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

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CONSERVING BIOTIC DIVERSITY IN SOUTHERN AFRICA

A National Conference on Conserving Biotic Diversity in Southern Africa will be held at the University of Cape Town, 13 - 15 June 1988. It is sponsored by Ecosystem Programmes (Foundation for Research Development) in collaboration with the Southern African Nature Foundation, the Endangered Wildlife Trust, the National Botanic Gardens of South Africa and the Wildlife Society of Southern Africa.

This conference will assess the conservation status of southern African biota and ecosystems, the value of biodiversity to southern African people, and approaches to the evaluation, protection, management and monitoring of biotic diversity in the region.

INTERNATIONAL ASSOCIATION FOR PLANT PHYSIOLOGY - 1987 NEWSLETTER

Subscriptions for 1986 were received from the following national or regional members: Australia, Austria, Belgium, Czechoslovakia, Federal Republic of Germany, International Association of Plant Growth Substances, Italy, Japan, New Zealand, Scandinavian Societies of Plant Physiology (Denmark, Finland, Norway and Sweden), Singapore, South Africa, Spain, The Netherlands, United Kingdom, Yugoslavia.

XIVth International Botanical Congress, Berlin, 1988. The Botanical Congress was a very successful and well organised conference held in the Congress Centrum, Berlin. The organisers are to be congratulated on the smooth running of the meetings and particular thanks are due to Brigitte Zimmer of the Organising Committee for her help to IAPP in organising the IAPP display stand and venues for our General Meeting and Council Meeting. The display stand was in a busy, central location and was visited by a steady stream of plant physiologists. The display gave information on the aims and policies of IAPP, listed national and other members and was a focus for dissemination of information on IAPP.

Following invitations from the following nations, future IBC will be held in:

- Japan 1993
- U.S.A. 1999
- China 2005

IAPP Meetings at the IBC, Berlin, 1988. The IAPP General Meeting was well attended. President Hubert Ziegler and Secretary-Treasurer Douglas Graham reported on the activities and policies of IAPP.

The IAPP Council Meeting was held on 27th July and was attended by representatives of 17 national or regional associations: Australia, Belgium, Federal Republic of Germany, Federation of European Societies of Plant Physiology, International Plant Growth Substances Association, Italy, Latin American Society of Plant Physiologists, Scandinavian Society for Plant Physiology, Singapore, South Africa, Spain, Switzerland, Turkey, U.K., USA, USSR and Yugoslavia.

President H. Ziegler and Secretary-Treasurer D. Graham reported on IAPP activities since the last Council Meeting in Sydney in 1981 (at the XIIIth International Botanical Congress). D. Graham also presented the audited accounts and Treasurer's Report. Future budget costs were

discussed, particularly in relation to support for future Regional Meetings, and it was unanimously agreed to increase subscriptions. At 30 June 1987 the funds available in the IAPP accounts were \$5564.58. Costs for 1987 had not been deducted.

Amendments were agreed to the Constitution to bring it in line with the six-yearly meetings of IAPP associated with the Botanical Congresses. In addition, after discussion, it was unanimously agreed to increase the Executive Committee to include another national representative.

Election of Office-Bearers: The election resulted in the following being elected.

| | |
|---------------------|--|
| President | Professor Dr H. Ziegler, FRG |
| Vice-President | Professor Dr J.B. Bruinsma, Netherlands (IPGSA) |
| Secretary-Treasurer | Dr D. Graham, Australia |
| Executive Committee | Professor P.N. Avadhanl, Singapore |
| | Professor R.L. Jones, USA |
| | Professor A. Larque Saavedra, Mexico (L.A.S.P.P.) |
| | One member to be appointed (it is hoped to announce this appointment shortly). |

Other matters discussed included:

Booklet on 'Recommendations for Units, Symbols and Terminology in Plant Physiology' under the editorship of Professor F.B. Salisbury, USA. This is now at an advanced stage and it is hoped that it will be published shortly. IAPP is providing some financial support in its preparation but it will be published by a commercial publishing house, several of which have shown considerable interest in the venture. Professor Salisbury and his team of collaborators are to be congratulated on the progress of this project initiated by IAPP at the Sydney IBC in 1981. Professor Salisbury reports that the draft copy which he left at the IAPP Display Stand proved so popular that it disappeared after a few days. He would appreciate its return!

Newsletter: There was discussion on the possibility of increasing the frequency of the Newsletter but the Secretary-Treasurer indicated that it posed him some difficulties, as well as the substantial costs associated with production and postage.

Policies: It was agreed to continue with IAPP sponsorship of Regional Meetings, especially to create opportunities for plant physiologists of the Third World regions to meet together with their colleagues of the developed countries outside of the usual venues in Western Europe and North America.

IAPP Directory: It was decided not to proceed with an up-dating of the International Directory because of the very high costs which would be involved in publishing.

Meetings already organised or being organised are:

- . New Delhi, India 15-20th February 1988
- . Giza, Cairo, Egypt 3rd-9th December 1988
- . Singapore date to be decided, 1989

Other suggested venues for future regional meetings included Eastern Europe, South/Central America and China.

Meetings of Editors of Plant Physiology Journals at the IBC, Berlin 1987. IAPP is pleased to have been able to sponsor this meeting at the Congress. Professor Anders Kylin (Sweden), Editor of *Physiologia Plantarum*, together with Professor W. Schwabe (UK), Editor of *Journal of Experimental Botany* and Professor J. Guern (France) formerly Editor of *Physiologie Vegetale*, initiated a meeting of Editors of the plant physiological journals at the International Botanical Congress. The purpose was to discuss matters of common concern including electronic publishing and the possibility of standardising common publication formats, e.g. bibliographic references. Fifteen journals and publishers were represented. The main business of the meeting was a presentation and discussion of the Danish publisher Munksgaard's system for an 'Advance Abstract Service'. This can provide an abstract on-line through a telephone network service, such as the French 'Minitel' system, 3 to 4 months before the printed journal appears and approximately 6 months before listing in the regular abstracting services such as Biological or Chemical Abstracts or Science Citation Index. All the plant physiology journals have been invited to join a 3-year trial to develop the system and determine means of financing, organization and distribution.

