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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

**TECHNICAL WORKING PARTY  
FOR  
ORNAMENTAL PLANTS AND FOREST TREES****Nineteenth Session  
Wageningen, Netherlands, July 16 to 18, 1986**

REPORT

adopted by the Technical Working Party for  
Ornamental Plants and Forest Trees

Opening of the Session

1. The nineteenth session of the Technical Working Party for Ornamental Plants and Forest Trees (hereinafter referred to as "the Working Party") was held in Wageningen, Netherlands, from July 16 to 18, 1986. The list of participants appears in Annex I to this report. Meetings of subgroups on pelargonium (zonal, ivy-leaved) and on show and fancy pelargonium were held in the same place on July 15, 1986.

2. Mr. F. Schneider (Netherlands) welcomed the participants in the name of the Director at the Government Institute for Research on Varieties of Cultivated Plants (RIVRO) at Wageningen. The session was opened by Mr. B. Bar-Tel, Chairman of the Working Party.

Adoption of the Agenda

3. The Working Party unanimously adopted the agenda for its nineteenth session as reproduced in document TWO/XIX/1, after having agreed to delete under item 11 the sub-items (iii) Chrysanthemum, (iv) Dieffenbachia, (vii) Iris, (xi) Pyracantha and (xiii) Roses.

#### Reports on Special Developments in Plant Variety Protection

4. After short accounts had been given by some experts on some more recent developments in their countries, the Working Party had a lengthy discussion on how to cope with the financial constraints to which most of the member States were at present exposed. As a result of the discussion, Mr. Bar-Tel will prepare a questionnaire to collect information for the preparation of a document on improving the efficiency of variety testing, for discussion during the next session of the Working Party.

#### Important Decisions Taken During the Twenty-First Session of the Technical Committee

5. The Working Party went through the report of the previous session of the Technical Committee (document TC/XXI/7), and discussed certain paragraphs in detail.

#### Invitation of Experts Nominated by Professional Organizations to Sessions of the Working Party

6. The Working Party noted paragraph 17 of document TC/XXI/7, reproducing the decision of the Technical Committee to invite experts nominated by professional organizations to certain parts of the Technical Working Party sessions, and also the recommendation to hold joint meetings with technical experts from professional organizations in connection with sessions of the Working Party. The Working Party finally agreed to ask the Technical Committee to be allowed to invite technical experts nominated by professional organizations not only to sessions of the Working Party itself but also to meetings of subgroups at which working papers on Test Guidelines were prepared. As the Working Party was one that dealt with so many different species, and as many breeders were experts only in one species, the travel of technical experts to attend only a very short part of the meeting might in several cases not be financially justifiable. The Working Party therefore proposed that the professional organizations should be informed every year of the place of the meetings of the Technical Working Party to be held in that year, so that they would have the possibility of nominating experts from the country in which the respective session was to take place or at least living close to the meeting place. In addition, the Working Party would in future make more use of technical experts from governmental institutes or organizations or other national bodies to improve the quality of the discussions on certain species or subjects. As no technical experts from the professional organizations had been invited for the present session, partly owing to the short period left following their nomination, the Working Party agreed that in future, when establishing the program for forthcoming sessions, it would at the same time discuss for what species it would be preferable to invite technical experts from professional organizations or other bodies.

#### Testing of Distinctness

7. The Working Party noted paragraph 21 of document TC/XXI/7, and agreed with the Technical Committee's view that "..... when one candidate variety was considered not to be homogeneous because of the existence of off-types, those off-types should be considered as distinguishable from the candidate variety and should be accepted as a further new variety for which protection was granted if all other conditions for protection were fulfilled."

### New Means of Exchanging Technical Information Informally at an Early Stage

8. The Working Party noted paragraph 35 of the same document, which gives information on the possibility of exchanging technical information informally at an early stage via the distribution lists as at present used for the distribution of reports of the Technical Committee and the Technical Working Parties.

### Negative List Indicating Characteristics That Should Not be Used for a Given Group of Varieties Inside a Species Covering Several Different Groups

9. The Working Party noted paragraph 36 of document TC/XXI/7, and agreed to discuss the possibility of a negative or positive list of characteristics in connection with the discussions on the draft for revised Test Guidelines for Apple.

### Plant Variety Protection and Virus Diseases

10. The Working Party noted paragraph 52 of document TC/XXI/7. It noted that in the Federal Republic of Germany it had not been necessary to take a decision on the subject with respect to six applications for pelargonium varieties, as the varieties had not been homogeneous. As the Working Party did not have enough background information, it postponed its discussion to a later date.

11. The expert from France reported that in his country material of carnation sent in with the application for protection had in future to be virus-free. For a three-year transitional period, applications for protection would not be rejected if the material had been infected, but no test would be made with infected material.

