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

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MARY RAND : Botanists were shocked at the untimely death at the end of last year of one of their colleagues, Mrs. May Rand.

Mary Frazer Thompson was born in Johannesburg on 24 October 1941 and after her education at St. Mary's School, Waverley, went on to the University of the Witwatersrand. Straight after obtaining her B.Sc. degree she was awarded the Edward Muspratt Solly Scholarship. This scholarship allows a taxonomic botanist to spend one year at the Compton Herbarium, Kirstenbosch studying herbarium techniques and getting to know the Cape Flora. During her stay at Kirstenbosch in 1964 Mary was guided into her future career by Miss W.F. Barker.

Little did Mary realise when she applied for work at the Botanical Research Institute, Pretoria, that her first posting would be back in the Cape at the Government Herbarium, Stellenbosch, as my assistant in January 1965. Thus began a long association with this herbarium.

While working at Stellenbosch Mary studied for her B.Sc. (Hons.) degree (1968) and then obtained her M.Sc. degree (1972), both from the local university. Her thesis was on aspects of the family Hypoxidaceae in which she had been interested for many years.

Mary enjoyed her field work right from her first collecting trips with the Kirstenbosch staff. This was of considerable importance for her work as a herbarium taxonomist. In all she collected 4042 specimens mostly from the south-western and southern Cape and Namaqualand. She also joined a Witwatersrand University Trans-Kalahari Expedition in 1973. I was fortunate in having Mary accompany me on many of my field trips. It is on such trips that one really gets to know a person and so I learnt to appreciate her pleasant friendship and genuine dedication to botany. In the office she had a quiet and thorough attitude towards work. She was known for accurate and well researched determinations.

In August 1970 Mary took over as Curator of the Herbarium, a post she held for nine years. Her colleagues found her always ready to help and a valuable critic in dealing with specimen identifications or with manuscripts given for comment. With her staff she had a quiet and honest approach which engendered in them those rare qualities of respect and devotion so essential for a harmonious relationship.

In 1978 Mary married Dr. R.W. Rand of the Cape Provincial Department of Nature and Environmental Conservation. Unfortunately for botany she left Stellenbosch at the end of 1979 to raise a family. This of course would have kept her away from her botany for some time, but she had every intention of returning to research on a part-time basis to continue her revision of the Hypoxidaceae.

Not long after the sad death of her second child, Letitia, soon after birth, Mary was found to have cancer. During the next six months until her death on 10 December 1982 she gained the admiration of her friends by facing her illness with such courage and fortitude. Even on the day before she died she was able to think of her old Herbarium in Stellenbosch and of the well-being of her former colleagues.

Mary is survived by her husband, Robert, and young son, Andrew, her parents and a brother and sister. Her father, Dr. S.B. Thompson, is secretary of the Johannesburg Branch of the Bot. Soc. To them all we offer our heartfelt sympathies. The botanical world has lost a fine dedicated colleague and many of us a very good friend. (E.G.H.O.)

INTERNATIONAL ASSOCIATION FOR PLANT PHYSIOLOGY: EXTRACTS FROM THE RECENT NEWSLETTER:

NEW MEMBER: IAPP welcomes New Zealand which joined early in 1982. New Zealand's representative is Dr. K.J. Bennett, Secretary/Treasurer of the New Zealand Society of Plant Physiologists. (Address: Plant Physiology Division, DSIR, Private Bag, Palmerston North, New Zealand.)

INTENDING NEW MEMBERS: As a result of the meetings held during the XIIIth International Botanical Congress in Sydney in 1981 (see Report below) the following nations expressed interest in either joining IAPP or forming a new national or regional association of plant physiology, with a view to joining IAPP in the future:

- |          |           |             |
|----------|-----------|-------------|
| . China  | . Mexico  | . Singapore |
| . Egypt  | . Nigeria | . Thailand  |
| . Jordan | . Poland  | . Venezuela |

The following have subsequently expressed interest in becoming members of IAPP:

- . Latin American Association of Plant Physiologists.
- . Society of Plant Physiology and Biochemistry, India.