Other matters discussed were standardisation of bibliographic referencing which was introduced by Dr Spencer Brown of Plant Physiology

and Biochemistry. A sample of the MICRO-PAPERBASE bibliographic program for interconverting reference styles for the plant science journals was provided on disk for all IBC participants. International Standards are being developed and Dr Brown will investigate what further can be done for the plant journals.

Professor Schwabe also discussed plagiarism and related problems resulting from the pressure to publish. While difficult to handle, increased personal contact between editors was seen as one way of combating this situation.

International Congress of Plant Physiology, New Delhi, India 15-20th February 1988. Professor S.K. Sinha, Secretary-general. IAPP is supporting the Congress financially and the President of the IAPP, Professor H. Ziegler, and Secretary/Treasurer, Dr D. Graham are members of the International Program Committee of the Congress. Dr Graham and Professor P.N. Avadhani (Member of Executive Committee) are Convenors of the Session on Pre- and Postharvest Physiology and Bio-chemistry of Storage of Flowers, Fruits and Vegetables.

International Conference on 'Plant Growth, Drought and Salinity in the Arab Region'. 3rd-8th December 1988. Giza, Egypt. The Conference is being organised by the Egyptian Botanical Society (EBS), The Arab Biosciences Network and IAPP. The Organising Committee is under the joint Chairmanship of Professor Dr K.H. Batanouny (EBS) and Professor Dr H. Ziegler (President, IAPP) and comprises Professor Dr M.F. Abdel Hamid (Egypt), Professor J. Ehleringer (USA), Dr D. Graham (IAPP, Australia), Professor Dr O. Lange (FRG) and Professor Dr H. Morsy (Egypt). The Conference will be held under the auspices of the Academy of Scientific Research Technology, Egypt, and is sponsored by UNESCO, ICSU, CASFA and the University of Cairo.

Objectives. The problems of aridity and salinity are widespread in the arid and semi-arid zones of the Arab region, as well as in many parts of the world. These problems represent a major constraint for development. It is believed that science and technology will be of help to solve these problems. Numerous institutions, universities and research centres are undertaking research studies in these fields. However, the lack of exchange of information and scientific cooperation minimize the outcome of these studies. This conference aims at bringing together scientists in these fields from the Arab countries, as well as from other countries, especially those interested in the field of eco-physiological problems of the arid zones.

A workshop, within the framework of the conference, aims at formulating the necessary actions towards establishment of a plan for future studies and research. Discussions of the problems of drought and salinity by Arab and foreign experts will result in plans to be implemented by the scientific community to solve these prevailing arid and saline conditions in the Arab region.

The Scientific Programme. The programme covers different aspects of eco-physiology in the arid lands e.g. Drought resistance in desert plants; Eco-physiology of halophytes; Irrigation and salinity problems; Water shortage and cultivated plants; Reproductive ecology of desert plants; Vegetation in the desert - development, competition and establishment; Productivity under arid and/or saline conditions; Human impact on arid lands' ecosystems.

The Conference will comprise:

- . Sessions with submitted papers.
- . Workshops on the different problems of the arid zone research and application.
- . Invited presentations
- . General lectures.

Call for Contributions. All who wish to present a paper or participate in the workshop are requested to write immediately, indicating the title of their contribution, to

Professor Dr K.H. Batanouny
Faculty of Science
University of Cairo
GIZA, EGYPT

International Meetings

1988 BIOLOGICAL EDUCATION

INTERNATIONAL SYMPOSIUM ON BIOLOGICAL EDUCATION

9-16 October, Sydney, Australia

(G. Schaefer, Faculty of Education, Institute 9, University of Hamburg, Von Melle-Park 8, D-2000 Hamburg 13, F.R.G.)

BIOLOGICAL CONTROL

VIth INTERNATIONAL SYMPOSIUM ON THE BIOLOGICAL CONTROL OF WEEDS

Date undeter., South Africa

(Ms E. du Plessis, Int'l Relations Div. CSIR, P.O.B. 395, Pretoria 0001, South Africa)

CUBAN ACADEMY OF SCIENCES/BOTANICAL INSTITUTE

2nd SYMPOSIUM ON BOTANY

June, Havana, Cuba

(M.A. Vales, Instituto de Botanica ACC, Calzada del Cerro 1257 Habana 6, Cuba)

CELL BIOLOGY

PLASMA MEMBRANE OXIDOREDUCTASE IN CONTROL OF ANIMAL AND PLANT GROWTH

21-25 March, Cordoba, Spain

(Prof F.L. Crane (Director), Dept of Biological Sciences, Lilly Hall, Purdue University, West Lafayette, IN 47907)

MOLECULAR GENETICS OF PLANT-PARASITE INTERACTION

26 March-April 1, Colorado, USA

(UCLA Symposia, Molecular Biology Institute, University of California, Los Angeles, CA 90024)

THE MOLECULAR BASIS OF PLANT DEVELOPMENT

26 March-April 2, Colorado, USA

(UCLA Symposia, Molecular Biology Institute, University of California, Los Angeles, CA 90024)

4th INTERNATIONAL CONGRESS OF CELL BIOLOGY

14-19 August, Montreal, Canada

(Congress Secretariat, 4th Int'l Congress of Cell Biology, National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6)

INTERNATIONAL CONFERENCE OF GROUPE POLYPHENOLS

16-19 August, Ontario, Canada

(Dr Tibor Duleki, Horticultural Research Institute of Ontario, Vine-land Station, Ontario, LOR 2E0)

COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY

2nd INT'L CONGRESS OF COMPARATIVE PHYSIOLOGY & BIOCHEMISTRY

Summer, Baton Rouge, LA, U.S.A.

(R. Gilles, Lab. of Animal Physiology, Univ. of Liege, 22 Quai van Beneden, B-4020 Liege, Belgium)

Vith INTERNATIONAL CONGRESS FOR CULTURE COLLECTIONS

date undeter., Maryland, U.S.A.

