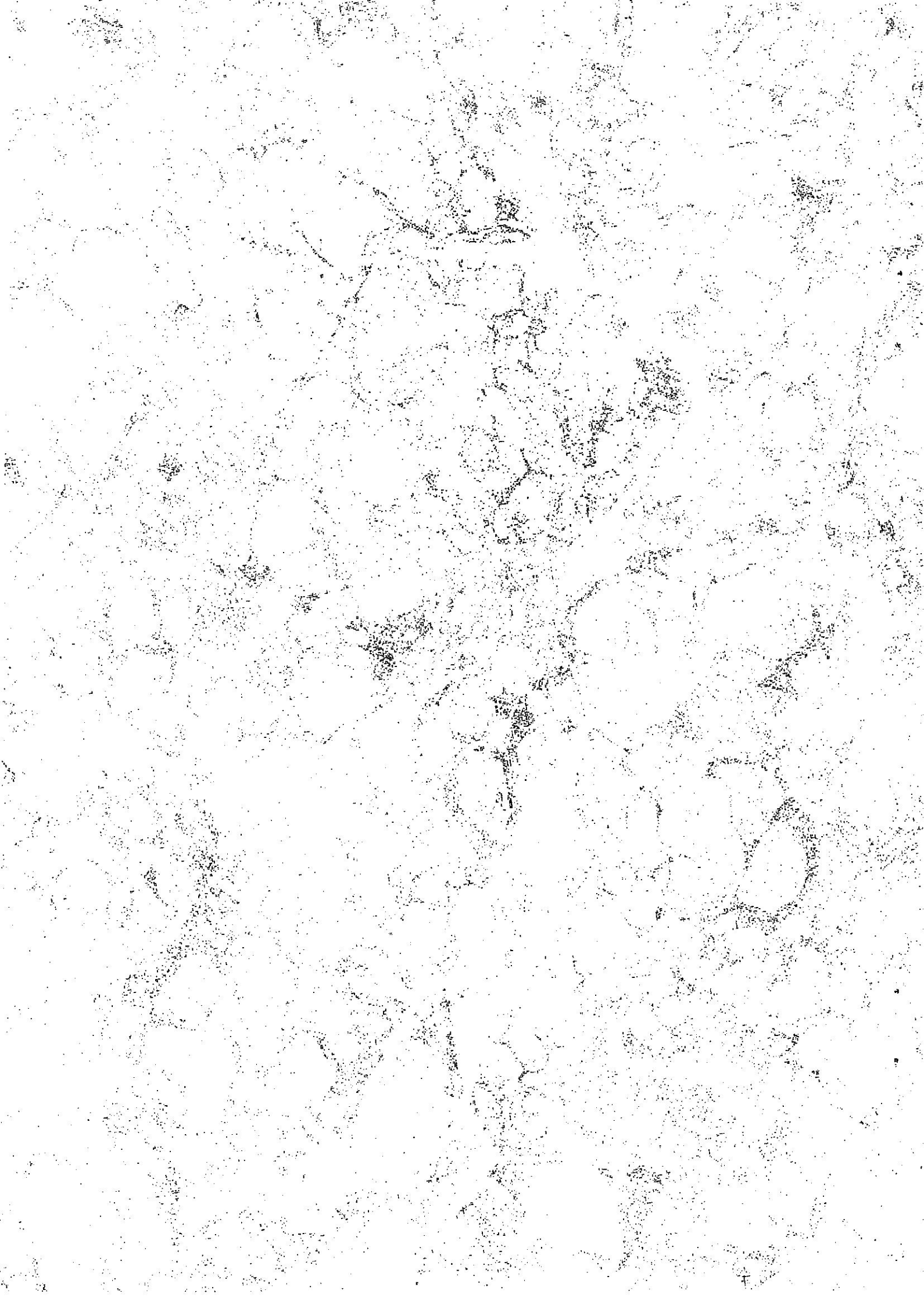


**PHYCOLOGICAL SOCIETY
OF SOUTHERN AFRICA**

**FIKOLOGIESE VERENIGING
VAN SUIDELIKE AFRIKA**

**NEWSLETTER
NUUSBRIEF**

**NO. 46
JULY 1998**



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SOUTHERN AFRICA

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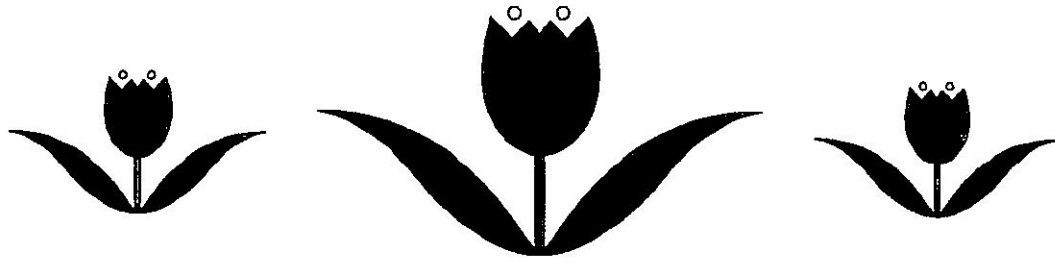


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LETTER FROM THE EDITOR

Hi everyone

Apologies for the delay in getting the first newsletter to you.

Hope all of you have had a productive year so far.

The 15 th PSSA Congress was a great success and on behalf of everyone, the organising committee from the University of Western Cape must be congratulated. PSSA was also well represented at the International Seaweed symposium. There can be no doubt that although we are a small society, members are active and productive. Enjoy the rest of the year.

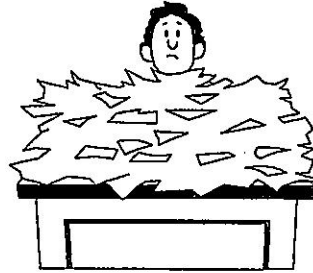
PSSA members regret the sad loss of Nigel Jarman, former staff member of the Seaweed Research Institute.

Contributions to the next newsletter edition would be much appreciated !!

Regards

Janine 

E-mail me now at : btajba@upe.ac.za



OBITUARY:
Nigel Geoffrey Jarman

It was with disbelief and sorrow that colleagues and friends of Nigel Jarman learnt of his death at sea in November 1997.

Nigel Jarman was born in Orpington, Kent, on January 9th 1944. His family moved to South Africa in 1947 and he attended school first in Natal, then Johannesburg and finally, from the age of 11, at Falcon College in Zimbabwe (then Rhodesia). The school encouraged outdoor activities and had its own game-park, and over the following years Nigel developed an enduring love of nature. He went on to complete a BSc Honours in Botany at the University of Natal in Pietermaritzburg, spending three long-vacations working as an assistant researcher in tsetse-fly control in the Zambezi