

***REPORT***

Buenos Aires,  
Argentina,  
23 March  
1990

**Executive Committee  
of the International  
Poplar Commission**  
**Thirty-fifth session**



Food and Agriculture Organization  
of the United Nations



FAO:IPC/90/Rep.

INTERNATIONAL POPLAR COMMISSION  
Executive Committee  
Report of the Thirty-fifth Session

Buenos Aires, Argentina, 23 March 1990

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS  
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## I. INTRODUCTION

1. The Executive Committee and four Subsidiary Bodies of the International Poplar Commission met in Buenos Aires from 19 to 23 March 1990 at the kind invitation of the Government of Argentina. Participants were welcomed by Mr Leopoldo Kuschnaroff, Financial Director of the National Forestry Institute and Chairman of the National Poplar Commission (Argentina). In his welcoming address he stressed the eminent role of poplars and willows in wood production in his country.

2. Mr Victor Steenackers, Chairman of the Executive Committee, thanked Mr Leopoldo Kuschnaroff for his kind words and reviewed the important role played by the International Poplar Commission since its foundation in 1947 in promoting poplar cultivation through exchanges of ideas and plant materials. This had been facilitated by the friendly relationships among member countries, the latest to date being Chile. Turning to Mr Abelardo Alonzo, member of the Executive Committee for many years, he expressed warm thanks for Mr Alonzo's contribution to the success of the current meeting.

3. Mr Jan Troensegaard, Senior Forestry Officer of the Forest Resources Development Branch of the FAO Forestry Department and Secretary of the International Poplar Commission, speaking on behalf of the Director-General of FAO, thanked those present for their favourable response to the invitation to participate and asked Mr Leopoldo Kuschnaroff to kindly convey to the Government of Argentina his warmest thanks for the excellent quality of the arrangements to promote the success of the meeting. He also thanked the university authorities who had made their facilities available to the organizers, and the Director-General of the UNDP for his very effective support.

4. The Thirty-fifth Session of the Executive Committee of the IPC was held on 23 March. The Session opened at 14.00 and was chaired by Mr Victor Steenackers (Belgium). Ten of the 17 members of the Committee were present (Annex 2). The meeting was also attended by the Chairman of the Sub-committee on Nomenclature and Registration and the Chairman of the Working Party on Poplar Diseases.

5. The agenda as shown in Annex 1 was approved. Mr Viart was responsible for the work of the Secretariat.

II. ACTIVITIES OF THE COMMISSION SINCE ITS EIGHTEENTH SESSION  
(Beijing, China, 5-8 September 1988)

II-a: Working Party on Poplar Diseases:

6. The latest session of the Working Party on Poplar Diseases was held in Buenos Aires from 19-23 March 1990. Ten delegates from six member nations (Argentina, Chile, France, Italy, New Zealand, Spain) took part in the work. Eight papers were presented and discussed.

7. The situation in the various countries can be described as follows:

. The rusts caused by the various physiological races of Melampsora larici-populina, and by M. allii-populina, are the prime concern of both pathologists and breeders, in Europe. M. medusae, also observed in New Zealand, South Africa and Europe, is a grave danger in the USA and Argentina;

. Anthracnose, due to Marssonnia brunnea, not yet observed in South America (Argentina and Chile), is, on the other hand, very worrying in Europe where most cultivars used to date are fairly susceptible to the disease.

. Venturia populina, a pathogen found primarily in Northern Italy, is a considered factor in breeding programmes.

. Alternaria alternata is present in Argentina where it was observed for the first time in 1987 on fastigiate white poplars.

. There has been a certain upsurge of cankers and bark necrosis caused by Dothichiza populea in Europe. In America, particularly in Argentina, Septoria musiva is responsible for numerous necrotic facies.

. Hypoxyylon mammatum is found in France and Italy, as in North America, duplicating the ranges of Populus tremula and tremuloides.

. Among the pathogenic bacteria, Xanthomonas populi deserves mention. Study of this pathogen has been financed by the European Economic Community. Agrobacterium tumefaciens is causing problems for French tree nursery growers with respect to the propagation of alba x tremula hybrids.

8. The eight scientific papers can be summarized as follows:

. Melampsora rusts in France, present on euramerican and inter-American cultivated poplars, have a typical range: M. larici-populina is found everywhere but predominates in northern and eastern France; M. allii-populina is found primarily in the west where it coexists with M. medusae; M. medusae is apparently more widely distributed than originally thought (a preliminary list of host plants has been prepared). The incidence of these rusts within the region under consideration is linked to the individual behaviours of various clones and to inter-annual climatic variations (J. Pinon). In Italy, where Melampsora medusae has not yet been observed, M. allii-populina is found throughout the country whereas M. larici-populina has only been observed in the mountains of central Italy and throughout the northern Italian poplar-growing area (A. Giorcelli, L. Vietto, and N. Anselmi). The presence of the virulent E3 breed was observed as early as 1988 in the latter area. Research is now underway on the reaction of various clones to the two rusts.



