



## From the Editor's Desk

Welcome to Volume 87 of *Forum Phycologicum* — the official newsletter of the Phycological Society of Southern Africa. It is with great enthusiasm that I take up the mantle of Newsletter Editor for this term, and I'd like to thank outgoing Editor Maggie Reddy for her services to the PSAA.

This term, we also hope to further develop the new PSSA website [www.phycologysa.org](http://www.phycologysa.org) which was unveiled at the 33rd PSSA Congress in January 2023. The website will serve as a digital archive and gathering place for Southern African psychological activity — from past PSSA Congress materials to relevant resources, publications, member features, and more. This will take some time, and I encourage you all to browse through the website and reach out with any content and/or ideas for its improvement during this development period.

Our quarterly newsletters are intended as a platform for you to share any and all phycology-related content with the larger Southern African phycology community. In keeping with tradition, this volume includes reports from the new committee of PSSA office bearers and recaps the past PSSA Congress in Arniston. Then, a short overview of the International Seaweed Symposium held in Hobart, Tasmania, and last but not least, a special feature in the form of a poem, aptly titled *Rubáiyát to the Secret Forest*. Thank you to all that contributed to this volume of *Forum Phycologicum*!

**Akshata Mehta**

Newsletter Editor of the Phycological Society of Southern Africa

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## NEWSLETTER OF THE PHYCOLOGICAL SOCIETY OF SOUTHERN AFRICA

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## A Message from the President

### Phycology beyond the PSSA

The 33rd Congress of PSSA was hosted by Prof Gavin Maneveldt and Dr Anusha Rajkaran from the Department of Biodiversity and Conservation Biology, UWC at The Dunes in Arniston, Western Cape. There were approximately 70 delegates in attendance, 36 from academic institutions with the majority in attendance representing various industry partners and government departments. There were 11 poster presentations and 38 phycological talks which included talks on taxonomy and new discoveries (4), aquaculture (3), biotechnology (7), ecology (9) and kelp-related research (15). Of the poster presentations and oral talks, six and 15 were presented by students respectively.

Besides learning from and enjoying the presentations by my colleagues and their students, one other engagement stood out for me. Prof. AJ Smit asked an important question at the AGM, 'what are our roles as phycologists outside of the PSSA?'. While he was referring to our ability to encourage policy wording changes, this question had me reflecting on my impact as a phycologist outside of my academic community.

As an academic who has a keen interest in Learning & Teaching, I have always believed that exposure to different learning areas at the grassroots level has a great impact on our school-going youth. Last year I piloted a Service-Learning project where my 3rd-year CPUT Marine Science students provide learning support to high school students who have selected Marine Sciences as a 7th or 8th subject. While this project receives great support from my institution and the teachers and students we work with, is this enough to stamp a phycological mark on the project? The simple answer to that question is 'no'. This brings forth more questions, 'Firstly, how can I make a mark as a phycologist and not just as an academic in the broader field of Marine Sciences? Secondly, will this bring exposure to phycology as an attainable career and research field and by extension, exposure to the PSSA?'. While these questions remain unanswered for now, regarding my community engagement, they are now at the forefront of my thoughts. Then lastly, as my colleagues in the PSSA, I encourage you (if you have not done so already) to also reflect on the question posed to us by Prof AJ Smit, so that we can be a more well-integrated society.

**Courtney Puckree-Padua**

*President of the Phycological Society of Southern Africa*

The Programme of Events  
&  
Book of Abstracts  
for the 33rd Congress of  
the Phycological Society  
of Southern Africa can be  
accessed on the website

[here.](#)



## NEWSLETTER OF THE PHYCOLOGICAL SOCIETY OF SOUTHERN AFRICA

**Secretary-Treasurer's Report**

The Society has a Money Market Account that is held at First National Bank. Money Market Accounts have a basic monthly charge and a cash handling fee, and have higher interest rates than conventional current accounts. There is a chequebook linked to the account for convenient handling of the account. There are two signatories (currently John Bolton and Mark Rothman), although withdrawals or cheques only require one of the two's signatures. The majority of the Society's transactions have however moved to electronic banking services. The Society has a balance of R 211 886.55 as of 4th of March 2023, however, a significant portion of this comprises outstanding payments from conference delegates. Please assist us in ensuring all outstanding payments are settled as soon as possible, I will be in touch about this. A detailed financial breakdown is provided below.

