PEPS C.P. 3800  
 Ste. Foy, Québec G1V 4C7

Dr. K. Narinder Dhir  
 Alberta Forest Service  
 9920-108 Street  
 Edmonton  
 Alberta T5K 2M4

John Dojack  
 Manitoba Forestry Branch  
 Box 70, 200 Saulteaux Cres.  
 Winnipeg  
 Manitoba R3J 3W3

Dr. Yousry A. El-Kassaby  
 Pacific Forest Products Ltd.  
 Saanich Forestry Centre  
 8067 East Saanich Road  
 Saanichton, British Columbia V8M 1K1

Peter Copis  
 Natural Resources Canada  
 Petawawa Research Forest  
 P.O. Box 2000  
 Chalk River, Ontario K0J 1J0

Gaétan Daoust  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du PEPS C.P. 3800  
 Ste. Foy, Québec G1V 4C7

Peter de Groot  
 Natural Resources Canada  
 Forest Pest Management Institute  
 P. O. Box 490  
 Sault Ste. Marie, Ontario P6A 5M7

Linda DeVerno  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Franco Di-Giovanni  
 76 Ptarmigan Drive  
 Guelph  
 Ontario N1C 1B6

Dr. D. G. Edwards  
 Natural Resources Canada  
 Pacific Forestry Centre  
 506 West Burnside Road  
 Victoria, British Columbia V8Z 1M5

Gordon Falk  
 Dept. of Natural Resources  
 Box 70, 200 Saulteaux Cres.  
 Winnipeg  
 Manitoba R3J 3W3

Dr. R. E. Farmer  
 Lakehead University  
 School of Forestry  
 Thunder Bay  
 Ontario P7B 5E1

Randy D. Ford  
 Ontario Ministry of Natural Res.  
 Swastika Tree Nursery  
 P. O. Box 329  
 Swastika, Ontario P0K 1T0

Michele Fullarton  
 N. B. Dept. of Natural Resources  
 Tree Improvement Centre  
 Kingsclear Tree Nursery, 3732 Rte. 2 Hwy.  
 Island View, New Brunswick E3E 1G3

William M. Glen  
 Dept. of Agric. & Forestry  
 Dept. Agriculture and Forestry  
 P.O. Box 2000  
 Charlottetown, PEI C1A 7N8

Ronald D. Hallett  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Dr. Rong H. Ho  
 Ontario Ministry of Natural Res.  
 Ontario Forest Research Institute  
 1235 Queen Street E.  
 Sault Ste. Marie, Ontario P6A 5N5

Dr. Nathalie Isabel  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du PEPS C.P. 3800  
 Ste. Foy, Québec G1V 4C7

W. H. Fogal  
 Ecology Products and Service  
 P.O. Box 293  
 Chalk River, Ontario K0J 1J0

Howard M. Frame  
 Dept. of Natural Resources  
 Tree Breeding Centre  
 P. O. Box 190  
 Debert, Nova Scotia B0M 1G0

Dr. Robert Gambles  
 University of Toronto  
 Faculty of Forestry  
 33 Willcocks Street  
 Toronto, Ontario M5S 3B3

Josefina S. Gonzalez  
 Forintek Canada Corporation  
 2665 East Mall  
 University of British Columbia  
 Vancouver, British Columbia V6T 1W5

Dr. Richard Hamelin  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du P.E.P.S. C.P. 3800  
 Ste. Foy, Québec G1V 4C7

Richard S. Hunt  
 Natural Resources Canada  
 Pacific Forestry Centre  
 506 West Burnside Road  
 Victoria, British Columbia V8Z 1M5

B. Jaquish  
 B. C. Ministry of Forests  
 Kalamalka Research Station  
 3401 Reservoir Road  
 Vernon, British Columbia V1B 2C7



Dennis Joyce  
 Ontario Ministry of Natural Res.  
 O.F.R.I.  
 1235 Queen Street East  
 Sault Ste. Marie, Ontario P6A 5N5