. In France, the sensitivity of 78 clones of European origin to Marssonina brunnea was tested (D. Terrasson); there was a certain divergence among the findings observed in the countries concerned; an effort should therefore be made to find satisfactory explanations in the context of international cooperation.

. The INTA in Argentina undertook to test the susceptibility of various poplar clones to S. musiva on two year old nursery and greenhouse saplings (C. Piussan); two techniques were compared, one involving inoculation of a stem wound made 10 cm. above the collar and the second through the inoculation of leaf scars; 1170 seedlings from 13 Populus deltoides families obtained through controlled cross-breeding were inoculated.

. In Italy, a study of the correlation between the static stability of Populus nigra "italica" plants and the presence of wood rot was carried out by N. Anselmi, G.P. Cellerino, and G. Nicolotti. The study should lead to the design of a mathematical model for evaluating the risk of tree breakage.

#### II-b: Working Party on Poplar Insect Pests:

9. The latest meeting of the Working Party on Poplar Insect Pests was held in Buenos Aires, Argentina from 19-23 March 1990. In the absence of its Chairman, Mr B. Cavalcaselle, the meeting was presided over by Mr G. Arru, its former Chairman. Six entomologists participated in the work and six scientific papers were presented and discussed.

10. Various reports from Argentina, France, Italy and Spain highlighted the health situation in the various countries. No attacks by new insect pests were reported.

. The most harmful insects in Europe were primarily borers such as Cryptorhynchus lapathi, Saperda carcharias, and Paranthrene tabaniformis;

. in Argentina, considerable damage was attributed to defoliating insects such as Nematus desantisi and Hylesia nigricans, a sucker (Pterocomma populea), and a borer (Platypus sulcatus). Rodent damage to young plantations was also reported.

11. Concerning control methods, major efforts were underway in the reporting countries to curtail the use of chemical products. Less environmentally harmful insecticides such as those containing diflubenzuron are now used. Preparations based on Bacillus thuringiensis are now in more widespread use for the control of Lepidoptera.

12. Resistance trials are also underway in the above countries.

13. The next Session of the Working Party will be held in conjunction with the forthcoming Session of the International Poplar Commission.

#### II-c: Ad Hoc Committee on Poplar-Breeding:

14. The latest meeting of the Ad Hoc Committee on Poplar-Breeding was held in Buenos Aires from 19-23 March 1990. Thirty-one experts from eight countries attended. Twenty-one scientific communications were presented.

15. The activities of the various member countries in the area of breeding can be summarized as follows:

. The main activities in Europe are focused on the creation of euramerican or inter-American hybrids; the selection objectives primarily concerned the search for satisfactory resistance to disease, and environmental adaptation. Early tests to evaluate susceptibility to disease are in wide use. The genetic parameters of several species will also be evaluated. Modern techniques of controlled cross-breeding are also being implemented.

. Aspens are widely used in northern Europe; the main research topics are vegetative multiplication and the development of multi-clonal varieties.

. Willow breeding is very important in Argentina; the main focus is improved resistance to both disease and flooding.

. Studies on China on natural distribution and individual variability are underway in a number of species to provide information leading to better breeding programmes. Populus tomentosa, is a Chinese species deserving of special attention; efforts concern the selection of clones, either those already grown in specific districts, or those obtained through controlled cross-breeding of land races or cross-breeding with alloigenous species.

16. In accordance with the proposal of Mr V. Steenackers, who did not wish to double as both Chairman of the Executive Committee and Chairman of the Ad Hoc Committee on Poplar-Breeding, Mr S. Bisoffi (Italy) was unanimously elected Chairman of the Ad Hoc Committee, and Mr A. Padro Secretary.