Once again, the members of the council would like to thank Afrikelp, Bio-Smart Scientific, Kelp Products International (Kelpak), Taurus Cape Kelp, and the University of the Western Cape for their generous donations and/or sponsorships.

Finally, we are thankful to the 2023 PSSA Organising Committee - Gavin Maneveldt and Anusha Rajkaran, and to all the delegates for making it a successful event.

Personally, I would like to thank outgoing Secretary-Treasurer Lekraj Etwarysing for his service to the Society.

David Dyer  
Secretary-Treasurer of the Phycological Society of Southern Africa

PSSA BALANCE SHEET, The Dunes Arniston			
March 2022 - March 2023			
Money Market Account (First National Bank)			
	Credit	Debit	Balance
Brought forward March 2022			<b>R 147,009.27</b>
Bank fees		R 602.00	R 146,407.27
Payment received	R 314,520.00		R 460,927.27
Interest	R 9,770.61		R 470,697.88
Sponsorship and donations	R 117,500.00		R 588,197.88
Outstanding Payments	<b>R 32,555.00</b>		R 620,752.88
Petty Cash	R 190.00		R 620,942.88
Payments Made		R 409,056.33	R 211,886.55
Total Assets			<b>R 211,886.55</b>
Capital gain for Period 17 March 2022 till 17 February 2023			<b>R 64,877.28</b>
Outstanding payments			<b>R 32,555.00</b>
Note 1			
Service Fees	R 547.00		
Cash deposit fees	R 55.00		
Note 2			
Taurus Chemicals	R 10,000.00		
Kelp Products International (Kelpak)	R 22,500.00		
Afrikelp	R 20,000.00		
University of the Western Cape	R 40,000.00		
Bio-Smart Scientific	R 25,000.00		
Note 3			
PSSA Prizes	R 3,000.00		
PSSA Venue - The Dunes	R 367,064.00		
PSSA - Additional Organising Costs	R 38,992.33		



Conference Report:  
33rd Congress of the Phycological Society of Southern Africa (PSSA2023)

by  
PSSA2023 Organising Committee  
Prof Gavin. W. Maneveldt  
Prof Anusha Rajkaran

The Phycological Society of Southern Africa (PSSA) has turned 40 years, having celebrated its inaugural conference in Johannesburg at the University of the Witwatersrand in January 1983. 2023 marked the 33rd congress of the Society (conferences are generally held every 12-18 years, except for during the COVID-19 disruption during which time no conferences were held), and the first since the start of the COVID-19 pandemic. In continuing with the tradition of providing a relaxing, yet stimulating conference atmosphere, PSSA2023 was held at The Dunes, Arniston, Western Cape Province, South Africa, from 23-27 January 2023.

76 Delegates attended the conference, of which 18 (23,7%) were students, giving a total of 42 oral and 11 poster presentations. This year saw a record number of corporate members, sponsors, and delegates from non-traditional institutions/organisations attending (Fig. 1). Excluding these latter participants, the student participation equated to 40% of the delegates from traditional academic institutions, which is in keeping with previous conferences. As is often the case, the host institution (UWC) was the single-most represented institution (Fig. 1).

