



The Tasmanian Geologist

March 2022



NEXT MEETING:

**Tuesday 29th
March
6:00 PM**

Speaker

Dr Lila Landowsky

Meetings in 2022: put them in your diary

Thursday 28th of April: Joint Meeting with the ASEG Getting warmer: The search for geothermal resources in Tasmania, John Bishop

Saturday 30th of April: AIG/GSA Autumn field trip to Cygnet

Sunday 15th of May Joint meeting with the Royal Society of Tasmania: Geology, landscape and European settlement: small things meant a lot." about the geological controls on the development of Hobart Tony Webster

23rd of June AGM and Tsunami Hazards in Tasmania Claire Kain

Women in STEMM and the neuroscience of key challenges women face in leadership

Geology Lecture Theatre,
University of Tasmania Join us for pre-meeting
Join us for nibbles from 5:30 onwards
See special COVID19 procedures below

**NEXT MEETING:
International Women's Day special
presentation:**

**Women in STEMM and the
neuroscience of key challenges women
face in leadership**

March the 8th was International Women's Day. In the last few years we can be grateful to women who have persisted in their sciences despite considerable difficulties. Read the cases of Professor Sarah Gilbert from Oxford University and Katalin Kariko who were key scientists involved in the development of AstraZeneca and the Pfizer/Moderna vaccines at the websites below. These women have helped to provide us with the arsenal to defend ourselves against COVID19. In recognition of women in science and medicine, Indrani Mukherjee our IED (inclusions, equity and diversity) officer has organized a special speaker Dr Lila Landowski. Although Lila works in neuroscience, not Earth Sciences, some of the issues that she will discuss are just as relevant to our science. We are opening this meeting up to others, so if you have friends, children, grandchildren and other family who wish to come along please bring them along.

https://en.wikipedia.org/wiki/Sarah_Gilbert

https://en.wikipedia.org/wiki/Katalin_Karik%C3%BB3

Dr Lila Landowski

Dr Lila Landowski is a multi-award winning neuroscientist and lecturer at the University of Tasmania, an Executive Director of the Australian Society for Medical Research, a Director of Epilepsy Tasmania, as well as a regular guest expert science communicator for the ABC. Lila's research background spans across stroke, nanotechnology, fatigue, dementia, axon guidance and peripheral nerve regeneration.

Over the last 10 years, Lila has taught across the across the Bachelor of Medicine, Dementia Care, Medical Research, Biotechnology, Pharmacy, Nursing, Paramedicine and Science; as well as the Masters of Medical Research and Dementia Care. Lila has been awarded the university's highest honour - Vice Chancellors' citations - for her early career academic teaching and community engagement.

Lila has a strong personal focus on community health and wellbeing, making the wonderful world of science more accessible to the community through radio, TV, public talks and in print and digital media. She's received accolades including the Premier's Young Achiever of the Year, AIPS Young Tall Poppy award, being a Tasmanian finalist for Young Australian of the Year, and an ABC Top5 Science scholar. She was also the focus of a short documentary called "Catching Opportunity." As a thought leader in STEM and STEM advocacy, her honorary titles include being a "Superstar of STEM," an ambassador for public school education, a patron of National Science week, and being named a "Science superhero" by Australia's Chief Scientist.



Register in ADVANCE for this meeting if you want to watch this via livestream

Please see the gsatasmania.org

Website

[GSA Special Event Tuesday 29th March \(gsatasmania.org\)](http://GSA_Special_Event_Tuesday_29th_March_(gsatasmania.org))

PREVIOUS MEETINGS

March 3rd Joint meeting with SEG

Welcome back BBQ

and Rod Allen presented Welded ignimbrites and bedded exhalative ores at the huge Zinkgruvan Zn-Pb-Ag-Cu deposit in Bergslagen, . Sweden

It was excellent to see everyone back at our BBQ in March after the long summer break. It was a great opportunity to catch up with many colleagues meet newcomers and welcome students. Thankyou to the SEG student chapter for organising the BBQ and providing sustenance before the meeting.

At the meeting David Cooke led the congratulations to Professor Ross Large for being the 2022 R.A. F. Penrose Gold Medal awardee. It is wonderful that Ross's extensive contributions to Economic Geology are recognised on the international stage and highlights his stellar career and influence not just in Tasmania but world wide. Ross thanked his family and co-workers and pointed out the influence of Professor SW Carey the foundation professor of Geology at the University of Tasmania.

The speaker Dr Rod Allen took us on a tour of the Bergslagen area of Sweden and Zinkgruvan in particular, one of the oldest polymetallic mines in northern Europe. The mine is in Paleoproterozoic volcano-sedimentary succession that is intruded by later granitoids and metamorphosed up to amphibolite grade. Recognising primary volcanic textures is challenging! Rod demonstrated comparisons between well know welded textures and textures found in portions of some of the

cores from Zinkgruvan. He then combined these "window textures" with lithochemistry enabling him to show that the orebody formed within a large felsic caldera and sits above a volcanic vent system.

