



# **Index seminum**

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# INDEX SEMINUM

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University Botanic Gardens  
Utrecht,  
The Netherlands

No. 34 - 1992

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UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3828

**University Botanic Gardens  
P.O. Box 80.162  
3508 TD Utrecht  
The Netherlands**

**Index Seminum No. 34 - 1992**

Staff:

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Arie Oudijk,  
Deputy Director  
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Jan Tolsma,  
Curator  
Bert J.W. van den Wollenberg, M.Sc.,  
Curator

**Educational Department:**

Jaap Vos, M.Sc.,  
Education officer

The gardens are located at:

- Utrecht: Fort Hoofddijk (University center)
- Doorn: Von Gimborn Arboretum

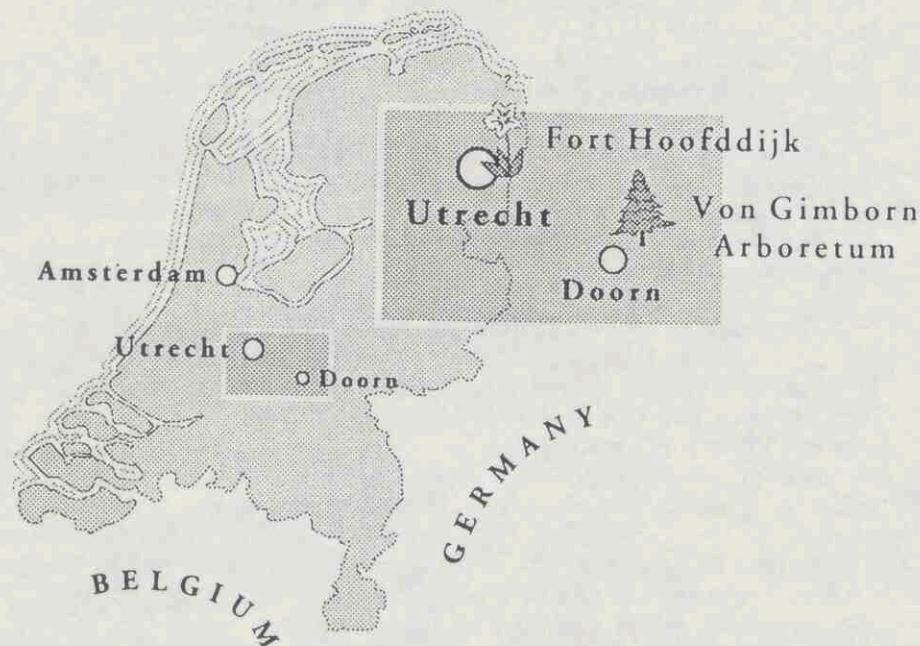
Notes on ordering:

Correspondents are asked to use the order-form provided, and send it to the address mentioned upon it. Furthermore, they should check with their own authorities concerning import-regulations and include any necessary permits with their order.

**Only requests reaching us before May 1, 1993 will be handled in sequence of entry. Order-forms which will reach us after that date will not be handled! Our Fax no. is .. 31 30 535177.**

Situation and climate:

Geographical position of the Main Garden..	52° 06' N : 5°11' E
Altitude.....	2 m above sea level
Mean daily minimum of the coldest month.....	- 0,6°C
Mean daily maximum of the warmest month.....	+ 21,6°C
Highest temperature.....	+ 36,8°C *
Lowest temperature.....	- 24,8°C *
Average rainfall.....	803 mm



\* Monitored since 1849

## Introduction

With the presentation of our Index Seminum 1992 we take the opportunity, as usual, to inform you on the latest developments concerning the Botanic Gardens of Utrecht University.

In april last year, we welcomed Arie Oudijk as a new member of staff. He will fulfil the vacancy of Deputy Director.

Within the Educational Department, Hanneke Potters has left us to take up teaching in Biology.