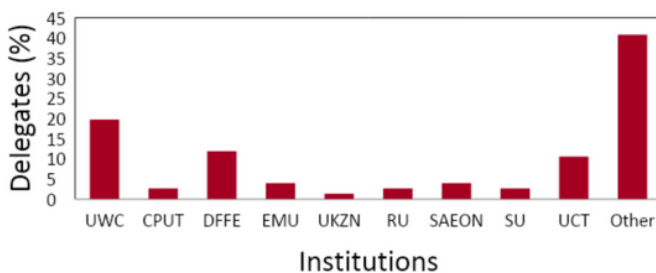


Figure 1. Representation at the PSSA2023. UWC = Univ. of the Western Cape; CPUT = Cape Peninsula University of Technology; DFFE = Dept. of Forestry, Fisheries & the Environment; EMU = Eduardo Mondlane University; UKZN = Univ. of KwaZulu-Natal; RU = Rhodes University; SAEON = South African Environmental Observation Network; SU = Stellenbosch University; UCT = Univ. of Cape Town; Other = corporate members, sponsors, and various other organisations and institutions

The conference was structured as a 3,5-day event, with registration on the afternoon of day 1, and the viewing of a short film, entitled "[Kelp: South Africa's Golden Forests](#)", in the evening. This was followed by two full days of oral and poster presentations. As is the custom, a mid-conference day was set aside for excursions and sight-seeing.

The large number of presentation submissions left the conference organisers with having to plan the first-ever series of parallel sessions, in the history of the PSSA, to accommodate all the oral presentations submitted. The congress comprised 10 sessions devoted to Aquaculture, Biotechnology, Concessions, Ecology, Harvesting & Management, Resource utilisation, and Taxonomy & New Discoveries. These sessions spanned both micro- and macroalgal research, and "Kelp use in Southern Africa", run as a workshop styled series of talks, had a particularly strong focus, with one entire, day-long, parallel session devoted to various subthemes.

As has become the custom, the conference was officially opened with the President's Address, presented by Dr Mark D. Rothman (DFFE, South Africa), entitled Trends in seaweed resource use and aquaculture in South Africa and Namibia over the last 30 years. This was followed by two keynote lectures, the first presented by Dr Ernst H.W. Baard (Executive Director: Conservation Operations, CapeNature, South Africa), entitled CapeNature – conserving nature for resilience and sustainability, and the second by Dr Alan T. Critchley (Verschuren Centre for Sustainability in Energy and Environment, Nova Scotia, Canada), entitled Seaweed(s): Myths, legends and BS (i.e., biostimulants and other multifarious applications)! (Fig. 2).



Figure 2. PSSA President, Dr Mark D. Rothman (right), and keynote speakers, Dr Ernst H.W. Baard (left) and Dr Alan T. Critchley (centre).

No PSSA conference is without its special social (icebreaker) event(s), which probably accounts for the relaxed atmosphere; students often report being able to consequently present their research in an unintimidated, friendly, and less tense environment.

NEWSLETTER OF THE PHYCOLOGICAL SOCIETY OF SOUTHERN AFRICA

Each evening (other than the banquet evening) was a sponsored evening, made possible by the generous support from our sponsors Afrikelp, Bio-Smart Scientific, Kelp Products International (Kelpak), Taurus Cape Kelp, and the University of the Western Cape through its Faculty of Natural Sciences. Additionally, not only was the conference pack sponsored, but each delegate's registration fee was subsidised. The UWC sponsorship, in particular, made it possible to highly subsidise the student registration package, which was significantly lower than all other registration categories.

A significant part of the social environment of the conference, was the mid-conference excursions. This year the decision was taken to permit delegates free time to explore the surrounding tourist attractions at their own leisure due to the large number of international and outside-of-province delegates, as well as needing time to relax between the two long conference days. Sites that many delegates opted to visit included the Waenhuiskrans (sea) cave that is only accessible during low tide, the Struisbaai harbour with its multi-coloured fishing boats that bring in freshly caught fish nearly every day and along with them the now resident stingrays of which Parrie is the largest and most popular, and the newly renovated Cape Agulhas lighthouse along with the newly constructed southern tip monument (Fig 3).