If you did not make it to the meeting, the talk was recorded and is available on request. Please email tim.holland@gsa.org.au



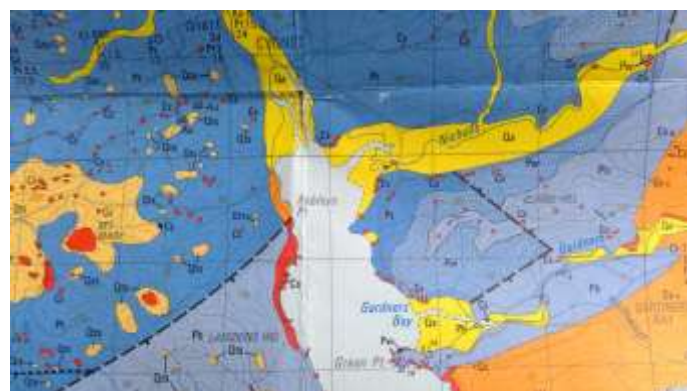
Field Trip Autumn

Saturday, 30th April 2021

Members are invited to participate in the autumn field trip for 2022. We are heading south to Cygnet to view the varied geology and mining history of the area with the AIG. The area is rich in gold and coal mines, fossils and more!

Put the date in your diary. If you wish to attend please register via tas@aig.org.au. There will be a limit of 20 people so register early.

Leaders Tony Webster and John Bishop.



tract from Kingborough 1:50000 Geological Map Geological Survey of Tasmania



Photo of the foreshore south of Cygnet (from AESC2021 virtual field trips <https://www.gsatasmania.org/>)

Training in communications

Take advantage of the offer to GSA members-only to Geologize's critically acclaimed course Practical Geocommunication for 2022 for free! Geologize is a global leader in providing training to geoscientists who wish to communicate more effectively with their audience.

Geologize teaches geoscientists to bring the public to a greater understanding and appreciation of our planet through effective and powerful communication.

When you complete *Practical Geocommunication*, you will receive an accredited CPD-valid certificate.

"Passion. Education. Sustainability. We believe that if people understand how the planet works, they will appreciate and care about it more. Geologize seeks to create and facilitate the creation of tangible and emotional connections between the general public and the world in which they live." Haydon Mort, Geologize.

Contact the GSA: info@gsa.org.au to get your code to this GSA-funded initiative (see flyer at the end of the Newsletter)

Renew your GSA Membership for 2022

[Renew your membership here](#)

Any queries about your membership contact Tim Holland at GSA tim.holland@gsa.org.au or our local membership officer Rebecca Carey (Rebecca.Carey@utas.edu.au)

STUDENTS

It was great to see so many students attend the 3rd of March BBQ. Please encourage your friends to join and come along to the next meeting by Lila Landowski a superstar of STEM.

Second and third year undergraduate and honours students Now you are re/writing your field trip reports.

Get yourself nuggets of geological wisdom from the Geological Evolution of Tasmania.



Michael Roach instructing at Bluestone Bay on the east coast excursion. What is he talking about here? Can you remember? (Photo K. Orth)

Undergraduate Student Members
Special price on the
Geological Evolution of Tasmania!

Become a GSA Member and you can
obtain 'The Geological Evolution of
Tasmania' for \$75 including GST.

[Students Join Here](#)

Once you are complete your membership please contact Caroline Mordant for your special price book. See details below

GSA membership has many benefits. Here are some comments from Olivia Wilson, who completed her Honours in 2021 and is now employed by Entura in Hobart. She was awarded \$1000 from the GSA Endowment Fund for her Honour's work in 2020 and even managed to get out in the field to spend it!

'Being a student member of the Geological Society of Australia enriched my experience of studying geology. Especially important to me were the opportunities to make connections and learn about the research of other society members. As a student, it is also invaluable to have an environment in which you can interact with geoscientists from all career stages – hearing their experiences allows you to develop your own career aspirations. GSA membership also demonstrates that you have a level of passion and commitment to your field beyond the compulsory courses in your degree, helping your resume stand out as you transition to professional life.'



Olivia Wilson (supplied by O. Wilson)

Endowment Fund
**THE GEOLOGICAL
SOCIETY OF AUSTRALIA**

We hope that you have taken the opportunity to apply for the \$1000 grants available for at least one Honours or Masters students in Tasmania in 2022 and the one national grant up to \$5000 available for PhD students.

You can become a member here
<https://www.gsa.org.au/>

Remember it's Time to Renew your GSA Membership

Any queries about your membership contact our membership officer Rebecca Carey (Rebecca.Carey@utas.edu.au).