II-d: Sub-committee on Nomenclature and Registration:

17. The most recent meeting of the Sub-committee on Nomenclature and Registration was held in Buenos Aires on 21 March 1990 and chaired by Mr Viart. Forty-seven persons representing 12 countries took part in the work of the Sub-committee;

18. In accordance with recommendations made at the close of the Thirty-fourth Session of the International Poplar Commission (Beijing, 5-8 September 1988), the Chairman had prepared, and the Secretariat of the Commission had circulated to national commissions, a proposed brief description sheet for a poplar clone to be submitted for registration, and a draft International Catalogue prepared on the basis of responses received from various member nations (12 as of 16 February 1990). These documents were first submitted for comments to the Chairman of the International Commission on Nomenclature and Registration of Cultivated Plants;

19. In the course of a brief review of the duties and obligations of the International Poplar Commission in its role as an international authority for registering poplar cultivars, the Chairman pointed out that it was not within his terms of reference to rule on the distinction between different cultivars. This had been a real stumbling block for the various draft International Catalogues prepared to date. Indeed it was still extremely difficult to design a fool-proof identification system for the various poplar cultivars. A far-ranging discussion on this topic ensued, in which Messrs Bisoffi, Steenackers, Terrasson, Viart and Weisgerber figured prominently.

20. The draft currently before the various National Commissions can and must be amended. It is fact incomplete: failing to list a number of cultivars, either because they were designated by a latin name in contradiction with Article 27 of the International Code for the Nomenclature for Cultivated Plants, or because they were designated by a combination of letters and figures, in contradiction with recommendation 31A of the same code, or because they had not been reported to the Secretariat of the Commission (21 member countries still have not reported); furthermore, some information was incomplete or insufficient such as the exact designation of the breeder.

21. Following an oral report by Mr Richardson (Canada) who read a letter from Mr Vallée it was specifically pointed out that the catalogue concerns only cultivars grown, not clones tested; the latter may be designated as the experimenter wishes;

22. Subject to the above remarks and any further remarks by the Chairman of the International Commission on Nomenclature and Registration of Cultivated Plants, the two papers presented (see paragraph 18 above) have been adopted. The Secretariat will make arrangements to ensure publication of the first edition of the International Catalogue of Poplar Cultivars by the end of 1990. The Chairmen of the National Commissions are requested to send their proposed amendments to Mr Viart no later than 31 May.

23. The next meeting of the Sub-committee on Nomenclature and Registration will be held in conjunction with the Nineteenth Session of the International Poplar Commission. Mr Viart announced his intention to hand over his mandate as Chairman of the Sub-committee to the Chairman of the Executive Committee at the close of the forthcoming Session.

### III. SELECTION OF THE THEME OF THE NINETEENTH SESSION OF THE IPC:

24. Mr Troensegaard informed the committee of the reception of the following four proposals:

- "Poplars for Environmental Protection" (Italy, 05.03.1990)
- "The Role of Salicaceae in Environmental Improvement" (Canada, 09.03.1990)
- "Breeding the Asiatic Aspen, Populus davidiana" (Korea, 13.03.1990)
- "Poplar-Growing in Combination with Agriculture" (Spain, 24.03.1990);

25. Mr Wilkinson, the delegate from New Zealand, added his own country's proposal to these four: it concerns "Poplar-Growing in the Lower Latitudes";

26. In the course of the ensuing discussion, a number of observations were made by members present:

- . the Korean proposal covers an interesting but far too narrow field: it might however be of interest to the Ad Hoc Committee on Poplar Breeding (Mr Arru);
- . the other three proposals received by the Secretariat are very similar, denoting a common concern among countries as different as Canada, Italy and Spain (Mr Arru);
- . the Italian proposal could constitute a synthesis of the three proposals (Messrs Arru and Cellerino);

- . the Italian proposal is fairly close to the theme chosen for the Seventeenth Session (Ottawa, 1984) (Mr Troensegaard);
- . past experience has shown that an overly general theme all too often failed to mobilize the National Commissions, which subsequently supplied data which was hard to use (when they did consent to reply). This could happen with the theme emerging from the Italian proposal unless it were accompanied by a carefully prepared questionnaire (Mr Viart);
- . the New Zealand proposal is interesting, however its author would not oppose adoption of the Spanish proposal, as Mr Steenackers noted;

27. Mr Steenackers summarized this discussion by emphasizing the overwhelming majority in favour of a blend of the Canadian, Spanish and Italian proposals. He stressed the need to designate a rapporteur who, after consultation with his colleagues in the context of a small committee, would specifically define the theme and sub-themes for the forthcoming session of the International Commission. As no candidate for the job of rapporteur came forth Mr Steenackers requested the assistance of Mr Viart, who declined, and then of Mr Terrasson, who accepted. Mr Terrasson was then unanimously approved as rapporteur for the theme for the Nineteenth Session.

28. In response to a request by Mr Steenackers, Mr Viart reminded participants of the need to respect the final date for sending replies, and the importance of streamlining the circulation of data between the rapporteur and the writers of national reports so as to keep information from getting blocked at the administrating levels. Both would facilitate the work of the rapporteur and allow him to get his summary report on the theme of the Nineteenth Session ready in time.