### Application of Gas Chromatography for the Testing of Varieties

12. The Working Party noted paragraph 56 of document TC/XXI/7 and document TC/XXI/9, which give information on the application of gas chromatography for the testing of varieties in Japan. It furthermore noted that in Belgium, for the testing of rhododendron sinisi, the use of high-pressure liquid chromatography (HPLC) was envisaged. In France the same method was under study for carnation.

### Standard Test Guidelines

13. The Working Party noted paragraphs 46 and 47 of document TC/XXI/7 and document TC/XXI/8. After a first preliminary discussion, the Working Party decided to discuss those standard Test Guidelines in connection with the discussion of the working papers or drafts for Test Guidelines to be discussed during the current session. As a result of these discussions, the Working Party agreed on the following:

(i) Subject of the Test Guidelines to read: "These Test Guidelines apply to all varieties of .... (the botanical name to follow)."

(ii) Conduct of Tests: For vegetatively propagated pot plants, there are no replicates as each pot is already a replicate by itself. Thus the sentence on the minimum number of plants should read: "As a minimum, each test should include a total of .. plants."

For tree varieties, the sentence on the removal of plants or plant parts and on separate plots should be deleted.

(iii) Methods and Observations:

(a) The paragraph on the minimum sample size should read: "All observations should be made on .. plants or parts of .. plants."

(b) The paragraph on colors should read: "Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of a day in a room facing north. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in British Standard 950, Part I. These determinations should be made with the plant part placed on a white background."

(iv) The heading of Chapter V should read: "Grouping of Varieties."

Final Discussion on Draft Test Guidelines

Test Guidelines for Apple

14. The Working Party noted documents TC/XXI/7, paragraph 36, TWF/XVII/10, TWO/XIX/6, TWO/XIX/17 and TWO/XIX/18. The Working Party based its discussion on document TWO/XIX/18, and made the following main changes to that document:

(i) Subject of the Test Guidelines: The second sentence should read: "A single combined table of characteristics has been drawn up for all three variety groups indicating in front of each number of the characteristics the variety group or groups for which the respective characteristic is considered important for distinctness." In the remaining part, the word "type" should always be replaced by "group," and in paragraph 3 the first sentence should read: "It is not always possible to assign a variety to a particular variety group."

(ii) Material required: (b) of paragraph 1 to read: "Two trees, at least two but not more than four years old, on a rootstock which should be named when the plant material is supplied. The competent authorities may prescribe the rootstock on which the variety should be grafted."

(iii) Conduct of Tests: The paragraph should read as follows: "The test should be carried out under conditions ensuring normal growth. As a minimum, each test should include a total of

- (a) two trees for fruit varieties,
- (b) four trees for ornamental varieties, or
- (c) twenty-five one-year-old rooted shoots for rootstock varieties.

Individual plots necessary for special purposes should be grown according to specific requirements."

(iv) Methods and Observations: In paragraph 4, the words "organs of" should be deleted; in paragraph 5, the words "at least" should be placed after the word "completed;" in paragraph 7, the word "central" should be replaced by "middle," and paragraph 14 should be deleted.

- (v) To have the heading "Grouping of Varieties."
- (vi) To have the description of the variety groups placed before the indication of the asterisk under the legend.

(vii) Table of Characteristics:

Characteristics

1b, 1c, 49b, 49c, 61b, 61c, 64b, 65b, 65c, 66b to be re-included

21, 39, 40, 53, 68, 69, 74, 77 to receive an indication "O" without an asterisk; the experts from the United Kingdom will indicate example varieties for these characteristics, if possible, before the end of October

24, 38 to have the explanation deleted

88 to receive an additional example variety "Evereste" for state 9

(viii) Literature: Literature indicated in document TC/XXI/4 on pages 12 and 13 concerning apples would be included under Chapter XI.

(ix) Technical Questionnaire: Under paragraph 1, the breeder would be asked to indicate whether his variety was intended for use as a fruit variety, ornamental variety or rootstock.

Test Guidelines for Christmas Cactus, Easter Cactus and Their Hybrids

15. The Working Party noted documents TWO/XIX/7 and TWO/XIX/16. In view of the completely new proposal contained in document TWO/XIX/16, the Working Party agreed not to enter into detailed discussions but to ask the experts from Denmark to prepare two separate working papers for the next session, one for Test Guidelines for Christmas Cactus and another for Test Guidelines for Easter Cactus.

Test Guidelines for Impatiens, Busy Lizzie

16. The Working Party noted documents TWO/XIX/8 and TWO/XIX/13, and made the following main changes in document TWO/XIX/8:

(i) Subject of the Test Guidelines: The Test Guidelines would apply to "New Guinea Hybrid Impatiens arrived at from Impatiens hawkeri Bull x Impatiens linearifolia Varb."

