



SOUTH AUSTRALIAN GEOLOGIST

Newsletter of the
Geological Society of Australia
(South Australian Division)

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www.sa.gsa.org.au

Chair (SA Division)

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NEXT MEETING OF THE SA DIVISION

(A public lecture in conjunction with the SA Museum)

NOTE CHANGE OF TIME AND VENUE

Thursday 20 November 2008, 6.00 pm

(Drinks and nibbles from 5.40pm)

Professor Paul F. Hoffman
(Harvard University)

will speak on

**Snowball Earth:
Climate disasters that spawned animal life as we know it**

Venue: Pacific Cultures Gallery, South Australian Museum

**There is a charge of \$5 per person. There is limited space and
bookings are essential at 8207 7575 or 8207 7377**

VISITORS WELCOME

PARKING

- *Victoria Drive, Frome Road, Memorial Drive: meters timed to 6.00 p.m., free thereafter.*
- *Meter parking within university grounds, tickets \$5 through Gate 10, west of the footbridge, coin machine 10m within gate.*
- *"EZIPARK" at Royal Adelaide Hospital, enter from Frome Rd. at traffic lights opposite Petroleum Engineering. \$2-50/hour for 3 hours thence \$1-00 for each extra hour.*

**ABSTRACT: SNOWBALL EARTH:
CLIMATE DISASTERS THAT SPAWNED ANIMAL LIFE AS WE
KNOW IT**

There is mounting evidence that the entire globe was covered by dynamic glaciers for long periods near the beginning and end of the Proterozoic Eon. The cause of these climatic crises is uncertain, but their terminations are believed to have resulted from 'greenhouse' forcing due to the inability of the frozen Earth to consume carbon dioxide emitted by normal volcanic activity. This is the 'snowball Earth hypothesis', proposed by palaeomagnetist Joseph L Kirschvink in 1989. As the oldest known fossils attributable to multicellular animal life appear less than 3 million years after the last 'snowball' episode ended, in 635 Ma in South China and the Sultanate of Oman, geobiologists are now considering the possibility that complex animal life somehow arose as a result of extreme environmental changes.

ANNOUNCEMENTS

GSA December Meeting – Thursday 11 December 2008

This will be our Annual Students Night at which we will feature research projects carried out during 2008 by SA's best student researchers. Please place this date in your diary.

Membership

There are no new members this month

**5TH SOUTH AUSTRALIAN EXPLORERS CONFERENCE –
ADELAIDE CONVENTION CENTRE - FRIDAY 28 NOVEMBER 2008**

The 5th SA Explorers Conference has been scheduled for Friday 28 November 2008 in Hall C of the Adelaide Convention Centre from 8.30am – 5.30pm, Registration commences at 8.00am.

Presentations will be complemented by a keynote address by Dr Paul Heithersay (PIRSA) and a summing up session by Derek Carter. Developments at Olympic Dam, Prominent Hill and Carrapateena will be featured

Total cost of \$150 per person will include coffee breaks lunch and closing drinks as well as a DVD of presentations. Students are free of charge.

Please find a registration form accompanying this newsletter.

Further details from Kevin Wills at ph 8362 5900, email: kwills@flindersdiamonds.com.

The draft programme for the conference is

8:00 – 8:30 am Registration Jeanette Brooks

8:30 – 8:35 Kevin Wills Welcome

8:35 – 9:00 am Keynote: Paul Heithersay *Executive Director Division of Minerals and Energy Resources PIRSA:*

SESSION ONE:

New Companies (3) Chair: Andrew Shearer

9:00 – 9:15 am Larry Ingle *General Manager* Iron Road Limited
The Warramboe Iron Project – Early Observations and Comment

9:15 – 9:30 am

Mark Manley *Chief Geologist* Phoenix Copper Limited
Profitable Past, Exciting Future

9:30 – 9:45 am

Steven Olsen *Managing Director* Rex Minerals Limited
A New Copper Discovery on the Yorke Peninsula

Exploration Projects (9) Chair: Tom Mayer

9:45 – 10:00 am

Joseph Ogierman *Senior Geologist* Copper Range Limited
A New Model for Sediment Hosted Copper Mineralisation in the Adelaide Fold Belt

10:00 – 10:15 am

Dale Ferguson *Executive Director Exploration and Operations* Hillgrove Resources Limited
Exploration & Operations: Developments at Alford East

10:15 – 10:30 am

Dr John Parker *Managing Director* Lincoln Minerals Limited
Wilcherry Uranium Prospect and More

10:30 – 11:00 am Morning Coffee/Tea Break (30)

