

**INTERNATIONAL POPLAR COMMISSION**

**Report of the 20th Session of the Commission**  
**and of the 38th Session of its Executive Committee**

**Budapest, Hungary, 1 - 4 October 1996**

Rome, 1996

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## **PART I     REPORT OF THE 38TH SESSION OF THE EXECUTIVE COMMITTEE OF THE INTERNATIONAL POPLAR COMMISSION**

### ***I        ORGANIZATION***

1. The 38th Session of the Executive Committee of the International Poplar Commission (IPC) was held in Budapest, Hungary, on 1st October 1996 at the kind invitation of the Government of Hungary. Mr V. Steenackers, Chairman of the Executive Committee, chaired the meeting. It consisted of a closed session of 12 members, 7 heads or secretaries of Working Parties and the Secretary of the Commission assisted by a former Secretary of the IPC.

### ***II       THE SESSION***

2. The Session was opened by the Chairman of the Committee. The provisional agenda was adopted.

3. The Chairmen of the Working Parties presented their reports. Informal meetings of some of the Working Parties had been held at the time of meetings of other bodies such as IUFRO, the EU Poplar project and the IEA. Contacts had been continued with the EUFORGEN group. The importance of these links and of the co-ordination of activities was stressed.

4. The Secretariat informed the Committee of the names of the candidates proposed by member countries from which its members would be elected for the period 1997-2000.

5. The Secretariat informed the Committee that offers to host the 39th Session of the Executive Committee had been received from India and from New Zealand.

6. The responsibilities of the Working Groups were discussed, with reference to subjects that were presently not clearly reflected in the titles of the Groups. This item was further discussed in subsequent Working Group meetings (see also para. 13 below)

7. The Secretariat informed the Committee that provision had been included in the programme of the XI World Forestry Congress (Antalya, Turkey, October 1997) for a satellite meeting to mark the 50th anniversary of the IPC.

8. Other matters that were discussed included future directions for the IPC and the subject matter and distribution of the proposed leaflets on the cultivation and utilisation of the Salicaceae. It was agreed that a small group should be set up to develop ideas for future directions of the IPC and that this matter should be drawn to the attention of the incoming Committee. The members of the Committee recorded their thanks to the Director of the Istituto de Sperimentazione per la Pioppicoltura (Casale Monferrato, Italy) for the support of his Institute towards the compilation of the Directory of Poplar and Willow Scientists, and reviewed the possibility of putting it on the Internet.

### **III POST-SESSION INFORMAL MEETING OF THE EXECUTIVE COMMITTEE**

9. The newly elected members of the Executive Committee for 1997-2000 met on 4th October 1996 to elect the Chairman and Vice-chairman of the Committee and to discuss general business.

10. Mr V. Steenackers (Belgium) was elected Chairman and Mr A. Padro (Spain) Vice-chairman of the Executive Committee, both unanimously. It was agreed that Messrs. Scarascia-Mugnozza (Italy), K. Siddiqui (Pakistan) and P. Tabbush (UK) should be co-opted to the Executive Committee. Mr A. Wilkinson (New Zealand) was appointed Chairman of the Sub-committee on Nomenclature.

11. The Secretary was requested to circulate member countries to request suggestions for a theme for the satellite meeting to be held at the time of the XI World Forestry Congress and to request comments on the subject matter of the proposed leaflets (see paras 7 and 8 above). The Secretary was requested to look for the Rules of Procedure which were drafted some years ago for the conduct of the Sessions of the IPC.

12. It was agreed that a small organising committee, drawn from member, countries should be set up to help prepare for future Sessions and in particular to relate the papers of the Working Parties to the general theme of the Session

13. It was agreed that the title of the Working Group on Biomass Production Systems for the Salicaceae should be renamed *Production Systems for Poplars and Willows*.

## **PART II REPORT OF THE 20TH SESSION OF THE INTERNATIONAL POPLAR COMMISSION**

### ***I ORGANIZATION***

1. The 20th Session of the International Poplar Commission (IPC) was held in Budapest, Hungary at the kind invitation of the Government of Hungary under the Chairmanship of Professor Csaba Mátyás (Hungary).
2. The Session was attended by delegates, and advisers from 27 member countries of the Commission: Argentina, Belgium, Bulgaria, Canada, Chile, China, Croatia, Egypt, France, Germany, Hungary, India, Ireland, Italy, Korea (Republic of), New Zealand, Pakistan, Portugal, Romania, South Africa, Spain, Sweden, Switzerland, the Netherlands, Turkey, UK and USA. Observers attended from Brazil, Greece, Kenya, Poland, Slovak Republic and Uruguay. A total of 207 delegates, advisers and observers participated.

### ***II OPENING OF THE SESSION.***

3. The Session was opened by the Chairman of the retiring Executive Committee, Mr V. Steenackers.
4. Mr Lajos Buzássy, Deputy State Secretary, Department of Agriculture, welcomed participants to Hungary. He reviewed the important role of the Hungarian forestry sector in wood production and in the provision of other goods and services, and emphasised the support of his Ministry to the sector. He stressed the need for international co-operation in forestry and mentioned Hungary's long experience in forest management. In declaring the Session open he thanked FAO for its support to the Hungarian agro-economy and its contribution to the co-ordination of international activities in forestry.
5. The Director of the Forestry Office, Ministry of Agriculture, Mr Márton Dauner, reviewed current priorities for forestry in Hungary, which included output of forest products, nature and game protection and the provision of social benefits. Under the new economic and political order, ownership patterns of land and of forest industry were changing with the break up of co-operatives but there would be no reduction of forest area and forest laws would be strengthened. The Forestry Office had clear goals: to prepare regulations for implementing the new Forests Act, to reorganise the administration of the national forestry sector and of the state forests, to speed up the process of land and forest consolidation, and to promote afforestation.
6. The Chairman of the National Poplar Commission of Hungary, Dr Laszlo Erdosz, stated that Hungary has now 153 000 ha of poplar plantations, which were the basis of the composite board and the packaging and paper industries. Much of the output from poplar-based industry was exported. Research, especially into tree breeding and wood properties, had made an important contribution to this process. Important challenges lay ahead, including the consolidation of private forest holdings and adapting to the effects of further changes in the structure of the Hungarian agricultural sector.
7. Mr J.B. Ball, Secretary of the IPC, in welcoming participants on behalf of the Director-General of FAO, drew attention to the 50th anniversary of the establishment of the IPC in 1997. He described the IPC, a Statutory Body of FAO, as providing: a neutral forum for the discussion of technical and policy issues related to poplars and willows; advice and technical support from a wide range of disciplines; and

access to the network of 174 member countries of the Organization.

8. Professor Csaba Mátyás (Hungary) was elected Chairman and Messrs M. Villar and J. Isebrands and Ms R. Arreghini were elected Vice-chairmen.

