

FORUM BOTANICUM

Vol. 9, No. 12

DECEMBER, 1971

DESEMBER 1971

NEWS-LETTER OF THE SOUTH AFRICAN ASSOCIATION OF BOTANISTS
NUUSBRIEF VAN DIE SUID-AFRIKAANSE GENOOTSKAP VAN PLANTKUNDIGES

INTERNATIONAL UNION OF BIOLOGICAL SCIENCES : The Executive Committee of the IUBS met in Cape Town from 26th October to 2nd November. Ten of the 15 members were able or allowed to attend, the notable absentees being from Communist countries. The business meetings were held in the Heerengracht Hotel.

Several members arrived in South Africa before their official meeting and were able to visit and lecture at various centres. In Cape Town and Stellenbosch Prof. Knut Faegri lectured on Pollination Ecology, Prof. Frans Stafleu on Plant Systematics in 1971 and Prof. K. Egle on Photosynthesis.

Tours in the vicinity of Cape Town were arranged officially for Table Mountain, Kirstenbosch and the Cape of Good Hope Nature Reserve.

The brief trip up Table Mountain with Dr. J. Rourke from Kirstenbosch proved most interesting for the botanists, despite being chased off the mountain after only half an hour by a Cape South Easter!

Individual tours were arranged for some delegates at their request. Prof. Faegri was accompanied through the Southern and South Western Cape by Mr. H.C. Taylor of Stellenbosch and Prof. Stafleu was shown places of historical and cultural interest by a number of local experts in Cape Town and Stellenbosch.

The S.W. Cape Branch of SAAB organised an informal supper for the delegates in the Guest House at Kirstenbosch in conjunction with the Zoological Society of South Africa. This proved most enjoyable and provided an opportunity for private discussions.

After leaving Cape Town, delegates visited either the Kruger National Park or the Drakensberg in Natal.

This meeting of the IUBS in Cape Town was made possible through the generosity and organisation of the CSIR, who are to be congratulated on bringing the delegates to South Africa, where so many local biologists were able to meet them and exchange views and ideas. IUBS delegates were all extremely satisfied with their visit to the Republic and hoped that they would be able to return again.

MR. A. R. JACOBS. Many generations of South African botanists have experienced the wisdom and help of Mr. Jacobs, the Senior Laboratory Attendant at Cape Town University. On 1st December, staff and students, past and present, will be saying farewell to Mr. Jacobs, who retires at 65 after 38 years' service in the Botany Department. It is difficult to imagine first year practicals being organised by anyone other than that rotund, jovial man, but time marches on and we wish Mr. Jacobs well in his retirement and with his dahlia and chrysanthemum cultivation.

PROF. W.W. SCHWABE. Professor of Horticulture at Wye College, Kent, England, will be visiting the Cape for two days after he has completed his examining at the University in Salisbury.

PROF. C. H. DARLINGTON will spend one day in Cape Town (29th December) en route to Australia with Mrs. Darlington. Prof. Darlington has just retired from the chair of Botany at Oxford.

PROF. R.H. COMPTON, now 82 years old, has finally left Swaziland and has come to settle in Cape Town with his daughter, who has a home in the Gardens. Miss Mia Karsten will also be leaving Swaziland shortly and will come to Cape Town to settle.

MR. L.C. LEACH from Nelspruit in the Eastern Transvaal continues to work on the Euphorbiaceae, Stapelieae and to a lesser extent, Aloe. Several papers of his have been published this year and have dealt with Euphorbia spp. for the Flora Zambesiaca area, Stapelieae from South Tropical Africa, Euphorbia spp. from Angola and Aloe spp. nov.

A major operation last year was another expedition to Angola accompanied by M.I.C. Cannell. The main objective was the study of the succulent Euphorbia spp. in the field and to obtain good herbarium material. The expedition was made in October/November, somewhat later than previously, in order to obtain fruiting material wherever possible. Although Mr. Leach's main interest was in Euphorbia, other genera were not neglected and several apparently undescribed taxa were collected, some of which have yet to flower, notable amongst these being a very showy Monadenium.

Mr. Leach planned to visit Malawi recently to investigate a strange and apparently undescribed species of Euphorbia - yet another one!

Much of Mr. Leach's time is now spent in Rhodesia, where he is based on the herbarium in Salisbury.