29. After consultation, the theme of the Nineteenth Session was decided as follows:

"Poplar-Growing in Combination with Agriculture"

with the four following sub-themes

- 1) Association between poplar- or willow-growing and agricultural production;
- 2) Poplar- or willow-growing in the utilization of abandoned farm lands;
- 3) Role of poplar- and willow-growing in farm economies;
- 4) Conflicts between agriculture and poplar-growing.

#### IV. SELECTION OF THE PLACE OF THE NINETEENTH SESSION OF THE IPC:

30. Mr Troensegaard informed the Committee that two countries had officially offered to host the forthcoming session of the IPC. These were Hungary (15.06.1988), and Spain, which had renewed its offer several times since September 1988. He pointed out that Hungary would be prepared to withdraw its candidature (this had emerged from a small meeting held in Beijing during the Eighteenth Session).

31. Mr Steenackers noted these candidatures and added that Hungary's offer might eventually be retained for the 37th Session of the Executive Committee in 1994, if Spain's offer were accepted for the organization of the Nineteenth Session of the IPC in 1992;

32. The Executive Committee unanimously adopted the Chairman's proposal and accepted Spain's offer to host the Nineteenth Session of the IPC in 1992.

33. Mr Antonio Padro thanked the Executive Committee for this mark of confidence in his country and government.

V. COORDINATION BETWEEN THE SUBSIDIARY BODIES OF THE IPC AND THE IUFRO WORKING PARTIES:

34. Mr Troensegaard noted that some IPC Working Parties or Ad Hoc Committees had concerns in common with some of the IUFRO Working Parties. Joint sessions had been attempted in the past, such as that held in Beijing in September 1988 during the 18th Session of the IPC, but organizational problems had cropped up. It would therefore be highly desirable to pinpoint the respective roles of the two parties and coordinate their action.

35. In the view of Mr Bisoffi, Chairman of the Ad Hoc Committee on Poplar-Breeding, the issue of relations between the IPC and IUFRO was not competition but rather matching resources to needs. In point of fact the object of the International Poplar Commission is to favour exchanges of information among member nations in order to promote the production of poplar wood and thus contribute to the economic and social development of member countries. This is why the IPC functions as a sort of forum where those interested in poplar production can meet at more or less regular intervals: scientists, technicians, growers, users, etc. IUFRO's concerns differ in that they revolve solely around scientific research in highly specific domains.

36. The example of the development of poplar-growing in India must be cited to point up the prominent part played by a private firm which in all likelihood does not participate in IUFRO's activities (Mr Viart).

37. Scientists are equally at home in the Working Parties of IUFRO and the Subsidiaries bodies of the IPC. It would therefore very easy for them to coordinate the meetings of these two bodies so as to avoid time conflicts. As the member countries of the two organizations differ, scientists have the opportunity to meet colleagues with whom they would not otherwise come in contact (Mr Weisgerber).

38. One original aspect of the IPC was that it allowed different people working on different species of the same genus (Populus) to pool their knowledge. This represented a considerable advantage (Mr Terrasson). The trend was moreover towards widening participation among countries interested in poplar-growing (Mr Padro).

39. Mr Steenackers, in summing up the conclusions of these discussions, stressed that the scientific levels of the work done in one context or another were fairly comparable and felt the following points should be retained:

. the IPC's main objective is to promote poplar-growing for wood production through exchanges of information among member nations, in technical as well as scientific domains. IUFRO's role, however, is restricted to exchanges of scientific information among scientists

working in various institutes. There should accordingly be no competition between the two institutions: complementarity at the level of scientific progress and its implementation would be the goal.

. Coordination of the activities of the scientists would therefore be highly desirable, particularly in organizing meetings and planning work.

40. It is therefore recommended that the Chairman of the Subsidiary Bodies of the International Poplar Commission build closer relations with the Chairmen of the IUFRO Working Parties so as to constantly improve coordination of their respective activities.

41. To follow up a comment of Mr Viart's that it might be interesting to standardize the designation of the Subsidiary Bodies of the International Poplar Commission in order to facilitate relationships with IUFRO, the Chairman, V. Steenackers, pointed out that IPC's status as an international authority on registration cannot be conferred on a Working Party. This function must therefore be maintained within the Executive Committee, or the Sub-committee formed for this specific purpose. On the other hand, he felt that the distinction between "Working Party" and "Ad Hoc Committee" doubtless had a legal foundation but little factual justification. The Executive Committee unanimously supported Mr Weisgerber's proposal and therefore asked the Secretary to please consult with the FAO Legal Office and together review conditions under which the two existing Ad Hoc Committees might be transformed into Working Parties.