In may of this year, a thorough change in lay-out of the public entrance was completed, including an Information Desk and a Garden Shop. Several volunteers were prepared for a task as host, who are now running the Garden Shop and Information Desk at the entrance of Fort Hoofddijk, our Main Garden.

Many activities have been started in Education: two different courses were organized for training guides (conducting tours through the Gardens), most of which are students in Biology. All the activities with volunteers and students are very rewarding and we are very pleased with such generous support.

Another feature was a drastic change in opening hours: for the first time in their history, Utrecht Botanic Gardens are now open to the general public seven days of the week in the period april - october. For the time being, during the winter period, the Main Garden remains closed in the weekend.

In november 1992 we published a completely updated edition of our Catalogue of Plant Collections. The Biology Faculty of Utrecht University enabled this by generous financial support. New in this Catalogue is the supply of the WCMC (World Conservation Monitoring Centre) - codes. By sending our records in electronic (ITF-)form to the Botanic Gardens Conservation International, our database was screened on rare and endangered plants.

The Catalogue has been sent to many Botanic Gardens and Institutions. Curators who are interested, but have not received this Catalogue yet, are invited to send their request to us.

In november and december, one of the curators, Mr. Van den Wollenberg, was enabled to participate in a 5-week collecting trip

to Guyana, led by Mrs. A.R.A. Görts of the Institute for Systematic Botany of Utrecht University. The financial support for this was again supplied by the Biology faculty. On this trip, seeds of about 180 plant species were collected, and some of these have been included in this Index Seminum.

Vijko P.A.Lukkien, M.Sc.,  
General Director.

Utrecht Botanic Gardens are developing specializations on the following groups and taxa:

-Flora of the Neotropics: Flora of the Guianas, with special emphasis on:

Gesneriaceae	Zingiberaceae
Orchidaceae	

-Annonaceae (Research Collection)

-Conifers (esp. Tsuga)

-Broad-leaved hardy trees and shrubs:

Aceraceae	Betulaceae	Ericaceae
Euonymus	Laburnum	Magnolia
Oleaceae (esp.: Fraxinus and Syringa)		

-Alpines

-Crassulaceae (Research Collection)

-selected woodland plants (Arisaema, Arisarum & Trillium)

-Penstemon

-Lecanopteris

These specializations are given extra attention regarding verification, nomenclature, wild source material, etc.

Note: In view of the evaluation of the policy regarding Garden Specializations, which is still in progress, this survey will undergo some changes in the near future.

We are especially interested in material from natural sources of the groups and taxa mentioned above. We have a cooperation with gardens with identical specializations. If you are interested, please contact us and we will provide additional information.



Fig. 1: *Pleuropetalum darwinii* J.D.Hook. (Amaranth.)

Aceraceae

1. G I 00ZG00986 *Acer cappadocicum* Gled. subsp. *lobelii* (Ten.) De Jong
2. G I 00ZG00968 *Acer maximowiczianum* Miq.
3. G I 00ZG00997 *Acer micranthum* Sieb. & Zucc.
4. G I 61RD00559 *Acer tataricum* L. subsp. *tataricum*

Agavaceae

5. G I 73GR00695 *Phormium tenax* J.R. & G.Forst.

Amaranthaceae

6. S I 74GR00319 *Pleuropetalum darwinii* J.D.Hook.  
[HVDW 178]. Galapagos Islands.

Annonaceae

7. S S 83GR00360 *Annona glabra* L. [STOLZE s.n.].  
USA, Florida, Sebastian River, 3  
Km. W. of Wabasso.

Apiaceae

8. G I 90ZE00290 *Ammi majus* L.

Aquifoliaceae

9. G I 61RD00653 *Ilex pedunculosa* Miq. var. *pedunculosa*

Araceae

10. G I 68GR00913 *Nephthytis afzelii* Schott

Asclepiadaceae

11. G I 80RD00057 *Periploca sepium* Bunge
- Asteraceae
12. S I 92BL00068 *Ageratum conyzoides* L. [WOLB 91-040]. Sikkim, Yaksum, Alt.: 1750 m
13. G I 74ZS00027 *Aster divaricatus* L.
14. G I 66BL00162 *Aster porteri* A.Gray
15. S I 88GR00053 *Chaptalia ignota* Burkart Argentina, Iquazu, Las Orquideas.