AKADEMIE, AFDELING BIOLOGIE, TAK STELLENBOSCH : 'n Ope vergadering van die genoemde tak is op 24 November in die Departement Plantkunde Stellenbosch gehou. Die hoof onderwerp was 'n referaat, Diagnostiese kenmerke van die Suid-Afrikaanse Commiphora spesies, deur dr. J.J.A. van der Walt. Dit is gevolg deur 'n rolprent-vertoning van "Ons Skoonste Erfenis", 'n film oor Suid-Afrikaanse veldblomme en die Nasionale Botaniese Tuin te Kirstenbosch.

ROYAL SOCIETY OF SOUTH AFRICA : A symposium was held on 17th November at the Athenaeum, Cape Town, on Pollution and Environmental Problems. The principal speakers were UCT staff members, Prof. W.J. Lütjeharms (Microbiology), Prof. J.H.O. Day (Zoology) and Prof. J.E. Kench (Chemical Pathology). They gave brief addresses on special topics. These were followed by a general discussion.

THE PROTECTION OF OUR ENVIRONMENT : This was the theme of the first national conference held at the University of Stellenbosch on 21st and 22nd October. It was organised by the National Veld Trust in collaboration with the South African Nature Union and the Stellenbosch-based Society for the Protection of the Environment.

The opening address was given by Dr. S. Meiring Naude, Scientific Adviser to the Prime Minister, the subject -- Man and his Environment. This was followed by two brief contributions on subdivisions of this theme with subsequent discussions and formed the first session, which was under the chairmanship of Mr. W. van Heerden, Chairman of the Board of Trustees of the National Veld Trust.

The second session was chaired by Mr. R.W.J. Opperman, Chairman of the S.A. Nature Union and opened with an address on Pollution as a Universal Phenomenon, given by Prof. G.J. Broekhuysen, Zoology Department, University of Cape Town.

The third session under Prof. F.J. Potgieter, Chairman of the Vaal River Catchment Association, concerned Agricultural Pollution. A paper was read by Mr. E. Adler, Chief Director of Extension Services in the Department of Agricultural Technical Services. This was followed by a session covering Exploitation of Natural Resources, with a paper delivered by Mr. A.W.S. Schumann, General Manager (Base Minerals Dept.) of General Mining and Finance Corporation Ltd. It was under the chairmanship of Prof. D.C. Midgley, Hydraulic Engineering at the University of the Witwatersrand.

The final part of the symposium under Dr. K.E.W. Penzhorn, retired Senior Deputy Secretary (Professional) of the Department of Agricultural Technical Services, included a paper by Mr. E. Thorrington-Smith, a Town and Regional Planner, on the Technological Era, with contributions on the human and aesthetic side of man's activities.

EDITORS : Mrs. E.P. du Plessis will be moving to Pretoria to take up a post with the CSIR in January. For the past 4 years she has been Information Officer at Kirstenbosch and recently Secretary of the S.W. Cape Branch of S.A.A.B. She will continue to deal with all correspondence for Forum Botanicum. Writing and production will remain in the hands of Mr. E.G.H. Oliver in Stellenbosch.

EDITORS/REDAKSIE :

E.P. du Plessis, CSIR, Pretoria.

E.G.H. Oliver, Botanical Research Unit, Stellenbosch.

CORRESPONDENCE/KORRESPONDENSIE :

Mrs. E. P. du Plessis,
Division of Information and Research,
CSIR,
P.O.Box 395,
PRETORIA.

INDEX TO FORUM BOTANICUM 1971 (VOL. 9)