Figure 4. An array of images taken of the delegates at the conference banquet, and the viewing of the new Society website (top row).

The final day of the congress concluded with the General Meeting of the Society and the banquet that evening. Among the matters discussed was the election of the new Board members. Dr Courtney A. Puckree-Padua is our new President-Elect; she is only the fourth female President of the Society ever (after Dr Jenny Buzer [1987-1989], Prof Eileen Campbell [2008-2010], and Dr Wendy Stirk [2011-2013]), and the first female of colour. Dr Dave Dyer is our new Secretary-Treasurer. Mr Derek Kemp is our new Membership-Secretary, and Ms Akshata Mehta is our new Newsletter Editor. The banquet was a slightly more formal event, and all delegates took this opportunity to show off some of their less-casual attire (Fig. 4). This was also an opportunity to show-case the Society's new website.

No PSSA conference would be complete without recognising the hard work of all those attending the conference, and as usual, there were several awards for oral and poster presentations. This year the Society again made available awards for the best student oral and poster presentations. As has become the tradition, Taurus Cape Kelp also made two awards available: 1) the Seaweed Development & Innovation Award; and 2) the Klaus Rotmann Memorial Award. On the next page are the prizes awarded and their respective recipients (see also Fig. 5).



Figure 3. Row 1: Panoramic landward view of the Waenhuiskrans (sea) cave. Row 2: Delegates at the landward entrance to the Waenhuiskrans (sea) cave (left); A view of the seaward entrance to the Waenhuiskrans (sea) cave from inside the cave (right). Row 3: A view of the fishing boats in the Struisbaai harbour (left); Delegates patting one of the Struisbaai stingrays (right). Row 4: The newly renovated Cape Agulhas lighthouse (left); Alan and Val Critchley at the newly constructed southern tip monument (right).



## NEWSLETTER OF THE PHYCOLOGICAL SOCIETY OF SOUTHERN AFRICA

We are grateful to Prof Niell Goosen, Dr Grant C. Pitcher, Prof Brett Pletschke, Dr Courtney A. Puckree-Padua, Dr Mark D. Rothman, and Dr Wendy Stirk for adjudicating the process, and for Prof Denzil R. Beukes (also the banquet MC) for managing the assessment process. Mrs Adele Geldenhuys (Executive Director: Taurus Cape Kelp) and her team adjudicated the industry-sponsored awards.

These latter two awards are open to both students and non-students. The Seaweed Development & Innovation Award is to recognise the efforts towards seaweed development and/or innovation, and the potential impact the work will have on both communities and on the seaweed industry. The Klaus Rotmann Memorial Award, in honour of the late Klaus Rotmann, is in recognition of what is considered to be the best applied oral/poster presentation for the potential of/or commercial use of seaweeds.

**PSSA2023 Awards****Best student oral presentation:**

**First Prize:** Julianie Stapelberg (University College London)

Presentation Title: *Should Africa invest in Algal Biotechnology?*

**Second Prize:** Karen Ssekimpi (University of Cape Town)

Presentation Title: *Improved c-phycoyanin production in Spirulina: Investigating light and nitrogen during cultivation*

**Best student poster presentation:****Joint First Prize:**

William Middleton (University of Cape Town)

Poster Title: *Improving carbon dioxide mass transfer in open pond raceway systems, for improved algal productivity &*

Jesse Phillips (University of the Western Cape)

Poster Title: *A theoretical and statistical definition for Marine Extreme Temperature Fluctuations (MEXTEFs)*

**Taurus Cape Kelp Awards****Seaweed Development & Innovation Award (Open category):**

Akshata Mehta (University of the Western Cape)

Presentation Title: *Exploring local perceptions around the value of kelp in the Western Cape, South Africa*

**Klaus Rotmann Memorial Award (Open category):**

Michael Fleischman (Kelp Blue Trading (Pty) Ltd)

Presentation Title: *Development of a large-scale offshore kelp cultivation operation in southern Namibian waters: early challenges and findings of the Kelp Blue pilot*



Figure 5. PSSA and Taurus Cape Kelp awardees (see names on the left), and presenters (Alan T. Critchley, Adele Geldenhuys). Awardees from top to bottom, and left to right: Julianie Stapelberg, Karen Ssekimpi, William Middleton and Jesse Phillips, Akshata Mehta, and Michael Fleischman. Bottom right: Mark D. Rothman (President) and Alan T. Critchley (keynote speaker).



