

TOPIC 3 - GEOLOGY AND HYDROGEOLOGY OF SOUTH AUSTRALIA

Tuesday, 22 September 2015
Conference Room, Nuclear Fuel Cycle Royal Commission
Level 5, 50 Grenfell Street, Adelaide SA 5000

Professor David Giles, University of Adelaide (9am)

David Giles is the Program 3 Leader at the Deep Exploration Technologies Cooperative Research Centre where he carries our research into improving the utility of data collected by drilling programs. Professor Giles has worked extensively in the area of exploration geosciences and is widely published on geological formations in both Australia and overseas.

Topics to be addressed at this public session:

- ⊕ Radioactive mineralisation in Australia and overseas
- ⊕ Radioactive mineral potential in South Australia
- ⊕ State of technical knowledge regarding mineral exploration in South Australia

Professor Graham Heinson, University of Adelaide (11am)

Graham Heinson is a Professor of Geophysics and has extensive experience in the use of Magnetotellurics (MT), a geophysical mapping technique which is used to gather data about geological structure and processes. Professor Heinson is currently involved in AusLAMP, a national program where MT is being used to better understand Australia's geodynamic framework.

Topics to be addressed at this public session:

- ⊕ Tectonics and geophysical properties of South Australia
- ⊕ Monitoring of geophysics and data collection
- ⊕ Geophysical techniques for mapping radioactive minerals

Dr Steve Hill, Department of State Development (1.30pm)

Steve Hill is the Chief Government Geologist and Director of the Geological Survey of South Australia. The Geological Survey collects information concerning South Australia's geology and resource potential for public use.

Topics to be addressed at this public session:

- ⊕ Gaps in technical knowledge of South Australia's geology
- ⊕ Government strategies to enhance understanding of South Australia's geology



PUBLIC SESSION AGENDA

TOPIC 3 - GEOLOGY AND HYDROGEOLOGY OF SOUTH AUSTRALIA

Tuesday, 22 September 2015

Conference Room, Nuclear Fuel Cycle Royal Commission
Level 5, 50 Grenfell Street, Adelaide SA 5000

Dr Andy Barnicoat and Mr Martin Wehner, Geoscience Australia (3pm)

Andy Barnicoat is Chief of Geoscience Australia's Community Safety and Earth Monitoring Division. Dr Barnicoat has carried out research into a variety of areas in the geosciences, including mineral systems, mineral geology and structural geology, and has examined those aspects both within Australia and overseas. Martin Wehner is a Structural Engineer in the Community Safety Group and is experienced in modelling the vulnerability of structures to natural hazards.

Topics to be addressed at this public session:

- ⊕ Geoscience Australia's role in gathering seismic data
- ⊕ Levels of seismic activity which present risks to infrastructure and facilities
- ⊕ Strategies to mitigate risks presented by seismic activity



investigating opportunities and risks for south australia

nuclearrc.sa.gov.au