Dr. John King  
 B. C. Ministry of Forests  
 Research Branch  
 31 Bastion Square  
 Victoria, British Columbia V8W 3E7

J. Konishi  
 B. C. Ministry of Forests  
 Silviculture Branch  
 1450 Government Street  
 Victoria, British Columbia V8W 3E7

Vlad J. Korelus  
 Can. Pacific Forest Products Ltd.  
 Tahsis Pacific Region  
 8067 East Saanich Road  
 Saanichton, British Columbia V0S 1M0

Mathew Koshy  
 University of British Columbia  
 Faculty of Forestry  
 193 - 2357 Main Mall  
 Vancouver, British Columbia V6T 1W5

Dr. Sylvie Laliberte  
 Universite du Québec à Montréal  
 Departement des sciences biologiques  
 C.P. 8888, Succ. Centre-Ville  
 Montréal, Québec H3C 3P8

Peng Li  
 Forest Biotechnology Centre  
 B. C. Research Inc.  
 3650 Wesbrooke Mall  
 Vancouver, British Columbia V6S 2L2

Dr. C. H. A. Little  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Dr. Judy Loo  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Bryce MacInnis  
 N.B. Tree Improvement Council  
 Tree Improvement Unit  
 Kingsclear Forest Nursery, 3732 Rte. 2 Hwy.  
 Island View, New Brunswick E3B 4X7

Wade MacKinnon  
 Tree Improvement  
 Dept. of Agriculture and Forestry  
 P. O. Box 2000  
 Charlottetown, PEI C1A 7N8

John Major  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Spencer McDougald  
 Weyerhaeuser Canada  
 Sask. Timberlands  
 Box 1720  
 Prince Albert, Saskatchewan S6V 5T3

Dr. M. D. Meagher  
 Natural Resources Canada  
 Pacific Forestry Centre  
 506 West Burnside Road  
 Victoria, British Columbia V8Z 1M5

Stephan Mercier  
 Min. des Ressources naturelles  
 Service de l'amélioration des arbres  
 2700 rue Einstein  
 Ste. Foy, Québec G1P 3W8

Marie-Josée Mottet  
 Min. des Ressources naturelles  
 Service de l'amélioration des arbres  
 2700 rue Einstein  
 Ste. Foy, Québec G1P 3W8

Mary Myers  
 Dept. of Agric. & Forestry  
 Dept. of Agriculture and Forestry  
 P.O. Box 2000  
 Charlottetown, PEI C1A 7N8

Cathy Nielsen  
 Ontario Ministry of Natural Res.  
 Brockville District  
 P. O. Box 605 Oxford Ave.  
 Brockville, Ontario K6A 5Y8

Dr. Yill Sung Park  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Dr. Ariane Plourde  
 Ressources naturelles Canada  
 Service canadien des forêts-Québec  
 1055 rue du P.E.P.S. C.P. 3800  
 Ste. Foy, Québec G1V 4C7

A. Rainville  
 Min. des Ressources naturelles  
 Service de l'amélioration des arbres  
 2700 rue Einstein  
 Ste. Foy, Québec G1P 3W8

Dr. Alexander Mosseler  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, Fredericton E3B 5P7

Dr. Tim J. Mullin  
 Genesis Forest Science Canada Inc.  
 203-115, Cote de la Montagne  
 CP 64 Succursale  
 Haute-Ville, Quebec G1R 4M8

Dr. Gene Namkoong  
 Univ. of B. C. Dept. of Forest Scie  
 MacMillan Building  
 189-2367 Main Mall  
 Vancouver, British Columbia V6T 1Z4

Peter Nitschke  
 197 Panoramic Drive  
 Sault Ste. Marie, Ontario P6B 6E3

Dr. William Parker  
 School of Forestry  
 Lakehead University  
 Thunder Bay, Ontario P7B 5E1