NEW SECRETARY/TREASURER : As indicated in the newsletter of December 1980 Dr. C.P. Whittingham (U.K.) resigned as Secretary/Treasurer from 31 December 1980, and the position was taken up by Dr. Douglas Graham (Australia). All matters should therefore be addressed to Dr. Graham at: Plant Physiology Group, Food Research Laboratory, CSIRO, P.O. Box 52, North Ryde, N.S.W. Australia 2113. The files and financial affairs of IAPP have been transferred to Australia. Our thanks go to Dr. Whittingham for his very able management of IAPP affairs during his tenure of this office and for the smooth transition as the new Secretary/Treasurer took up his duties.

ACTIVITIES DURING 1981: The major activities of IAPP during 1981 centred around the XIIIth International Botanical Congress, held in Sydney, Australia, during August 1981. IAPP was widely advertised and promoted at the IBC. A General Meeting, open to all interested plant physiologists, was held to discuss aims and policies. Although it was attended by only about 50 people - there were many competing activities(!) - a very lively discussion was held which proved valuable in developing new policies at the IAPP Council Meeting which was held later in the Congress. A report of the Council Meeting is given in this Newsletter. An IAPP Dinner was also held during IBC and was attended by nearly 100 people representing some 25 countries.

IAPP COUNCIL MEETING: An IAPP Council Meeting was held at the IBC, Sydney, 27 August 1981.

Representation: The meeting was chaired by the President, A. Quispel (The Netherlands), supported by the Secretary/Treasurer, D. Graham (Australia) and was attended by delegates, or their representatives, of the following member countries:

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| . Australia (Dr. D.F. Gaff)  | . Austria (Prof. Dr. G. Repp)   |
| . Belgium (Dr. R. Valcke)  | . Canada (Prof. R. Bolduc)  |
| . France (Prof. C. Lance)  | . Hungary (Dr. P. Maliga)   |
| . India (Prof. V.S. Rama Das)  | . Japan (Prof. S. Miyachi)  |
| . Scandinavia (Prof. A. Kylin,<br>representing Scandinavian<br>Society of Plant Physiology)  | . South Africa (Prof. N. Grobbelaar)  |
| . U.S.A. (Prof. F.B. Salisbury),<br>representing American Society<br>of Plant Physiologists) | . Switzerland (Prof. P. Schurmann)  |
|  | . United Kingdom (Prof. J.E. Dale,<br>representing Society for<br>Experimental Biology) |

Dr. A.E. Cocucci (Argentina) was unable to attend.

Observers : The meeting was also attended by observers from the following countries or organisations who expressed an intention to join IAPP or to form new societies with a view of joining later:

Prof. Jingyu Duan, Prof. Jinshan Ni and Prof. Jiao-nai Shi (China),  
Prof. J.E. Dale (Federation of European Societies of Plant Physiology),  
Dr. H. Doddema (Jordan), Dr. R.J. Field and Dr. B.J. Forde (New Zealand),  
Prof. F.A. Onofeghara (Nigeria), Prof. A. Larque-Saavedra (Mexico),  
Prof. R. Antoszewski and Prof. Z. Starck (Poland),  
Prof. P.N. Avadhani (Singapore), Dr. Wongchan Wongkaew (Thailand),  
Prof. N.R. Iyer (Venezuela).

Prof. A. Ansour (Egypt) was unable to attend.

Election: The Executive positions of President, Vice President and General Secretary/Treasurer were declared vacant, according to the Constitution.

The following nominations were received:

President, Prof. A. Quispel (The Netherlands),  
Vice President, Prof. W.M. Laetsch (U.S.A.), and  
General Secretary/Treasurer, Dr. D. Graham (Australia).

On the proposal of Prof. N. Grobbelaar (South Africa) and Prof. P.N. Avadhani (Singapore) the meeting agreed unanimously to the election of the above nominees. The Secretary/Treasurer proposed that an extended Executive Committee be formed to widen the representation of the Executive Committee. There was considerable discussion about whether the extra members should represent regions or individual member nations, the consensus being that regionalisation of IAPP should not be encouraged. Three nominations were made:

Prof. P.N. Avadhani (Singapore)  
Prof. Dr. A. Larque-Saavedra (Mexico)  
Prof. F.A. Onofeghara (Nigeria).