- AALBERS, J. 28
 ADDICOTT, F.T. 8, 40
 ADDICOTT, A. 8
 ADLER, E. 98
 ANDERSON, H.M. 42
 ANDERSON, J. 42
- BAARD, C.R. 22
 BAARD, J.A. 22
 BADENHORST, J.H. 94
 BAILEY, D.K. 30, 37
 BARBER, H.N. 11, 31
 BARBER, H.N. (MRS.) 31
 BAYER, A.W. 9, 53, 93
 BAYER, M. B. 11
 BAYLISS, R.D.A. 37
 BENECKE, A. 42
 BESTER, E. 50
 BEYERS, E.A. 94
 BIGALKE, R.C. 15, 21
 BIRCH, L.C. 41
 BLAKE, S.T. 84, 85
 BLOMMAERT, K.L.J. 87
 BOHLMANN (Prof.) 78
 BORNMAN, C.H. 7, 8, 9, 46
 BORNOWSKI (Prof.) 78
 BOSHOFF, D.N. 52
 BOTHA, C.E.J. 7
 BOTHA, D.J. 46, 91
 BOTHA, P.J. 55, 63, 64, 69, 70, 79
 BOUCHER, C. 21, 49
 BRADSHAE (Prof.) 19
 BRAUN-BLANQUET, J. 78
 BREMER, K. 14
 BRINK, E. 38, 52
 BROEKHUYSEN, G.J. 98
 BROWN, A.C. 77, 87
 BROWN, N.A.C. 7, 9
 BRYNARD, A.M. 65
 BURGERS (Mnr.) 94
 BURTT, B.L. 12
 BUTLER, V. 7, 8, 9
 BUTTON, J. 7, 9
- CAMPBELL, G.K. 59
 CANNELL, M.I.C. 97
 CARTER, M. 7
- CHAMBERS, C. 49
 CHOLNOKY, B.J. 33, 34
 CHOLNOKY-PFANNKUCHE, K. 33, 34
 CILLIERS, J.J.S. 22
 CLAASEN, N.I. 45
 CLARK, J.D. 5
 CLARKE, B. 39
 CODD, L.E.W. 69
 COETZEE, B.J. 46, 56.
 COETZEE, H. 43, 44, 47, 53
 COETZEE, J. 46
 COETZER, J.A. 5
 COETZER, L. 50
 COLE, D.T. 12
 COLLINS, J.B. 15
 COLVIN, P.M. 8
 COMBRINK, N.J.J. 94
 COMPTON, R.H. 31, 97
 CONE, G. 30, 48
 COPPEJANS, E.G.G. 29
 CORBY, H.D.L. 17, 18
 CRESSWELL, C.F. 60, 61,
 69, 79
- DAHLGREN, R. 16
 DAWSON, I.A. 12
 DARLINGTON, C.H. 96
 DAY, J.H.O. 98
 DE BRUYN, J.A. 28, 60,
 79
 DE BRUYN, T. 50
 DE KLERK, W.A. 15, 21
 DEVERALL, B.S. 15
 DE VILLIERS, O.T. 61, 79
 DE VILLIERS, P.C. 15
 DE VOS, M.P. 28, 29
 DE WINTER, B. 52, 64, 66,
 69, 70, 81, 92
 DE WIT, J.L. 60, 61
 DE WOLF, G.P. 82, 84, 85
 DI CASTONI, F. 41
 DICKENSON, S.M. 42
 DILLON, I. 19
 DIXON, P.S. 16
 DU PLESSIS, C.J. 46, 58
 DU PLESSIS, E.P. 29, 30,
 69, 70, 99
 DU PLESSIS, L.M. 40