John Quinn  
 Alberta Forest Service  
 Forestry, Lands and Wildlife  
 P. O. Box 750  
 Smoky Lake, Alberta T0A 3C0

Dr. Om P. Rajora  
 University of Alberta  
 Dept. of Renewable Resources  
 751 General Services Bldg.  
 Edmonton, Alberta T6G 2H1

Diane M. Roddy  
 Weyerhaeuser Canada Ltd.  
 P. O. Box 1720  
 Prince Albert  
 Saskatchewan S6V 5T3

Paul Roussel  
 Fraser Papers Inc.  
 27 Rice Street  
 Edmundston  
 New Brunswick E3V 1S9

Dr. John Russell  
 B. C. Ministry of Forests  
 Cowichan Lake Research Station  
 P. O. Box 335  
 Mesachie Lake, British Columbia V0R 2N0

Dr. R. Savidge  
 University of New Brunswick  
 Fac. of Forestry & Environ. Mgmt.  
 Bag Service No. 44555  
 Fredericton, New Brunswick E3B 6C2

Janet M. Schilf  
 Alberta Forest Service  
 Forestry, Lands and Wildlife  
 P. O. Box 750  
 Smoky Lake, Alberta T0A 3C0

William Schroeder  
 Shelterbelt Centre, P.F.R.A.  
 Agriculture & Agri-Food Canada  
 Indian Head  
 Saskatchewan S0G 2K0

Dale Simpson  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3E 5P7

Dr. Ron F. Smith  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

David G. Steeves  
 Dept. of Natural Resources  
 P. O. Box 190  
 Debert  
 Nova Scotia B0M 1G0

A. Stipanovic  
 Min. des Ressources naturelles  
 Service de l'amélioration des arbres  
 2700 rue Einstein  
 Ste. Foy, Québec G1P 3W8

Dr. Michael Stoehr  
 B. C. Ministry of Forests  
 Glyn Road Research Station  
 1320 Glyn Road  
 Victoria, British Columbia V8W 3E7

Dr. Ben Sutton  
 Forest Biotechnology Centre  
 B. C. Research Inc.  
 3650 Wesbrooke Mall  
 Vancouver, British Columbia V6S 2L2

Dr. Jon Sweeney  
 Natural Resources Canada  
 Canadian Forest Service-Atlantic  
 P. O. Box 4000  
 Fredericton, New Brunswick E3B 5P7

Kathleen Tosh  
 N.B. Dept. of Nat. Res. & Energy  
 Tree Improvement Unit  
 Kingsclear Forest Nursery, 3732 Rte. 2 Hwy.  
 Island View, New Brunswick E3B 4X7

Dr. P.H. Tripp-Knowles  
School of Forestry  
Lakehead University  
Thunder Bay, Ontario P7B 5E1

Brenda J. Vanstone  
University of Toronto  
Faculty of Forestry  
33 Willcocks Street  
Toronto, Ontario M5S 3B3

M. Villeneuve  
Min. des Ressources naturelles  
Service de l'amélioration des arbres  
2700 rue Einstein  
Ste. Foy, Québec G1P 3W8

Dr. J. F. Webber  
B. C. Ministry of Forests  
Glyn Road Research Station  
1320 Glyn Road  
Victoria, British Columbia V8W 3E7

Dr. E. White  
Natural Resources Canada  
Pacific Forestry Centre  
506 West Burnside Road  
Victoria, British Columbia V8Z 1M5

Dr. J. H. Woods  
B. C. Ministry of Forests  
Cowichan Lake Research Station  
P. O. Box 335  
Mesachie Lake, British Columbia V0R 2N0

Katherine Yakimchuk  
Pine Ridge Forest Nursery  
Genetics & Tree Improvement  
P. O. Box 750  
Smoky Lake, Alberta T0A 3C0

Dr. Alvin Yanchuk  
B. C. Ministry of Forests  
Research Branch  
P.O. Box 9519 Stn. Prov. Govt.  
Victoria, British Columbia V8W 9C2

