

OUR REAL EARTH, GEOLOGY AND ENVIRONMENT

An event open to all school teachers
and students (years 7 to 12)

This event assumes no prior qualifications in geology

Saturday 15th November 2014

Teachers, Parents and
Students registration is
now **FREE**, thanks to our
additional sponsors



AUSTRALIAN
INSTITUTE OF
GEOSCIENTISTS

Supporting Geoscientists



geosymposia.com.au



Geological Survey of
Western Australia



SJS RESOURCE MANAGEMENT
SCALE, JUNCTURE AND SERVICE



VENUE

CSIRO auditorium

Australian Resources Research
Centre (ARRC)

26 Dick Perry Ave, Kensington WA
(near Curtin University)

COMMITTEE

Suzy Urbaniak

(Kent Street Senior High School)

Julian Vearncombe

(SJS Resource Management)

REGISTRATION

School teachers, parents,
school age pupils (years 7 to 12)
who register online in advance:

NO CHARGE

PLEASE REGISTER ONLINE:
www.geosymposia.com.au

Contact: training@geosymposia.com.au

To present earth processes to school teachers and interested students, explaining what these processes mean for the economy, sustainability and environment. Teachers will be provided with materials and resources to assist future teaching activity. Both teachers and students will receive a certificate of attendance for their professional learning requirements and folio development respectively.

TIMETABLE

13h00	Registration
13h25	Introduction
13h30	Rocks, reefs, and wrecks – a geologist's life Dr Phil Playford (<i>formerly Director Geological Survey of Western Australia</i>)
14h30	How to make a tea-spoon Prof. Ian Plimer (<i>Prof. University Adelaide</i>)
15h30	Afternoon tea and cakes, and inspection of teaching materials including experiments, and maps and guide to locations on Rottnest that demonstrate climate change. ESWA, STAWA & CME will have stands with material to peruse.
16h00	The dynamic earth Dr Simon Johnson (<i>Project Manager Geological Survey of Western Australia</i>)
17h00	The economics of resource development — important at all scales Dr Rick Rogerson (<i>Director Geological Survey of Western Australia</i>)

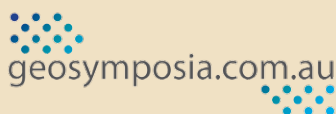
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HEALTH AND SAFETY

The Western Australia mining industry is known world-wide for its lead role in occupational health and safety. All Symposium participants will be required to comply with health and safety laws, regulations, recommendations and leader requests.

Specifically:

- There will be compulsory safety inductions prior to all activities.
- For all activities there will be a designated leader responsible for safety and she/he is your first communication point on any safety issues.
- All safety and health issues should be reported to the responsible person immediately.
- All mining and exploration companies have a zero tolerance policy to drugs and alcohol.
- In the interests of everyone's health, all events are strictly no smoking.
- Delegates to the training event should wear covered footwear.
- All safety incidents and accidents should be reported as soon as possible, irrespective of how minor they may appear.



ABOUT GEOSCIENTISTS SYMPOSIA

Geoscientists Symposia works with SJS Resource Management Pty Ltd and The Australian Institute of Geoscientists (AIG) to provide training courses and symposia across a wide range of themes.

Geoscientists Symposia also organize short courses, field trips, lectures and mine visits as well as regular networking and social events.

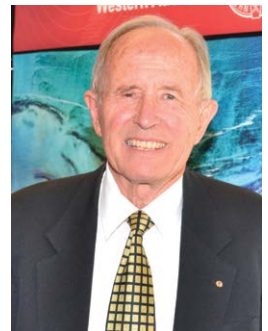
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ABOUT THE SPEAKERS

Phil Playford

Dr Phil Playford was born and grew up in WA. He holds a B.Sc. (Hons) in Geology and an Honorary DSc from the University of WA, and a Ph.D. from Stanford University. He is a former Director of the Geological Survey of WA, and is a Member of the Order of Australia.

Phillip decided to become a geologist during his last year of high school (1948), because he thought that it offered the best prospects to lead an adventurous life. Few people in WA knew anything about geology and geologists at that time. The only mines were at Kalgoorlie-Boulder (gold) and Wittenoom (asbestos), there were no known reserves of oil and gas, and the agricultural and pastoral industries formed the fundamental basis of our economy. Today mining and petroleum dominate that economy, resulting from our favourable geology and exploration programs directed by geologists.

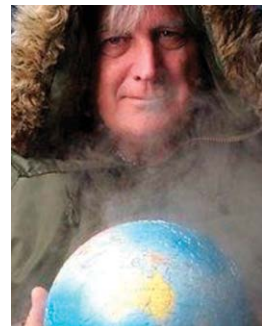


Ian Plimer

Ian is perhaps Australia's best-known geologist. He is Professor Emeritus of Earth Sciences at the University of Melbourne, Professor of Mining Geology at the University of Adelaide, and the Director of multiple mineral exploration and mining companies. Ian is the author of eight books covering the topics Evolution, Climate Change and Big Industry.

The processes required to make a humble stainless steel teaspoon are remarkably complicated and every stage involves risk, coal, energy, capital, international trade and finance. Stainless steel cutlery has taken thousands of years of experimentation and knowledge to evolve and the end result is that we can eat without killing ourselves with bacteria. We are in the best times to have ever lived on planet Earth and the future will only be better. All this we take for granted.

Photo courtesy of <http://www.perthnow.com.au/business/local-business/rinehart-appoints-plimer-to-board-roles/story-e6frg2s3-1226259721980>



Simon Johnson

Simon graduated with a PhD in tectonics from St Andrews University in Scotland in 1999, and currently manages the Capricorn Orogen mapping team at the Geological Survey of Western Australia. He specializes in plate tectonics and how this is expressed in the Proterozoic rock record.

Plate tectonic processes on Earth are responsible for the flux of water and carbon dioxide into, and out of, the planet. These global-scale cycles directly modify the composition of the hydrosphere and atmosphere, and may also result in the formation of major ore bodies. Simon's talk explores the interplay between these dynamic processes.



Rick Rogerson

Rick Rogerson is currently Executive Director, Geological Survey of Western Australia, a part of the WA Department of Mines and Petroleum. He has worked in executive positions in Papua New Guinea and Australia and has undertaken contracts for the World Bank and AusAID providing technical assistance to developing countries, mainly in mineral policy and strategic management areas. He has served as President and Treasurer of the Australian Institute of Geoscientists.

Beginning with the estimation of a resource for an exploration project, economics plays a critical role in the resources sector. In free-market economies, ore is mineralised material that can be mined and processed at a profit in a socially and environmentally responsible manner. This profound definition drives the social and economic impacts of resource development at regional, State and National levels. This presentation gives practical examples of economics at the project, regional/state, and national levels, including a worked example.