9. The Provisional Agenda was adopted without amendment.

### **III THE SESSION'S ADMISSION OF NEW MEMBER NATIONS**

10. Delegates were advised that South Africa, as a member of FAO, had applied to join the IPC under Article II (1) of the Convention governing the IPC. South Africa had lodged its formal acceptance of the Convention with the Director-General of FAO and was accordingly now a member of the IPC.

### **IV ENVIRONMENTAL AND SOCIAL ISSUES IN POPLAR AND WILLOW CULTIVATION AND UTILIZATION**

11. Mr D. Terasson presented the synthesis of responses on the theme of the 20th Session, *Environmental and Social Issues in Poplar and Willow Cultivation and Utilization*. The synthesis was based on 17 responses to a questionnaire that had been circulated to all member countries.

12. Countries fell into three different categories regarding environmental and social issues related to the cultivation and use of the Salicaceae:

- countries where the cultivation of the Salicaceae was generally considered beneficial, for protective and or productive purposes. Examples were China and countries with low rainfall such as Morocco where cultivation of the Salicaceae could reduce soil erosion and create green corridors;
- countries where poplar (and to a lesser extent willow) plantations were criticised or opposed, largely because they threatened the integrity of natural systems in wetlands or valleys, mainly in Western Europe;
- countries neutral towards cultivation of the Salicaceae such as Sweden or Canada, where the Salicaceae occurred naturally rather than in plantations.

13. In general there was little information on the status of natural stands of poplars and willows but it was known that riparian formations, in which the Salicacea were often prominent components, were being reduced for various reasons such as river training works, conversion to agricultural land or to artificial poplar plantations. For this reason several countries had started gene conservation programmes, e.g. *Salix humboldtiana* in Argentina, *Populus nigra* in Europe through the EUFORGEN programme. Riparian stands helped to stabilise river banks, and several countries drew attention to the importance of such stands for the capture of soil nitrates. A more favourable environment for fish might be produced through their shading effect in reducing water temperatures, but the decomposition of poplar leaves could reduce water quality. Riparian stands could provide important corridors for animal migrations while they contributed visual and amenity benefits to the landscape. They might make an important contribution to providing fuel, building materials and other products for rural communities, but this role was diminishing.

14. Although areas of plantations of the Salicaceae had increased in recent years the genus remained of relatively low importance in plantation programmes, except in China. Information on the environmental and social effects of such plantations was therefore lacking and came from relatively few countries. Such effects might be positive or negative depending on the objectives of the plantations e.g. the effect on the water table was positive where the plantations were established for drainage purposes, but negative if the conservation of wetlands was a priority. The beneficial effects on water quality in capturing nitrates and other pollutants were noted, as with natural riparian stands, but the use of chemicals in the establishment of plantations might have a negative effect on water quality. Plantations were being established in several countries e.g. China, Egypt, Morocco for erosion and desert control and in New Zealand for catchment area protection. On the whole plantations of the Salicaceae were reported as having a negative effect on natural ecosystems and on animal life and in causing gene pollution of natural stands. Both positive and negative assessments of the contribution of plantations to the appearance of traditional landscapes were reported, but on the whole only positive contributions to the well-being of peoples, whether in the provision of goods or services such as leisure activities. Products research was continuing in several countries into the use of the Salicaceae for biomass, and into the environmental impact of wood packing and pallets.

15. The major environmental and social concerns related to the cultivation of poplars and willows were:

- recognition of widespread threats to natural riparian forest, and the need for the evaluation of the effects of the types of land use which replace them;
- the need for conservation of natural occurrences of riparian forest, including the conservation of the genetic resources of several poplar species including *P. nigra*;
- the potential of plantations of the Salicaceae to capture agricultural and industrial soil pollutants;
- the need to examine the functioning of artificial ecosystems such as poplar and willow plantations, which were scattered in rural areas, related to the general problem of the functioning of fragmented ecosystems;
- the impact of cultural techniques on biological diversity, especially the use of chemicals;
- the use of biomass derived from the Salicaceae for energy production, and the implications for the maintenance of soil fertility
- the environmental costs associated with the manufacture and use of various raw materials in packaging and associated recycling processes;
- the visual impact of the cultivation of the Salicaceae on the landscape and methods for the evaluation of non-market uses.

## **V SYNTHESIS OF NATIONAL REPORTS ON ACTIVITIES RELATED TO POPLAR AND WILLOW AREAS, PRODUCTION, CONSUMPTION AND THE FUNCTIONING OF NATIONAL POPLAR COMMISSIONS**

16. National Reports were received from the Poplar Commissions of 27 member countries, including South Africa (see annex IV).



17. Data concerning the areas of poplars were available for most countries. China reported an area of natural and planted poplars of 1.34 mn ha, of which 360 000 ha were established in the period 1991-95. Canada had large areas of natural stands of poplars in mixed hardwood and hardwood/conifer stands. Significant increases of poplar plantations were reported from China, Turkey and Belgium, while decreases were reported from France and Italy. The reported areas of poplar plantations were: France 245 000 ha; Romania 163 000 ha of which 80 000 ha were native stands; Hungary 162 000 ha; Turkey 157 000 ha of which 7 000 ha were native stands; Iran 150 000 ha of which c. 40 000 ha were native stands; Germany 103 000 ha; Spain 98 000 ha; Italy 71 000 ha, Argentina 55 000 ha, Belgium 45 000 ha, Egypt 40 000 ha, the Netherlands 31 000 ha, India 26 400 ha. Less information was available on standing volume; Canada continued to dominate the reported stocks, with 2.9 mn m<sup>3</sup>, mainly of *P. tremuloides*, while France reported 27 mn m<sup>3</sup> and Italy 4 mn m<sup>3</sup>.

18. The import and export of poplar wood continued to be of importance in Europe. The main poplar importing countries were Italy, c. 500 000 tonnes, Belgium 313 000 tonnes, France 107 000 tonnes, the Netherlands 62 000 tonnes and Croatia 24 000 tonnes. The main poplar exporting countries were Hungary, c. 500 000 tonnes, Belgium 159 000 m<sup>3</sup>, France 327 000 tonnes, Romania 40 000 tonnes and Croatia 21 000 tonnes. Several countries reported importing and re-exporting poplar wood, either in the round or in semi-processed form.

19. Some countries reported changes that in forest or land use policies that would encourage the planting of poplars and willows. Other countries reported public feeling, sometimes translated into legislation, against poplar plantations on wetlands and riverbeds due to a perceived reduction in biological diversity and their unnatural appearance. The process of privatisation of plantations of wood-using industries continued in some (but not all) of the member countries with economies in transition. Some countries reported new policies regarding "set-aside" agricultural land and the availability of financial incentives that might promote the planting of poplars.

20. There was continuing interest in a few countries such as Sweden and Germany in the growing of poplars and willows for biomass energy.