Dr. Rong-cai Yang  
University of Alberta  
Dept. of Renewable Resources  
751 General Services Bldg.  
Edmonton, Alberta T6G 2H1

Dr. Francis Yeh  
University of Alberta  
Dept. of Renewable Resources  
855 General Service Bldg.  
Edmonton, Alberta T6G 2H1

Dr. Cheng Ying  
B. C. Ministry of Forests  
Research Branch  
31 Bastion Square  
Victoria, British Columbia V8W 3E7

Dr. S. Y. Zhang  
Forintek Canada Ltd.  
319 rue Franquet  
Ste. Foy  
Quebec G1P 4R4

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CTIA/ACAA 26<sup>th</sup> BUSINESS  
MEETING MINUTES

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**C.T.I.A./A.C.A.A**  
**26th Business Meeting**  
**Minutes**

Michel Villeneuve chaired the 26th Business Meeting of the CTIA/ACAA held in the Multimedia Room, Pavillon Desjardin, Québec City, Québec on Wednesday August 20, 1997. Twenty-two members were present.

**296 Minutes of the 25th Meeting**

(as printed in the proceedings from the 25th meeting, Part I)

Motion: The minutes of the 25th Business Meeting be approved as published.

Moved by: Kathy Tosh

Seconded by: Jerry Klein

Carried.

**297 Membership**

**297.1 Honourary Membership**

Motion: That the following members of the CTIA/ACAA be nominated for "honourary" membership for the outstanding contributions to the field of genetics and tree improvement in Canada during their career.

|                 |  |
|-----------------|--|
| Jim Coles       | Consultant                                   |
| Alan Gordon     | Ontario Ministry of Natural Resources        |
| Gyula Kiss      | BC Ministry of Forests                       |
| Jerry Klein     | Consultant                                   |
| Yves Lamontagne | Ministère des Ressources naturelle du Québec |
| Gordon Murray   | Natural Resources Canada-Petawawa            |
| Louis Parrot    | Université Laval                             |
| Hugh Schooley   | Natural Resources Canada-Petawawa            |
| Gilles Vallée   | Ministère des Ressources naturelle du Québec |

Moved by: Jean Beaulieu

Seconded by: Gaétan Daoust

Carried.

**297.2 Active Membership**

The names of nominated active members were presented as follows:

|                  |   |
|------------------|---|
| Tannis Beardmore | Canadian Forest Service<br>Fredericton, NB    |
| Francine Bigras  | Service canadien des forêts<br>Sainte-Foy, Qc |

|                        |   |
|------------------------|---|
| Anne-Christine Bonfils | Canadian Forest Service<br>Ottawa, ON                     |
| Peter Copis            | Canadian Forest Service<br>Chalk River, ON                |
| Nathalie Isabel        | Service canadien des forêts<br>Sainte-Foy, Qc             |
| Sylvie Laliberté       | Université du Québec à Montréal<br>Montréal, Qc           |
| Wade MacKinnon         | Dept. Agriculture and Forestry<br>Charlottetown, PEI      |
| Bryce MacInnis         | New Brunswick Tree Improvement Council<br>Fredericton, NB |
| Jon Sweeney            | Canadian Forest Service<br>Fredericton, NB                |
| Rong-cai Yang          | University of Alberta<br>Edmonton, AB                     |
| John Quinn             | Alberta Land and Forest Service<br>Smoky Lake, AB         |

Motion: That the nominated active members be duly elected.

Moved by: Jean Beaulieu

Seconded by: John Dojack

Carried.

## **298 Chair's Report**

Organizing the 26<sup>th</sup> meeting of the association was a challenge that could not be met without the support of numerous people from the Ministère des Ressources naturelles, Ressources naturelles Canada, Université Laval, Forintek Canada Corporation, and I.U.F.R.O.-S5.01(wood quality). The 1995/1997 executive committee (Jean Beaulieu, Jean Bousquet, André Rainville and myself) particularly appreciated the efforts of Pierre Bélanger (logistics coordinator) and François Larochelle (on-site arrangements).