(A. Onions, Commonwealth Mycological Institute, Ferry Lane, Kew, Surrey TW9 3AF, U.K.)

16th INTERNATIONAL CONGRESS OF GENETICS

20-27 August, Toronto, Canada

(XVITH Int'l Congress of Genetics, National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6)

2nd INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOCIETY FOR PLANT MOLECULAR BIOLOGY

18-23 November, Rehovot, Israel

(Mrs R. Goldstein, The Aharon Katzir-Katchalsky Center, The Weizmann Institute of Science, Rehovot 76100, Israel)

VIIIth INTERNATIONAL CONGRESS OF HISTOCHEMISTRY AND CYTOCHEMISTRY

date undeter., U.S.A.

(J.R. Garrett, Dept. of Oral pathology, King's College School of Medicine & Dentistry, The Rayne Institute, London SE5 9NU, U.K.)

HORTICULTURAL SCIENCE

SYMPOSIUM ON THE POSTHARVEST PHYSIOLOGY OF ORNAMENTALS

22-26 February, Dead Sea, Israel

(S. Mayak, Dept. of Ornamental Hort., The Hebrew Univ. of Jerusalem, P.O.B. 12, Rehovot 76100, Israel)

ENGINEERING AND PROTECTED CULTIVATION : SYMPOSIUM ON SIMPLE VENTILATION AND HEATING METHODS FOR GREENHOUSES IN MILD WINTER CLIMATES

28 February-6 March, Tozeur, South of Tunisia

(H. Verlodt, Ministère de l'Agriculture Direction de Coordination des PPI, Rue Alain Savary, 1002 Tunis-Belvedere, Tunisia)

PLANTS UNDER STRESS : BIOCHEMISTRY, PHYSIOLOGY AND ECOLOGY AND THEIR APPLICATION TO PLANT IMPROVEMENT

SEMINAR SERIES SYMPOSIUM

28-31 March, Lancaster University, England

(H.G. Jones, Institute of Horticultural Research, East Malling, Maidstone, Kent, ME 19 6BJ)

7th SYMPOSIUM ON VIRUS DISEASES OF ORNAMENTAL PLANTS

May, Lago Maggiore, Italy

(I.S.H.S. Secretariat, De Dreyen 6, 6703 BC Wageningen, the Netherlands.)

INTERNATIONAL CITRUS CONGRESS, MIDDLE EAST

6-11 March, Tel-Aviv, Israel

(The Secretariat, POB 50006, Tel-Aviv 61500, Israel)

INTERNATIONAL SYMPOSIUM ON HEAVY METALS AND PESTICIDE RESIDUES IN MEDICINAL, AROMATIC AND SPICE PLANTS

May, Novi Sad, Yugoslavia

(J. Kisgeci, Institute of Field & Vegetable Crops, Faculty of Agriculture, Novi Sad, YU 21470, Backi, Petrovac, Yugoslavia)

AUSTRALIAN TEMPERATE FRUITS REVIEW CONFERENCE

22-26 May, Roseworthy, Adelaide, Australia

(J.B. Robinson, Sth Australian Dept. Agric., GPO Box 1671, Adelaide SA 5001, Australia)

CO₂ SYMPOSIUM

19 June, Naaldwijk, the Netherlands

(P.J.A.L. de Lint & E.M. Nederhoff, Glasshouse Crops Res. & Expt. Station, P.O.B. 8, 2670 AA Naaldwijk, the Netherlands)

SYMPOSIUM ON COST BENEFITS AND FUNCTIONS OF URBAN VEGETATION

June/July, Aas, Norway

(A. Habjorg, Rovfest Gard, N-1555 Son, Norway)

13th INTERNATIONAL CONFERENCE ON PLANT GROWTH SUBSTANCES

11-17 July, Alberta, Canada

(IPGSA, Conference Office, Faculty of Continuing Education, University of Calgary, 2500 University Drive, N.W., Calgary, Alta. T2N1N4)

SYMPOSIUM ON GROWTH REGULATORS IN FRUIT PRODUCTION

25-29 July, Penticton, Canada

(N.E. Looney, Research Station, Summerland, B.C. NOH 1Z0, Canada)

SEED PRODUCTION AND STORAGE SYMPOSIUM

Summer, Angers, France

(A. Chavagnat, telex : intrager 720565 F, France)

4th INTERNATIONAL SYMPOSIUM ON VACCINIUM CULTURE

13-17 August, East Lansing, Michigan, U.S.A.

SYMPOSIUM ON MODELS FOR PLANT GROWTH, ENVIRONMENTAL CONTROL AND FARM MANAGEMENT IN PROTECTED CULTIVATION

28 August-2 September, Hanover, F.R.G.

(H. Krug, Inst. Veg. Crops, Univ. Hanover, Herrenhauserstr. 2, D-3000 Hanover 21, F.R.G.)

FIRST INTERNATIONAL SYMPOSIUM ON THE DEVELOPMENT OF NEW FLORICULTURAL CROPS

29 August-1 September, Denmark

(O.V. Christensen, Res. Center for Hort., Inst. of Glasshouse Crops, Kristinebjergvej 10, DK 5792, Aarslev, Denmark)

SYMPOSIUM ON FRUIT STORAGE AND VEGETABLE STORAGE

29 August-2 September, Leuven, Belgium

(M. Herregods, Tiensevest 136, B-3000 Leuven, Belgium)

SYMPOSIUM ON ORCHARD AND PLANTATION SYSTEMS

29 August-3 September, Wilhelminadorp, Netherlands

(S.J. Wertheim, Proefstation voor de Fruitteelt), Burgstraat 51, 4475 AN Wilhelminadorp, Netherlands)

3rd INTERNATIONAL SYMPOSIUM ON GROWTH REGULATORS IN ORNAMENTAL HORTICULTURE

5-10 September, Skierniewice, Poland

(R. Rudnicki, Research Inst. of Pomology, ul. Warynskiego 14, 96-100 Skierniewice, Poland)