21. Little information was given in country statements on the cultivation and use of willows. New Zealand reported areas of 53 000 ha in 1962, since when there has been much new planting. Romania reported an area of 50 000 ha, of which 9 400 ha were native stands, Egypt 40 000 ha, Argentina 35 000 ha, Hungary 23 100 ha, Sweden 16 000 ha (for biomass energy), India 15 000 ha of which c. 8 000 ha were native stands, and Croatia 7 400 ha of which 3 000 ha were native stands.

22. Willow production was used in rural areas for domestic and agricultural purposes and thus was not always recorded. Recorded annual production from Romania was 250 000 m<sup>3</sup>, Argentina 245 000 m<sup>3</sup>, Hungary 46 800 m<sup>3</sup> and Croatia 28 000 m<sup>3</sup>.

23. National Poplar Commissions were generally reported as being active, and as having helped to promote important exchanges of poplar germplasm between member countries of the IPC.

## **VI POPLAR AND WILLOW IDENTIFICATION AND VARIETAL CONTROL**

24. The Chairman of the sub-committee presented a report on developments since the last Session, drawing attention to some weaknesses in the functioning of the present system:

- no country requested preliminary authorisation from the system for the designation of cultivars;
- the existence of the International Catalogue of Poplar Cultivars was known neither to breeders nor to the relevant national authorities for the control of forest reproductive material;
- most National Poplar Commissions did not ensure that the relevant information on new cultivars was transmitted to the relevant national authorities or to the IPC sub-committee;
- there was no connection between the International Catalogue of Poplar Cultivars and other official international registers (e.g. EU, OECD etc.);
- no system for the registration of poplar cultivars existed for non-member countries of the IPC.

## **VII JOINT MEETING OF THE WORKING PARTIES**

25. A joint meeting was held of all the Working Parties. The following papers were presented:

- Poplar as a model tree - keynote address (R. Stettler);
- Willows in the Republic of Argentina (R. Arreghini and T. Cerillo);
- Towards global management of poplar genetic resources (V. Steenackers);
- Technical guidelines for the safe movement of poplar germplasm (J. Ball)
- Value-added utilization of poplar in Hungary (Zs. Kovacs and Gy Szabadhegyi).

## **VIII POPLAR AND WILLOW PROTECTION**

### a) Report of the Working Party on Poplar Diseases

26. The theme of the Working Party meeting was *Diversity among pathogens of poplars and willows and the evolution of their populations*. Professor. Martin Hubbes described different methods of molecular biology to determine diversity among pathogens to representatives of 8 countries who took part in the discussions.

27. Other items raised and reviewed in the meeting of the Working Party were:

- a review of published literature on poplar pathology for the past 35 years has been made for Central Europe by Dr Bohar . This work could now be used as the basis of a study of the distribution of diseases of poplar in Central Europe;
- within the European Union collaboration has already started on the evaluation of the reaction of poplar clones to the main diseases;
- members of the Working Group identified two important diseases for European popliculture, namely *Marssonina brunnea* (as shown by the presence of an aggressive strain attacking stems and branches in Bulgaria and France) and *Discoporium populeum* which has severely attacked clones selected as resistant.

- once again the members of the group identified the problems arising from the transfer of diseases from one continent to another, as has happened in the case of *M. larici-populini* and *M. medusae* in South Africa;

- members of the Group proposed the general theme of *Diversity among pathogens of the poplars and willows* for the meeting in the year 2000. In view of the complexity of this proposed theme the Group elected three Vice-chairmen, namely Professor Hubbes (Canada), the former secretary of the Group, Dr Jean Pinon, (France) and Mme M. Steenackers (Belgium), and confirmed Professor Cellerino (Italy) as Chairman.

b) Report of the Working Party on Poplar Insect Pests

28. Members of the Working Party met and reviewed the threats of methods of pest control to humans and natural ecosystems, the prevention of accidental introduction of poplar pests through the exchange of germplasm between countries, the harmonisation of methodologies for testing genetic resistance to poplar pests and the promotion of exchanges among young scientists through fellowships.

## **IX LOGGING AND UTILIZATION**

29. Forty participants from 16 countries attended the sessions of the Working Party. A general paper on the economic modelling of poplar production and utilization was presented, followed by 11 scientific papers on topics ranging from wood quality of poplars and willows, the production of structural panels, value-added products and harvesting techniques.

30. It was agreed that the evolving field of certification of forest management practices and products would be reported at the next meeting of the Working Party, and that the topic of logging and harvesting should be placed on the agenda of the same meeting.

## **X BREEDING AND SELECTION OF POPLARS AND WILLOWS**

31. Over 50 scientists from 20 countries attended the meetings of the Working Party. Thirty seven technical papers and 12 posters were submitted for discussion and the activities for the following four years were reviewed; co-ordination of activities and the exchange of information between members of the Working Party and with members of the relevant IUFRO Working Party were seen as the most realistic goals. The need for the allocation of more time for future Working Party meetings was discussed as well as improved co-ordination between and within the Working Party.

32. Dr Stefano Bisoffi (Italy) was elected Chairman of the Working Party for the forthcoming period, with Dr Wout Boerjan (Belgium), Dr Khalid Siddiqui (Pakistan) and Dr Teresa Cerrillo (Argentina) as Vice-chairmen.

## **XI BIOMASS PRODUCTION SYSTEMS FOR THE SALICACEAE**

33. Thirty five scientists from 17 countries participated in the sessions of the Working Party. Sixteen papers were presented.

34. The Working Party discussed the title and scope of the group, the need for the integration of all IPC Working Party activities, the importance of intensively managed plantations for the production of industrial wood and biomass, and research and the plantation programmes in Hungary.

## ***XII RECOMMENDATIONS OF THE COMMISSION***

35. Delegates reviewed the recommendations formulated by the subsidiary bodies and, after discussion, adopted the following recommendations:

### Nomenclature and Registration

36. The Secretariat of the IPC was requested to circulate a letter to each of the member countries of the IPC concerning the International Catalogue of Poplar Cultivars, with an example of the

registration form, recalling the responsibilities of the IPC for the registration of poplar cultivars, and the procedures.

37. Each member country of the IPC should, further, be requested to designate a correspondent with responsibility for providing information necessary for registering new cultivars and for co-ordinating with national authorities responsible for the control of forest reproductive material.

38. The Secretariat should examine, in collaboration with the sub-committee, means of involving non-member countries of the IPC in the registration of new cultivars.

39. The coherence of the Catalogue with catalogues published by other organisations should be checked.

### Poplar and Willow Protection

#### a) Diseases

40. The Working Party on Diseases made the following recommendations for their future activities:

- the preparation of a world map of the principal diseases of poplars (and of their clones and races);
- to extend the existing collaboration with the European Union in the evaluation of the reaction of existing clones of poplars to the main diseases to other countries and continents, harmonising the results to make them comparable;
- to make a detailed study of the diversity of the two pathogens *Marssonina brunnea* and *discoporium populeum*.