**Kelps, their uses and the future in Southern Africa:  
the start of something big at PSSA2023**

by John J Bolton

Department of Biological Sciences, University of Cape Town  
& Bernadette Brown-Webb  
Biosolutiones Technicas

We are involved with a continuing project on the potential for kelp aquaculture in South Africa. The project, funded by UKAid from the UK government, through the Bivalve Shellfish Aquaculture Association of South Africa (BSASA) with major input from DFFE and CSIR colleagues, produced a pre-feasibility study in 2022, which recommended that we should go ahead with the next steps towards this goal. We have three indigenous west coast kelp species in three different genera and, though there is a long-term kelp industry based on collection and harvest from natural populations, there has never been commercial kelp aquaculture in Southern Africa.

We approached the organisers of the PSSA2023 meeting in Arniston and asked if it could include a kelp workshop. It was clear that delegates were intending to present on a wide range of kelp topics, not just commercial aspects, and we agreed that the workshop should cover all kelp interests. We were kindly allowed extra time for discussion and had a remarkable response, with 15 oral presentations resulting in a whole day of kelp interaction, which was even partly responsible for the PSSA meeting having parallel sessions for the first time in its history! Many thanks to PSSA from those working on kelp for this encouragement.

There were two major kelp events at the conference before the workshop. In the premiere of the wonderful new short film [Kelp: South Africa's Golden Forests](#), produced by Akshata Mehta, we were treated to a wide array of local people expressing their intimate links, feelings for, and communion with South African kelps and kelp environments. Then, in his Past President's address Mark Rothman summarised historical trends in seaweed use and aquaculture in Southern Africa. These provided a perfect introduction to the kelp workshop.

The workshop opened with a session on natural kelp communities, our local example now known widely as 'The Great African Sea Forest'. Zara Prew was unable to make her presentation summarising our knowledge of this remarkable ecosystem but, importantly, her Abstract stressed the need to revisit the ground-breaking ecological studies carried out in our kelp forests around four decades ago. Papers by McQuwaen Moonosamy and AJ Smit gave insight into ecological effects of extreme wind events and a modelling approach to the dispersal of drifting *Ecklonia maxima*.

Ideas from the short film were expanded upon by Akshata Mehta, who further explored perceptions of kelp value in the Western Cape and stressed the importance of recognising the views of all stakeholders, from local communities to industry, in seaweed resource management. David Dyer then discussed links between kelp forests and South African inshore fisheries, and the importance of an integrated approach to assess direct and/or indirect associations. A former local, Robert Schlegel, transported us to a different kelp system, explaining potential benefits of decreased sea ice through climate change to the Arctic kelp forest.