FACTORS AFFECTING HERBICIDAL ACTIVITY AND SELECTIVITY

6-8 September, Wageningen, The Netherlands

(Dr Robert R. Schmidt, Bayer A9, PF-Zentrum Monheim, Gebaude 6200, D-5090 Leverkusen, FRG)

3rd WORKSHOP ON TEMPERATE ZONE FRUITS IN THE TROPICS AND SUBTROPICS

12-16 December, Chiang-Mai, Thailand

(S. Subhadrabandhu, The Secretariat, 3rd Workshop IZFTST, Hort. Dept., Kasetsart Univ., Bangkok 1093, Thailand)

SYMPOSIUM ON HORTICULTURAL ASPECTS OF CULTURE IN ARTIFICIAL MEDIA

Date, undeter., Ireland

(M. Maher, Kinsealy Inst., Kinsealy, Ireland)

IUBS

XXIIIrd GENERAL ASSEMBLY OF THE I.U.B.S.

17-24 October, Canberra, Australia

(IUBS Secretariat, 51 bd. de Montmorency, 75016 Paris, France)

LAKE MANAGEMENT

3rd INTERNATIONAL CONFERENCE ON THE CONSERVATION AND MANAGEMENT OF LAKES - "BALATON" 88'

11-17 September, Keszthely, Hungary

(J. Salanki, Balaton, Limnological Institute of the Hungarian Academy of Sciences, Tihany H-8237, Hungary)

PALYNOLOGY

7th INTERNATIONAL PALYNOLOGICAL CONGRESS

28 August - 2 September, Brisbane, Australia

PHOTOBIOLOGY

10th INTERNATIONAL CONGRESS ON PHOTOBIOLOGY

Date undeter., Israel

(R. Tyrrell, Swiss Institute for Experimental Cancer Research, CH-1066 Epalinges S./Lausanne, Ch. des Boveresses, Switzerland)

PLANT PATHOLOGY

11th ANNUAL SYMPOSIUM IN PLANT PHYSIOLOGY

PHYSIOLOGY AND BIOCHEMISTRY OF PLANT-MICROBIAL INTERACTIONS

14-16 January, University of California, Riverside, USA

(Cindi McKernan, Dept. of Botany and Plant Sciences, University of California, Riverside, CA 92521)

INTERNATIONAL CONGRESS OF PLANT PATHOLOGY

18-27 August, Japan

(T. Kommedahl, Stakman Hall of Plant Pathology, 1519 Gortner Avenue, University of Minnesota, St Paul, MN, U.S.A.)

INTERNATIONAL CONGRESS OF PLANT PHYSIOLOGY

15th-20th February, New Delhi, India

(Secretary General, Int'l Congress of Plant Physiology, Water Technology Center, Indian Agricultural Research Institute, New Delhi 110012, India)

ARAB REGION CONFERENCE

INTERNATIONAL CONGRESS ON PLANT GROWTH, DROUGHT AND SALINITY IN THE ARAB REGION

3-8th December, Giza, Egypt

(Prof. Dr K.H. Batanouny, Botany Dept., Faculty of Science, University of Cairo, Giza, Egypt)

SCIENCE EDUCATION

ICASE WORLD CONFERENCE : SCIENCE EDUCATION AND THE QUALITY OF LIFE -
A WORLD ISSUE

3-9 July, Canberra, Australia

(G. Hawke, Capital Conferences Pty. Ltd., P.O. Box E 345, Queen Victoria Terrace, Canberra A.C.T. 2600, Australia)

TROPICAL BIOLOGY

SYMPOSIUM/WORKSHOP ON TROPICAL SOIL BIOLOGY AND FERTILITY

June, Harare, Zimbabwe

(M. Swift, Dept. of Biological Sciences, University of Zimbabwe, P.O. Box MP 167, Mount Pleasant, Harare, Zimbabwe)

ECOLOGY AND MANAGEMENT OF TROPICAL MOUNTAIN SLOPES

April/May, Kathmandu, Nepal

(IUBS Secretariat, 51 blvd. de Montmorency, 75016 Paris, France)

1989 HORTICULTURE SCIENCE

IN-VITRO CULTURE SYMPOSIUM ON PLANT BREEDING IN HORTICULTURE

22-26 March, Bologna, Italy

(S. Sansavini & P. Rosati, Cattedra frut. Industriale, Univ. di Bologna, Via Filippo Re 6, 40126 Bologna, Italy)

DEVELOPMENTS IN URBAN HORTICULTURE

May, Seattle, Washington, U.S.A.

(H.B. Tukey Jr., Center of Urban Hort., 290 Bloeder Hall AR10, Univ. Washington GF-15, Seattle, WA, U.S.A.)

SYMPOSIUM ON TIMING OF FIELD VEGETABLE PRODUCTION

20-26 August, Wageningen, Netherlands

(G. Grubben, Research Station, Lelystad, PAGV, P.O.B. 430, Lelystad, Netherlands)

3rd SYMPOSIUM ON CLONAL SELECTION

September, Czechoslovakia

(J. Kalasek, Brno, CSSR)

**2nd INTERNATIONAL SYMPOSIUM ON COMPUTER MODELLING IN FRUIT RESEARCH
AND ORCHARD MANAGEMENT**

5-8 September, Logan, Utah, U.S.A.

(J. LaMar Anderson, Utah State University, Logan, Utah 84322-4820,
U.S.A.)

SYMPOSIUM ON MANAGEMENT BY INFORMATION MODELS IN PROTECTED CULTIVATION
date undeter., Naaldwijk, Netherlands

**WORKSHOP ON SOME ASPECTS OF THE USE OF ARTIFICIAL LIGHT IN PLANT PRO-
DUCTION**

date undeter., U.S.A.

(ISHS Secretariat, De Dreljen 6, 6703 BC Wageningen, Netherlands)

**SYMPOSIUM ON AUTOMATIC CONTROL OF GROWTH AND YIELD PROCESSES AND COMPU-
TER-AIDED MANAGEMENT IN THE VEGETABLE PRODUCTION**

date undeter., East Berlin, D.D.R.