41. The Working Party proposed to meet only every four years, except in a case of emergency, such as the appearance of a new disease.

#### b) Insect Pests

42. The Working Party on Poplar Insect Pests made the following recommendations on guidelines for its future activities:

- the improvement of methods of pest control in order to reduce threats to humans and to natural ecosystems;
- increased emphasis on methods for the prevention of the accidental introduction of new pests through germplasm exchange, or the introduction of susceptible material that would permit the transformation of presently harmless indigenous phytopathogens into major pests;
- the harmonisation of methodologies for research into genetic resistance to poplar pests, in order to make results comparable between countries;
- the encouragement of young scientists through a system of fellowships.

43. The Working Party recommended to the Secretariat of the IPC that an additional day should be allowed for future Sessions.

### Logging and Utilization

44. The Working Party identified the following research priorities for the group:

- wetwood (causes, problems in processing and prevention);
- tensionwood (formation and utilization);
- biodeterioration of poplar wood, and its prevention.

45. The Working Party identified the subject matter for three Technical Leaflets, to be prepared by members and passed to the Secretariat:

- economics and the modelling of poplar production;
- production, technical characteristics and the utilization of willows;
- production, technical characteristics and the utilization of poplars.

### Breeding and Selection

46. In view of the nature of breeding programmes for improved wood production and other benefits, the Working Party drew the attention of member countries of the IPC to the need for the long-term commitment of adequate funding.

47. The Working Party acknowledged with great satisfaction the actions taken by FAO in following up previous recommendations on the monitoring the status of *P. euphratica* and *P. ilicifolia*. It recommended that active conservation programmes be undertaken on these two species and that a similar effort be extended to other low-latitude species adapted to the warm and dry climates of many sub-tropical countries, especially *P. yunnanensis* and *P. ciliata* in Asia and species of the Aigeiros, Abaso and Tacamahaca sections of poplars in Mexico.

48. While it was recognized that *in situ* conservation was the best strategy for the maintenance of a wide genetic diversity there were nevertheless important and diverse *ex situ* collections of poplar germplasm in many national institutions. Some of this germplasm might no longer be used in one country but might be useful in another, and the Working Party therefore recommended that member countries maintained such collections.

49. The Working Party recommended that special attention was devoted by member countries with long experience in poplar and willow growing to the transfer of knowledge to countries where such culture was relatively new.

50. The Working Party drew the attention of member countries to existing international agreements and to the ongoing debate on breeders' and farmers' rights.

### Biomass Production Systems

51. Members recommended a change in the name of the Working Party, which was subsequently reviewed and agreed in the informal meeting of the new Executive Committee as *Production Systems for*

*Poplars and Willows* (see para. 13). Furthermore, members recommended that a plan

for the integration of all Working Party activities is prepared and presented at the satellite meeting of the IPC planned at the World Forestry Congress in 1997.

52. The Working Party recommended that member countries support programmes for intensively managed and bioenergy plantations of poplars and willows, in the first case to reduce pressure on natural forests and in the second to providing a carbon-neutral source of energy.

53. The Working Party recommended that member countries support Hungary and neighbouring countries in the establishment of poplar and willow plantations on land taken out of agricultural production, with the aid of subsidies if required. Members also recommended that member countries offer support to poplar research programmes in these countries.

### ***XIII ELECTION OF THE EXECUTIVE COMMITTEE, 1997-2000***

54. Twenty candidates were proposed by fifteen member countries for election to the Executive Committee for the period 1997-2000. An election was held by secret ballot involving 26 member country delegates authorised to represent their respective governments (Argentina, Belgium, Bulgaria, Canada, Chile, China, Croatia, Egypt, France, Germany, Hungary, India, Ireland, Italy, Korea (Republic of), New Zealand, Pakistan, Portugal, Romania, Spain, Sweden, Switzerland, the Netherlands, Turkey, UK and USA)

55. The following were elected to the Executive committee for the period 1997-2000: R. Arreghini (Argentina), I. Bach (Hungary), J. Isebrands (USA), E. Noh (Korea, Rep.), A. Padro (Spain), J. Richardson (Canada), W. Shiji (China), V. Steenackers (Belgium), D. Terrasson (France), T. Verwijst (Sweden), H. Weisgerber (Germany), A. Wilkinson (New Zealand). The collection and counting of the votes was scrutinised by F. Gaillard (Switzerland), F. Páscoa (Portugal) and Z. Somogyi (Hungary).

### ***XIV DATE AND PLACE OF THE NEXT SESSION***

56. Delegates were advised that invitations had been received from Chile, the Islamic Republic of Iran and a combined invitation from the USA and Canada to host the 21st Session of the IPC. FAO was requested to approach these countries, and on the basis of their responses, to decide the venue of the next Session.

### ***XV CLOSING OF THE SESSION***

57. Mr Victor Steenackers thanked the hosts for their organization of a most successful meeting and study tour.

Dr Erno Fuhrer, Director-General of the Hungarian Forest Research Institute, referred to the determination of the national forestry sector to continue activities in poplar and willow cultivation and development, in spite of economic difficulties. In closing he thanked FAO and all colleagues and participants for their part in making the meeting a success.



## **ANNEX I(a)**

### ***THIRTY-EIGHTH SESSION OF THE EXECUTIVE COMMITTEE***

***Budapest, Hungary, 1 October 1996***

#### ***PROVISIONAL AGENDA***

1. Opening of the Session
2. Adoption of the Agenda
3. Activities of the Working Parties and Sub-Committee on Nomenclature and Registration of Poplars since the Thirty-seventh Session of the Executive Committee in Turkey in October 1994
4. Proposals for the composition of the Executive Committee for the period 1997-2000
5. Proposals for the date and place of the next session of the Executive Committee
6. Responsibilities of Working Groups
7. Arrangements for the 50<sup>th</sup> Anniversary of the IPC
8. Other matters

## **ANNEX I(b)**

### ***TWENTIETH SESSION OF THE INTERNATIONAL POPLAR COMMISSION AND RELATED SESSIONS***

***Budapest, Hungary, 2-4 October 1996***

#### ***PROVISIONAL AGENDA***

1. Adoption of the Agenda
2. Election of Officers
3. Admission of New Member Nations
4. Environmental and Social Issues in Poplar and Willow Cultivation and Utilization
5. Poplar and Willows: Summary of Statistics and Economics, Cultivation and Silviculture, Policy and Legislation and Operation of National Poplar Commissions
6. Poplar and Willow Identification and Varietal Control
7. Poplar and Willow Protection
8. Poplar and Willow Logging and Utilization
9. Breeding and Selection of Poplars and Willows
10. Biomass Production Systems for Poplars and Willows
11. Election of Members of the Executive Committee for the Four-Year Period (1997-2000)
12. Date and Place of Next Session
13. Other matters