Valley. After this he spent a year as an insurance clerk, before starting work as an ecologist in the Botanical Research Institute in 1969. He married Margaret Louise Steer in 1970. The following four years were spent doing vegetation surveys of the grasslands of the Orange Free State, work which earned him an MSc in 1977.

In April 1974 Nigel and Margie moved to Cape Town, where Nigel's career took a marine turn when he started work as an Oceanographic Researcher (ecologist) with the Seaweed Unit of Sea Fisheries, based in the Department of Botany at the University of Cape Town. He qualified as a scientific diver and subsequently as a diving supervisor, led a series of surveys and biological studies of South African commercial seaweeds, and was fully involved in several kelp studies that formed an integral part of the highly successful CSIR/Sea Fisheries/UCT "Kelp Bed Research Programme". He belonged to a number of professional bodies, and was a founder member of the Phycological Society of Southern Africa. In Cape Town Nigel developed an abiding love of the sea, and together with his fondness for adventure, this led him to participate in exploratory diving expeditions to Vema Seamount (1979), Alphonse Banks (1980) and Gough Island (1981). At that time, too, he

became passionate about sailing keelboats, and over an 11-year period, he sailed more than 40 000 km, with major cruises to and from the UK and Europe, Mauritius and other destinations. During one of these cruises the crew had the distinction of being rescued by the Ark Royal, after their yacht started taking water and heeling badly. Over the summer of 1984/85, Nigel and three others sailed the yacht *Diel* to Brazil, Uruguay, the Straits of Magellan, Chile, the Antarctic Peninsula, South Georgia, Gough Island and back to Cape Town. For this epic voyage, they earned the 1985 Gordon Burnwood Trophy, the foremost SA yachting award.