Two excellent workshops were presented by the Tree Seed Working Group (chaired by Stéphan Mercier) and the Wood Quality Working Group (chaired by Tony Zhang, with the contribution of IUFRO-S5.01). Proceedings of the first will be published in the Forestry Chronicle; for the latter, they were included in the registration package (copies may be obtained by contacting Forintek Canada Corp.).

Thanks to the voluntary contribution of Jean Ménétrier, the logo of the CTIA/ACAA is now available in digitized formats for use on letterheads and other official documents. Designer of the cover page

on the program and the proceedings, Jean is a biologist, tree lover and artist who works as a researcher for the Ministère des Ressources naturelles du Québec.

### **299 Treasurer's Report**

The financial statement for the period of July 30, 1995 to July 30, 1997 was prepared by Treasurer Linda DeVerno and tabled for information and acceptance by the membership (see Attachment #1). The statement shows a balance of \$4,539.99 in the Association's account and GIC's totalling \$23,000.00.

Motion: That the financial statement be accepted as presented.

Moved by: Jean Bousquet

Seconded by: Alvin Yanchuk

Carried.

### **300 Financial Contributions**

Avenor Inc.

Campbell Scientific (Canada) Corp.

Harnois Inc.

Industries James Maclaren Ltée

IPL Inc.

Kruger Inc.

Quebec Balsam Export Inc.

an anonymous contributor

Motion: That the CTIA/ACAA executive of the 26th meeting express our sincere appreciation to these contributors.

Moved by: Om Rajora

Seconded by: Gilles Vallée

Carried.

### **301 Editor's Report**

The proceedings were printed and distributed during April 1996 to all active members, honorary members, Canadian universities and libraries, and all participants of the 25th meeting. Three hundred and forty-six proceedings were mailed.

A form letter advising the theme of the 25th biennial meeting, the proceeding context, and a request for a twenty dollar donation to obtain a copy was sent to all corresponding members, USA addresses and international addresses. There were 11 donations from Canadian addresses, 13 from USA and 19 international.

### **302 Education Committee**

To promote students' knowledge and understanding in tree improvement activities and forest genetics research, the forestry faculties of Canadian universities were encouraged to nominate a student to attend the 26th CTIA/ACAA meeting. Sponsorship of these students is paid by the executive committee of each biennial meeting through registration fees. Students received an autographed copy



of Kris Morgenstern's book "Geographic Variation in Forest Trees." Jean Beaulieu reported that the following students received the award which provided all meeting costs including registration, accommodation, tours, and travel:

|                    |                                |
|--------------------|--------------------------------|
| Andy Benowicz      | University of British Columbia |
| Changxi Li         | University of Alberta          |
| Daniel Rouillard   | Lakehead University            |
| Christina Idziak   | University of Toronto          |
| Sauphie Senneville | Université Laval               |
| Frédéric Poirier   | Université de Moncton          |
| Yijun Xu           | University of New Brunswick    |

### **303 Working Group Reports**

#### **303.1 Tree Seed Working Group**

André Rainville moderated the Tree Seed Working Group's (TSWG) morning workshop "Artificial Pollination in Seed Orchards" on August 18, 1997. The workshop was dedicated to Dr. Guy-Etienne Caron, chairperson of the TSWG (1991-1997).

Immediately following the workshop, the Tree Seed Working Group held its regular Biennial Business Meeting. Three issues of the TSWG News Bulletin (Nos. 24-26) were produced since our last meeting on August 28, 1995 in Victoria. Editor Ron Smith (CFS - Atlantic) reiterated that he intends to maintain the traditional two issues per year, but due to 'technical difficulties' there was one fewer issue printed over the last two-year period. A suggestion was forthcoming that due to more and more people now able to use electronic mail that this avenue should be explored. Ron is in the process of updating addresses and is also expecting to have a web site for the TSWG at CFS - Atlantic in the near future. So, the News Bulletin will be available to the Discussion Group on the Internet soon.