(ii) Conduct of Tests: The temperatures for the growing would be "at the beginning of culture for six weeks 20/18°C, ventilation as from 22°C, thereafter 17/14°C, ventilation as from 19°C;" the last sentence but two of section III should read: "As a minimum, each test should include a total of 20 plants."

(iii) Methods and Observations: Paragraph 4 should read as follows: "All observations should be made on ten plants or parts of ten plants."

(iv) To read: "Grouping of Varieties."

In paragraph 2, the color "bright red" should be replaced by "red."

(v) Table of Characteristics:Characteristics

- 5 to have the numbering of states checked
- 7 to have the additional example variety "Paula (7)"
- 9 to have the additional example varieties "Astro, Dawn (3)"
- 11 to be deleted and replaced by the characteristic reading as follows: "Leaf blade: color of lower side between veins" with the states "green (Eva, Zenith)," red (Nova, Twilight)"
- 20 to be deleted

(vi) Literature: The expert from the Federal Republic of Germany will indicate the literature to be included.

(vii) Technical Questionnaire: Characteristic 13 should be included under paragraph 5.

Test Guidelines for Juniper

17. The Working Party noted document TWO/XIX/9, and made the following main changes in that document:

(i) Subject of the Test Guidelines: The expert from the Netherlands will indicate a list of species to be included under that subject by the end of September.

(ii) Conduct of Tests: The paragraph should read as follows: "The test should be carried out under conditions ensuring normal growth. As a minimum, each test should include a total of eight plants. Individual plots necessary for special purposes should be grown according to specific requirements."

(iii) Table of Characteristics:Characteristics

- 1 to have the example varieties "Juniperus virginiana 'Glauca' (3), Skandia (11), Juniperus horizontalis 'Glauca' (13)"
- 5 to have the last state read "drooping"
- 23 to have the states "only scale-shaped, scale-shaped and needle-shaped, only needle-shaped"; the experts from Denmark will check the new wording

(iv) Explanations on the Table of Characteristics: The experts from Denmark will check where the drawings had been taken from, to ascertain whether the permission of the author had to be obtained before publication.

(v) Literature: The following literature would be included under Section IX:

G. Krüssmann, 1983: "Handbuch der Nadelgehölze," Paul Parey Verlag, Berlin, DE

M.G. Eiselt, Schröder, R., 1974: "Nadelgehölze," Neumann Verlag

Rodger Phillips, 1980: "Das Kosmosbuch der Bäume," Kosmosgesellschaft der Naturfreunde, Francksche Verlagsbuchhandlung, Stuttgart, DE

Rodger Phillips, 1978: "Trees in Britain, Europe and North America," Pan Books Ltd., London, GB

The experts from the Netherlands will indicate further literature.

(vi) Technical Questionnaire: In paragraph 1, the breeder will be asked to indicate the species to which the variety belongs.

#### Test Guidelines for Elatior Begonia (Revision)

18. The Working Party noted document TWO/XIX/10 and comments given orally by the expert from the Federal Republic of Germany. It eventually made the following main changes in the document:

(i) Subject of the Test Guidelines: The Test Guidelines would apply to varieties of Begonia Elatior hybrids (Syn.: Begonia x hiemalis Fotsch).

(ii) Methods and Observations: In paragraph 4, the words "organs or" have to be deleted.

(iii) Section V to have the heading "Grouping of Varieties."

(iv) Table of Characteristics.

#### Characteristics

6, 10, 19, 22, 24, 26 to be deleted

13 to have the Notes "1, 3, 5, 7, 9"

40 to have the additional example variety "Schwabenland Rot (2)"

(v) Literature: The expert from the Federal Republic of Germany to indicate the literature to be included under that section.

#### Revision of the UPOV Model for a Report on Technical Examination

19. The Working Party noted documents TC/XXI/6 and TC/XXI/7, paragraphs 43 to 45, and the result of the discussions held on this subject by the Technical Working Parties on Automation and Computer Programs, for Agricultural Crops and for Vegetables as summarized in Annex II to this report. It agreed to the information indicated in that summary with the following exceptions:

(i) On the form, the breeder should be requested to indicate first the botanical name of the taxon and then the common name.

(ii) The asterisk from the UPOV Test Guidelines should not be repeated on the form.

(iii) All characteristics should be indicated on the form, including those not tested.

(iv) The grouping should be maintained, as in the ornamental field internationally accepted classifications which were no characteristics were often used.

(v) The Working Party wished to state that in its field of competence the UPOV Test Guidelines were applied in their entirety and that national authorities would not use any national characteristics in addition to those mentioned in the UPOV Test Guidelines.

