POSBUS
P.O. BOX 3982 JOHANNESBURG SUID-AFRIKA
SOUTH AFRICA

ONSA ORSSA

OPERATIONS RESEARCH SOCIETY OF SOUTH AFRICA
OPERASIONELE NAVORSINGSVERENIGING VAN SUID-AFRIKA

APRIL 1973

NUUSBRIEF
NEWSLETTER

1. LIDMAATSKAP/MEMBERSHIP

Ons kondig met genoeë die volgende nuwe lede aan:
We are glad to announce the following new members:

VOLLEDE/FULL MEMBERS

R.J. Alford	(Western Cape)
C.F. Fiore	(Johannesburg)
W.F. Potgieter	(Johannesburg)
Prof. F.E. Steffens	(Pretoria).

MEDELEDE/ASSOCIATE MEMBERS

A.C. Botha	(Pretoria)
R.F. Cooper	(Pretoria)
Miss H.A. Grant	(Western Cape)
R.A. Grant	(Western Cape)
J.F. Hofmeyr	(Western Cape)
I.R. Kantor	(Johannesburg).

2. GESAMENTLIKE RAAD VAN NATUURWETENSKAPLIKE VERENIGINGS/
JOINT COUNCIL OF SCIENTIFIC SOCIETIES

Ons Vereniging se aansoek as affiliaatlid van die gesamentlike raad is goedgekeur, met die Wiskundige Vereniging as ons verteenwoordiger. Die raad wil graag die menings van lidverenigings inwin oor

(a) die behoefte aan skakeling met die S.A. Geneeskundige en Tandheelkundige Raad; en

(b) rasionalisering van nagraadse opleiding in die weten=skap.

As daar van ons lede is wat in hierdie sake belangstel, moet hulle onmiddellik in aanraking kom met die Sekretaris van ONSA (mnr. J. Wolvaardt, Pretoria 48-4800).

Our Society's/ .....

Our Society's application to become an affiliate member of the joint council has been accepted, with the Mathematics Society as our representative. The council has requested the opinions of member societies regarding

(a) the need for liaison with the S.A. Medical and Dental Council; and

(b) rationalisation of post-graduate training in the sciences.

If there are those of our members who have an interest in these matters, they should immediately contact the Secretary of ORSSA (Mr. J. Wolvaardt, Pretoria 48-4800).

3. KONGRESVERRIGTINGE/CONGRESS PROCEEDINGS 1972

Die kongresverrigtinge sal binnekort ter perse gaan. 'n Kopie word gratis aan die kongresgangers verskaf. Ander persone wat 'n kopie wil bekom, moet dit van die redakteur bestel voor 15 Mei. 'n Bestelvorm word aangeheg. (R5.00 elk).

The congress proceedings will be going to press shortly. One copy will be sent free of charge to all congress delegates, but others who wish to obtain copies must order them from the editor before 15th May. An order form is attached. (R5.00 each).

4. 1973 KONGRES/CONGRESS

Die 1973 kongres sal gedurende November by UNISA in Pretoria gehou word. Die sukses van die kongres is baie afhanklik van die gehalte van lesings wat gelewer word. Dit is dus noodsaaklik dat die komitee genoegsaam tyd het om moontlike referate te oorweeg, en dié wat be=langstel om 'n lesing tydens die kongres te lewer, word versoek om so spoedig moontlik met die sekretaris in aanraking te kom.

The 1973 congress will be held during November at UNISA in Pretoria. The success of the congress is very dependent on the quality of lectures delivered. It is thus necessary for the committee to have sufficient time in which to consider possible papers and those who wish to present a paper at the congress are requested to contact the secretary as soon as possible.

5. S.A. WISKUNDEVERENIGING/S.A. MATHEMATICAL SOCIETY

We have received the following communication from the Mathematical Society:

> We are planning a symposium on the present position of Applied Mathematics at our universities to be held during our Annual Congress at the University of South Africa,

Pretoria,/ .....

Pretoria, on 22 and 23 October this year. This symposium is a result of a motion passed at the Annual General Meeting last year. The motion was proposed by Dr. D.C.J. de Jongh and is as follows:

"Dit wil vir my voorkom of the huidige posisie van Toege=paste Wiskunde aan ons universiteite bespreking en oor=legpleging verg. Die volgende vrae kan gestel word:

(i) Wat behoort ons te verstaan onder Toegepaste Wiskunde?

(ii) Hoe relevant is die huidige leerplanne aan ons universiteite?