Brassicaceae

16. G I 69BL00165 *Alyssum murale* Waldst. & Kit.

Bromeliaceae

17. G I 68GR00110 *Aechmea bracteata* (Sw.) Griseb.
18. G I 75GR00042 *Puya mirabilis* (Mez) L.B.Sm.

Caesalpiniaceae

19. E I 92GR01387 *Caesalpinia bonduc* (L.) Roxb. [JJDG 11708]. Guyana, Abary Region, along Atlantic Ocean.
20. G I 60GR00164 *Cercis siliquastrum* L.

Campanulaceae

21. S I 90BL00367 *Campanula sabatia* De Not. Italia, Altopiano delle Manie (SV); coll.: 88-08-03, Alt.: 300m.

Cannaceae

22. S S 89GR00010 *Canna indica* L. [WOLB 88-001].  
Nepal, near village Phalenksangu,  
along Annapurna Trail on steep slope  
to river, Alt.: 700 m.
23. S S 76GR00106 *Canna paniculata* Ruiz & Pav.  
[PLKENN 5700]. Peru, dept. Huanu-  
co, Puente Durand, Alt.: 1000 m.
24. S I 80GR00287 *Canna tuerckheimii* Kraenzl.  
[MAAS 4796]. Ecuador, Allurquin  
area, between Sto. Domingo de los  
Colorados and Quito, mountain  
forest, Alt.: 850 m.

Capparaceae

25. G I 91GR01779 *Cleome gigantea* L.

Caryophyllaceae

26. G I 83BL00090 *Dianthus knappii* (Pant.) Aschers. &  
Kanitz ex Borb.

Celastraceae

27. S I 77RD00142 *Tripterygium regelii* Sprague &  
Takeda Korea Sorok National Park.

Cneoraceae

28. G I 75GR00134 *Cneorum tricoccon* L.

Cyclanthaceae

29. G I 68GR00859 *Carludovica palmata* Ruiz & Pav.



Fig. 2: *Curatella americana* L. (Dillen.)

Dilleniaceae

30. E I 92GR01551 *Curatella americana* L. [GOERTS s.n.]. Guyana, S.Rupununi, between Dadanawa & Lethem.

Ericaceae

31. G I 00ZG00034 *Kalmia angustifolia* L.  
32. G I 00ZG01222 *Kalmia latifolia* L.  
33. G I 68RD00023 *Leucothoe walteri* (Willd.) Melvin  
34. G I 00ZG00037 *Pieris floribunda* (Pursh ex Sims)  
Benth. & J.D.Hook.  
35. G I 00ZG00097 *Rhododendron canadense* (L.) Torr.  
36. G I 00ZG01146 *Zenobia pulverulenta* (Bartr. ex Willd.) C.Pollard

Euphorbiaceae

37. G I 78GR00256 *Phyllanthus juglandifolius* Willd.

Fabaceae

38. E I 92GR01382 *Canavalia maritima* (Aubl.) Thou. [GOERTS 206]. Guyana, Hope Beach, along Atlantic Ocean.  
39. G I 84RD00451 *Chamaecytisus supinus* (L.) Link  
40. S I 72ZE02110 *Lathyrus clymenum* L. Mediterranean.  
41. S I 71ZE00834 *Lathyrus odoratus* L. Italy, Sicily.  
42. G I 79ZE00331 *Ornithopus sativus* Brot. subsp. *sativus*  
43. G I 56ZE02112 *Tetragonolobus purpureus* Moench

Fumariaceae

44. G I 54ZE02436 *Corydalis sempervirens* (L.) Pers.



Fig. 3: *Salvia patens* Cav. (Lam.)