(vi) The Working Party proposed to the Technical Committee that the reference number of the testing authority should be repeated on each page of the report.

#### List of Reference Books and Documents

20. The Working Party noted document TC/XXI/4, which contains a draft list of reference books and documents. It asked its members to check the list and to inform the Office of the Union before the end of September 1986 of any corrections or additional books actually used in variety testing. The Working Party proposed to the Technical Committee that once books were mentioned in the Test Guidelines, they should be deleted from the main list.

#### Items for the Technical Working Party on Automation and Computer Programs

21. The Working Party had no special items to be presented to the Technical Working Party on Automation and Computer Programs.

#### Color Charts

22. The Working Party noted documents TC/XXI/5 and TC/XXI/7, paragraphs 48 to 50, and a letter from Japan which is reproduced in Annex III to this report.

23. The Working Party expressed its gratitude for the efforts made to reprint the RHS Colour Chart. It recalled that already in the past there had been slight differences between various copies of the RHS Colour Chart depending how often a certain copy had been used. Those differences would also appear when the reprinted RHS Colour Chart was compared with some older copies still used by the competent authorities. However, different color charts could only have the effect that in other cases a reference collection would have. For the final decision on distinctness, the different varieties would always have to be compared with one and the same copy of the color chart.

24. The Working Party declared itself content with the reprinted RHS Colour Chart, and would not make any plans in the immediate future for further studying the question of colors and any possibilities for improving the RHS Colour Chart or preparing any other color chart.

25. The Working Party noted that in the Federal Republic of Germany work was under way on the preparation of groups of colors within the RHS Colour Chart in an empirical way, for the purpose of screening varieties by computer. The Working Party asked the expert from the Federal Republic of Germany to prepare a short explanation on that grouping, and to circulate the list of grouping of numbers of the RHS Colour Chart, or a part of that list, via the Office of UPOV to the members of the Working Party by the end of the year. Comments on the grouping list should be sent to Mrs. Löscher (Federal Republic of Germany) by the end of February 1987 with a view to the preparation of discussions on the question during the coming session of that Working Party.

Discussion on Working Papers on Test GuidelinesTest Guidelines for Alstroemeria (Revision)

26. The Working Party noted documents TG/29/3 and TWO/XIX/15, and made the following main changes in document TWO/XIX/15:

- (i) Conduct of Tests: The tests should be conducted in natural light.
- (ii) Methods and Observations: Ten observations should be made; all observations should be made at flowering time; observations on the flower should be made at desiccation of first anthers.
- (iii) Grouping of Varieties: Characteristic 14 should be used for grouping varieties.
- (iv) Table of Characteristics:

Characteristics

- all characteristics should receive an asterisk
- 2 to read: "Stem: length"
- 5 the newly included characteristic to read: "Stem: density of foliage" with the states "sparse, medium, dense"
- 10 to have the example variety for state 7 corrected to read: "Alstroemeria Ligtu Hybrids"
- 14 to read: "Flower: main color"
- 15 to have the example variety amended to read: "Alstroemeria aurantiaca D. Don ex Sweet (3)"
- 16 to have the example variety amended to read: "Alstroemeria brasiliensis Spreng. (3)"
- 19 not to have the words "of the blade" added
- 26 to have the words "central part" replaced by "middle zone"

Test Guidelines for Begonia Tuberhybrida

27. The Working Party noted document TWO/XIX/3, and made the following main changes in that document:

- (i) Material Required. The material to be sent in should be
  - "(a) vegetatively propagated varieties: 50 dormant tubers with a diameter of at least 3 cm;
  - (b) seed reproduced varieties: 125 mg of seed for each year of test."

- (ii) Conduct of Tests. "Each test should include a total of
- (a) 50 plants for vegetatively propagated varieties, and
  - (b) 200 plants for seed reproduced varieties, which should be divided between two or more replicates."

(iii) Methods and Observations:

Paragraph

- 1 to have the last incomplete sentence deleted
- 3 to read: "For vegetatively propagated varieties, a test should normally be conducted for one growing period. For seed reproduced varieties, the minimum duration of test should be at least two years. If distinctness and/or homogeneity cannot be sufficiently established in the above-mentioned period(s), the test should be extended for another growing period."
- 6 to read: "Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of a day in a room facing north. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in British Standard 950, Part I. These determinations should be made with the plant part placed on a white background."

(iv) Table of Characteristics:

Characteristics

- 28 to read: "Bract: cross section" with the states "flat, concave"
- 36 to have the states: "type 1, type 2, type 3, type 4" with drawings to be reproduced under Chapter VIII
- 45 to receive an asterisk

(v) Literature: The expert from Belgium to indicate literature to be indicated under that chapter.