(Sc. G. Vogel, Akademie der Landwirtschaftswissenschaften der DDR,
P.O.B. 1295, 1086 Berlin, D.D.R)

1990 5th INTERNATIONAL CONGRESS OF ECOLOGY

23-30 August, Yokohama City, Japan

(S. Miyawaki, Inst. of Environmental Science & Technology, Yokohama
National University, 156 Tokiwadai, Hodogaya-ku Yokohama 240, Japan)

XXIIIrd INTERNATIONAL HORTICULTURAL CONGRESS

22 August-1 September, Firenze, Italy

(Organizing Committee, Societa Orticola Italiana, Via G. Donizetti,
6-50144 Firenze, Italy)

ANNUAL REPORT FOR 1987 - SAAB - SWA REGION

1. Membership of this regional branch now stands at 19. Continuous effort is put into recruiting new members, but limitations are presented by the fact that very few qualified botanists are employed or even resident in this region. We have a small nucleus of active members, largely restricted to those resident in Windhoek, as the vast distances others must travel make it difficult for many to attend gatherings.

2. Two members of this region delivered papers at the 1987 annual SAAB Congress in Durban.

3. Two meetings of the local branch of the society were held in Windhoek in 1987. Some of the topics which were discussed include:

- (a) ways of extending membership and fostering interest in the society, and of stimulating more interest in the vegetation of this region among the general public.
- (b) the possibility of hosting the 1991 annual SAAB congress in Windhoek.
- (c) encouragement of members to attend the 1988 congress in Kirstenbosch, and methods of reducing transport costs to facilitate as many members as possible to attend.
- (d) the general state of botanical research in this region and methods of encouraging employers to employ adequately and suitably qualified botanists in crucial positions.

4. Finances: Members of the local branch of the association are active in collecting funds to cover the expenses of this branch. At present the balance in our savings account stands at R418,00.

All members who contributed to the activities of the SWA branch of the Association in 1987 are thanked for their participation.

M.A.N. MÜLLER

SAGP - N. TYL-TAK : JAARVERSLAG YIR 1987

1. Komitee: Voorsitter: Prof J. Coetzee, O. Voors: Dr E. Schoonraad
Sekr: Mej E. Retief, Penningm.: Mnr D.C. Joubert
Lede: Mnr C.F. van der Merwe, mnr J.F. van Blerk,
Prof H.A. van de Venter, mev. B.J. Vermeulen

2. Ledetal: 163 .

3. Werkzaamhede: Gedurende 1987 is daar 6 voordragte van algemene aard gelewer.

5 Maart: Prof. R.N. Pienaar - Sea Microbes

7 Mei: Mej. S. Chadwick - A Botanist in Southern Africa

4 Junie: Dr H. Anderson - Gymnosperms from the Triassic of Southern Africa

6 Augustus: Dr J.V. van Greuning - Die nasionale voetslaanpadstelsel

3 September: Mnr P.J. Viljoen - Elephant impact on the ecology of the northern Namib desert

1 Oktober: Prof A. Eicker - Swamme as alternatiewe proteïnbron

Die byeenkoms op 4 Junie is in samewerking met die S.A. Biologiese Vereniging gereël. 'n Totaal van 217 lede en besoekers het die voordragte bygewoon.

4. Al die komiteeledede word bedank vir hulle bydrae gedurende die jaar. 'n Spesiale woord van dank moet gaan aan mej. Retief wat die sekretariële pligte met buitengewone ywer en nougesetheid uitgevoer het.

5. Sonder die opoffering van ons sprekers kon ons nie die suksesvolle byeenkomste aangebied het nie - baie dankie aan almal wat soveel moeite gedoen het met die voorbereiding en lewering van hulle optredes.

J.COETZEE

SAGP ORANJE-VRYSTAATSTREEK : JAARVERSLAG 1987

Die huidige ledetal van die streektak is 48. Die bestuur wat vir 1987 verkies is, was soos volg saamgestel:

Voorsitter: Prof. F.C. Botha

Ondervoorsitter: Mnr J.C. Roos

Sekretaresse/tesouriere: Mev. A.M. Joubert

Addisionele lid: Mnr P.W.J. van Wyk

Gedurende die jaar is 4 algemene vergaderings gehou waartydens die volgende lesings aangebied is:

Prof. Johan Grobbelaar - Faktore wat primêre produktiwiteit in troebel waters beïnvloed.

Dr Louis Scott - Die ontwikkeling van die plantegroei in die binneland van Suid-Afrika gedurende die kwartêr.

Prof. Y. Gutterman - 'Is there mutualism between the system of renewal of geophytes and their consumption by porcupines in Negev highlands of Israel'

Dr G.H. Wiltshire - 'What makes the grass grow - food or drink?'

Soos in die verlede is hierdie vergaderings baie goed deur die lede bygewoon. Die streektak kan gevolglik weer spog met 'n bywoning-syfer van ongeveer 60%. Die algemene jaarvergadering van die OVS-Streek op 27 Oktober 1987 word soos in die verlede met 'n kaas-en-wyn-onthaal afgesluit.

Die jaarlikse boekprys aan die beste derdejaarstudent in Plantkunde is vanjaar aan mej. L.C. Spaargaren toegeken. Die borgskap van die

boekprys deur Nasboek verstryk hierdie jaar. Onderhandelinge met Nasboek is reeds aangeknoop ten einde te probeer om die borgskap vir 'n verdere periode te verleng. Die boekprysfonds wat deur die streektak begin is om kontinuering van die boekprys te probeer verseker, beloop tans R117,67. Dit sal dus nog 'n geruime tyd duur voordat genoeg fondse beskikbaar is vir die streektak om die boekprys self te borg.

Dit is laastens vir my baie aangenaam om alle lede van die Vrystaattak hartlik te bedank vir die entoesiasme, goeie samewerking en gereëide bywoning van die vergaderings die afgelope jaar.