The second session dived deeply into new developments in kelp resource use and aquaculture. It began with two presentations by Afrikelp (Nicole Hart and Kate Bray) on their exciting new initiative on data-driven management of kelp natural resources, linking closely with marine scientists and conservation agencies. Then the focus shifted to the two new projects working towards the initiation of kelp aquaculture in Southern Africa. Bernadette Brown-Webb summarised the findings of the South African pre-feasibility study, and John Bolton gave a brief overview of the comprehensive literature review of relevant data on Southern African kelps, which forms an Appendix to the report. This provided a very timely comparison with the KelpBlue initiative in Lüderitz, Namibia, which is already at the pilot stage (<https://kelp.blue/namibia/>). Michael Fleischman wowed the audience with his underwater videos of healthy giant kelp (*Macrocystis pyrifera*) recently grown on their rope systems. Hilinganye Anastasia Andreas discussed methods for optimising kelp culture at the hatchery stage and Ukurapo Mungunda presented some of the scientific research that will continue to be carried out as the project progresses. Michael had taken advantage of a no-show on the previous day to make a short presentation on the Kelp Forest Foundation, which will be providing continual scientific and environmental studies as Namibian kelp aquaculture progresses (<https://kelpforestfoundation.org/>). The PSSA provided a first real discussion between the two projects, which differ significantly in their aims and approaches (species selection, harvesting, 'inshore' versus 'offshore', growth from cultured microscopic stages versus natural spore seeding, for example). The members of the two teams spent lunch together discussing methods.

...continued



The workshop rounded off with two talks on biotechnological initiatives for new high-tech products from *Ecklonia maxima*. Robbie Pott outlined innovative methods for enhancing the rapidly growing local seaweed concentrate (agricultural biostimulant) industry by extracting high-value carbohydrate co-products from the 'waste'. Niell Goosen discussed the optimisation of methods for the extraction of high value, bioactive laminarin.

In the workshop, and the wide discussions it facilitated, it was clear that there are several allied new initiatives to improve the critical conversations between community, industry, conservation, policy, resource use and new sources of supply of kelps in Southern Africa. We believe that PSSA can provide an invaluable link on the scientific side of this process, and the workshop was a superb start. In our project we are often asked "Why do you need to grow more kelp when we have so much on our west coast". A clear answer from the discussions is, if we had more kelp available, produced in a sustainable way, we could do much more, and there is room for much innovation in kelp use and production. Globally there is a 'chicken and egg' scenario, where many more things could be done with seaweed with more consistent availability of biomass. Follow this space.

The authors would like to thank those who helped with the workshop, especially Gavin Maneveldt, Mark Rothman and AJ Smit, as well as our funder (UK aid) and project lead (BSASA) who also made it possible for many of our team to be present.



**UKaid**  
from the British people

**BSASA**  
BIVALVE SHELLFISH FARMERS' ASSOCIATION  
OF SOUTH AFRICA

Our [pre-feasibility study of kelp farming in South Africa](#) is available here.



**ATTENTION  
ALL  
STUDENTS!**

The student submission prize for *Forum Phycologicum* is back! The best student newsletter submission of the year will win a prize at the next PSSA Congress. Submissions will also be featured on the PSSA website.

Submissions will be judged on clarity of ideas, creativity, and overall quality of content. Submissions should be a minimum of one-page.

### From the Student Representative

PSSA 2023 got off to a great start for the students; meeting both fellow budding seaweed enthusiasts and well-established veterans in the field. Our ice-breaker events were a lot of fun and the game, "Head's Up!", made an appearance, allowing the new generation of PSSA students to get to know one another.

A stomach-bug outbreak dashed the opportunity for many to mingle further. As a result, many will be looking forward to PSSA 2024 providing more opportunities for idea sharing and networking with fellow phyco-lovers.

Zara Prew  
Student Representative for the  
Phycological Society of Southern Africa





## CALL FOR SUBMISSIONS!

We welcome submissions for the next volume of *Forum Phycologicum*, Newsletter of the Phycological Society of Southern Africa.

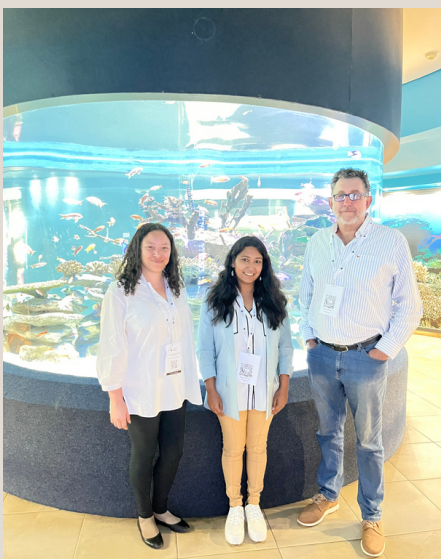
Submissions can include:

- relevant news
- industry developments
- popular articles
- opinion pieces
- titles of recent publications
- reports
- photo essays
- poems, short stories, anecdotes...