## ANNEX II

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## ANNEX III.A

### **LIST OF PAPERS PRESENTED AT MEETINGS OF SUBSIDIARY BODIES**

#### Logging and Utilisation of Poplar Wood

<u>Number</u>	<u>Title</u>
FO:CIP:N/96/1	Cellulose content and the main characteristics of wood fibre of the <i>Populus euramericana</i> (DODE) Guinier Robusta, RO 16, I-214 and Sacrau-79 obtained in Danube valley and Danube delta, Romania - V.Benea.,V.S.Muntean.
FO:CIP:N/96/2	Producción de tabillas para la fabricación de lápices a partir de rollizos de álamo - A.D.Calderón.
FO:CIP:N/96/3	The comprehensive utilisation of fast growing poplar in wood based panels industry - Y. Hua., D.Zhou., Z.Hong., X.Lu.
FO:CIP:N/96/4	A value added utilisation of poplar in Hungary - Z.S.Kovács., E.Lang., V.Szabadhegyi.
FO:CIP:N/96/5	Wood quality of white willow - A. Leclercq.
FO:CIP:N/96/6	Studies on determination of properties and workability of poplar resulted from natural growing stands and from plantations - C.Nutescu., M.Stan., G.Budáu.
FO:CIP:N/96/7	Particularities of poplar timber drying - research on the effect of air parameters - the best drying conditions - O. Zeleniuc., Ene Neagu.
FO:CIP:N/96/8	Comportamiento de la madera de distintos clones del género <i>Populus</i> L. sometida al tratamiento de vacío-presión con sales hidrosolubles - M.Otano., G.D.Kiel., R.M.Marlats., M.L. Luna.
FO:CIP:N/96/9	Wood properties of Hungarian poplar clones - I.Peszlen., S. Molnar.
FO:CIP:N/96/10	Wood based panels production and poplars utilisation in Hungary - S.Tóth.
FO:CIP:N/96/11	Distribution and quantification of tension wood in poplar shoots - B.Jourez., A. Leclercq.
FO:CIP:N/96/12	Economic return of cultivation of genetically superior poplar clone in Punjab - D.S.Sidhu.
FO:CIP:N/96/13	<i>Salix nigra</i> Marsh.: Modelo estatico para la comparation economica de densidades de plantacion en el delta Bonaerense - G.Denegri., R.M.Marlats.

Poplar Diseases

- FO:CIP:D/96/1 Poplar disease situation in South Africa - N.Anselmi.
- FO:CIP:D/96/2 Diseases on poplar in central Europe - G. Bohàr.
- FO:CIP:D/96/3 An overview of the diseases of poplars including newly introduced ones in Northern India - M.D. Mehrotra., P.C. Pandey.
- FO:CIP:D/96/4 Comportement des cultivars peupliers commercialisables dans L'Union Europeenne vis a vis de quelques parasites majeurs - J.Pinon., A. Valadon.
- FO:CIP:D/96/5 The reaction of two poplar root rot agents to high salt levels - N. Anselmi.
- FO:CIP:D/96/6 AFLP<sup>TM</sup> molecular markers for resistance to *Melampsora larici populina* in poplar - M.T.Cervera., M.Steenackers., V.Strome., J.Gusmão., A.van den Broeck., M.van Montague., W.Boerjan.
- FO:CIP:D/96/7 Absence of pathotypes of *Marssonina brunnea* in Greece - S. Diamandis., C. Perlerou.
- FO:CIP:D/96/8 The influence of some ecological factors on the incidence of *Rosellinu necatrix* Prill - A.Giorcelli., G.Nicolotti., L.Vietto.,G.P.Cellarino.
- FO:CIP:D/96/9 Susceptibility of 25 poplar clones to *Marssonina brunnea* (Ell. et Ev) P.Magn. stem pustules - A.Valadon, V.Breton.
- FO:CIP:D/96/10 Poplar resistance to poplar ulcer disease in Henan province - Y.S.Xiang., R.Goulan., Z.Teming., Y.Wang., S. Ruixiang.

Poplar Insect Pests

- FO:CIP:I/96/1 Entomological research in North American *Populus* and *Salix* : an overview - E.R.Hart., R.R.James., T.E.Nebeker., D.J.Robison., K.F.Raffa., M.A.Wagner.
- FO:CIP:I/96/2 Resistance behaviour to *Phleomyzus passerini* of some recently selected Italian poplar clones - G.Allegro., F.Picco., B.Bianco.
- FO:CIP:I/96/3 Quantitative survey of poplar resistance to Chrysomelid - S.Augustin.
- FO:CIP:I/96/4 *Tiphia popilliavora* protection - A.Hou., F.Hou.,Y.Shun., X.Yang.

FO:CIP:I/96/5 Study on the biological character of *Tiphia popilliavora* - A. Hou., L.Wang., Y.Zhang.

FO:CIP:I/96/6 Nectariferous and polleniferous plant species special for *Tiphia popilliavora* - A.Hou., G.Zhoa., F.Wang.

FO:CIP:I/96/7 *Lisothrips crassipes* Jabl. poplar pest in Northeastern Croatia - B.Hrasovec., O.Lovas.

FO:CIP:I/96/8 Volatile attractivity of ash leaf maple (*Acer negundo* L.) to *Anoplophora glabripennis* Motsch - Y.Luo., J.Huang., J.Wang.

FO:CIP:I/96/9 Evaluation of infestations by the poplar clearwing moth *Paranthrene tabaniformis* Rott. - L.G.Moraal

FO:CIP:I/96/10 Status of insect pests of poplars in Hungary - J.Tóth

#### Poplar Breeding

FO:CIP:BR/96/1 Status of *Populus euphratica* and proposals for its conservation - J.Ball., L.Russo., L.Thomson.

FO:CIP:BR/96/2 Caractéristiques phénotypiques des ressources génétiques peupliers autochtones (*Populus alba* L., *Populus x canescens* Sm., *Populus nigra* L., *Populus tremula* L.) - M.Filat., V.Benea.

FO:CIP:BR/96/3 Communities of *Populus nigra* and *Salix alba* along watercourses - importance, dangers, preservation strategies using the Eder floodlands in Germany as an example - H.Holzberg., H.Weisgerber.

FO:CIP:BR/96/4 DNA polymorphism and genetic differentiation of *Populus cathayana* - K.Li., M.Huang., H.Li., Q.Zhouge., H.Pan., Z.Yang., M.Wang., F.Huang.

FO:CIP:BR/96/5 Study on origin of *Populus tomentosa* Carr. - K.Y. Li., M.R.Huang H.X.Pan., Q.Zhuge., H.G.Li., M.X.Wang.