Nigel and Margie had a wide circle of friends in Cape Town, and their beachfront house at Kommetjie, with its magnificent view across to Hout Bay, was the scene of many memorable parties and conference-related functions. In 1989 they left South Africa to settle in New Zealand, where they bought a farm. A few years later Nigel began building a yacht of his own during each winter, in Cape Town, returning to New Zealand for the berry-picking and other farming operations in the summer. He completed his yacht, named "Mana" after the Mana Pools in Zimbabwe, and sailed it to Albany, Western Australia, at the end of 1996. In April 1997 he left Australia and sailed, single-handed, to Mauritius and Madagascar. He was on the final leg of this voyage, some two days from his destination of Cape Town, when *Mana* struck a submerged object, lost its keel, and capsized. The drifting hull was found some time later – ironically by a Sea Fisheries research vessel.

We will remember Nigel for his enormous enjoyment of life, his cheerfulness and his willingness to assist others: qualities that never faltered even under the most difficult or unpleasant conditions. He was always down-to-earth, and had no time for pompousness or pretence. He had many friends, and was owned by no-one. The idea of permanence held no appeal for him, and he died a free spirit, doing what he loved most.

Rob Anderson

*Minutes of the General Meeting of the
Phycological Society of Southern Africa
held 19 January 1998 at the Oatlands
Holiday Village, Simon's Town.*

The meeting was called to order by Bruce Robertson at 16:00.

Attendance: R. Anderson, M. Barreto, J. Bolton, T. Bornman, W. Burnett, E. Campbell, V. Coyne, H. Engledow, A. Foster, N. Griffin, S. Hampson, A. Jaffray, D. Keats, G. Maneveldt, C. Marangoni, B. Mitchell-Innes, F. Molloy, R. Pienaar, G. Pitcher, B. Robertson, S. Silva, M. Skeggs, A. Smit, P-P. Steyn, S. Sym, D. Walker.

1. Apologies:

Janine Adams, Derek du Preez, Graham Levitt, André Share

2. Matters arising:

2.1 Presidential Address

Rob Anderson presented his presidential address at the 1998 congress.

2.2 Congress 1999

Fergus Molloy has agreed to host the 1999 congress: it will be held at Swakopmund. **Action: FM**

Letter to NBI

Bruce Robertson reported that the letter sent to NBI had been passed on to SAAB. SAAB acted on the letter by sending PSSA a letter inviting us to rejoin with SAAB and give up our separate identity. The matter was held over to item 5 on the agenda.

NBI's response was that we should find the money for algal taxonomic work ourselves. The Biodiversity and Systematics group may be worth watching. John Bolton felt that we should challenge Brian Huntley on the issue. SAAB is a society, not responsible for co-ordination of research. The latter is NBI's responsibility. Richard Pienaar recommended that we challenge NBI on

their mission statement. Rob Anderson suggested that we put together our arguments into a formal statement that should be based on the Biodiversity Convention. Richard Pienaar recommended that two people should form a proposal. Rob Anderson nominated John Bolton and Derek Keats. If this failed, Derek Keats suggested that we submit an open letter to South African Journal of Science. Richard Pienaar seconded the proposal.

Action: JB & DK

2.3 Workshops

Richard Pienaar suggested that workshops be linked to conferences. Recommendations from the 1997 General Meeting have not been brought to fruition due to a variety of problems. Recommended that John Bolton organise a workshop on seaweed flora at the Namibia conference in 1999.

Action: JB & FM

2.4 Participation by other African countries

Recommended by Bruce Robertson that efforts to encourage the participation of delegates from other African countries be left to the conference organiser. A request was tabled by Richard Pienaar that visiting scientists be encouraged to visit several institutions in South Africa after or before the PSSA meeting.

2.5 Future congresses

Recommended that a statement in the 1997 General Meeting minutes be altered:

“Posters are to be presented in a chaired poster session” to be altered to be “Where possible, posters should be presented in a chaired poster session”.

2.6 Investment account

Eileen Campbell reported that our society is currently not liable for tax on interest earned on our accounts.

3. Approval of minutes:

Proposed Richard Pienaar; Seconded Rob Anderson.

4. Council member's reports:

4.1 President's report

Proposed John Bolton; seconded, Rob Anderson; accepted

4.2 Secretary/treasurer's report

Proposed Richard Pienaar; seconded, Rob Anderson; accepted

4.3 Membership secretary's report

John Bolton recommended that we actively encourage membership. A poster should be designed and sent to all universities. **Action: EEC**

Proposed Rob Anderson; seconded, John Bolton; accepted

4.4 Newsletter editor's report

Bruce Robertson asked for extra support for the newsletter.