...amongst others.

Please reach out to [amehta@uwc.ac.za](mailto:amehta@uwc.ac.za) with your submission ideas.

## SPOTTED: PSSA IN THE WILD



Courtney Puckree-Padua, Akshata Mehta, and David Walker at the Ocean Innovation Summit 2023.

## The International Seaweed Symposium

by Neill Goosen  
Department of Chemical Engineering, Stellenbosch University

The International Seaweed Symposium was held in Hobart, Australia this year, and myself and Robbie Pott attended the meeting as representatives from the Department of Chemical Engineering at Stellenbosch University. The Symposium is a great opportunity to see all the different disciplines involved in seaweed research, and to stay abreast of all the new (good and less good) ideas that are being investigated in the field. The South African contingent that attended the on-site Symposium wasn't big, but there was some online support. Our numbers were bolstered when we ran into Mark Cyrus, who departed South Africa so recently that we can probably still claim him as a South African.

There were two important takeaways from the Symposium for me. The first is that South Africa is THE global leader in utilising seaweed in integrated multi trophic (IMTA) systems. The scale and sophistication of the abalone-ulva IMTA systems is a cut above anything else that is being implemented in industry elsewhere. The second was that the world urgently needs to start growing seaweed biomass at scale. There are a lot of different applications for seaweed being developed, ranging from food and nutraceuticals, to animal feed for methane reduction, to the recovery of pharmaceutical-grade compounds. However, to develop these new applications toward a point where they can be financial viable will require biomass, and lots of it. Seeing that my own interest in seaweed lies in the processing thereof, I would love to see more seaweed farming operations getting off the ground so that we can drive commercialisation of seaweed processing operations.



Neill Goosen, Mark Cyrus, and Robbie Potts at the International Seaweed Symposium in Hobart, Tasmania.

For me, the Symposium was a huge success and well worth attending. It created the platform for people to catch up (the last edition of the Symposium was in 2019, before the You-Know-What occurred), to expand scientific networks and obviously to see some good science. Getting a bit of exposure to Aussie culture and the weird and wonderful critters that live there was also an eye-opener. And as Mark taught me and Robbie: beware the local ginger beer, because it kicks like a mule...



## Special Feature: Poetry

## Rubáiyát to the Secret Forest

Shinrin yoku, to the Japanese,  
Is mindful contemplation at your ease  
With dappled sunlight, lone or with good friends  
Beneath the whispering presence of the trees.

Immerse yourself among an otherworld,  
Green life, and ancient stories are unfurled;  
The cycle of all being is revealed  
From growing tips to rotting netherworld.

But very close, there is another way  
Of bathing in a forest, and it may  
Be even more removed, to spend some time  
Immersed, in truth, life's meaning to display.

The 'trees' are golden brown, but dappled light  
Still shines below, as down our tranquil flight  
Proceeds; for flight it is, I glide and hover  
Newly abled, submarine delight.

The world's in motion, and the surge of swell  
Tossed with the floating canopy, we feel the pull  
Of distant forces, which extending kelps  
With fleshy elasticity propel.

The coolness percolates our wakened mind,  
A thousand flashes, to the front, behind;  
A shoal of strepies, always out of reach  
They turn as one, each move, each flash aligned.

The towering sea bamboo's the vital key  
To shallow, pulsing, life-enhancing sea,  
The home of urchin, octopus, and shark:  
Majestic African SeaForest Tree.

Words by John J Bolton, 30th May 2021  
Photo by Sam Bolton