The proposal of Prof. J.E. Dale (U.K.), supported by Prof. R. Bolduc (Canada) that the three nominees be elected till the next Council Meeting was carried with one against.

The Vice President, Prof. W.M. Laetsch, U.S.A. has reluctantly had to resign his position on taking up a Vice-Chancellorship at the University of California, Berkeley. It is expected he will be replaced by another member of the American Society of Plant Physiologists.

New Policies: The role of IAPP was discussed at some length. There was a general view, expressed both at the Council Meeting and at the General Meeting,

that IAPP had been somewhat ineffectual in developing international collaboration among plant physiologists, mainly due to the difficulties and costs in organising scientific meetings. This confirmed the views expressed in the IAPP Questionnaire reported in the last Newsletter. A major proposal from the General Secretary/Treasurer that IAPP should foster the linking together of plant physiologists from the developed and developing nations was agreed to in general principle. It was suggested that the means of carrying out this policy would be through regional meetings (workshops/seminars), preferably in developing nations, on topics of mutual interest. Some topics suggested include:

- . Temperature stress - cold and heat
- . Water stress - arid zone physiology
- . Postharvest fruits and vegetables, especially in the tropics
- . Floriculture (propagation, growth control, postharvest)
- . Plant physiology in the service of plant breeding (including tissue culture, assays for stress tolerance, genetic engineering in plants)
- . Nitrogen fixation
- . Salinity
- . Grassland productivity in the tropics
- . Physiology of pollution
- . Physiology of plantation crops

It was recognised that the key to the successful implementation of such a policy will be the provision of finance from international agencies and host countries, together with the willingness of individuals and groups to organise such meetings. Informal information from UNESCO, obtained through the Australian Ambassador to UNESCO, Prof. R.O. Slatyer (who is a plant physiologist), indicated that to be successful in obtaining funds from UNESCO or other UN Agencies it will be necessary to extend considerably the international representation of IAPP. The Secretary/Treasurer is therefore giving high priority to encouraging new members to join IAPP before approaching international agencies for finance. The response to the call for new member nations or regional associations at the IBC in Sydney was very encouraging, although to date only New Zealand has formally joined. It is appreciated that it will take some time for new societies to form themselves and a report on their progress will be requested soon. The new Executive Committee members from Nigeria, Mexico and Singapore should help further these general aims expressed at the Council Meeting and, incidentally, come from geographically disparate regions not previously represented on IAPP.

Subscriptions: In view of rising costs, IAPP Council, at the IBC in Sydney, decided to increase subscriptions, beginning in 1982. The new rates for 1982 are:

Societies with less than 100 members	-	A\$15
101 - 200 members	-	A\$60
201 - 300 members	-	A\$90
more than 300 members	-	A\$120

It was agreed that newly formed Societies who wished to take up membership of IAPP could do so and the membership fee would be waived for the first year. This was decided so that new Societies, who might initially have only a few members, would not be unduly burdened financially by the IAPP membership fee. The fee for smaller Societies (less than 100 members) was also kept low for this reason. This is in accord with the new policy of IAPP to increase international representation as widely as possible.

IAPP Council also decided that those countries which severely restricted foreign currency exchange, thereby preventing payment of subscriptions to IAPP, could use their IAPP subscriptions internally to foster the aims of IAPP. The wide circulation of the IAPP Newsletter and other IAPP materials within such countries would fulfill this requirement. The Secretary/Treasurer would be grateful if national representatives of such countries would advise him as soon as possible if their country comes into this category. However, members of IAPP are urged to pay their subscriptions wherever possible since the continued existence of IAPP obviously depends on our remaining financially viable.

IAPP FINANCES: The funds held by IAPP in June 1982 are around Australian \$1,000 and are being audited. The 1982 subscription is now due and subscription forms are enclosed for National Representatives. The low level of funds causes some concern, although it is hoped that the increased level of subscription will improve the situation - providing members pay when called upon to do so. The rising costs of printing and postage must be met from our limited resources.