(iii) Hoe behoort ons leerplanne daar uit te sien om van die maksimum nut vir ons huidige situasie in S.A. te wees?

Ek wil dan die volgende vraag aan die vergadering vra:

Is dit eerstens wenslik en tweedens moontlik om 'n be=spreking oor hierdie saak te begin. 'n Aparte simposium hieroor of 'n bespreking by die volgende kongres kan miskien oorweeg word".

Daar word besluit om 'n sitting van anderhalf uur tydens die volgende Kongres te hou waarin die sake wat deur dr. De Jongh geopper is, bespreek sal word. Daar sal drie uitgenooide toe-sprake van 15 minute elk en diskussie wat opgeskryf sal word, wees. Dit sitting sal ook Statistiek en Rekenaarwetenskap dek".

The Council has decided to extend the symposium to 2 hours and to invite members of the audience to speak for up to 5 minutes each.

I am instructed to inform you that your Society is most welcome to send representatives to the symposium.

6. <u>FIRST INTERNATIONAL RESEARCH CONFERENCE ON OPERATIONAL RESEARCH, CHESTER, ENGLAND: 4th to 7th SEPTEMBER 1973</u>

The purpose of this conference is to enable an international group of operational researchers and management scientists to have a critical over-view of the state of knowledge in a number of areas in their subject. The reason is that with the rapid growth of various theories which contribute to our subject, there is a danger that we may get out of date with regard to theoretical developments and there is also a need for these developments to be matched in a critical, perhaps even cynical, way, against the real practical needs of the problems we are asked to solve.

Certain scientists/ .....

Die tak word bevoorreg om twee sulke sprekers uit dieselfde stal te hê. Albei het naamlik hul doktorsgrade behaal aan die Universiteit van Leyden, onder die welbekende prof. Zoutendijk. Prof. Roode promoveer al daar in 1968 en dr. Buys in 1972. Albei was lank verbonde aan die RAK waar dr. Buys tewens tans nog is. Prof. Roode het in Desember 1971 'n leerstoel in rekenaarwetenskap aan RAU aanvaar.

Dr. Buys sal 'n aantal numeriese metodes om nie-lineêre optimaliseringsprobleme op te los beskryf. Prof. Roode sal praat oor (nie)-lineêre programmeringsmetodes om numeriese analiseprobleme op te los.

Talle probleme in die praktyk en teorie leen hulle self eenvoudig nie tot oplos met behulp van die simpleksmetode en sulke bekende metodes nie, en gevolglik beloof beide lesings om insiggewend en van groot belang vir almal gemoeid met die bedryf en doseer van ON te wees.

Almal is welkom. Verversings sal bedien word.

<u>Junie</u>: Die spreker vir die Junie-vergadering van die tak sal dr. A.P.L. Kotzé van Yskor wees. Verdere besonderhede sal later bekend gemaak word.

(b) <u>Johannesburg</u>

<u>Previous chapter meeting</u>: This was held on March 28 and although both Dr. Avidan and Mr. Sankey were to speak, in fact only one of them did so. This was Mr. Sankey who sparked off many discussions during his talk on the use of OR techniques in the solution of puzzles. Many examples were given and suggestions put forward as to how these may be solved with or without the use of computers. Because of the interest in the topic and discussion generated, Dr. Avidan's contribution was held over to the next meeting.

<u>Next chapter meeting</u>: We have a change of venue for our next meeting. This will be held at 20 h 00 on 23rd May in the cocktail lounge of the Sunnyside Park Hotel. We hope you will all approve of this change. The speaker is Dr. Avidan who will be presenting his talk: "Evolution and Revolution as a Company grows".

<u>Gossip column</u>/ .....

<u>Gossip column</u>: Regular attenders at recent OR meetings may have been mystified by the action of a well-known boffin who seemingly deserts the cause of OR to engage in a somewhat unusual pursuit. This new-found interest appears to be the practical analysis of electrical equipment and it has been rumoured that, based on his observations, a new OR technique is soon to be launched! It is understood that this technique will have its debut in a paper to be read to the society entitled "The phenomenon of random discontinuity in polyphase sinusoidal networks"!

TJS/MdeV.
18.4.1973

KONGRESVERRIGTINGE EN JAARVERSLAG - 1972

CONFERENCE PROCEEDINGS AND ANNUAL REPORT - 1972

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O.N.S.A.,
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JOHANNESBURG.

voor 15 Mei 1973.

Mail this form to:

The Editor,
O.R.S.S.A.,
P.O. Box 3982,
JOHANNESBURG.

before 15th May 1973.