F.C. BOTHA

SAGP-SUIDWES-KAAPSTREEK, VERSLAG VIR 1987

1. Personalia

Gelukwense aan die volgende persone:

- Prof. Kristo Pienaar met die Dekorasie vir Voortreflike Diensklas Goud, wat hy van die Staatspresident ontvang het.
- Dr Peter Linder wat die WNNR Presidents Toekenning ontvang het. Ons Genootskap is opreg trots op hierdie prestasie want dit is die tweede agtereenvolgende jaar dat 'n lid van die Suidwes-Kaapstreek hierdie toekenning ontvang.
- Prof. Eugene Moll met sy bevordering tot volle professor in Plantkunde aan die Universiteit van Kaapstad.
- Dr William Bond met sy aanstelling as Senior Lektor in Plantkunde aan die Universiteit van Kaapstad.
- Dr Willy Stock met sy aanstelling as lektor in Plantkunde aan die Universiteit van Kaapstad.
- Dr Neville Brown wat die leiding gaan neem i.v.m. saadnavorsing aan Kirstenbosch.
- Dr Fiona Getliffe Norris met haar aanstelling as Direktrise: Opvoeding en Inligting te Kirstenbosch.
- Dr Richard Norris met sy aanstelling aan die Compton Herbarium.
- Charlie Boucher wat sy Ph.D-graad aan die Universiteit van Stellenbosch behaal het.
- Pauline Perry wat haar M.Sc. behaal het.

Ons gelukwense aan Professor Eloff en Kirstenbosch wat vanjaar vir die eerste keer self die inskrywing vir die Chelsea Blommeskou hanteer het en 'n goue medalje gewen het.

2. Lidmaatskap

Die ledetal van ons Genootskap in die Suidwes-Kaapstreek is tans 172, wat 12 meer is as gedurende 1986. Hiermee 'n hartlike welkom aan die nuwe lede en ons vertrou dat hulle vuur en vlam is om bydraes tot die werksaamhede van die genootskap te maak.

3. Bestuur

Die bestuur het vanjaar bestaan uit: mnr J. Aalbers (Voorsitter), mnr C. Hilton-Taylor (Onder-Voorsitter), mej. C. Liengme (Sekretaresse/Penningmeester), mej. A. le Roux, mej. B. Marais, mev. J. Scott.

Van hierdie lede verstryk die termyn van die voorsitter en mej. A. le Roux en C. Liengme. Skriftelike nominasies vir die vakante poste is aangevra en ontvang. Twee formele bestuursvergaderings is gedurende die jaar aan die Universiteit van Wes-Kaapland gehou.

4. Vergaderings

Gedurende 1987 is drie vergaderings gehou waartydens die volgende aangebied was:

4.1 Woensdag 20 Mei 1987 in die Ateljee, Botaniese Tuin, Universiteit van Stellenbosch (26 lede, 32 besoekers en 12 verskonings)

Die tema was: 'Ecology and Conservation in Planning and Development'. Die volgende sprekers was uitgenooi om hulle standpunte te stel:

1. R.C. Hill (Dept. Environmental and Geographical Sciences, U.C.T.) 'How and when the ecologist fits into the process of integrated environmental appraisal'.
2. V. Theunissen (C.P.A. Town and Regional Planning) 'Environmental components of current coastal planning'.
3. C. Gaigher (C.P.A. Nature and Environmental Conservation) 'Practical aspects of environmental evaluation'.

4.2 Vrydag 24 Julie 1987 by die Tennisklub, Universiteit van Kaapstad (± 80 besoekers)

Hierdie byeenkoms is gereël om die senior en nagraadse studente van die drie suidelike universiteite bymekaar te bring sodat hulle mekaar kan leer ken.

Die volgende program is aangebied:

1. Mev. M. Jarman - On conservation research
2. Prof. A.V. Hall - On the future of systematics and taxonomic research in South Africa
3. Mr D. Schreuder - Biologie-onderrig en bewaringsopvoedkunde

Volgens die studente en ander besoekers was die byeenkoms baie geslaagd en sou hulle dit as 'n jaarlikse instelling wou sien, maar verkieslik aan die begin van die akademiese jaar.

4.3 Woensdag 23 September 1987 in die Senaatsaal, Universiteit van Wes-Kaapland (19 lede en 14 besoekers)

1. Mnr J. Feely - Which came first where in the Transkei - the farmer or the grasslands
2. Mnr J.C. Coetzee - Die kweek van Suid-Afrikaanse eetbare sampioene
3. Mnr P.M. McLaren - Avena fatua L. and Briza maxima L. as indicators of soil nutrient status in the Fynbos Biome.

5. Buitelandse besoekers

Die volgende buitelandse plantkundiges het ons streek gedurende die afgelope jaar besoek:

Dr R. Herd - Heidelberg - Duitsland, Dr Hsin Shing Tsay - Taiwan, Dr L.D. Moore - Virginia State University, V.S.A., Dr P. Goldblatt - Missouri Botanical Gardens, V.S.A., mnr D. Masson - Herbarium Genève, Switzerland, prof. H.A. Froebe en dr R. Classen van die Technische Hochschule, Aachen, Duitsland.

6. Ander aktiwiteite

6.1 'n Hele aantal van ons lede is aktief betrokke by die volgende projekte:

Die Fynbosbloomprojek, die Karoobloomprojek, die Woudbloomprojek.

6.2 Kim Steiner was uitgenooi om tydens die 14de Internasionale Botaniese Kongres wat gedurende Julie in Berlyn gehou was, 'n voordrag te lewer oor: 'Oil-collecting bees and oil-producing flowers in South Africa'.

6.3 Barry Low het by dieselfde kongres 'n referaat gelewer oor: 'Nutrient patterns in Southern hemisphere heathlands with special reference to South Africa'.

6.4 Ernst van Jaarsveld het gedurende Mei vanjaar, op uitnodiging van die 'Cactus and Succulent Society of America', 'n aantal lesings in die V.S.A. gegee.