IAPP INTERNATIONAL DIRECTORY: The directory information is now established on computer file with the American Society of Plant Physiology (ASPP) (P.O. Box 1688, Rockville, Maryland, U.S.A. 20850). The file contains some 10,000 names of plant physiologists with some slight duplication, due to some persons being members of more than one plant physiological organisation. Unfortunately, some nations did not send in their membership lists but should they now wish to do so the computer file can be readily up-dated. The nations/organisations represented are:

Argentine	Australia	Austria
Belgium	Canada	Denmark
Finland	France	Hungary
Italy	Japan	Norway
Poland	South Africa	Spain
Sweden	Switzerland	The Netherlands
United Kingdom	U.S.A. (ASPP)	U.S.A. (IPGSA)
West Germany		

The cost of a print-out to IAPP members and individuals is U.S.\$60 (including postage) payable to ASPP to cover costs. The list will also be sold to companies etc. for \$500 for a complete print-out or \$300 for national or regional listings (i.e. a partial print-out) to raise funds for IAPP. ASPP has requested that all applications for print-outs of the Directory be processed through the Secretary/Treasurer of IAPP, to establish the bona fides of the applicants.

The possibility of producing a Directory Booklet is being considered but the costs are very high. One possibility would be to combine with the American Society of Plant Physiologists and produce such a booklet every three years or so. The cost to individuals would be about \$3, depending on the number printed. It would be necessary to sell several thousand individual copies to cover costs, which could total about U.S.\$10,000. The Secretary/Treasurer would be interested in members' opinions on this matter.

IAPP BOOKLET: Copies of the booklet entitled "Tentative Recommendations of Terminology, Symbols and Units in Plant Physiology" are still available from the Secretary/Treasurer, price \$3 (Australian) to cover costs.

Prof. F.B. Salisbury (Department of Plant Science, Utah State University, Logan, Utah, 84322 U.S.A.) has kindly agreed to undertake the revision of the booklet. All comments and suggestions relevant to the revision should be sent to Prof. Salisbury.

IAPP MEDAL: Professor R. Bolduc (Canada) has suggested that an IAPP Medal should be awarded. This was also suggested to IAPP years ago but did not eventuate. The views of members are requested on a) the desirability of awarding a medal, b) the type of recipient, e.g. whether there should be an age limit and means of selection and frequency of the award, and c) the means of financing the striking of a medal (cost \$1000?).

IAPP NEWSLETTER : In the past information about IAPP has had limited international distribution. Secretaries of national and regional societies are

encouraged to abstract information from this Newsletter for dissemination in their own newsletters. Multiple copies of this IAPP Newsletter are being sent out to members for forwarding to centres with significant numbers of plant physiologists. While the coverage will not be complete, it is hoped that by circulating available copies more plant physiologists will be informed of the aims and activities of IAPP.

LIBRARIES IN DEVELOPING COUNTRIES: Books and journals are now very costly items. Many libraries appear to be restricting purchases and this is especially so in developing countries. Ways and means of overcoming these difficulties for developing countries are being sought. Your suggestions would be welcome.

GENERAL INFORMATION: A statement of policies and functions of IAPP is attached to this Newsletter, together with a list of the Executive Committee.

The Secretary/Treasurer would be pleased to receive the names and addresses of contacts in national or regional societies of plant physiology which are not presently represented in IAPP or contacts in countries, especially in the so-called developing countries, who might be prepared to form new societies of plant physiology. A kit of information is available on IAPP for potential members.

INTERNATIONAL UNION OF BIOLOGICAL SCIENCES (IUBS): The President and Secretary/Treasurer of IAPP represented IAPP at meetings of the Board of the Division of Botany and Mycology of IUBS held during the XIIIth International Botanical Congress in Sydney. The Board of the Division has representatives from the various Sections (for larger associations, such as IAPP) and Commissions (for smaller groups) which comprise the Division and expresses the wishes of the world-wide botanical community. The importance of these meetings was highlighted by the need for a resolution formulated to ensure the continuation of the Division itself which could otherwise disappear as a result of the forthcoming re-organisation of IUBS. Such a circumstance would also result in the end of International Botanical Congresses which are convened by the Division of Botany and Mycology. The resolution supporting continuance and strengthening of the Division was passed at the final Plenary Session of the XIIIth IBC. Hopefully this should ensure agreement at the forthcoming 21st General Assembly of IUBS in Canada.