Gentianaceae

45. S I 57ZE00818 *Centaurium erythraea* Rafn subsp. *erythraea* Czechoslovakia, S. Bohemia, Sobeolv Alt.: 500 m  
46. G I 65BL00002 *Gentiana asclepiadea* L.  
47. G I 85BL00235 *Gentiana verna* L. subsp. *tergestina* (G.Beck) Hayek

Geraniaceae

48. G I 61ZE00881 *Erodium cicutarium* (L.) L'Herit. ex Ait. subsp. *cicutarium*

Gesneriaceae

49. G I 65BL00453 *Ramonda myconi* (L.) Rchb.

Iridaceae

50. G I 77BL00409 *Iris magnifica* Vved.  
51. G V 68GR00728 *Lapeirousia laxa* (Thunb.) N.E.Br.  
52. G I 91GR00557 *xPardanca norrisii* L.Lenz

Lamiaceae

53. G I 79ZE00338 *Ocimum basilicum* L.  
54. G I 65ZE00307 *Salvia patens* Cav.  
55. S I 84GR00273 *Scutellaria speciosa* Epling [MAAS 5962]. Peru, Dept. San Martin, road Tarapoto - Juanjui, km 25, dry forest, collected from type location.  
56. G I 66BL00015 *Teucrium arduini* L.

Liliaceae

57. S I 80GR00248 *Bomarea edulis* (Tussac) Herb.  
[L&G455] Suriname, Kabelebo area,  
along Barieba Creek.
58. G I 65BL00271 *Veratrum nigrum* L.

Lythraceae

59. U I 87ZE01477 *Cuphea procumbens* Ortega

Magnoliaceae

60. G I 00ZG00065 *Liriodendron tulipifera* L.  
61. G I 00ZG01142 *Magnolia hypoleuca* Sieb. & Zucc.  
62. G I 00ZG00209 *Magnolia tripetala* (L.) L.  
63. G I 00ZG01144 *Magnolia virginiana* L.

Malvaceae

64. G I 63ZE00846 *Anoda cristata* (L.) Schlechtend.  
65. G I 69GR00169 *Gossypium arboreum* L.  
66. S I 80ZS00010 *Malva moschata* L. France (Doubs),  
Chaffois, along the road, limestone,  
Alt.: 850 m  
67. S I 83ZE00353 *Malva neglecta* Wallr. Germany,  
Kreiss Oschersleben, Wulferstedt.  
68. S I 67GR00037 *Malvastrum coromandelianum* (L.)  
Garcke [JCL s.n.] Brazil.  
69. G I 68GR01510 *Pavonia praemorsa* (L.f.) Cav.  
70. G I 73ZS00033 *Sidalcea neomexicana* A.Gray var.  
*parviflora* (Greene) Roush  
71. E I 92GR01495 *Urena lobata* L. [GOERTS 455].  
Guyana, Santa Mission area, Aratak  
Mission.

Mimosaceae

72. G I 68GR00723 *Acacia farnesiana* (L.) Willd.

Myricaceae

73. G I 87BL00481 *Myrica gale* L. var. *tomentosa* C.DC.

Myrtaceae

74. S I 81GR00017 *Psidium cattleianum* Sabine [JCL s.n.]. Brazil, Rio Grande do Sul, campos.

75. G I 75GR00144 *Syzygium paniculatum* Banks ex Gaertn.

Onagraceae

76. S S 80GR00318 *Fuchsia paniculata* Lindl. [MAAS 4985]. Panama, Chiriqui Mt. wood near Guadeloupe, 2 km N. of Cerro Punta, coll. 80-10-21 Alt.: 1800 m.  
77. G I 53ZE00879 *Godetia purpurea* (Curt.) G.Don  
78. G I 90GR00304 *Ludwigia octovalvis* (Jacq.) Raven subsp. *octovalvis*