- DU PLESSIS, S.S. 65
DU PREEZ, C.M.R. 23
DU PREEZ, J.W. 39
DU TOIT, C.A. 15
DYER, R.A. 50
- EDWARDS, D.J. 57, 59, 65, 66,
92
EGLE, K. 41, 95
EICKER, A. 45, 47, 53, 69, 92
ELLENBERG, E. 78
ELLIS, R.P. 50
ELOFF, J.N. 6, 61, 69, 70
ENDENBURG, H.G. 27, 87
ERASMUS, T. 38, 46, 54, 91
ERNST, W. 19
ESCHRICH, W. 8.
ESTERHUYSEN, E.E. 49
EVERT, R.F. 8, 9
- FAEGRI, K. 41, 95
FAIR, P. 61
FALCON, R. 42
FERREIRA, N.J. 40
FERREIRA, N.P. 52
FOGG, J.M. 45
FRIEDRICH, H.C. 89
- GAFF, D. 49
GARLAND, I. 66
GELDENHUYS, C.J. 1, 4
GETLIFFE, F.M. 57, 66, 69
GIBBONS, N.E. 41
GIESS, W. 44
GIFFEN, M.H. 33, 34, 35
GILLOME, J.H. 15
GOLDBLATT, P. 12, 29, 49
GORDON-GRAY, K.D. 7, 9
GRAU, J. 89
GRAUPNER, E.D. 80
GREEN, P. 92
GRENZ, M. 78
GRINDLEY, J.R. 12
GROBBELAAR, J.U. 5, 6
GROBBELAAR, N. 38, 39, 61, 92
GROENEWALD, E.G. 39
GRUNOW, J.O. 7, 9, 35
GUERN, J. 41
- HAAS, R. 20, 29
HALL, A.V. 21, 49, 77
HALL, J. 66
HALL-MARTIN, A.J. 46
HAMMES, P.S. 94
HANEKOM, A.N. 27
HAVENGA, M.C.G. 36
HEDBERG, O. 16
HEIJL, H.A. 61
HENNESSY, E.F. 66
HENRICI, M. 70, 75
HERBST, E. 46, 54
HEWITT, F. 86
HEY, D. 29, 64
HEYTEK, H. 50
HILLIARD, O.M. 7, 9
HINDLE, P. 25
HIROHITO (Emp.) 93
HOLTZHAUSEN, L.C. 45
HOWARD-WILLIAMS, C. 19
HUGO, W.J. 22
HUNTLEY, B.J. 46, 58, 80
HUTCHINSON, J. 11
- INGRAM, L. 19
IRVINE, L.M. 16
- JACKSON, W.P.U. 32
JACOBS, A.R. 96
JACOBS, M. 82, 85
JACOT GUILLARMOD, A.F.M.G. 37,
52, 58, 69
JANSE VAN VUUREN, D.R. 47
JESSOP, J.P. 26, 37, 38
JOOSTE, J.H. 28, 62
JORDAAN, P.G. 31, 70
JOUBERT, A.J. 45
- KARSTEN, M. 97
KELLY, R.D. 19
KENCH, J.E. 98
KERFOOT, O. 49
KERS, L.E. 12
KEULDER, P.C. 5, 6
KILLICK, D.J.B. 32, 50, 83
KLOPPERS, H. 36
KOK, P.D.F. 45, 47, 55
KRUGER, F.J. 30

- LANDMAN, J. 38, 46
LARDNER, P.J. 13
LEACH, L.C. 97
LEINS, P. 89
LE ROUX (Mr.) 65
LEVYNS, M.R. 16, 31, 48
LEWIS, O.A.M. 69
LIPPERT, W. 89
LLOYD, H.L. 17, 19
LOMBAARD, H.B. 28
LUBKE, R.A. 59
LUCAS, G. 43
LÜTJEHARMS, W.J. 29, 31, 76, 77,
90, 98
- MCDONALD, E.A. 32
MACLACHLAN, I.R. 42
MALEK, I. 41
MANDERS, M. 50
MARAIS, W. 11
MARTENS, H. 65
MARTIN, P.M.D. 13
MEIRING NAUDE, S. 98
MELVILLE, R. 36
MERXMÜLLER, H. 89
MEYER, H. 43
MEYER, M.A. 38, 52
MIDGLEY, D.C. 98
MITCHELL, D.S. 17, 18, 19, 20
MOLL, E.J. 57
MORSBACH, W.O. 15
MTOMBENI, J.P. 38
MUSIL, C.F. 8
- NASH, L.J. 7
NEL, P.C. 94
NELSON, H. 60
NEWTON, A.R. 87
NEWTON, L.E. 78
NOEL, A.R.A. 7, 9, 77
NORDENSTAM, B. 12
NORTJE, B.K. 87
- OATES, L.G. 80
OLIVER, E.G.H. 15, 21, 26, 29, 30,
31, 36, 69, 70, 99
- OLIVIER, D.L. 77
OLIVIER, M.C. 51
OPPERMAN, R.W.J. 98
ORNDUFF, R. 14, 30, 86
OWEN--SMITH, N. 67
- PAPENFUSS, G.F. 85
PARE, E.N. 93
PARKIN, C. 19
PENZHORN, K.E.W. 99
PHILLIPS, E.P. 83
PIENAAR, R.N. 62
PIETERSE, A.J.H. 43, 44, 55
PLUMSTEAD, E.P. 42
POCOCK, M.A. 37, 86
POTGIETER, F.J. 98
POWRIE, E. 31, 66
PREECE, T.F. 15
PRETORIUS, J. 47
PURCHASE, B.S. 17, 18, 19
- RABIE, J.W. 36
RAITT, L.M. 28
REID, D.A. 29, 30, 48
RETIEF, E. 93
REYNEKE, W.F. 46, 54, 92
ROBBERTSE, P.J. 36, 45, 46,
51, 52, 53, 90
ROBERTS, B.R. 70
ROESSLER, H. 89
RÖHRBECK, M.A. 44, 46
ROHRMANN, G.F. 13
ROOS, M.J. 38
ROSS, J.H. 32, 51, 93
ROURKE, J.P. 12, 49, 77, 87,
95
ROUX, P.W. 22, 23
ROWLEY, G.D. 78
RUTHERFORD, M.C. 27
RUTTER, A.J. 17
RYCROFT, H.B. 31, 69
- SAENGER, P. 37
SCHEEPERS, J.C. 45
SCHELPE, E.A. 16, 30, 48,
77