Professor N. Grobbelaar (South Africa) - who is also the South African representative to IAPP - was elected Chairman and Professor K. Esser (W. Germany) Secretary of the Board of the Division, to represent the Division on IUBS.



The XIVth International Botanical Congress will be held in West Berlin, West Germany in 1987, at the invitation of Deutsche Botanische Gesellschaft.

S.A.A.B. EASTERN CAPE BRANCH, CHAIRMAN'S REPORT 1982 : At the first committee meeting of this branch (12.05.82) the "Careers Booklet", "Aims and Activities" leaflet, and post were discussed. Suggested improvements on these were communicated to the SAAM National Council. The perennial problem of assessing branch membership was solved early in the year when the National Secretary supplied an up-to-date list of all members.

It was noted at the second meeting (09.06.82) that the 1983 SAAB Congress at Wits, clashed with the "Sandy Beaches" symposium in Port Elizabeth. It is hoped that in future great care will be taken to avoid a similar clash which precludes members from attending the SAAM Congress.

Two excursions were arranged for members in 1982. The first, an invitation to Dr. M.C. Olivier's home to lunch, followed by a visit to the Aloe Reserve in the Valley Bushveld, was unfortunately cancelled at the last minute. This was a disappointment to six members who had made arrangements to travel to Port Elizabeth. The second excursion was a 2 day walk through pine and indigenous forest on the Amatola (Pirie) Trail near King Willim's Town, on 25/26 September. A booking was made for 20 members, however only two SAAB members went on the hike. Fortunately the rest of the booking was fully subscribed by members of the Wildlife Society. It is hoped that this lack of participation in both events does not indicate that South African botanists do not like walking in the veld!

On the positive side, the home activities of the branch have infected some of the young post-graduates at Rhodes. Dr. Lubke (Eastern Cape Regional Representative) reported that of the few new members mentioned at last Council Meeting, three were Rhodes post-graduate students. Two more students have recently enquired about joining the society. The small effort required to attract new members to the society is well worth while.

I would like to thank all committee members for their support during the past year. (G.D. Court, Chairman).

GRONDGEBRUIKKARTERING VAN SUIDWES-KAAPLAND MET BEHULP VAN LANDSAT-GEGEWENS.

Die Instituut vir Kartografiese Analise, Universiteit van Stellenbosch, wil graag sy jongste publikasie - GRONDGEBRUIKKARTERING VAN SUIDWES-KAAPLAND MET BEHULP VAN LANDSAT-GEGEWENS - onder u aandag bring. Die gedrukte verslag van 29 bladsye wat sewe tabelle en nege kaarte in volkleur insluit, is te koop teen 'n prys van

R20 per kopie.

Die verslag evalueer die bruikbaarheid van LANDSAT-beeldprodukte en beeldprosesseringstegnieke van die WNNR se Satellietafstandwaarnemingsentrum vir die identifikasie en kartering van grondgebruike op 'n streekskaal. Om hierdie doel te bereik is drie grondgebruikkaarte van 'n gedeelte van Suidwes-Kaapland op 'n skaal van 1 : 100 000 geproduseer deur respektiewelik van konvensionele lugfoto's, 'n LANDSAT-vals kleurbeeld en 'n rekenaarklassifikasie gebruik te maak. Hierdie drie grondgebruikkaarte is statisties met mekaar vergelyk om 'n aanduiding te verkry van die relatiewe betroubaarheid en tydsduur van elke werkswyse. Die verslag dokumenteer die resultate van hierdie vergelyking en kulmineer in 'n finale grondgebruikkaart van die gebied soos op Maart 1981.

Indien u die verslag wil aankoop kan u skryf aan:

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