FO:CIP:BR/96/6 The genetic variability and phylogenetic relationship of *Populus ussuriensis* Kom. and its relatives - X.Su, Q.Zhang., W.Zhang., Z.Bian., L.Zsuffa., D.Lin.

FO:CIP:BR/96/7 Population structure of *Salix viminalis* L. in the west part of its range - J.Thorsen.

FO:CIP:BR/96/8 Micropropagation de *Populus* sp. en mendoza - J.A.Bustamante.

FO:CIP:BR/96/9 Application of anther culture method for poplar improvement in Hungary - L.E.Heszky., J.Kiss., J.Gergác., K. Mázik -Tökei.

FO:CIP:BR/96/10 Protoplast regeneration from different explants sources of *Populus* sp. - L.Ionita.



- FO:CIP:BR/96/11 Biodegradable plastic production from poplars by biotechnology - Noh Eun Woon., Lee Jae Soon., Lee Jae Hwa., Han Mu Seok., Noh Eui Rae.
- FO:CIP:BR/96/12 Marcadores RAPD para la identificación de especies de *Populus* - N.Sanchez., J.M.Grau., A.Bueno.
- FO:CIP:BR/96/13 Use of RAPD to estimate hybridisation in *Salix alba* and *Salix fragilis* - L.Triest., B.de Greef., R.de Bond., D.van den Bossche., M. d'Haeseleer.
- FO:CIP:BR/96/14 Predisposition to decline of some poplar clones in relation to drought resistance - N.Anselmi., G.P.Cellerino., G.Nicolotti., P.Puccinelli
- FO:CIP:BR/96/15 Etudes \_cophysiologicalue dans les cultures des osiers et des peupliers - I. Catrina.
- FO:CIP:BR/96/16 Mejoramiento de sauces para el delta argentino - resultados preliminares de nuevas progenies - T. Cerrillo.
- FO:CIP:BR/96/17 Precautions in exchange of *Populus* germplasm - J.P.Chandra.
- FO:CIP:BR/96/18 Study on plant regeneration from *Populus deltoides* Bartr explant transformed with *Bacillus thuringiensis* toxin gene - Y.Chen., L.Li., Y.Han., Y.Tian.
- FO:CIP:BR/96/19 Genotype specific differences in drought tolerance of poplars in relation to abscisic acid - S.Chen., S.Wang., A.Altmann., A.Hüttermann.
- FO:CIP:BR/96/20 Effect of NaCl on three poplar genotypes: I. growth responses - L.E. Fung., S.Wang., A.Altmann., A.Hüttermann.
- FO:CIP:BR/96/21 Effect of NaCl on three poplar genotypes : II. Uptake of Cl<sup>-</sup>, Na<sup>+</sup> and Ca<sup>2+</sup> ions - L.E.Fung., H.Ma., S.Wang., A.Altmann.,A.H\_ttermann.
- FO:CIP:BR/96/22 Salicin - a new objective in willow breeding - K.Gebhardt., H.Weisgerber.
- FO:CIP:BR/96/23 The relationship between first order branch characteristics and growth, stem forms for *Populus deltoides* x *Populus euramericana* F1 clones - L.Hougen., H.Minren., W.Mingxiu.
- FO:CIP:BR/96/24 Photosynthesis of *Populus euphratica* in saline soil - H.Ma., L.Fung., S.Wang., A. Altmann, A. Hüttermann.
- FO:CIP:BR/96/25 Efecto de la temperatura yel contenido de humedad en la germinacion de semillas de sauce - H.Maroder., M.E.Urrutia., G.Facciuto., T.Cerrillo.
- FO:CIP:BR/96/26 Populetum Mediterraneum : informe de actividad - G. Mughini M.de los Angeles Gras.
- FO:CIP:BR/96/27 Breeding and conservation of genetic resources of black poplar (*Populus nigra* L.) in Turkey - F.Toplu.
- FO:CIP:BR/96/28 Results of poplar breeding in Hungary - B.Tóth

- FO:CIP:BR/96/29 Does response lag indicate drought tolerance in poplar clones ? - H.Xinsheng., W.ShiJi.
- FO:CIP:BR/96/30 Studies on growth of double cross clones of *Populus tomentosa* Carr. - M.Yang., B.Pei., F.Zhang., Z.Zhu.
- FO:CIP:BR/96/31 Cold tolerance variance of *Populus cathayana* Rehd. clones from different populations - Z.Yang., S.Wang., Y.Han.
- FO:CIP:BR/96/32 Research advance in insect resistant breeding - H.Yifan.
- FO:CIP:BR/96/33 A comparative study on growth and photosynthetic activity of different kinds of poplar seedlings - W.Yin.
- FO:CIP:BR/96/34 A study on the relation between the seasonal changes of peroxidases activity and growth of poplar terminal buds - W.Yin.
- FO:CIP:BR/96/35 A comparative study of growth of leaf, stem and root of different kinds of poplar seedlings - W.Yin.
- FO:CIP:BR/96/36 Sapflow rate, stomal resistance and photosynthetic rate of two poplar clones grown under elevated CO<sup>2</sup> levels - W.Yin., R.Ceulemans., I.Impens., S.Wang., X.Chen., X. Jiang.
- FO:CIP:BR/96/37 Establishment of saline tolerant cell lines of *Populus x xiaozhuanica* cv. 'Popularis-39' and the induction of somaclonal variant plant - Q.Zhang., W.Zhang.
- FO:CIP:BR/96/38 Genetic variation within *Populus ilicifolia* Roleau. - P.Oballa., D.Meroka., B.Wambui., S.Wakori.
- FO:CIP:BR/96/39 The study of genotype x environment interaction on poplar clones - I.Bach.
- FO:CIP:BR/96/40 Comparison of the growing characteristics of some poplar clones on a large scale growing trial on the flood area of the river Tisza - G.Bagaméry., Z.S.Oláh., I.Bach.
- FO:CIP:BR/96/41 Biometrical performances of the *Populus x euramericana* (Dode) Guinier, *Populus deltoides* Bartr and *Populus trichocarpa* Torr & Gray clones obtained in the main tributary valleys of the Danube river - V.Benea., M.Filat., L.Contescu.
- FO:CIP:BR/96/42 Des clones de peuplier performants en sols Hors vallee - P. Bonduelle.
- FO:CIP:BR/96/43 Estudio sobre comportamiento de clones de *Populus* sp. en la localidad de Villa Atuel, Mendoza - A.D.Calderon., R.I. Arreghini.
- FO:CIP:BR/96/44 Ensayos de comparación de clones de chopo en la ribera del Río Carrión, provincia Palencia - H.M.G.Corbi., G.C.Bachiller., F.G.Antonanzas., J.L.Montoto.

FO:CIP:BR/96/45 Requerimiento de riego y producción de madera del *Populus x euramericana* cv. I-214 - N.Riu., R.I.Arreghini., N.Ciancaglioni.