Thanks go to Ron for editing, printing, and mailing of our News Bulletin. There were no further changes noted with respect to working parties; Dave Kolotelo remains as Coordinator of the Tree Seed Processing and Testing Working Party and Peter de Groot stays on as Coordinator of the Cone and Seed Insects Working Party. Howard Frame agreed to take on the role of Chairperson for the TSWG.

The question of when and where our next meeting will be, was left unanswered. The CTIA business meeting on Wednesday may shed some light on this topic, but the News Bulletin will keep everyone apprised on this subject.

Howard M. Frame  
NS Dept. Natural Resources  
Chair, CTIA Tree Seed Working Group

#### **303.2 Wood Quality Working Group**

No formal workshop was specifically organized for the 1997 CTIA Wood Quality Working Group (WQWG) due to an excellent wood quality meeting organized by Forintek Canada Corporation and sponsored by the IUFRO and CTIA. Tony Zhang and I discussed several approaches and it was decided that the wood quality papers related to tree improvement could be incorporated into one session and that would represent the objectives of the WQWG more than adequately. On behalf of

CTIA members who are involved in wood quality research, I'd like to thank IUFRO and Forintek for an excellent meeting and the 14 papers published in Chapter IV of the proceedings "Timber Management Toward Wood Quality and End-Product Value" are an excellent contribution to the literature on this topic. The effort far exceeded that which could have been organized by the WQWG alone, and much of this credit goes to Tony. The excellent international participation and the papers by Drs. Zobel and van Buijtenen provided for a truly world class meeting.

No business meeting was held. It would be appropriate, considering the renewed interest in wood properties breeding in many programs across Canada, to review and update the objectives and mandate of the WQWG at the next CTIA meeting. Renewing our interest in the newsletter would also be important. I will coordinate this matter with the executive of the CTIA for the next meeting.

Alvin Yanchuk  
BC Forest Service, Victoria  
Chair, CTIA Wood Quality Working Group

### **304 Business Arising from Previous Meetings**

#### **304.1 Funding for History of Forest Genetics in North America**

Motion 292.4: That the CTIA/ACAA support Lauren Fins with two thousand Canadian dollars, for the proposed manuscript "A History of Forest Genetics and Tree Improvement in North America" on the condition, that L. Fins receive five supporting offers from other sectors.

In a letter dated March 29, 1996 Lauren Fins confirmed she was able to secure funding from two other sources. However, she stated she intended to continue her efforts to raise the additional funds. As such, until she receives five supporting offers the CTIA/ACAA will not advance any funds.

### **305 New Business**

#### **305.1 University of Northern British Columbia**

Chairman Michel apologized that the university had not been contacted to send a student to the CTIA/ACAA meeting. It was realized too late that it might have been appropriate. He asked why there was no student from this university at the Victoria meeting. Alvin Yanchuk stated that the forestry program is new and it was an oversight in not inviting them to send a student to the last meeting. Concern was raised that with more universities offering forestry/environmental courses it may be difficult to draw the line on which ones to invite to send students. Kathy Tosh suggested that only universities offering an accredited forestry degree program should be contacted.

#### **305.2 Constitution and Bylaws**

Last summer, Narinder Dhir brought to the attention of Chairman Michel that several amendments have been made to the Constitution and Bylaws since they were last published. Dale agreed to re-publish them and distribute them to Active members with the copy of the Proceedings from this meeting.

#### **305.3 Registration of CTIA/ACAA**

The CTIA/ACAA is currently registered in Ontario as a society. Since the business affairs have been transferred to New Brunswick it is logical to become registered there. Jim Richardson pointed out that

the Poplar Council of Canada is registered nationally and such a registration status may also be appropriate for CTIA/ACAA. The Executive Secretary will examine the situation and register the organization where most appropriate.