6.5 Professor C.T. Johnson gaan 'n referaat lewer by die gesamentlike kongres van die 'International Union of Forestry Research Organisations' en die 'International Association of Wood Anatomists' wat vanaf 9 tot 11 Desember 1987 in Parys (Frankryk) gehou sal word. Ons beste wense vergesel hom.

Bedankings

Graag wil ek my bestuurslede van harte bedank vir hulle puik samewerking durende die jaar. 'n Spesiale woord van dank aan my sekretaresse/penningmeester, Christine Liengme, wat die meeste van die werk gedoen het. Ook my opregte dank aan die uittredelede. My dank aan Professor Eloff en Kirstenbosch vir die fasiliteite wat tot ons beskikking gestel is en aan Jill Scott, Christine Liengme en hulle mede-werkers vir die verversings wat vir ons voorberei is.

J. AALBERS

VERSLAG OOR DIE INTERNASIONALE UNIE VAN BIOLOGIESE WETENSAPPE (IUBW)

VIR 1987

Die volgende sake is waarskynlik vir lede van die SAGP van belang:

1. As gevolg van druk wat die Nasionale Komitee van die IUBW op die WNNR uitgeoefen het, is daar besluit dat die SNO 'n spesiale Taksonomie Stimuleringsprogram in Suid-Afrika van stapel gaan stuur. Die program sal hoofsaaklik gemik wees op die stimulering van plant-

taksonomie aangesien die behoefte vir so 'n stimuleringsprogram nie ewe sterk deur die dierkundiges aangevoel word nie.

2. Die Nasionale Komitee van die IUBW oorweeg dit tans om by die IUBW aan te beveel dat 'n nuwe internasionale navorsingsprogram oor die 'Uitwerking van droë toestande op lewende organismes' van stapel gestuur behoort te word. Hopelik sal Suid-Afrikaanse navorsers 'n aansienlike bydrae tot so 'n program kan maak. So 'n program sal ook die fisiologiese droogte wat deur hoë souttoestande veroorsaak word, insluit.

3. Die volgende Algemene Vergadering van die IUBW sal van 17 - 24 Oktober 1988 in Canberra, Australië, gehou word.

4. Die 14e Internasionale Botaniese Kongres, wat onder die IUBW ressorteer, is vanaf 24 Julie tot 1 Augustus 1987 in Wes-Berlyn, Duitsland gehou. Dit was 'n baie geslaagde byeenkoms wat deur sowat 4 000 persone meegemaak is. Sowat 30 Suid-Afrikaners het die kongres wat al om die vyf jaar gehou word, bygewoon.

VERSLAG OOR DIE GESAMENTLIKE RAAD VAN NATUURWETENSKAPLIKE VERENIGINGS (GRNV) VIR 1987

Die GRNV se volle Raad vergader teenswoordig net tweekeer per jaar en die tweede vergadering van 1987 word eers op 1987.11.26 gehou. Hierdie verslag handel dus hoofsaaklik oor die vergadering wat in Junie vanjaar gehou is. Die volgende aspekte sal waarskynlik vir SAGP-lede van belang wees:

1. Die GRNV doen baie moeite om die beeld van die natuurwetenskappe onder skoliere en die algemene publiek te verbeter. Hy werk grootliks deur die SAUK se radio- en televisieprogramme. Dit is egter 'n moeilike taak wat voortdurende aandag verg. 'n Beroep word op lede van lidverenigings soos die SAGP gedoen om geskikte materiaal aan Archimedes en Spectrum voor te lê vir publiserings en verspreiding onder skoliere en onderwysers.

Tydens die hersiening van die skoolsilabusse, sal die GRNV in die toekoms ook vir kommentaar gevra word.

2 Daar is besluit dat alhoewel die meeste bioloë ten gunste van die skepping van 'n Nasionale Instituut of Raad vir (Fundamentele)

Biologie is, die tyd nie nou geleë is om die saak te probeer deurvoer nie. Die projek word gevolglik voorlopig bevries.

3. Prof. P. Tobias van die Universiteit van die Witwatersrand sal die 1988 Prestige Lesing van die GRNV op 24 Augustus in die Senaatsaal van Unisa in Pretoria lewer.

4. Korrespondensie met minister Schlebusch, het aan die lig gebring dat die regering in 1980 besluit het om weg te doen met alle Adviseursposte. Gevolglik is daar nie nou enige hoop om die pos van 'Wetenskaplike Raadgewer van die Eerste Minister' weer ingestel te kry nie.

5. Aangesien die Regering dit nie as die funksie van SARN sien om hom met die salarisse van natuurwetenskaplikes te bemoei nie, het SARN nou die GRNV versoek om hierdie selfopgelede funksie by hom oor te neem. Die GRNV is besig om te besin of hy geldelik en andersins oor die vermoë beskik om die opdrag suksesvol te kan onderneem.

6. Die nuwe Uitvoerende Komitee van die GRNV is die volgende:

Prof. A.J. Schutte - President
Dr. P.S. Steyn - Pasultgetrede President
Dr B.W. Strydom - Uitgetrede President
Prof. A.J. Reinecke - Senior Vice-President
Dr J.H. Hofmeyr - Junior Vice-President
Dr D.F. Toerien - Ere-Sekretaris/Tesourier

N.GROBBELAAR

HABITAT COUNCIL (REPORT FOR 1987)

The Habitat Council continues to act as a 'watchdog' co-ordinating council for a large number of organisations from the private sector. It has been active in this role on a variety of environmental issues that have come into prominence during the past year. Only a few of these can be highlighted here and are briefly mentioned below.

Atmospheric pollution on the Eastern Transvaal Highveld. The Habitat Council carries a watching brief on this matter which is highly topical and giving rise to increasing concern. It is noted with appreciation that there is full co-operation between the public and the private sectors as well as statutory bodies. It is clear that much greater inputs in research and monitoring activities are needed. It is also gratifying to record that this challenge has been taken up by all concerned and much greater investment of money and manpower in this important problem area is likely to ensue.