(vi) Technical Questionnaire: After paragraph 5.7, variety groups, still to be indicated by the expert from Belgium, should be included.

(vii) The expert from Belgium will prepare before the end of September 1986 drawings and indicate further example varieties. The document should then be sent, as well as to the usual professional organizations, also to the Begonia Society of the United Kingdom and to Belgian professional organizations, the addresses still to be given by the experts from the United Kingdom and Belgium respectively.

Test Guidelines for Gladiolus

28. The Working Party noted document TWO/XIX/4, and made the following main changes in that document:

(i) Conduct of Tests: The planting time should be "at the end of April or in November, depending on the testing place;" the fertilization should be "old manure ...;" and the last part of the last paragraph of this chapter should read: "As a minimum, each test should include a total of 20 plants. Separate plots for observation and for measuring can only be used if they have been subject to the same environmental conditions. Individual plots necessary for special purposes should be grown according to specific requirements."

(ii) Methods and Observations: Paragraph 5 should be amended in the same way as the corresponding paragraph in the Test Guidelines for Tuberous Begonia Hybrids.

(iii) Table of Characteristics:

Characteristics

- 6 to receive the example varieties "Eurovision (1), Hanna (2)"
- 22 to have the word "blotched" replaced by "maculate;" the corresponding changes will have to be made in all cases where the words "blotched" or "blotch" appear in the Test Guidelines
- 23 to have the word "lobe" replaced by "segment"
- 35 to read: "Median outer segment of perianth: border of macule" with the states "blurred, medium, sharp"
- 44 to be amended in the same way as 35
- 56 to have the states "irregular, in a interrupted band, in an uninterrupted band"
- 64 to have the word "stoma" replaced by "stomium"
- 70 the expert from the Netherlands to give example varieties

(iv) Literature: The expert from the Netherlands to complete the information on literature before the beginning of September 1986.

Test Guidelines for Show and Fancy Pelargonium

29. The Working Party noted document TWO/XIX/5 as well as an additional list of example varieties distributed during the present session. It finally made the following main changes in the document:

(i) Subject of the Test Guidelines: "The Test Guidelines apply to Pelargonium grandiflorum hort. non Willd. (Syn. P. x domesticum L. H. Bailey, P. grand. hort. non Willd.) which are arrived at by multiple crossing of Pelargonium grandiflorum and Pelargonium cucullatum (L.) L'Hérit. ex Ait."

(ii) Conduct of Tests: The last paragraph should be deleted.

(iii) Methods and Observations: Paragraph 4 should read: "All observations should be made at the time of full flowering on ten plants or parts of ten plants." Paragraph 5 should be amended in the same way as mentioned for the Test Guidelines Begonia tuberhybrida above (see paragraph 27(iii)).

(iv) Table of Characteristics:Characteristics

- 2, 3, 4, 5, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25 to receive an asterisk
- 5 to receive the Notes "1, 3, 5, 7, 9" and explanations
- 15 to read: "Petal: intensity of undulation"
- 20, 25 to receive at the end the additional word "part"
- 26 to have the asterisk deleted

(v) Literature: To have the following literature included:

Maatsch et al, 1977: "Pelargonien", Verlag Paul Parey, Berlin, Hamburg, DE

Steib, Th. et al, 1981: "Topfpflanzenkulturen," Verlag Eugen Ulmer, Stuttgart, DE

(vi) Technical Questionnaire: In paragraph 5.3, characteristic 25 and not characteristic 26 should be mentioned.

(vii) The expert from the Federal Republic of Germany will supply drawings and additional example varieties. Thereafter the document would be sent, as well as to the usual professional organizations, also to the Zentralverband Gartenbau in the Federal Republic of Germany and to the Pelargonium Society, the latter address to be indicated by the expert from the United Kingdom.

Test Guidelines for Pelargonium (Zonal, Ivy-leaved) (Revision)

30. The Working Party noted document TWO/XIX/11 and a list of additional example varieties distributed during the present session, and made the following main changes in that document:

(i) Subject of the Test Guidelines: The Test Guidelines will apply to all vegetatively propagated varieties of Pelargonium zonale hort. non (L.) L'Hér. ex Ait., Pelargonium peltatum hort. non (L.) L'Hér. ex Ait. (Syn. Pelargonium x hortorum L. H. Bailey) and hybrids obtained from crossings between these species.

(ii) Material Required: As a minimum, the following quantity of plant material should be recommended: "15 young plants as in commerce, in peat cubes, not cut back." As the document applies only to vegetatively propagated varieties, all references to seed propagated varieties were deleted. In the last but one sentence of paragraph 1, the words "Pelargonium Virus I" were replaced by "virus."