Proposed Richard Pienaar; seconded, Eileen Campbell; accepted

John Bolton recommended that a listserver be set up. Derek Keats offered to do so. **Action: DK**

5. Relationship with SAAB

The letter from J U Grobbelaar on behalf of SAAB was tabled. After much discussion it was agreed that PSSA's interests were better served by remaining separate from SAAB. Recommended that the president respond tactfully that we will remain autonomous, stating our reasons. **Action: BLR**

6. Date and venue for 16th congress

Fergus Molloy agreed to host the next congress in January 1999 at the Fisheries venue in Swakopmund. The society thanked him for agreeing to organise the conference. **Action: FM**

7. Fees

No adjustment of fees was proposed.

8. General

8.1 Host IPC in 2005

Recommended that PSSA submit a proposal to host the 2005 International Psychological Congress at the Durban Convention centre. Council was asked to discuss the matter with Mike Guiry.

Action: Council

8.2 International Seaweed Symposium 2001 National Organising Committee

Rob Anderson called for support on the national organising committee for the seaweed symposium. Members were asked to let him know if they were interested in making a contribution.

9. Closure

The meeting was adjourned at 17:25.



Psychological Society of Southern Africa President's Report

I am pleased to present to you my report on the Society's activities during 1997.

As you are aware we kicked off the year with the 14th Annual Congress held at Port Alfred in the Eastern Cape. Although the attendance was a little disappointing, it was successful in the sense that there were representatives from virtually all the centres in South Africa where psychological research is being undertaken and the 20 papers and 18 posters reflected the wide diversity of work conducted by members of the Society. We were also very fortunate to have Dr Richard Crawford as our guest. Dr Crawford, who is from the Alfred Wegener Institute for Polar and Marine Research, Bremerhaven,

Germany, presented a most interesting keynote address on the survival strategy of the marine plankton diatom genus *Corethron*.

I must unfortunately report that due to the very tardy response from NBI, the question regarding algal taxonomy in South Africa has still not been resolved. A task team consisting of John Bolton and Rob Anderson has however volunteered to collate relevant information in this regard on behalf of the PSSA in order for Council to continue negotiations with NBI and SAAB. I wish to thank them for their enthusiasm and commitment.

It is clearly evident from the data submitted by PSSA members regarding research outputs and graduates that the Society is very much alive and well. Although we might be one of the smaller scientific societies around, our members are all to be congratulated on the great amount of excellent science they are doing. A special word must go to John Bolton and Rob Anderson in this regard for the publication of the West Coast Flora and for their contribution to the recently published *Vegetation of Southern Africa*. I would like to wish them luck too in their planning for the 17th International Seaweed Symposium that they will be hosting in 2001. It was most pleasing to note that as many as 10 of our members attended the recent International Phycological Congress in the Netherlands - clear evidence of the great amount of work being done by our members.

My thanks go to the members of Council who have worked hard throughout the year to keep the Society up and running smoothly. They have all done a sterling job - management of our membership has been good; our finances are being well cared for and the newsletters have been interesting and informative. Thanks also to Derek du Preez for establishing and maintaining the Society's web site. Members are once again requested to make an all out effort to support Janine Adams and Derek by providing them with material for the newsletter and web site respectively.

Rob Anderson retires from the Council as Past President - thanks to him for the extremely valuable contributions he has made over the years. His experience will be missed. Stuart Sym now takes his place on the Council as President Elect.

On behalf of the Society, I would like to thank the UWC team who was responsible for organising this 15th PSSA Congress for the excellent job they have done. Everything has been arranged in a really professional manner and all of us present have not only thoroughly enjoyed the Congress but have found it academically and scientifically worthwhile.

In conclusion, as many of you might know, Nigel Jarman was lost at sea in a recent yachting accident. Those of you who knew Nigel will know what an important role he played in phycological research in South Africa - especially the work he did on the commercial harvesting of kelps. He was a leader in so many ways - in science, in the Society, in yachting and at a party. We will miss him immensely but at least we know that he died while doing what he loved most in life - sailing the oceans of the world. Our condolences and prayers go to Margie.

BRUCE ROBERTSON
PRESIDENT: PSSA

20 January 1998



PSSA Newsletter Editor Report: 1997

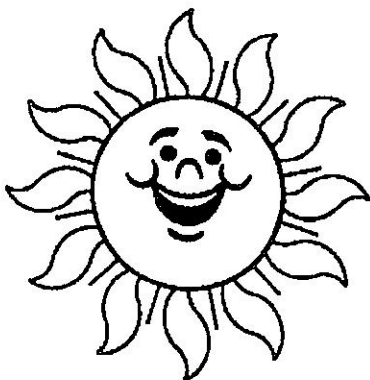
Newsletter issues 43-45 were published in April, August and December 1997.