42. With the agreement of the FAO Legal Office secured, the Subsidiary Bodies of the International Poplar Commission would be as follows:

- . Sub-committee on Nomenclature and Registration of Poplars
- . Working Party on Poplar Diseases
- . Working Party on Logging and Utilization of Poplar Wood
- . Working Party on Biomass Production Systems in Salicaceae
- . Working Party on Poplar-Breeding.

## VI. OTHER MATTERS

43. The Chairman of the Executive Committee expressed pleasure with the adherence of Chile as the 33rd member of the International Poplar Committee.

44. Mr Woo Hyum Lee, Delegate of the Republic of Korea, expressed the hope that relations between scientists in his country and their counterparts in The People's Republic of China would gradually intensify under the aegis of the various Working Parties of the International Poplar Commission.

45. Upon a motion of Mr Troensegaard, seconded by the Chairman of the Executive Committee, the members present agreed to set 1 May 1990 as the final date for submitting lists of communications to the various Working Parties and Ad Hoc Committees, so as to allow Mr Viart, Secretary of the Session, time to conclude his report.

46. Mr Steenackers, speaking on his own behalf and on that of all his colleagues in the Executive Committee, noted the decision of Mr Troensegaard to hand over his duties as Secretary of the International Poplar Commission, and thanked him for his excellent collaboration in IPC's work to promote poplar cultivation and wood production in various parts of the world, and hoped that the pursuit of his career as a forester in his own country would afford him every gratification.

47. Lastly, the Chairman and members of the Executive Committee present proposed to hold their forthcoming session in conjunction with the Nineteenth Session of the International Poplar Commission, and asked to have this proposal put before the Director-General of FAO at the proper time.

#### VII. CLOSING OF THE SESSION

48. The agenda was completed at 17.50 and the Chairman, Mr Steenackers, declared the Thirty-fifth Session of the Executive Committee of the International Poplar Commission closed.

INTERNATIONAL POPLAR COMMISSION  
THIRTY-FIFTH SESSION OF THE EXECUTIVE COMMITTEE  
Buenos Aires, Argentina, 23 March 1990

AGENDA

1. Opening of the Session
2. Adoption of the Agenda
3. Activities of the Commission Since its 18th Session Held in Beijing, People's Republic of China
4. Selection of the Theme and Formulation of the Outline of Activities for the 19th Session of the Commission
5. Place of the Forthcoming Session of the Commission
6. Coordination Among the Subsidiary Bodies of the Commission and the Corresponding Working Parties of the International Union of Forestry Research Organizations
7. Any Other Matters
8. Closing of the Session



LIST OF PARTICIPANTS

1. EXECUTIVE COMMITTEE  
(Buenos Aires, Argentina)

1.1 Members

Argentina: Ottone, J.R.

Belgium: Steenackers, V. (Chairman)

China: Wang, Shiji

France: Terrasson, D.

Germany, Federal Republic of: Weisgerber, H.

Italy: Arru, G.M.

Korea, Republic of: Shim, Chong Sup

New Zealand: Wilkinson, A.G.

Spain: Padro Simarro, A.

United States: Debell, D.S.

1.2 Chairmen of Subsidiary Bodies

Cellerino, G.P. (Italy)  
Chairman, Working Party on Poplar Diseases

Viart, M. (France)  
Sub-Committee on the Nomenclature and Registration of Clones

Steenackers, V. (Belgium)  
Chairman, Working Party on the Genetic Improvement of Poplar

1.3 FAO Secretariat

Troensegaard, J.  
Secretary of the IPC  
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LIST OF WORKING DOCUMENTS PRESENTED AT THE SESSIONS, TO THE WORKING PARTIES,  
SUB-COMMITTEE AND AD HOC COMMITTEE

POPLAR DISEASES

<u>Number</u>	<u>Title</u>
FO:CIP:D/90/1	<u>Alternariosis de álamo</u> ( <u>Populus spp.</u> ) Pericles A. Merlo, Marcelo R. Carranza y Alberto Aprea
FO:CIP:D/90/2	Eléments de répartition des rouilles des peupliers cultivés en France - Jean Pinon
FO:CIP:D/90/3	Revisión bibliográfica sobre las principales plagas y enfermedades del género salix - Beatriz Larriera
FO:CIP:D/90/4	Poplar disease situation in Italy in 1989 - G.P. Cellerino and A. Giorcelli
FO:CIP:D/90/5	Wood decay as a cause of decline on "Lombardy Poplar" in northern Italy - N. Anselmi, G.P. Cellerino and G. Nicolotti
FO:CIP:D/90/6	Evaluación de resistencia a cancrrosis - Carlos M. Piussan
FO:CIP:D/90/7	The <u>Melampsora</u> of cultivated poplars in Italy: species, physiological races, territorial incidence and clonal susceptibility - A. Giorcelli, L. Vietto & N. Anselmi
FO:CIP:D/90/8	Etude de la sensibilité de 40 clones de peupliers au <u>Marssonina brunnea</u> - D. Terrasson