(iii) Conduct of Tests: The beginning of the chapter should read as follows: "The tests should be carried out under conditions ensuring normal growth. They should be made for varieties of zonal pelargonium preferably under glass and for varieties of ivy-leaved pelargonium in the open.

"Mother plant: The plant material sent in in the beginning of October (Northern Hemisphere) should be planted in 12 cm pots and should be pinched after three weeks.

Multiplication: Beginning of January (Northern Hemisphere) (20 plants)"

The temperature should be "at propagation 20°C, after planting 18 to 20°C, after good rooting 16 to 18°C." The last paragraph of this chapter should be deleted.

(iv) Methods and Observations: Paragraph 4 should read: "All observations should be made on ten plants or parts of ten plants." Paragraph 5 should be incorporated in paragraph 7, which should read: "All observations on the whole plant, on the inflorescence, on the flower bud and on the flower should be made on the second inflorescence of the strongest stem at full flowering of the plant." In paragraph 6, the words "starting point" should be replaced by "base."

(v) Table of Characteristics:

Characteristics

- |          |  |
|----------|--|
| 8        | to have the first state read "whitish"   |
| 24       | to have the states 1 and 9 deleted   |
| 25       | to have the Notes changed into "1, 3, 5, 7, 9"   |
| 26       | to have the states 1 and 5 deleted and the remaining states given the Notes "3, 5, 7"          |
| 30       | to have the word "distinctness" replaced by "conspicuousness"                                  |
| 34       | to be deleted  |
| 36       | to have the words "of margin" added at the end   |
| 46       | to read: "Pedicel: color in middle third" with the states "green, light red, dark red, violet" |
| 53       | to have the word "number" replaced by "overlapping"  |
| 57 to 74 | to have the word "petals" put in the singular  |
| 69       | to have the word "distinctness" replaced by "conspicuousness"                                  |
| 70       | to have the word "spot" replaced by "zone"   |
| 74       | to have the word "distinctness" replaced by "conspicuousness"                                  |

(vi) Explanations on the Table of Characteristics: The expert from the Federal Republic of Germany will prepare a new drawing for characteristic 35 and re-do the drawing at the end of that chapter indicating the upper and lower petals.

(vii) Literature: The following literature should be included under this chapter:

Maatsch et al, 1977: "Pelargonien," Verlag Paul Parey, Berlin, Hamburg, DE

"Rassenlijst Pelargonium 1984/85, Nr. 33, 1985," Proefstation voor de Bloemisterij in Nederland, NL

The Australian Geranium Society, 1978: "A Check List and Register of Pelargonium Cultivar Names," Part I

van der Walt, J.J.A., 1979: "Pelargonien des südlichen Afrika," Copyright Fischer GmbH & Co, KG, Hillscheid, DE

The experts from the Netherlands will indicate further literature.

(viii) Technical Questionnaire: In paragraph 1, the breeder will be asked to specify whether his variety belongs to Pelargonium zonale, to Pelargonium peltatum or to the hybrids of these.

#### Status of Test Guidelines

31. The Working Party agreed that the draft Test Guidelines for Impatiens, Busy Lizzie, for Juniperus and for Elatior Begonia (revision) should be sent to the Technical Committee for final adoption.

32. The Working Party agreed that the Test Guidelines for Apple should be presented with comments to the Technical Working Party for Fruit Crops and could thereafter be presented to the Technical Committee for final adoption.

33. The Working Party agreed that the draft Test Guidelines for Alstroemeria (revision), for Begonia Tuberhybrida, for Gladiolus, for Show and Fancy Pelargonium and for Pelargonium (zonal, ivy-leaved) should be sent to the professional organizations for comments after the information still missing had been included.

34. The Working Party agreed that the Test Guidelines for Christmas Cactus and for Easter Cactus, and also the working papers on Test Guidelines for Hydrangea, for Norway Spruce, for Rhododendron (revision), for Tulip and for Weigela, which owing to lack of time could not be discussed during the current session, would have to be discussed or rediscussed during the coming session.

#### Future Program, Date and Place of Next Session

35. At the invitation of the expert from Israel, the Working Party agreed to hold its twentieth session in Israel, near Jerusalem, from March 23 to 26, 1987. As during the current session almost all the experts of the Working Party participated in the subgroups, the Working Party decided to hold no subgroup meetings in connection with its next session but rather to extend the session by a further day. A subgroup on Roses might meet at a different date and place, depending on the preparation of a working paper for revised Test Guidelines for Roses. The session will start on March 23, 1987, at 9.30 a.m. and will close on March 26 at noon. It is planned that the following items will be discussed at that session:

- (i) Reports on special developments in plant variety protection
- (ii) Important decisions taken during the twenty-second session of the Technical Committee
- (iii) Standard Test Guidelines
- (iv) Final discussion on draft Test Guidelines for:
  - Alstroemeria (revision)
  - Begonia tuberhybrida
  - Christmas Cactus
  - Easter Cactus