Papaveraceae

79. G I 64BL00209 *Meconopsis betonicifolia* Franch.

Phytolaccaceae

80. G I 69GR00291 *Hilleria latifolia* (Lam.) H.Walt.  
81. G I 72ZS00029 *Phytolacca clavigera* W.W.Sm.  
82. G I 68GR00888 *Rivina humilis* L. var. *humilis*

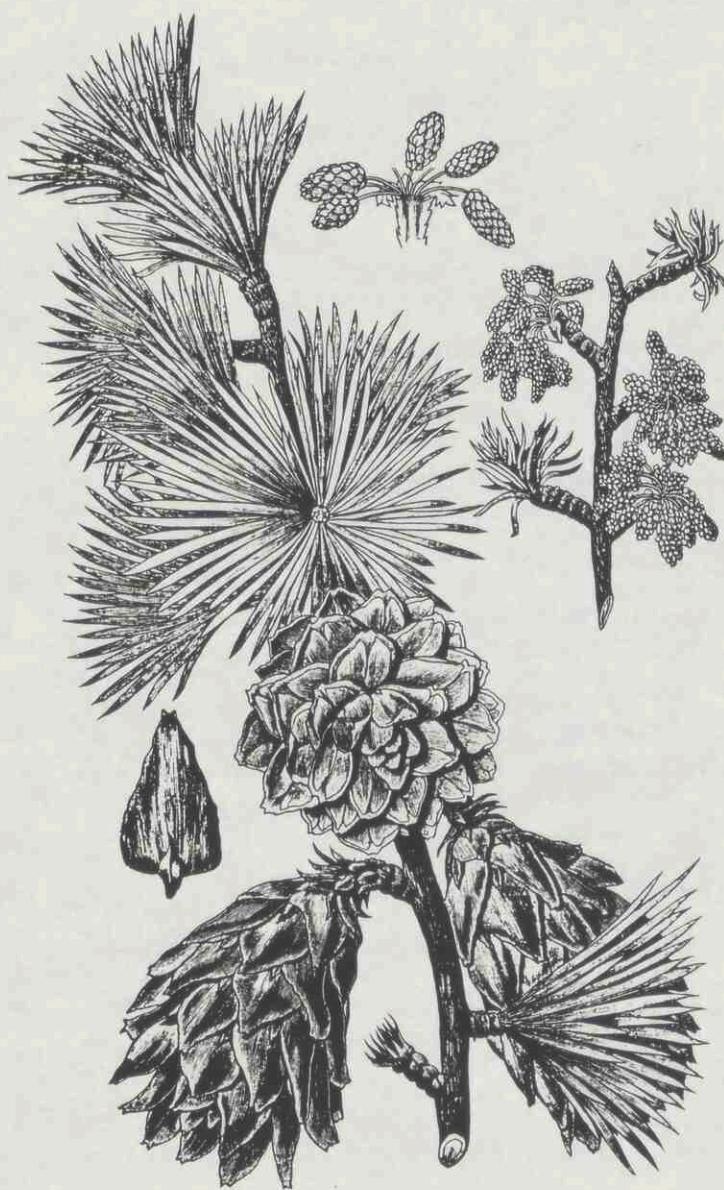


Fig. 4: *Pseudolarix amabilis* (A.Nels.) Rehd. (Pinac.)