- SCHLIEBEN, H.J. 50
SCHOEMAN, F.R. 33, 34, 45,
46, 91
SCHOONRAAD, E. 46, 47, 48,
53, 92
SCHUUMANN, A.W.S. 98
SCHWABE, W.W. 96
SCHWEICKERDT, H.G.W.J. 70
SCOTT, G.D. 17, 18, 19
SEAGRIEF, S.C. 37, 86
SEALY, J.R. 16
SINTON, J. 77
SKINNER, T.E. 23
SMALBERGER, T. 11
SMALL, J.G.C. 51, 69, 79
SMIT, F.S.J. 51
SPREETH, A.D. 27, 87
STAFLEU, F.A. 41, 95
STANDER, G. 15
STEERE, W.C. 20
STEGMANN, P. 5
STRAKA, H. 20, 29, 45
STRAKA (Mrs.) 20
STRAUSS, J.M. 39
STUART, M.R. 17, 18, 19, 20
SWANEPOEL, E. 93
- TALBOT, W.J. 29
TALUKDAR, S. 13
TAYLOR, F.J.R. 12
TAYLOR, H.C. 12, 30, 42, 57,
77, 78, 87, 95
TERUI, G. 41
THERON, G.K. 23, 43, 44, 46,
52, 56, 92
THOMAS, P.I. 19
THOMPSON, M.F. 28
THORRINGTON-SMITH, E. 99
THYRET, W. 89
TIJMENS, W.J. 15
TOBIAS, P.V. 72
TÖLKEN, H.R. 17, 29, 30, 49
TROUGHTON, S.C. 52
TUXEN, R. 77
- VAHRMEYER, J. 50
VAN DER MERWE, J.J.M. 88
VAN DER SCHIJFF, H.P. 43, 47,
53, 63, 69, 70, 72, 73, 92
- VAN DER SPUY, U. 15
VAN DER WALT, J.J.A. 28,
45, 46, 91, 97
VAN DER WALT, J.L. 23
VAN DER WALT, P.T. 23
VAN DER VENTER, H.A. 51
VAN DEVENTER, S.J. 39
VAN GREUNING, J.V. 43,
47, 55
VAN HEERDEN, W. 98
VAN LELYVELD, L.J. 28
VAN NIEKERK, N. 67
VAN STADEN, J. 7, 9
VAN TONDER, E.M.A. 46
VAN VUUREN, D.R.J. 55
VAN ZINDEREN BAKKER, E.M.
5, 69, 70
VAN ZINDEREN BAKKER, E.M. (Jnr)
6
VENTER, H.J.T. 38, 45
VERHOEVEN, R.L. 47
VERWEY, J.E.M. 15
VIEWING (Dr.) 19
VILLIERS, T.A. 62, 79
VINCENT, R. 67
VOGEL, J.C. 92
VOGTS, M.M. 28
VON BREITENBACH, F. 1, 3, 4,
37
VON BREITENBACH, J.M. 3
VON DEM BUSSCHE, G.H. 1, 3
VON GADOW, K. 1, 4
VON LAMPRECHTS, A. 80
VON TEICHMAN UND LOGISCHEN, I.
43, 46
VORSTER, P.J. 47
- WADDINGTON, C.H. 41
WALKER, B.H. 17, 19
WARD, C.J. 57, 66
WAREING, P.F. 7
WATTS, J.E. 27
WEISSER, P. 92
WEISSICH, P. 31
WELLS, M.J. 32, 50
WILD, H. 10, 17, 19
WILKINS, M. 8
WILLIAMS, I.J.M. 48
WILTSHIRE, G.H. 19
WOODS, D.R. 37
ZDERO (Mrs) 78 ZOLYOMI, B. 41