- Gladiolus
  - Show and Fancy Pelargonium
  - Pelargonium (zonal, ivy-leaved)
- (v) Revision of the UPOV model for a report on technical examination
- (vi) List of reference books and documents
- (vii) Items for the Technical Working Party on Automation and Computer Programs
- (viii) Color charts
- (ix) Improving efficiency in variety testing
- (x) Discussion on working papers on Test Guidelines for:
- Chrysanthemum (revision)
  - Carnation (revision)
  - Dieffenbachia
  - Exacum
  - Hydrangea
  - Iris (bulbous)
  - Norway Spruce
  - Pyracantha
  - Rhododendron (revision)
  - Roses (revision)
  - Spathiphyllum
  - Tulip
  - Weigela

### Visits

36. On the morning of the second day, the Working Party visited the Institute for Horticultural Plant Breeding at Wageningen, where they were given information on the breeding of chrysanthemum, roses, carnation and lily and where they saw the collections and trials, mainly for carnation and lily. On the afternoon of the second day, the Working Party visited the Flower Select company near Wageningen, where they received information and watched the propagation of gerbera by meristem in-vitro culture. The Working Party also saw a short video film and slides prepared by INRA on the testing of varieties, and discussed the possibilities of these facilities for the exchange of further information on testing and/or on certain varieties.

37. This report, in the absence of any suggestions for modifications, is considered as adopted, in accordance with Rule 37(5) of the Rules of Procedure of the Council.

[Three Annexes follow]

## ANNEX I

LIST OF PARTICIPANTS IN THE NINETEENTH SESSION OF THE  
TECHNICAL WORKING PARTY FOR ORNAMENTAL PLANTS AND FOREST TREES,  
WAGENINGEN, NETHERLANDS, JULY 16 TO 18, 1986

I. MEMBER STATESBELGIUM

Mr. J. HAEGEMANN, Rijksstation voor Sierplantenteelt, 21 Caritasstraat,  
9230 Melle (tel. 091-521052)

DENMARK

Mr. O.V. CHRISTENSEN, Institute of Glasshouse Crops, Kirstinebjergvej 10,  
5792 Aarslev (tel. 9 991766)

Mr. K. KRISTIANSEN, Institute of Glasshouse Crops, Kirstinebjergvej 10,  
5792 Aarslev (tel. 9 991766)

FRANCE

Mr. F. FERRERO, INRA/GEVES, Domaine la Baronne, B.P. 55, 06702 St. Laurent  
du Var (tel. 093 31 15 12)

GERMANY (FED. REP. OF)

Mrs. U. LOESCHER, Bundessortenamt, Osterfelddamm 80, 3000 Hannover 61  
(tel. 0511 5704206)

ISRAEL

Mr. B. BAR-TEL, Department for Seed Research, Agricultural Research Organi-  
zation, Volcani Centre, P.O.B. 6, Bet Dagan 50250 (tel. 980485)

Mrs. A. GRAMA-DROSEA, Department for Seed Research, Agricultural Research  
Organization, Volcani Centre, P.O.B. 6, Bet Dagan 50250 (tel. 980485)

ITALY

Dr. T. SCHIVA, Istituto Sperimentale per la Floricoltura, Corso degli  
Inglese 508, 18038 San Remo (Imperia) (tel. 0039-184-88 49 44)

NETHERLANDS

- Mr. F. SCHNEIDER, RIVRO, Postbus 32, 6700 AA Wageningen (tel. 08370-19056)
- Mr. C.J. BARENDRECHT, RIVRO, Postbus 32, 6700 AA Wageningen  
(tel. 08370 19056)

SPAIN

- Dr. J.M. ELENA ROSSELLO, Jefe del Registro de variedades, Instituto Nacional de Semillas y Plantas de Vivero, José Abascal 56, 28003 Madrid  
(tel. 0034 1 441 8199, telex 47698 INSM E)

UNITED KINGDOM

- Mr. A.J. GEORGE, Ornamental Plants Section, NIAB, Huntingdon Road, Cambridge  
CB3 0LE (tel. 0223/276381)

II. OFFICER

- Mr. B. BAR-TEL, Chairman

III. OFFICE OF UPOV

- Dr. M.-H. THIELE-WITTIG, Senior Counsellor, 34, chemin des Colombettes,  
1211 Geneva 20, Switzerland (tel. 022 99 91 52)

[Annex II follows]

## ANNEX II

Revision of the UPOV Model for a Report on Technical Examination

1. Having examined documents TWC/IV/12, TWC/III/13, Annex III, TC/XX/6 and TC/XX/7, paragraph 43 to 45, the TWC finally agreed to recommend the following to the Technical Committee (see document TWC/IV/13 Prov., paragraphs 24 to 31):

(i) At the top of the table of characteristics, information on the following should be requested:

- species (Latin and common name)
- breeder's reference
- variety denomination
- application number
- reference number assigned by the testing authority
- testing authority
- testing place
- period of testing (19.. to 19..)
- date of preparation of the documents
- UPOV Test Guidelines (document No. and date)
- space for national Test Guidelines (date)
- applicant

It would have to be decided whether items that are not fixed (applicant, application number of requesting authority) should be placed on a different sheet or at the very top of the form.

