



Mineralogical Society of Western Australia Inc.

January 2019 Newsletter

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Editorial

At all meetings the Society's microscope and UV lamp are available for use by members.

We finally have our own lockable cupboard located in the Lapidary Club premises. The library is currently housed there together with some equipment. To access the books please see the Librarian, John Mill. John has also added several new books to the library obtained by Angela Riganti.

The policy that members may submit short advertisements free of charge will remain. Additionally, commercial advertisements will be accepted for a nominal charge.

Recent Activities

The General and Annual General Meetings of the Mineralogical Society of Western Australia Incorporated are now held at 7.30pm on the **second** Wednesday of every odd month at the WA Lapidary Club rooms located at 31, Gladstone Road, Rivervale (corner of Newey Street).

General Meeting, Wednesday. November 14, 2018

The door prize of a beryl from east of Roebourne, donated by Lee Hassan was won by Susan Stocklmayer

Following the meeting Jason Bennett presented a talk on “Teasing apart the cassiterite multi-tool”.

In 2011, Jason completed an Honours Thesis in experimental petrology examining the effects of Ni and Cu on the Sulfur Content at Sulfide Saturation of Basaltic Magmas at the Research School of Earth Sciences (ANU). In 2012 he moved to Perth to join the BHP Billiton Graduate Program, where he worked in both exploration and mine geology roles in Iron Ore in the Pilbara. In 2015, Jason joined the Centre for Exploration Targeting at UWA to start a PhD on the use of cassiterite as a multiprocess recorder of Sn-bearing mineral systems. Jason has been a member of the Mineralogical Society of Western Australia since coming to Perth in 2012.

Cassiterite (SnO_2) is ubiquitous in many mineralising systems related to highly fractionated reduced granitic magmas, including the metals W, Mo, Li, Nb, Ta and In which are deemed ‘Critical Metals’ for 21st Century technology. In order to find more exploitable deposits for these resources, we need to develop more detailed and nuanced models that can describe how and why the existing known deposits are where they are. As cassiterite is a direct product of the mineralising event in many cases, changes in the chemical and isotopic signatures recorded during growth might be of use to develop a sort of ‘timeline of events’ during the formation of the deposit. In this talk, I will present a summary of some of the work I have done during my PhD thesis, a few key findings, and where I hope to take this research in the future.

Jason is currently completing his PhD and the data he presented has not yet been published so further details are unavailable. We look forward to reading more on this topic in the future.

Upcoming Meetings and Activity Days

Special general meeting and ordinary general Meeting, Wednesday. January 9, 2019

The next meeting will be held on Wednesday 9th January 2019 at 7:30 PM on the premises of the WA Lapidary and Rockhunting Club at 31 Gladstone Road, Rivervale, WA. . Dr. Des Lascelles will be presenting a talk of “Fibrous minerals and the genesis of asbestos and tiger eye”. This talk will follow a special general meeting to vote on acceptance of the new draft constitution and an ordinary general meeting.

Talk Abstract:

About the talk: A brief description of what makes a fibrous mineral and their occurrence, followed by a discussion on asbestiform minerals and their genesis and the origin of tiger eye gemstones.

About the speaker: Des graduated from London University with BSc Hons in 1964 and spent 5 yrs with De Beers Group in West Africa and then Australia before enrolling at Macquarie University to do research into the weathering of ultramafic rocks and graduated with MSc in 1973. Des then worked at the Paraburdoo Iron ore Mine before moving to far north Queensland and commencing as an independent consultant geologist in a wide variety of fields but mostly in iron ore. Des retired from full time employment in 1998 and enrolled part-time at UWA to do research on BIF and iron ore leading to a PhD. Des's thesis consisted of 7 sole author published papers on BIF and iron ore and he was appointed an Adjunct Research Fellow at the Centre for Exploration Targeting at UWA. Des has been fully retired as a consultant since 2013 but continues to write research and review papers from home.

- Members of the public are very welcome to attend
- Door charge: \$3 for MinSoc members and \$5 for visitors; this includes tea/coffee and light supper

Social function; river picnic, Saturday, January 19, 2019

The committee invites you to celebrate the start of a new year and catching up with old friends with a social function at South Perth Foreshore (see attached map) on the 19th of January 2019 from 6pm.

BYO - Food and Drinks, don't forget a picnic blanket or chair.

Partners, friends and potential new members welcome.