Pinaceae

83. G I 00ZG00915 Pseudolarix amabilis (A.Nels.) Rehd.

Plumbaginaceae

84. G I 75ZE00620 Psylliostachys suvorovii (Regel)  
Roshk.

Ranunculaceae

85. G I 75ZE00311 Adonis aestivalis L.

Rosaceae

86. S I 78ZS00010 Filipendula kamtschatica (Pall.)  
Maxim. USSR, Sakhalin, Juzhno-  
sachalinsk.

87. G I 71RD00024 Spiraea japonica L.f. var. fortunei  
(Planch.) Rehd.

Rubiaceae

88. G I 90BL00022 Asperula cynanchica L.  
89. G I 71ZE00303 Asperula orientalis Boiss. & Hohen.

90. S I 87ZS00024 Rubia tinctorum L. France, Dept.  
Gard, Aramon

Rutaceae

91. G I 72RD00278 Zanthoxylum simulans Hance

Saxifragaceae

92. G I 75ZS00003 *Astilbe japonica* (C.Morr. & Decne.)  
A.Gray var. *japonica*

Scrophulariaceae

93. G I 55ZE00896 *Calceolaria tripartita* Ruiz & Pav.  
94. S I 86BL00553 *Penstemon heterophyllus* Lindl.  
[WROD s.n.]. USA, California, Lake  
Co., near Middletown, S.facing  
roadcut, rocky soil, Alt.: 400 m.  
95. G I 86BL00144 *Penstemon serrulatus* Menz. ex  
J.E.Sm.  
96. G I 66BL00018 *Wulfenia carinthiaca* Jacq.

Solanaceae

97. S I 66GR01770 *Cestrum calycinum* Willd. [JCL  
1738]. Brazil.

Sterculiaceae

98. G I 87GR00028 *Abroma augusta* (L.) L.f.  
99. G I 79GR00002 *Firmiana simplex* (L.) W.F.Wight

Styracaceae

100. G I 64RD00305 *Halesia carolina* L. var. *carolina*

Symplocaceae

101. G I 00ZG00909 *Symplocos paniculata* (Thunb.) Miq.

Taxodiaceae

102. G I 00ZG01862 *Sciadopitys verticillata* (Thunb.) Sieb.  
& Zucc.

Tovariaceae

103. G I 88GR00234 *Tovaria pendula* Ruiz & Pav.

Valerianaceae

104. G I 62ZE02127 *Centranthus calcitrapae* (L.) Dufresne  
subsp. *calcitrapae*  
105. G I 71ZE01430 *Centranthus macrosiphon* Boiss.  
106. G I 66BL00455 *Patrinia gibbosa* Maxim.

Verbenaceae

107. G I 76GR00299 *Clerodendrum speciosissimum* Van  
Geert  
108. G I 72ZE02197 *Verbena rigida* Spreng.

Zingiberaceae

109. S S 68GR00198 *Alpinia pterocalyx* K.Schum.  
[SLEUM 0016]. Indonesia, New  
Guinea, Mt. Nettoti Kebar Valley,  
coll. 1968.  
110. G S 89GR00057 *Globba winitii* C.H.Wright (Bulbils)

### Verification:

The seeds in this list have been taken from verified plants and only if we were reasonably sure that cross-pollination with related species would be unlikely.

### Explanation of provenance codes:

- E= Seeds from natural source; all collected november 1992.
- S= Seeds derived from a plant in cultivation but from known natural source ( not necessarily F1 generation).
- G= Seeds from a plant from other Botanical Garden or Institute; not from known natural source.
- U= Seeds from unknown origin, possibly wild source.

### Explanation of abbreviated collector-names:

GOERTS	A.R.A. Görts et al.
HVDW	H. v.d. Werff
JCL	J.C. Lindeman
MAAS	P.J.M. Maas
PLKENN	T. Plowman & H. Kennedy
SLEUM	H.O. Sleumer
STOLZE	R.G. Stolze
WOLB	L.J.W. van den Wollenberg, Curator
WROD	W. Roderick

### Sources of illustrations used:

- Fig. 1: T. Schipper, Utrecht University.
- Fig. 2: A.M.W.Mennega: Surinaamse wandelflora, part 1. STINASU, Paramaribo, 1976.
- Fig. 3: T. Schipper, Utrecht University.
- Fig. 4: L.Beissner: Handbuch der Nadelholzkunde. Verlagsbuchhandlung Paul Parey, Berlin 1909.