#### **305.4 Bursary**

Chairman Michel suggested the Association should consider a recognition award to students who write a paper or essay on their research results or any tree improvement/genetics topic. Honorary members could be selected to review the papers and recommend up to three names for awards. The awards would be presented at the CTIA/ACAA meeting. Michel agreed to form a small committee to develop a terms of reference for this award program.

#### **306 Future Meetings**

##### **306.1 Location of 1999 Meeting**

Weyerhaeuser Canada of Saskatchewan is unable to host the 1999 CTIA/ACAA meeting. Ontario Ministry of Natural Resources suggested they were willing to host the next meeting in Sault Ste. Marie. Dennis Joyce pointed out this is a good location because of its close proximity to the USA allowing the option for Americans to obtain accommodation in Sault Ste. Marie, Michigan and travel to Canada daily to attend the meeting. He further suggested teaming up with the Southern Forest Tree Improvement Conference (SFTIC) and Western Forest Genetics Association (WFGA) in order to have a larger, more dynamic meeting. It was pointed out that SFTIC and WFGA have already determined where they will meet in 1999. Dennis suggested to delay a year and have it in 2000. It was pointed out that the Constitution and Bylaws state the CTIA/ACAA must meet every two years. After considerable discussion the following motion to **amend** "Article VI, Section a" of the Constitution was tabled.

Motion: Meetings of the Association shall be held at least once every third year.

Moved by: Jerry Klein

Seconded by: Jean Beaulieu

Carried

This allowed a motion on when the next meeting should be held.

Motion: CTIA/ACAA hold its next meeting in Sault Ste. Marie, Ontario in the year 2000.

Moved by: Jerry Klein

Seconded by: Kathy Tosh

Carried.

##### **306.2 Location of the Next Meeting**

Motion: Alberta will explore the feasibility of hosting a meeting in 2002 or 2003.

Moved by: Om Rajora

Seconded by: Jean Beaulieu

Carried.

##### **306.3 Location of Subsequent Meeting**

No suggestions were forth coming.

**307 Election of New Executive**

The following slate of officers will serve as the executive for the next CTIA/ACAA meeting:

Chairperson: Dennis Joyce  
Ministry of Natural Resources

Vice-Chairperson: to be confirmed  
Symposium

Vice-Chairperson: to be confirmed  
Local arrangements

Treasurer: Linda DeVerno  
Canadian Forest Service

Editor: Dale Simpson  
Canadian Forest Service

Executive Secretary: Dale Simpson  
Canadian Forest Service

**308 Adjournment**

Motion: That the members of the CTIA/ACAA thank the executive for their efforts over the past two years for an exciting and successful meeting.

Motion: That the 26th business meeting of the CTIA/ACAA be adjourned  
Moved by: Om Rajora

**Attachment # 1**

CTIA/ACAA  
Financial Statement  
July 30, 1995 to July 30, 1997

**Cash Balance July 30, 1995** **\$7 175.53**

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**Credit:**

|   |          |
|---|----------|
| Interest earnings (GIC, Account)                                | 3 058.34 |
| Purchase of 25th Meeting Proceedings                            | 940.85   |
| Donation for the 26th Meeting Proceedings from CFS Headquarters | 4 817.84 |

**Total Credit:** **\$8 817.03**

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**Guaranteed Investment Certificates: (as of July 30, 1995)**

|               |           |
|---------------|-----------|
| GIC Principal | 10 000.00 |
| GIC Principal | 7 000.00  |
| GIC Principal | 6 000.00  |

**Total GICs** **\$23 000.00**

**Guaranteed Investment Certificates: (as of July 30, 1997)**

|               |           |
|---------------|-----------|
| GIC Principal | 10 000.00 |
| GIC Principal | 8 000.00  |
| GIC Principal | 5 000.00  |