Blouberg and Mariepskop. The conservation status of these two interesting massifs in Lebowa has been of great concern for a long time. It seems that there is some hope for the better safeguarding of the biological diversity and irreplaceable ecosystems of these sites of special scientific interest.

Coastal areas. Coastlines, estuaries and coastal plains regularly come into prominence as their sensitive ecosystems are increasingly threatened by various developments.

A variety of environmental issues regularly come up for investigation. They are too numerous to be dealt with individually in this report, but it is clear that the Habitat Council has an active role as a focussing mechanism for the eyes of the private sector and that it should continue to enjoy the support of private organisations such as the South African Association of Botanists.

J.C. SCHEEPERS

VERSLAG OOR RAAD VIR WETENSKAPLIKE PUBLIKASIES (RWP) VIR 1987

Die volgende sake wat bespreek is, is waarskynlik vir lede van die SAGP van belang:

1. Pogings deur die RWP om die Natuurbestuurvereniging van suidelike Arika en die Suid-Afrikaanse Instituut van Ekoloë te kry om eersgenoemde vereniging se tydskrif (Suid-Afrikaanse Tydskrif vir Natuurnavorsing) as 'n gesamentlike nasionale tydskrif uit te gee, het op 'n doelpunt uitgeloop en daar is besluit om die saak voorlopig daar te laat.
2. Bestaande nasionale tydskrifte word aangemoedig om dikker nommers van hoër gehalte uit te gee en om waar nodig, meer nommers per volume uit te gee. Sodoende sal 'n groter leserskring en trefkrag vir die tydskrif op internasionale gebied verseker word.
3. Redakteurs moet toesien dat nasionale tydskrifte hul identiteit behou deur nie materiaal te publiseer wat eintlik in 'n ander nasionale tydskrif tuis behoort nie. Die Suid-Afrikaanse Tydskrif vir Wetenskap behoort hom toe te spits op navorsingsartikels waarvoor daar nie 'n nasionale tydskrif bestaan nie asook op navorsingsartikels van 'n multidissiplinêre aard.
4. As 'n gevolg van die gebrek aan fondse sal dit in die toekoms moeiliker gaan om addisionele nasionale navorsingstydskrifte te begin as in die verlede.

AGTERGROND VAN DIE GRNV

Die Gesamentlike Raad van Natuurwetenskaplike Verenigings (Joint Council of Scientific Societies, JCSS) is in 1968 gestig en vul 'n besondere plek in die bedrywighede van georganiseerde natuurwetenskappe in die RSA, aangesien ongeveer 15 000 natuurwetenskaplikes deur hul vakverenigings aan die GRNV behoort. Die GRNV vervul aldus 'n belangrike koördinerende taak en die GRNV kan met gesag as mondstuk van natuurwetenskaplikes optree, o.a. ook met verstoë tot beleidmakers in die land ten opsigte van die bedryf van die natuurwetenskappe. Die name van die lidverenigings verskyn hieronder.

Die GRNV het 'n kardinale rol gespeel in die daarstelling van SARN en was die voog van die Suid-Afrikaanse Tydskrif vir Wetenskap.

Die GRNV het 'n belangrike taak om die natuurwetenskappe op alle vlakke van die samelewing te bevorder en strewe ook die volgende algemene doelstellings na:

Om deur die skeppende vermoë van natuurwetenskaplikes die algemene welsyn van die samelewing te help bevorder.

Om samewerking onderling tussen lidverenigings en verskeie natuurwetenskaplike dissiplines aan te wakker.

Om, in die openbare belang, as kanaal te dien waarlangs belangrike idees en berigte aan natuurwetenskaplikes oorgedra kan word.

Lidmaatskap

Die Geassosieerde Wetenskaplike en Tegnieuse Vereniging van Suid-Afrika
Royal Society of South Africa
Vereniging van Natuurwetenskap en Tegniek van die S.A.
Akademie vir Wetenskap en Kuns
Die S.A. Genootskap vir die Bevordering van die Wetenskap
Die S.A. Chemiese Instituut
Die S.A. Genootskap van Plantkundiges
Die S.A. Instituut vir Fisika
Die S.A. Wiskundevereniging
Die Dierkundige Vereniging van Suidelike Afrika
Die S.A. Vereniging vir Mikrobiologie
S.A. Vereniging vir Diereproduksie
S.A. Biochemiese Vereniging
Die Geologiese Vereniging van Suid-Afrika
Die Grondkundevereniging van Suid-Afrika
Die Suider-Afrikaanse Instituut van Boswese

Affiliaatlede

Die Spektroskopiese Vereniging van Suid-Afrika
Die Elektronmikroskopiese Vereniging van Suidelike Afrika
Organisasie van Teoretiese Fisici
Suid-Afrikaanse Optiese Vereniging

Die Suid-Afrikaanse Kristallografiese Vereniging
Die Vakuumvereniging van Suid-Afrika
SA Keramiekvereniging
Die SA Voedingsvereniging
SA Geografiese Vereniging
SA Geofisiese Assosiasie
Entomologiese Vereniging van Suidelike Afrika
SA Vereniging van Mariene Biologiese Navorsing
Natuurbestuurvereniging van Suidelike Afrika
Operasionele Navorsingsvereniging van Suid-Afrika
SA Statistiese Vereniging
Die Wiskundegenootskap van Suid-Afrika
SA Vereniging vir Plantpatologie

Dr P.S.Steyn uit SARN Bull. 2, Junie 1987

Scientific journals - origin and development

The first issue of a scientific paper in journal-form was published in Paris on 5 January 1665. This had become necessary because of the development of the sciences. It was called Le Journal de Savants and written in French, which represented a dramatic break with the usual scholarly practice of writing in Latin. The same year, the Royal Society Philosophical Transactions in England came out with the first periodical in the area of natural sciences, and one that is still published today. Three years later, Il Giornale de Letterati appeared in Rome, and 12 years later, Acta eruditorum in Leipzig, which is generally regarded as marking the beginning of scientific publications as a whole.

REDAKTRISE/EDITOR

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