Parking available at the end of South Perth Esplanade.



Mineral Market, March 17, 2019

Another mineral market has been planned for March 17th, 2019 after the success of the last mineral market held in 2018. The market will take place at the WA Lapidary Club from 10am (9.30am for sellers) to 3 pm. The entry fee is \$2 with children under 12 free. Stallholder's fees are at \$5 per table.

Should you want to reserve a table for selling, please contact Lee Hassan at lee_notebook@msn.com to reserve your table.

Miscellaneous

42th Joint Mineralogical Societies of Australasia - seminar update

Planning for the Seminar is well underway and registrations are now open. The seminar schedule of events and details on how to register can be found below. Speakers confirmed include Professor Andrew Putnis (Director of TIGeR, Curtin University), Associate Professor Paul Carr (University of Wollongong), and Dr Peter Downes (Western Australian Museum).

DATE	EVENT	COST (AU\$)
Friday 30 August 2019	Micromount Session, WA Lapidary Club, Rivervale	5.00
Friday 30 August 2019, PM	Welcome to Perth - Function Hosted and Sponsored by Crystal Universe, Subiaco – LIMITED TICKETS, AVAILABLE ONLY TO SEMINAR TICKET HOLDERS AND THEIR PARTNERS	Free
Saturday 31 August 2019 – Sunday 1 September 2019	Seminar - State Library of WA EARLY BIRD 10% discount CLOSES 28 February 2019 2 days of talks on the selected theme	135.00 MinSoc/like-Society Member 170.00 Non-member 75.00 Student
Saturday 31 August 2019, PM	Conference Dinner and Mineral Auction - Mercure Hotel, Perth CBD	65.00
Sunday 1 September 2019, PM	Closing Function - Hosted and Sponsored by MinSocWA's Patron Mr Mark Creasy – LIMITED TICKETS, AVAILABLE ONLY TO SEMINAR TICKET HOLDERS AND THEIR PARTNERS	Free
Monday 2 September 2019	Swap and Sell - WA Lapidary Club, Rivervale	5.00 per table for sellers
Tuesday 3 September 2019	Field Trip Murchison Region - Expression of Interest	Self-drive

Please use the link <https://www.trybooking.com/ZVTK> to book for the Seminar and associated events.

Take advantage of the **EARLY BIRD** (10% discount) offer for the seminar by booking before **28 February 2019**.

To book, follow these steps:

1. Click on the link provided

2. Click BOOK NOW
3. SELECT a session you wish to attend
4. Enter the number of tickets required (e.g. partner for conference dinner)
5. Click NEXT - NB do not select another session at this point
6. Answer the questions as needed:
 - a. If not a member of a MinSoc or like Society, please enter N/A
 - b. if you have purchased more than one ticket, please enter the name(s) of the other attendees in the space provided
7. Click NEXT
8. Click **BUY MORE TICKETS** to purchase tickets for **another session**
9. Repeat STEPS 3 to 8 until you have booked all the events you wish to attend
10. Proceed to checkout by selecting PURCHASE at the bottom of the table
11. Enter your personal, contact and credit card details
12. You will receive an email notification with all the tickets you have purchased

PLEASE NOTE:

- The *Welcome to Perth* and *Closing Functions* are restricted to seminar delegates and their partners, and have a limited number of tickets. Should you not be able to get a ticket, or not be able to attend after you have obtained a ticket, please email lee_notebook@msn.com, so that we can manage a waiting list
- A separate link will be provided once details of the field trip are firmed up, but please indicate your interest in attending the self-drive trip to the Murchison Region to be kept informed
- Tickets can be purchased at different times – just remember what you have already purchased!
- Refunds will be considered on a case-by-case basis
- Full details (times, venue location, detailed programs, etc.) will be provided at a later date
- If unable to book online, please contact lee_notebook@msn.com to arrange alternative ways of booking

BOOK your tickets at <https://www.trybooking.com/ZVTK>

New Members

Welcome to new member: Norton Kalleske

Committee Members

The Committee for 2018/2019 is shown below.

President	Stewart Cole	0414904169
Vice President	Sue Koepke	0417990688
Secretary/Treasurer	Lee Hassan	93975197
Field Trip Leader	Rodney Berrell	0407081025
Committee Member/ Newsletter Editor	Vernon Stockmayer	92919043
Committee Member	Angela Riganti	92437472
Committee Member	Peter Willems	0467040409