(ii) In the Table of Characteristics of Annex II to document TC/XXI/6, the following should be amended:

- There should be a small column for brief remarks or for a reference to longer remarks to be contained in a footnote.
- National numbers of characteristics should be placed in a separate column and do not need to be specially marked.
- Additional national characteristics should not be placed after the UPOV characteristics, but in the natural sequence, as the main use of the form would still be for national purposes.
- States should not be indicated by the mere marking of a box
- The asterisks from the UPOV Test Guidelines should be repeated on the form.
- The grouping characteristics should also have their characteristic numbers if any.
- Characteristics not observed should not be mentioned.
- Most experts thought that inapplicable characteristics should nevertheless be mentioned.

Some experts warned against overloading the form with too much information.

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2. The TWC agreed that fairly comprehensive information on each characteristic observed should be included in an exchange of variety descriptions between member States. Most experts considered that it would not be useful to include all states of expression in the form used for that purpose, as it would become too long (see document TWC/IV/13 Prov., paragraph 29).

3. The TWA and TWV agreed to almost all of the proposals made by the TWC reproduced in paragraph 1 of this document, with the exception of the following (see documents TWA/XV/7 Prov., paragraph 25, and TWV/XIX/27 Prov., paragraph 13):

(i) The grouping characteristics at the front of the Table of Characteristics should be deleted as they are repeated in the Table itself (TWA).

(ii) The Working Party did not take a decision on whether all characteristics should be included in the List of Characteristics or only those which had been observed. Some member States were in favor of all characteristics, others were only in favor of those observed (TWA).

(iii) The name of the testing authority should not be included (TWV).

(iv) Whole states of expressions of characteristics should be included, but the Working Party left member States to decide at their discretion whether or not to include boxes for states which could just be marked (TWV).

(v) Similar varieties should be understood to mean those most closely resembling varieties, and the difference should be described in words as in the present model (see document TWV/XIX/27 Prov., paragraph 13) (TWV).

[Annex III follows]

LETTER FROM THE SEEDS AND SEEDLINGS DIVISION,  
AGRICULTURAL PRODUCTION BUREAU, TOKYO, JAPAN, OF JULY 1986,  
ADDRESSED TO THE OFFICE OF THE UNION

I am writing you this letter to make my position on the color charts clear and to make possible contribution for further improvements on this important subject.

First of all, I welcome the reprinting of RHS Colour Chart, which I was informed of at the last session of the Technical Committee. Also I wish to express my deep appreciation for the effort to reprint it made by the Flower Council of Holland and others concerned.

Secondly, through the reprinting of the RHS Colour Chart we are being able to overcome the urgent problem, that is, the possible shortage of the Colour Chart widely used for DUS tests. On the other hand, if we seek for more universal color chart, which might be called "UPOV Color Chart", I think that we should continue to study for the improvement of the existing color charts, especially on the following points, or at least that we have to keep in mind those points for the future study.

1. Could each color chip of the colour chart be specified through the international standard of the color classification e.g. the notation of the Munsell System?

If so, everybody would have easy and objective access to specify each color, and we would have no problems to reprint the color chart in future.

2. Is there any room to improve the color distribution of the present colour chart?

In my opinion, we should study more scientific distribution of the color based on systematic approach as well as rather empiric one.

Thirdly, in my country JHS Colour Chart has been favorably noticed and used by breeders as well as examiners, because each color name is clearly described and arrangement of color chips is rather systematic and convenient for use. Also, JHS Colour Chart has its convertibility from and into RHS Colour Chart through the appendix table. Therefore, we continue to use JHS Colour Chart in Japan.

Lastly I would like to ask you to distribute the copy of this letter in the next session of the Technical Working Party for Ornamental Plants and Forest Trees.

Thank you very much in advance.

Sincerely yours,

伊藤 洋

Hiroshi Ito  
Deputy Director  
Seeds and Seedlings Division  
Agricultural Production Bureau  
1-2-1 Kasumigaseki,  
Chiyoda-ku, Tokyo,  
JAPAN

[End of Annex III and of document]