Membership secretary, Wendy Burnett, is thanked for providing updated lists of PSSA members. Joanne Aingworth, Russel Gillespie and Alan Critchley from the Department of Botany, University of the Witwatersrand and past PSSA president, Rob Anderson are thanked for their articles. Contributions to the newsletter in 1997 were poor and I kindly request that all members make an effort in providing articles to the newsletter in 1998. Good communication is sign of a healthy society.

I hope you are all enjoying the 1998 congress, I'm sorry I couldn't be there but look forward to seeing you all again next year.

Regards

Janine Adams - PSSA Newsletter Editor
8 January 1998



Phycological Society of Southern Africa

Secretary-Treasurer's report: December 1996 - December 1997

I would like to begin by thanking Dr Stuart Sym for leaving the Society so well-organised – to the extent that there was very little administration to be done during the year.

Thanks to my colleagues at UPE for managing the 1997 conference held at Port Alfred, resulting in an excellent conference that benefited the Society with a visiting lecturer, Dr Richard Crawford, as well as over R2 900 for the coffers. Thanks go to all the sponsors, notably the FRD for their contribution to the visiting lecturer fund. Special thanks to Dr Derek du Preez for initiating, maintaining and updating the Society web site. Thanks also to Dr Wendy Burnett for depositing the subs into the Society account.

In the challenges that face us in 1998, I trust that we can remain a vibrant group, no matter what administrative changes take place. The financial status of the Society shows that we are coping very well, and that we can go on to new strengths. A summary of the financial activities of 1997 follows:

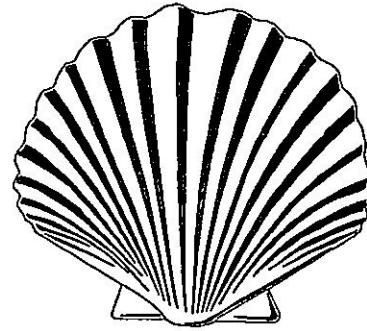
<i>Current Account</i>	
Transaction	Credit
Debit	Balance
Transfer from S D Sym	R3 131.46
	R3 131.46
Conference 1997 (Port Alfred)	R2 946.36
	6 077.82
Subscriptions	R1 917.84
	7 995.66
Interest (Nedbank)	R34.71
	8 030.37

Advance conference 1998	
R2 500.00	5 530.37
Commercial seaweed award advance	
R400.00	5 130.37
Postage, S D Sym	
R71.40	5 058.97
Newsletter costs 1997	
R684.14	4 374.83
To 1998	R4 374.83

Investment Account

Transaction	Credit
Debit	Balance
Transfer from S D Sym	R15 921.97
	R15 921.97
Interest (Nedbank)	R2 489.63
	R18 411.60
To 1998	R18 411.60
1997 capital gain	R3 733.00

E E Campbell
D R du Preez



PSSA Membership report- January 1998

Membership has increased from 63 members in 1996 to 68 members in 1997.

The society is comprised of:

- ◆ Students: 19
- ◆ Ordinary: 32 + 1 retired member
- ◆ Life: 6
- ◆ Overseas: 9
- ◆ Corporate: 1

The membership changes are as follows:

- ◆ 6 new members
- ◆ 1 expulsion
- ◆ 1 conversion from ordinary to life

There are 16 members with fees outstanding. This amounts to R576. Of these members, four are due for expulsion next year as they are two years in arrears. Most of the overseas members are paid up with only 1 overseas member in arrears for 3 years.

The fees now stand at:

Student membership	R20
Pensioner membership	R20
Ordinary membership	R30
Ordinary membership (overseas)	R40
Life membership	R300
Life membership (overseas)	R400
Corporate membership	R300

Wendy Burnett
Membership secretary

**15th CONGRESS OF THE
PHYCOLOGICAL SOCIETY OF
SOUTHERN AFRICA**

The 15th PSSA congress, held at Oatlands Holiday Village in Simon's Town, Western Cape, was organised by the University of the Western Cape. The theme of the Congress was "Algae in the Economy : Scope for Community Development". There were 27 oral presentations and 20 posters. A record number of delegates attended the congress, 61 in total with 7 international delegates.