POPLAR INSECT PESTS

<u>Number</u>	<u>Title</u>
FO:CIP:I/90/1	Manual para la protección de los cultivos forestales en la región del delta del Paraná - H.A. Toscani
FO:CIP:I/90/2	Informe del estado fitosanitario de las choperas españolas en 1988-1989 - Soria Carreras S.
FO:CIP:I/90/3	Bilan faunistique des pullulations d'insectes sur les peupliers - A. Delplanque
FO:CIP:I/90/4	Insects damaging poplars in Italy during 1987-89, control strategies and future perspectives - G. Lapietra and G. Allegro
FO:CIP:I/90/5	Recherches sur la résistance de clones de peupliers vis-à-vis de la chrysoméle <u>Melasoma tremulae</u> (F). ( <u>Col. Chysomelidae</u> ) - S. Augustin and J. Chenault

- FO:CIP:I/90/6 Studies about the resistance of poplars Species, Cultivars and Clones to Phloeomyzus passerinii Sign. (Hom. Aphididae) - M. Shojai and H. Lotfian
- FO:CIP:I/90/7 Field toxicity to honey bees of three insecticides used in poplar pest control - G. Lapietra and G. Allegro

LOGGING AND UTILIZATION OF POPLAR WOOD

- | <u>Number</u> | <u>Title</u>  |
|---------------|---|
| FO:CIP:N/90/1 | Reclamation and Afforestation of subsided mine-lands - Wang Shiji and Zhou Shuli  |
| FO:CIP:N/90/2 | Papel Prensa S.A. Una realidad de la industria nacional Argentina   |
| FO:CIP:N/90/3 | Proceedings - Poplar Council of Canada, Tenth Annual Meeting - Management and Utilization of Alberta's Poplars - Compiled by R.L. Gambles, Faculty of Forestry, University of Toronto   |
| FO:CIP:N/90/4 | Regeneration in the mixed woods by S. Navratil, K. Branter, and J. Zasada - A paper presented at Northern Mixedwood 89 Symposium, Fort St. John, B.C., Canada, 12-14 Sept. 1989.  |
| FO:CIP:N/90/5 | Influence of water supply on wood property of <u>Populus deltoides</u> - Wang Shiji, Liu Fengjue, Zheng Shikai from the Forest Research Institute, Chinese Academy of Forestry; and Chai Xiuwu, Zhang Wenqing, Wood Industry Research Institute, Chinese Academy of Forestry. |
| FO:CIP:N/90/6 | Working Party on Logging and Utilization of Poplar Wood. Report to the 35th Session of the Executive Committee of International Poplar Commission, 19-23 March 1990, Argentina - J.J. Balatinecz  |

BIOMASS PRODUCTION SYSTEMS FOR THE SALICACEES

- | <u>Number</u>  | <u>Title</u>  |
|----------------|---|
| FO:CIP:BS/90/1 | Multipurpose tree production systems - C.P. Mitchell, L. Sennerby-Forsse, L. Zsuffa.  |
| FO:CIP:BS/90/2 | Proceedings IEA/BA Task 5 Workshop - Improvement of feedstock quality - Toronto, Canada, 28 June 1989 - Compiled by W.A. Kenney, R.L. Gambles and L. Zsuffa |
| FO:CIP:BS/90/3 | Productividad de biomasa en cultivo de rotación bianual en Patagonia - E. Malaspina, H. Menoyo, N. Jones, O. Mombelli                                       |
| FO:CIP:BS/90/4 | <u>Ad Hoc</u> Committee on Biomass Production Systems' Report to the 35th Session International Poplar Commission - L. Zsuffa                               |