#### Biomass Production Systems for the Salicaceae

- FO:CIP:BS/96/1 Studies on poplar cultivating techniques in short rotation period for papermaking timber - W.Jiuling., Z.Xin., X. Zuebing.
- FO:CIP:BS/96/2 Studies on the biomass increase and distribution law for high quality poplar clones - S.Li., Y.Zhang., S.An.
- FO:CIP:BS/96/3 Poplars as biological energy sources - B. Marosvölgyi., L.Halupa., I.Westergom.
- FO:CIP:BS/96/4 Modelling biomass production of hybrid poplar - L.B. Szendrödy.
- FO:CIP:BS/96/5 Selection of aborescent willow clones suitable for biomass production in Croatia - N.KomlenoviΦ, A. KrstiniΦ., D.Kajba.
- FO:CIP:BS/96/6 Poplar growing as an alternative form of land use - L.Erdös.
- FO:CIP:BS/96/7 Poplar cultivation under agroforestry - B.C.Joshi.
- FO:CIP:BS/96/8 Study on characteristics of water consumption of agroforestry - P.Meng., J.Zhang., Z.Song.
- FO:CIP:BS/96/9 Using bioeconomic modelling for the design and evaluation of characteristic agroforestry systems - T.H.Thomas., R.W.Willis.
- FO:CIP:BS/96/10 Poplars for farmers - an economist's view - T.Thomas., R.Willis., J.Winterbourne
- FO:CIP:BS/96/11 Ensayos de cultivares de alamos con potencial agro-silvopastoril en la zona arida y semiarida central de la Republica Argentina - L.M.F. Vergara Avalos.
- FO:CIP:BS/96/12 Influencia de las tecnicas de cultivo en el crecimiento y producción de choperas en la cuenca del duero plantadas a raiz profunda - F.G. Antonanzas., J.M.G.Corbi., J.L.M.Quinteiro.
- FO:CIP:BS/96/13 On the growing features of Hungarian poplar varieties and their timber yield - E.Gabnai., B.Tóth.
- FO:CIP:BS/96/14 Relationship between forest and groundwater - Z.Jaró ., J. Sitkey.

#### Miscellaneous

- FO:CIP:MISC/96/1 Experiences on poplar growing in N E Hungary - G.Kovács.
- FO:CIP:MISC/96/2 Salicáceas en la recuperación de la navegabilidad del Río Bio Bio -E.J.Matthei.

- FO:CIP:MISC/96/3 Approaching poplar's functions in the improvement of environment in China's three north shelterbelt system - S.Wang.
- FO:CIP:MISC/96/4 Willows in the Republic of Argentina - R.Arreghini., T.Cerrillo.
- FO:CIP:MISC/96/5 Environmental aspects of the Sambro-Meuse poplar culture - P.Mertens.
- FO:CIP:MISC/96/6 Establecimiento de *Salicaceas* en distintos mallines de la provincia de Santa Cruz - P.Peri.
- FO:CIP:MISC/96/7 The specific of the principal forest station of the space existence of poplars - C.Rosu., F.Danescu., A.Surdu.
- FO:CIP:MISC/96/8 Poplars and willows for soil erosion control in New Zealand - A.G. Wilkinson.

## ANNEX III.B

### LIST OF POSTERS

- ANSELMI, N.; SABATTI, M.; SCARASCIA MUGNOZZA. G . Pathological problems of *Populus alba* in Italy
- ANSELMI, N.; SABATTI, M.; SCARASCIA MUGNOZZA. G. Rust susceptability of genotype collection of poplar natural populations from USA semiarid zones (Italy).
- BABOS, K.; ZSOMBOR, F. Les variétés du peuplier homologués en Hongerie, les candidats de la variétés du peuplier et un résumé de leurs qualité du bois (Hungary)
- BARTHA, D. Necessity of the establishment of a white poplar seed orchard in Hungary.
- BASTIEN, C.; SCHNEIDER, C.; LAINÉ, F.; LEFÈVRE, F.; ROZENBERG, P.; VILAR, M. Breeding poplars for wood density : intra- and interspecific variability in a 9x9 factorial mating design involving *Populus deltoides* (Bartr.) and *Populus trichocarpa* Torr & Gray (France).
- BIAN XUEYU.; HAN YIFAN. The breeding methods of poplar pulpwood clones (China).
- BIAN XUEYU.; HAN YIFAN. A study on the mechanism of variant poplar clones resistance to *Bactocera horsfieldi* (China).
- CALAGARI, M.; MODIRRAMATI, A.M.; HEMMATI,A. The ecological study *Populus euphratica* Oliv. in the margin river of Khuzistan province (Iran).
- CASAUBON, E.A.; GURINI, L.B.; RAMOS, G. Productividad de *Populus deltoides* en el delta del Río Parana (Argentina).
- CHEN YING.; LI QIANG.; LI LING.; HAN YIFAN. Western blot analysis of transgenic *Populus nigra* plants transformed with *Bacillus thuringiensis* toxin gene (China).
- CORTIZO, S.; COLOMBO,N. Identification of poplar and willow clones using RAPD markers (Argentina).
- DANUER. M. Actual problems in the Hungarian forest policy (Hungary).
- DEPLANQUE, A.; AUGUSTIN, S. Transgénèse et résistance des peupliers aux insectes (France)
- GARAU, A.; BERRONDO, G.; ABBIATTI, N.; DELFINO, S.; CORTIZIO, S. Discriminant characteristics in poplar clones (Argentina).
- GEBHARDT, K. Preservation of black poplars by means of embryo rescue (Germany).