Prof Mike Guiry from the University of Galway, Ireland, was the invited guest scientist. His presentation was on the Irish Seaweed Industry Organization : an interface with the community. When asked how they enjoyed the congress, UPE students' comments was that it was well organized, there were an interesting array of presentations and one of the highlights was Irish folk music played by Bolton & Anderson at the final function.

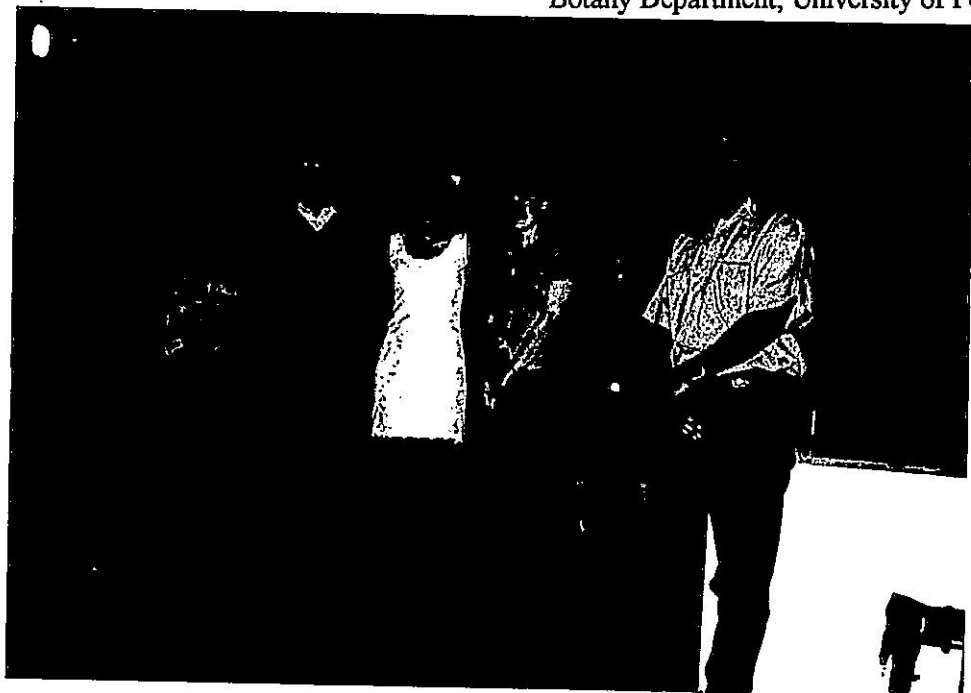


Photo legend: (left to right)
Paul-Pierre Steyn, Prof Mike Guiry, Vaso Vlachos, Melanie Skeggs, Gavin Maneveldt and Derek Kemp.

**CONGRATULATIONS TO THE
FOLLOWING WINNERS AT THE 1998
PSSA CONGRESS:**

**PSSA PRIZE FOR THE BEST STUDENT
ORAL PRESENTATION**

Gavin Maneveldt, Botany Department, University of the Western Cape
Explaining the dominance of the low shore intertidal zone by the coralline crust, *Spongites yendoi*

**PSSA PRIZE FOR THE BEST STUDENT
POSTER AWARD**

Vaso Vlachos, Department of Microbiology, University of Witwatersrand
NMR analysis of crude extracts of *Codium duthieae* (Chlorophyta) from KwaZulu-Natal

**BOLUS HERBARIUM BOOK AWARD - BEST
STUDENT ORAL PRESENTATION**

Melanie Skeggs, Botany Department, University of the Witwatersrand
Eyespot development in *Pyramimonas*

SACSA BEST PAPER AWARD

Derek Kemp, Seaweed Research Unit, Sea Fisheries Research Institute
Water motion as a determination of growth rates and agar quality in commercial Gracilarioid algae.

SACSA BEST POSTER AWARD

Paul-Pierre Steyn
Aspects of the outdoor cultivation of *Ulva capensis*
Botany Department, University of Port Elizabeth

Something to brighten up your day.....

This is a transcript of the ACTUAL radio conversation of a US naval ship with Canadian authorities off the coast of Newfoundland in October 1995. Radio conversation released by the Chief of Naval Operations on 10-10-95.

Canadians: Please divert your course 15 degrees to the South to avoid collision.