GENETIC IMPROVEMENT OF POPLAR

<u>Number</u>	<u>Title</u>
FO:CIP:BR/90/1	Poplar-breeding priorities and some application possibilities in the Federal Republic of Germany - H. Weisgerber
FO:CIP:BR/90/2	Recent developments in the INRA poplar programme - M. Villar, S. Augustin, A. Delplanque, F. Lefèvre, M.F. Michel, C. Pichot, J. Pinon, D. Terrasson, and E. Teissier du Cros
FO:CIP:BR/90/3	Mejoramiento genético del género <u>Populus</u> spp. - INTA - Carlos M. Piussan
FO:CIP:BR/90/4	Experiences and ideas of hybrid aspen ( <u>Populus tremula x tremuloides</u> ) in Sweden - Institute for Forest Improvement
FO:CIP:BR/90/5	Report on intraspecific hybridization of poplar - Lui peilin, Yu quibin
FO:CIP:BR/90/6	Results of 50 years of selection and breeding of poplars in The Netherlands - S.M.G. de Vries
FO:CIP:BR/90/7	Estado de desarrollo del Programa de Mejora Genética del género <u>Populus</u> en España - Antonio Padro
FO:CIP:BR/90/8	Evaluación con fines papeleros de diez clones de álamo en ensayos del Inta-Delta del Paraná - Edith Bonavia de Guth, Carlos Miguel Piussan
FO:CIP:BR/90/9	The development of a breeding strategy for poplars - Stefano Bisoffi
FO:CIP:BR/90/10	Summa of experience of popularizing <u>Populus tomentosa</u> Carr. excellent clones - Zhao Tianbang, Chen Zhixiu, Song Liugao, Xie Shujuan, Fu Dali (Henan Agricultural University), Zhang Kangpu (Forestry Technology Popularization Center of Xuchang), Li Ruifu (Nanyang Education College of Henan Province), Li Zhaorong, Zhao Zicai (Forestry Department of Henan Province)
FO:CIP:BR/90/11	Multilocus genetic structure, characterization, and relationships of <u>Populus x canadensis</u> cultivars - P. Rajora and L. Zsuffa
FO:CIP:BR/90/12	Seasonal isolation as a reproductive barrier among sympatric <u>Salix</u> species - A. Mosseler and C.S. Papadopol
FO:CIP:BR/90/13	Interspecific pollen-pistil incongruity in <u>Salix</u> - A. Mosseler
FO:CIP:BR/90/14	Genetic variation in trembling aspen in Ontario based on Isozyme studies - Jung O. Hyun, Om. P. Rajora, and L. Zsuffa

- FO:CIP:BR/90/15 Sex expression and sex ratios in intra- and interspecific hybrid families of Salix L. - A. Mosseler and L. Zsuffa
- FO:CIP:BR/90/16 Studies in genetics and breeding of North American Willows at the Faculty of Forestry, University of Toronto - S. Zsuffa
- FO:CIP:BR/90/17 Pollen competition among Populus deltoides Marsh., P. nigra L. and P. maximowiczii Henry in fertilizing P. deltoides ovules and siring its seed crop - O.P. Rajora
- FO:CIP:BR/90/18 On the characteristics of hyperoxide isoenzymes and morphological anatomy of leaves of Populus x Vinxinensis cv. "4755-2" and cv. "w-38" - Wang Shao Yan, Feng Xian Kui, Song Yu Xia and Cao Yu Yun
- FO:CIP:BR/90/19 Crossbreeding of P. del. cv. "lux" x P. del. cv. "harvard" and the new cultivars - Huang Dong-sen, Zhu Xiang-yu, Wang Rui-ling (Chinese Academy of Forestry)
- FO:CIP:BR/90/20 Geographic variation of young plants of Populus cathayana Rehd. - Han Yifan, Wang Jianyuan, Li Ling
- FO:CIP:BR/90/21 Application of individual difference to poplar hybridization - Su Xiao-hua, Zhang Qi-wen, Jiang Xing-lin
- FO:CIP:BR/90/22 Intraspecific isoperoxidase variation of Populus tomentosa carr - Yang Zixiang, Gu Wanchun, Liling
- FO:CIP:BR/90/23 Programa de mejoramiento de sauces y álamos para el Delta del Paraná - Teresa Cerrillo
- FO:CIP:BR/90/24 Characteristic introduction of new clonal varieties - Populus x Vinxinensis cv. "4755-2" and Populus x Vinxinensis cv. "w-38" - Wang Shao Yan, Li Gui Hua and Zhang Zhen Wen
- FO:CIP:BR/90/25 Hybrid-breeding of P. euramericana in resistance to Marssonona populi (Lib.) Magn. - Huang Dong-sen, Xiang Yu-ying, Zhu Xiangy-yu
- FO:CIP:BR/90/26 Introducción a la taxonomía y fenología de clones cultivados de álamo (Populus sp.) - Summary - J. Barañao, M.E. Bascialli, A.M. Garau
- FO:CIP:BR/90/27 Study of the excellent clones of Populus tomentosa Carr. - Tianbang Zhao, Zhihui Chen, Liugao Song, Lugung Wu, Dali Fu, Zhaorong Li, Zhenqing Li, Tao Feng, Quishen Huang, Ruifu Li
- FO:CIP:BR/90/28 Study on systematic classification of Populus tomentosa - Tianbang Zhao, Zhixui Chen, Liugao Song, Zhenping Zhao, Dali Fu
- FO:CIP:BR/90/29 Selección primaria sobre clones de sauces obtenidos por cruzamientos controlados - T. Cerrillo y G. Bunse