- GENNARO, M.; GIORCELLI, A.; NICOLOTTI, G.; CELLERINO, G.P. Morphological and epidemiological differences between *Melampsora larici-populina* races E1 and E3 in Italy.
- GUARNASCHELLI, A.; GIMENEZ, R.; BASCIALLI, M. Effects of defoliation in willow nurseries (Argentina).
- HASSELL WENDELL, G. Steps for successful pole plantings along stream and riparian areas in dry climates (USA).
- HU XINSHENG.; LIU JIANWEI.; WANG SHIJI. Comparison of the net photosynthesis rate of four poplar clones at different temperature and humidity regimes (China).
- HUANG MINREN.; PAN HUIXIN.; RUAN XIGEN.; LI HUOGEN. Variation of wood properties of cottonwood, *Populus deltoides* (China).
- JAFARI, A.; MODIRRHMETI, A. R.; HEMMATI, A. Plant regeneration from haploid cell suspension derived callus of *Populus nigra* I.42/78 (Iran) .
- KUHN, G. A. The stinger: a tool to plant pole cuttings through rock riprap for riparian or shoreline erosion control (USA).
- MAGNI, C.D.; MATTHEI, E. J. Aspect of *Salicaceae* growing located in Bio-Bio river (Chile).
- MALVOLTI, M. E.; BERITOGNOLO, I.; SPADA, M.; CANNATA, F. Isozyme and RAPD variation in Italian natural populations of *Populus tremula* L. (Italy).
- MENARD, M.; STEENACKERS, M. Further data on differential interactions between strains of *Xanthomonas populi* and clones of poplar (France, Belgium).
- MICHIELS, B.; STEENACKERS, M. Actual poplar breeding programme at the Institute for Forestry and Game Management (Belgium).
- MICHIELS, B.; STEENACKERS, M.; VAN SLYCKEN, J.; MEIRESONNE, L. Two new Belgian poplar clones 'Hoogvorst' and 'Hazendans' (Belgium).
- MODIRRHMETI, A. R.; HEMMATI, A.; JAFARI, A. Selection poplar clones for biomass production in short rotation periods in Iran. (Iran).
- PAN HUIXIN.; HUANG MINREN.; RUAN XIGEN.; LI HUOGEN. Genetic correlation analysis on wood properties of new poplar clones *Populus deltoides* x *P.simonii* (China).
- PAN HUIXIN.; RUAN XIGEN.; HUANG MINREN.; LI HUOGEN. Genetic parameter estimation of wood properties of new poplar clones *P. deltoides* x *P.simonii* (China).
- PAN HUIXIN.; RUAN XIGEN.; HUANG MINREN.; LI HUOGEN. Determination of poplar wood density by X-radiation (China).
- PEDROTTI, P.; PAGANINI, F. Italian poplar glued laminated timber (Italy).



- SCARASCIA-MUGNOZZA, G.; SABATTI, M; MATTEUCCI, G.; CAPRIOLI, C.; LARBI, H.; KUZMINSKY, E. Water stress effects on growth and physiology of poplar clones (Italy).
- STEENACKERS, V. Towards a global management of poplar genetic resources - poplar breeding and photoperiodism (Belgium).
- QIANG ZHUGE.; MIREN HUANG.; HUIXIN PAN.; HUOGEN LI.; WEIZHONG FENG. Chemical characteristics and formation mechanism of poplar wet heartwood (China).
- TANG QIAN.; WANG SHIJI.; ZHANG XIANWU. An analysis of random amplified polymorphic DNA for individuals from three poplar species and F1 (China).
- TIAN YINGCHUAN.; LI TAIYUAN.; MANG KEQIANG.; HAN YIFAN.; LI LING.; WANG XUEPIN.; LU MENNGZHU.; DA LIANYUN.; HAN YINONG.; YAN JINGJUN.; GABRIEL DEAN, W. Insect tolerance of transgenic *Populus nigra* plants transformed with *Bacillus thuringiensis* toxin gene (China, USA).
- VAVARO, L.; FABBI, A.; ANSELMINI, N. Bacteria involved in trunk scabs of white poplars (Italy).
- VRIES de, S.M.G. It is a breeder's right ....! (Netherlands).
- WANG KESHENG.; BIAN XUEYU.; LI SHUMEI.; TONG YONGCHAN.; HAN YIFAN. Analysis effect and stability of the regional test of *Populus x euramericana* clones (China).
- WANG KESHENG.; BIAN XUEYU.; LI SHUMEI.; TONG YONGCHAN.; HAN YIFAN. The selection and breeding of super poplar clones as fibre timber resistant to *Bactocera horsfieldi* Hope. (China).
- WANG KESHENG.; HAN YIFAN. Study on the inheritance and correlations of wood quality characteristics of *Populus x 'Popularis'* improved clones (China).
- WANG KESHENG.; HAN YIFAN. Genetic variation in growth and wood properties and multiple traits selection of poplar clones (China).
- WANG KESHENG.; LI SHUMEI.; TONG YONGCHAN.; HAN YIFAN.; REN JIANGZHONG.; ZHENG ZHILI. Heterosis of *Populus x 'Popularis'* improved hybrids F1 cluster analysis for clones according to genetic distance (China)
- WANG SHIJI.; LIU YARONG.; LIU JIANWEI.; LENG GUOYOU.; ZHOU SHULI. Study on the effects of tree growth of soil covering and green manuring in the reclaimed area (China)
- WANG SHIJI.; LIU YARONG.; LIU JIANWEI.; ZHOU SHULI.; QIN DEREN.; LENG GUOYOU. The accumulation of poisonous elements in *Populus x euramericana*, *Salix matsudana*, *Ulmus pumila* and *Robinia pseudoacacia* growing on coal ash 'soil' (China).



- WANG SHIJI.; LIU YARONG.; LIU JIANWEI.; XI GANGYING.; LENG GUOYOU.; ZHOU SHULI. Study on soil management model for poplar plantations in Huabei coal mine collapsed area (China).
- WANG SHIJI.; LIU YARONG.; LIU JIANWEI.; ZHANG JIANGUO.; LENG GUOYOU.; ZHOU SHULI. Study on the effect of fertilisation on the growth of *Populus x euramericana* in reclaimed area by coal ash (China).
- WANG SHIJI.; LIU YARONG.; LIU JIANWEI.; ZHANG JIANGUO.; LENG GUOYOU.; ZHOU SHULI. Study on nutritional diagnosis of *Populus x euramericana* in reclaimed area by coal ash (China).
- WANG YING.; HUANG MINREN.; LI HUGEN.; PAN HUIXIN.; ZHUGE QIANG. Plant regenerated from mesophyll protoplasts of cottonwood new clone (China).
- YANG ZIXIANG.; WANG TAIZHEN.; HAO HONG.; KANG ZHONGXIN.; JIANG YONGFAN. Relationship between canker tolerance and spring freezing tolerance of poplar clones (China).

## ANNEX IV

### **NATIONAL REPORTS AND ANSWERS TO QUESTIONNAIRES ON THEME SENT TO THE SECRETARIAT**

1. National reports on activities related to poplar and willow cultivation, exploitation and utilization 1993-1996
2. Questionnaire replies on the theme of the 20th Session of the IPC "Environmental and Social Issues in Poplar and Willow Cultivation and Utilization"

#### Countries

Argentina	1, 2
Austria	
Belgium	1, 2
Bulgaria	
Canada	1, 2
Chile	1, 2
China	1
Croatia	1, 2
Egypt	1, 2
France	1, 2
Germany	1, 2
Hungary	1, 2
India	1
Iran	1
Iraq	
Ireland	
Italy	1, 2
Japan	

Korea	1, 2
Lebanon	
Morocco	1, 2
Netherlands	1
New Zealand	1, 2
Pakistan	1
Portugal	1, 2
Romania	1
South Africa	1
Spain	1, 2
Sweden	1, 2
Switzerland	1, 2
Syria	
Tunisia	
Turkey	1
U.K.	1
U.S.A.	1
Yugoslavia	

1.