**Total GICs** **\$23 000.00**

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**Debit:**

|                                       |          |
|---------------------------------------|----------|
| Labels                                | 36.74    |
| Bank Service Charge                   | 20.00    |
| 26th CTIA Meeting advance             | 5 000.00 |
| Film Processing                       | 17.46    |
| Envelopes & Letterhead                | 495.83   |
| Envelopes                             | 58.20    |
| Student Recognition Awards            | 1 000.00 |
| Money Order Fees                      | 6.50     |
| 26th CTIA Meeting Proceedings Advance | 4 817.84 |

**Total Debit:** **\$11 452.57**

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**Cash Balance July 30, 1997** **\$4 539.99**

**Invested GIC Balance** **\$23 000.00**

**Total Holdings** **\$27 539.99**

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ACTIVITY REPORTS  
FROM ACTIVE CTIA/ACAA  
MEMBERS

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**THE NEWFOUNDLAND AND LABRADOR  
TREE IMPROVEMENT PROGRAM:  
AN UPDATE**

**B. J. English**

**Dept. of Forest Resources & Agrifoods  
P. O. Box 2006, Fortis Building  
Corner Brook, NF  
A2H 6J8**

The Newfoundland Forest Service has in place tree improvement programs for three native conifers: black spruce, white spruce, and eastern larch. Six first generation seed orchards have been established, two per species. One orchard per species will serve the reforestation needs of the Northern Peninsula/Labrador breeding zone. The second orchard will produce seed for the southern part of insular Newfoundland (i.e., the Main Island breeding zone).

In 1997, emphasis shifted from plus tree selection/first generation establishment to preparations for first generation roguing and second generation plus tree selection. In the case of black spruce, family tests have been in place since 1993. Remeasurement of these at ages 10 and 15 will serve as a basis for roguing the existing black spruce orchards and making selections for the second generation orchards and breeding program. To augment the limited number of trees in the current program, in 1997 we made an additional 40 selections (20 per breeding zone) from several 1970's era Canadian Forest Service all-range black spruce provenance trials. These 40 new selections will advance into the second generation program. In preparation for the breeding work/progeny testing required in the second generation program, black spruce polycross sources were also identified. These also came from the all-range provenance trials mentioned above. Scion collection and grafting will be carried out during the winter of 1998 to establish these polycross pollen donors and additional plus trees in our clone banks.

In 1998, we will also be selecting polycross pollen donors in our white spruce program. Although we will probably have to collect pollen directly from these selections for several years to come, we also intend to establish a polycross clone bank at our main tree improvement facility, Wooddale Provincial Tree Nursery. Scion collection and grafting will commence the winter of 1998. It is our expectation that many of the clones in the first generation white spruce orchards will begin to bear substantial numbers of female flowers over the next several years. We hope to begin specific crossing and polycrossing as soon as possible. In preparation for this, several staff involved with the Tree Improvement Program toured Provincial tree improvement facilities in the Maritimes earlier this year. The focus of the tour was pollen monitoring, collection, handling, storage, testing, and application (i.e., controlled crossing).

Due to a limited demand for eastern larch planting stock and a need to focus our limited tree improvement resources on the more economically important spruces, we have made a decision this year to put our eastern larch tree improvement program on hold. Basic maintenance activities will continue but otherwise we have no plans to move this program forward at this time.

A growing interest in white pine reforestation in recent years, coupled with a chronic shortage of local seed, has resulted in a decision to establish a clonal white pine seed orchard. Beginning in 1998 up to 200 well formed, disease-free pine will be selected from across the Island. Scions will be collected and grafting will commence. The orchard will serve the dual purpose of providing seed for reforestation and preserving the local white pine gene pool.

After a somewhat shaky start in the 1980's, Newfoundland's tree improvement program is now well established. We feel we have the proper infrastructure in place to move forward, making substantial genetic gains in the process.