- FO:CIP:BR/90/30 Selección precoz de cultivares de álamo en función de su capacidad de crecimiento en condiciones de estres hídricos - J. Lemcoff, G. Murphy, M.E. Bascialli, A.M. Garau, A. Guarnaschelli y N. Mazia
- FO:CIP:BR/90/31 Value of the backcrossings (P. trichocarpa x P.deltoides) x P. deltoides and (P. trichocarpa x P. deltoides) x P. trichocarpa - V. Steenackers
- FO:CIP:BR/90/32 A numerical taxonomic study on P. tomentosa Carr. - Zhang Jie

POPLAR NOMENCLATURE AND REGISTRATION

- | <u>Number</u>  | <u>Title</u>  |
|----------------|---|
| FO:CIP:NR/90/1 | Fiche de description sommaire d'un cultivar monoclonal de peuplier (projet) - M. Viart  |
| FO:CIP:NR/90/2 | Notes for the guidance of international registration authorities for cultivated plants  |
| FO:CIP:NR/90/3 | Catalogue International des Cultivars de Peupliers  |
| FO:CIP:NR/90/4 | Introducción a la taxonomía y enología de clones cultivados de álamo ( <u>Populus</u> sp.) - J.J. Barañao, M.E. Bascialli, A.M. Garau   |
| FO:CIP:NR/90/5 | Reconocimiento de los principales clones de álamo ( <u>Populus</u> sp.) cultivados en la Prov. de Buenos Aires (Argentina) a través de su morfología floral - A.M. Garau      |
| FO:CIP:NR/90/6 | Identificación de clones de <u>Populus</u> sp. por medio de caracteres morfológicos, fenológicos y bioquímicos - R.I. Arreghini, S. Arno, V. Silvestri, F. Yañez, A. Iglesias |
| FO:CIP:NR/90/7 | Identification of some <u>Populus deltoides</u> Marsh. x <u>P. nigra</u> L. clones, developed in North America, with the aid of allozymes - O.P. Rajora                       |

MISCELLANEOUS

- | <u>Number</u>    | <u>Title</u>  |
|------------------|---|
| FO:CIP:MISC/90/1 | Agenda Provisional  |
| FO:CIP:MISC/90/2 | Informe de las reuniones de los Organos Subsidiarios de la Comisión Internacional del Alamo realizadas en relación con la 35a Sesión del Comité Ejecutivo (Buenos Aires, Argentina, marzo 1990) |
| FO:CIP:MISC/90/3 | Activity Report - " <u>Ad Hoc</u> " Committee for Poplar and Willow Breeding  |
| FO:CIP:MISC/90/4 | Estado actual de las investigaciones sobre salicáceas en la región de Cuyo - Argentina  |

- FO:CIP:MISC/90/5 Ad Hoc Committee on Biomass Production Systems' Report to the 35th Session International Poplar Commission, 19-23 March 1990, Argentina
- FO:CIP:MISC/90/6 Working Party on Logging and Utilization of Poplar Wood. Report to the 35th Session of the Executive Committee of IPC, 19-23 March 1990, Argentina
- FO:CIP:MISC/90/7 Le rôle du CEMAGREF dans la recherche forestière française en populiculture - D. Terrasson
- FO:CIP:MISC/90/8 Características Ecológicas del Delta del Río Paraná - G. Berrondo, L. Gurini
- FO:CIP:MISC/90/9 Publicaciones del proyecto CONAF/PNUD/FAO - CHI/76/008 "Investigación y Desarrollo Forestal"
- FO:CIP:MISC/90/10 Current Forestry Canada research with poplars - J. Richardson
- FO:CIP:MISC/90/11 Investigación y desarrollo de áreas silvestres zonas áridas y semi-áridas de Chile - J. Latorre Alonso
- FO:CIP:MISC/90/12 Estado actual del cultivo de las Salicáceas en la región de Cuyo, 1989 - Instituto Forestal, Univ. Nacional de Cuyo, Mendoza, Argentina
- FO:CIP:MISC/90/13 Report from Canada - J. Richardson