The flagship publication of the Tasmanian Division of the GSA, 'The Geological Evolution of Tasmania' (Special Publication 24 of the GSA) is available for ordering. All details are available on a specific part of the Utas CODES web site: http://www.utas.edu.au/_data/assets/pdf_file/0003/55313/Flyer_Order.pdf

Copies of the book can be obtained personally from Caroline Mordant (publications@CODES.utas.edu.au) or phone on +61 3 6226 7537.

Members Price is A\$90 + GST + postage where appropriate. Undergraduate student price is \$75. Postage can be avoided by buying in person from Caroline Mordant in Earth Sciences (University of Tasmania). The book is also available at Fullers Bookshop and at TMAG in Hobart, and in the Devonport Bookshop, Devonport. Prices at these sites may vary from GSA prices, and the member price is not available at these sites either.

Other Meetings

27th of March, 1:15 PM Launceston QVM, Inveresk Dr Indrani Mukherjee, 'Understanding Early Earth Environments' – a powerful approach providing key clues to evolution of life on Earth and beyond (see flyer).

26th and 27th of March Devonport Jewellery, Gem and Mineral Fair (see flyer at the end of the newsletter)

June day TBA One day online AIG Workshop 'The Project Geologists Toolkit' For more information contact Jane Capp jane@omipl.com.au

Final Words

From Noel Kemp



GSA Tasmania Division Committee

Chair: Dr Karin Orth

Vice Chair: Dr Matthew Ferguson

Secretary: Grace Cumming

Grace.Cumming@stategrowth.tas.gov.au

Treasurer: Dr Andrew McNeill

Committee Members:

Sheree Armistead
Rebecca Carey (Membership)
Acacia Clark (Student Rep)
Jacqueline Halpin
Claire Kain (Geotourism)
Peter McGoldrick
Sebastien Meffre
Indrani Mukherjee (IED)
Phil Sansom (Education)

Geological Society of Australia website:

www.gsa.org

and our own website

<http://www.gsatasmania.org>

Any news, announcements or interesting photographs of Tasmanian Geology you would like to include in the next Newsletter, please send it through via email to karin.orth@utas.edu.au prior to the 22nd of March 2022

GEOLOGIZE

NOW FREE FOR GSA MEMBERS

Do you want to strengthen your geoscience communication skills? Maybe you want to educate a non-specialist audience about why geoscience is important.

*If you do, take advantage of the GSA members-only license to Geologize's critically acclaimed course **Practical Geocommunication** for 2022 for **FREE!***

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What do you need to do next?

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THE ROYAL
SOCIETY OF
TASMANIA

THE ADVANCEMENT
OF KNOWLEDGE

The Royal Society of Tasmania

INVITES YOU TO

A PUBLIC LECTURE BY

Dr Indrani Mukherjee

Understanding Early Earth Environments

when: **1.15 pm Sunday 27th March 2022**

The lecture will commence at 1.30 pm following the Annual General Meeting

Full COVID vaccination is highly desirable and the wearing of face masks mandatory

where: **Meeting Room, QVMAG at Inveresk**

admission: **free for members of the Royal Society of Tasmania**

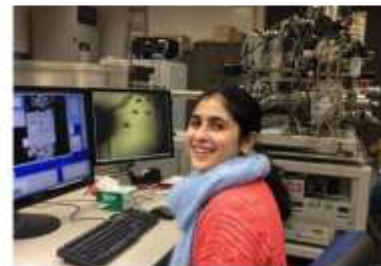
\$6 general admission

**\$4 for students, QVMAG or TMAG Friends, and
members of Launceston Historical Society**

for Zoom webinar, register at rst.org.au/

The transition of a simple cell into a complex one, billions of years ago, is the reason we share the planet with millions of species today. Indrani Mukherjee's research focuses on "what drove that biological transition?" The approach involves a nuanced understanding of ancient marine environments, via novel and cutting-edge geochemical techniques.

Indrani earned her BSc Honours and Masters in Geology at the University of Delhi where she was also awarded the university gold medal for securing the highest marks in MSc. She completed her PhD at UTAS in 2018 where she is a lecturer and postdoctoral researcher in Earth Sciences, and was awarded the 2021 Vice-Chancellor's Early Career Award.



Generously supported by



City of LAUNCESTON
**QUEEN VICTORIA
MUSEUM & ART GALLERY**

2022 Launceston Lecture Series

2022 Jewellery, Gem & Mineral Fair



**East Devonport
School Gymnasium**

Saturday & Sunday

26th & 27th March

9am - 4 pm



Trade Tables ...
Jewellery, Gems,
Minerals & Fossils
Children's Activities
Lapidary Equipment



Adult -\$5.00

Under 16 -Free

For more information contact -
Collene Donaghy 0407 165 005