Americans: Recommend you divert your course 15 degrees to the North to avoid collision.

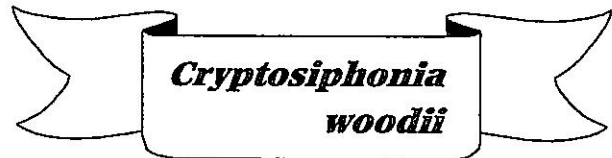
Canadians: Negative. You will have to divert your course 15 degrees to the south to avoid collision.

Americans: This is the Captain of a US Navy ship. I say again, divert YOUR course.

Canadians: No. I say again, you divert YOUR course.

Americans: THIS IS THE AIRCRAFT CARRIER USS LINCOLN, THE SECOND LARGEST SHIP IN THE UNITED STATES' ATLANTIC FLEET. WE ARE ACCOMPANIED BY THREE DESTROYERS, THREE CRUISERS AND NUMEROUS SUPPORT VESSELS. I DEMAND THAT YOU CHANGE YOUR COURSE 15 DEGREES NORTH, I SAY AGAIN, THAT'S ONE FIVE DEGREES TO THE NORTH, OR COUNTER-MEASURES WILL BE UNDERTAKEN TO ENSURE THE SAFETY OF THIS SHIP.

Canadians: This is a lighthouse. Your call.



From: "Barry Sugarman, B.S.ENGR." <barry@diverstech.com>
Send reply to: barry@diverstech.com
Organization: Diverstech Co.
Subject: URGENT REQUEST!!!

Dear Sir or Ma'am,

We are a supplier of raw materials to the pharmaceutical vitamin supplement industry and we are looking for a supplier of a particular strain of red algae, *Cryptosiphonia woodii* for commercial quantities.

Would you please refer us to a source who can quote us on our requirements. Thank you very much...

Sincerely, Barry Sugarman, B.S.ENGR.,
President

Diverstech Co.

15515 Sunset Blvd., Suite 115

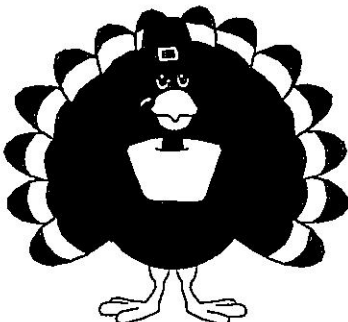
Pacific Palisades, CA 90272-3530 USA

Phone 310-355-6046

FAX 310-454-9592

mailto:sales@diverstech.com

Web Address: <http://www.diverstech.com>



**INTERNATIONAL SYMPOSIUM AND
WORKSHOP ON HARMFUL ALGAL
BLOOMS IN THE BENGUELA CURRENT
REGION AND OTHER UPWELLING
ECOSYSTEMS**



**5-6 November 1998
Swakopmund
Namibia**

Convenors: Grant Pitcher and Mick O'Toole
Hosting Organization: National Marine Information
and Research Centre, Ministry of Fisheries and
Marine Resources, Namibia
Sponsoring Organization: World Bank
Conference Organizers: Conference Link

The Symposium will provide a forum to address and exchange research findings on Harmful Algal Blooms (HABs) in Upwelling Ecosystems thereby integrating current knowledge on HAB dynamics in these coastal habitats.

Contributions are invited which address the following topics:

- Appraisals of HAB phenomena in upwelling systems
- Underlying mechanisms in the development of HABs in upwelling systems
- Monitoring protocols for HABs in upwelling systems
- Potential for remote sensing of HABs in upwelling systems
- Modelling and HAB prediction in upwelling systems

Invited contributions are to be published in the South African Journal of Marine Science. The number of participants will be restricted and preference will be given to presentations directly relevant to the theme of the symposium. The Workshop will address the design and implementation of a monitoring programme and the development of contingency plans for HAB events in Namibian waters.

If you are interested in attending this Symposium and Workshop please complete and return the attached questionnaire:

Return to (before 30 July 1998):
Dr Grant Pitcher,
Sea Fisheries Research Institute, Private Bag X2,
Rogge Bay, 8012, Cape Town,
South Africa
Tel: -27-21 4023345
Fax: -27-21-215342
E-Mail: gpitcher@sfri2.wcape.gov.za

Surname:

Title and First Name:

Mailing address:

E-Mail address:

Telephone:

Facsimile:

Tentative Title:

Preferred form of presentation: Oral/Poster

HIDDEN TALENTS !!!!!!!