SESSION TWO: Exploration Projects continued**11:00 – 11:15 am**

Adrian Brewer *tba* Lynch Mining Pty Limited
 An Update on Mineralization Styles & Geology of the Western Eyre Peninsula

11:15 – 11:30 am

Graham Ascough/Jim McKinnon-Matthews *tba* Mithril Resources Limited
 Musgrave Ranges Nickel, Platinum, Palladium

11:30 – 11:45 am

Michael Schwarz *Managing Director* Monax Mining Limited
 The Manganese Potential of the Central Eyre Peninsula

11:45 – 12:00 pm

Robert Rutherford *Managing Director* Red Metal Limited
 Red Metal, Yellow Cake and Black Sands

12:00 – 12:15 pm

Steven Biggins *Managing Director* Southern Gold Limited
 Southern Gold: Challenger Area Gold Project S.A.

12:15 – 12:30 pm

Graham Teale *tba* Teale & Associates Pty Limited and Brewer Geological Services
 Tin Mineralization in a Mesoproterozoic Volcanic Sequence, Northern Flinders Ranges

12:30 – 1:45 pm Lunch (75)**SESSION THREE:****Feasibility Studies (5) Chair: David Brunt****1:45 – 2:00 pm**

TBA *tba* Alliance
 4 Mile

2:00 – 2:15 pm

Chris Giles *tba* Havilah Resources
 Kalkaroo & Mutooroo

2:15 – 2:30 pm

Hans Umlauf *tba* Iluka Resources Limited
 Iluka's Eucla Basin Mineral Sands Development

2:30 – 2:45 pm

Kevin Wills *Managing Director* Maximus Resources Limited
 Gold at Bird In Hand and the Adelaide Hills

2:45 – 3:00 pm

Tom Mayer *Senior Geologist* Minotaur Exploration Limited
 Carey's Well Kaolin Project

3:00 – 3:30 pm Afternoon Tea/Coffee Break (30)**SESSION FOUR: Mines (6) Chair: Kevin Wills****3:30 – 3:45 pm**

Bob Singer *Chief Geologist* Terramin Australia Limited
 Angas Zinc Mine

3:45 – 4:00 pm

Paul Androvic *Manager, Mining & Geology* Dominion Gold Operations
 Taking Challenger to the Next Level

4:00 – 4:15 pm

Darryl Stevenson *Consultant to Babcock and Brown*
 Leigh Creek Coal Field

4:15 – 4:30 pm

Paul Levers *Chief Mine Geologist* One Steel Limited
 Project Magnetite Geology Update

4:30 – 4:45 pm

Patrick Say *Mine Geologist* Oz Minerals Limited
 Prominent Hill

4:45 – 5:00 pm

Kathy Ehrig *Principal Geometallurgist* BHP Billiton
 Olympic Dam

CLOSE**5:00 – 5:15 pm**

Derek Carter *Managing Director* Minotaur Exploration Limited
 Summing Up

5:30 – 6:30 pm Closing Drinks – Sponsored by Paydirt

OCTOBER MINUTES

Minutes of the ordinary monthly meeting, Thursday, October 16, 2008,
Mawson Lecture theatre, University of Adelaide

Attendance: 75

Chair: Ian Clark

The meeting opened at 6. 20 pm.

Apologies: Graham Taylor, Pat James, Bob Wiltshire, Patrick Lyons

Minutes of the Ordinary Meeting of September 18, 2008 were approved.

New Membership nominations

The following new membership nomination was approved by the meeting:

Member: Suzanne Miller (Jim Jago/Jim Gehling)

The Chairman mentioned the 5th Annual SA Explorers Conference to be held on Friday, November 28 at the convention centre and the AusIMM Essington Lewis lecture to be given by Dr Ziggy Switkowski on November 13

The Chairman then introduced the speaker, Professor Paul Hoffman, Harvard University, who gave a fascinating talk on "The Pleistocene Glacial Controversy and the Discovery of Global Warming"

Following questions Brian McGowran proposed an excellent vote of thanks.

The Chairman reminded members that the next meeting will be on November 20 when Professor Hoffman will speak on Snowball Earth.

The meeting closed at 8 00pm.

After the meeting the speaker and nine members repaired to "Café Michael 2" for the usual excellent meal and sparkling conversation.

Geological Society of Australia (South Australian Division)

Office bearers 2008/2009

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For GSA Subscriptions or address and email changes please contact Ms Sue Fletcher at our central office in Sydney by phone (02) 9290 2194 or email info@gsa.org.au.

STUDENT MEMBERSHIP ONLY \$10

For all students, the membership rate is only \$10 per year, which includes receipt of AJES on-line and all other benefits. Please encourage all aspiring geologists (and there are record numbers) to join GSA.