藻類 Jpn. J. Phycol. (Sôri) 46:43-45, March 10, 1998

43

スチュアート・D・シム：南アフリカ藻類事情

Stuart D. Sym: Phycology in South Africa

南アフリカ藻類学会の概要

会員：一般会員 33 名，学生会員 19 名，外国会員 10 名
 (象牙海岸共和国，アンゴラ，タンザニア，米国，オランダ，日本)

学会活動：

- ・大会を毎年 1 月中旬に開催
- ・年 4 回のニュースレター発行
- ・ワークショップ (不定期) (過去のものとしては，顕毛藻の同定，石灰藻の分類など)
- ・海藻データベースの構築 (西ケープ大学の D.Keats 教授が担当)
- ・次回の国際海藻学シンポジウムをケープタウンにて開催
- ・南ア藻類学会 WWW ホームページの URL は <http://www.upe.ac.za/botany/pssa>

南アフリカにおける海藻利用の現状

南アフリカにおける原住の部族の人たちは多様な陸上植物を薬用に用いていることが，国立植物学研究所の調査で示されているが，海藻類はほとんど用いられてはいない。食用としても海藻類はここではほとんど注目されることはなかった。ただし，ケープタウン地方のレストランなどではメニューの一部に海藻を取り入れているところもある。南アフリカでは日本料理が流行となりつつあるが，多くは中国人の経営によるもので本来のものとは違うようである。

園芸店で一般に売られている海藻製品に，肥料としての海藻抽出物がある。これは“Kelpak”という商標で，コンブ属 *Laminaria* やカジメ属 *Ecklonia* から抽出される。またその他の海藻抽出物としてベクチンがあるが，これは土壌中の水分保持剤 (土壌改良剤) として用いられる。わが国のように乾燥した国土には有用な製品である。Taurus Chemicals は，わが国におけるこの分野の主要な企業であるが，これらの海藻抽出物の利用に興味のある方は Dr. Alan Critchley (University of the Witwatersrand) に関わり合わせることをお勧めする。

さらに海藻や海藻の抽出物は植物ホルモンの重要な供給源となり得ることがわかり，製品が近々市場に出回ることになっている。その他にも海藻抽出物には薬理作用が知られているがわが国でどの程度利用されているかに関しては残念ながら私にはよくわからない。

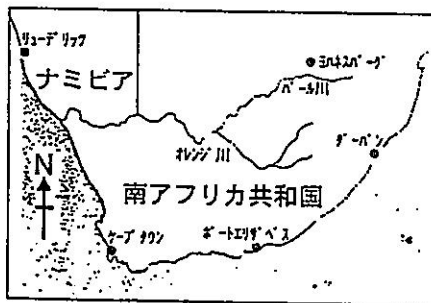
わが国においてもアマノリ類やコンブ類は，アワビの餌料として利用されるし，カラゲナン (例: *Gigartina*, *Grateloupia*) や寒天 (*Gelidium*, *Gracilaria*) の原藻として利用価値のある海藻も南部アフリカ沿岸には生育している。ナミビアのリューデリフツにある Taurus Chemicals は *Gracilaria* や *Gracilariopsis* を日本に輸出している。これらは主に海岸に打ち上げられたものを回収したものである。

南アフリカにおける藻類学

淡水藻類

わが国で淡水藻類を主に研究している研究所はほとんどないが，個人レベルでの研究者はいる。南アフリカには大きな川は 2 本しかなく，両方ともドラケンスバーグ山脈から西方へ向かって流れており，南アのほとんどの地域の水源として重要な役割を果たしている。そのうちの一つがバル川 (Vaal River) で，水資源としての活用と汚染の両方の問題を抱えている。ポーチェストロム大学の Braan Pieterse 教授のグループはこの川の汚染がプランクトン組成に与える影響，生物指標の有効性などを研究している。また，培養保存株のコレクションの確立にも力を注いでおられる。彼らの研究目標は南アにおける水資源の有効な利用のための基礎研究をおこなうことである。

この他には灌漑用の運河に生育している藻類 (シオグサ属) の研究 (J. Bolton 教授のグループ) や生物指標に関する研究 (G.C. Bate 教授) などが行われている。



南アフリカ共和国とナミビアの一部を示す地図。

WELL DONE STUART
 WE WERE UNAWARE OF YOUR
 HIDDEN TALENTS!!!!!!!!!!
 Ed.

