

# ***Geological Survey of NSW***

## ***2017 SMEDG Showcase***

*Thursday 23 November, 2017*

### **2017 Highlights from the Geological Survey of NSW**

*Chris Yeats, Executive Director, Geological Survey of NSW*

During 2017, the Geological Survey of New South Wales (GSNSW), along with the rest of the former Division of Resources and Energy, transitioned from the Department of Industry to the Department of Planning and Environment. The Branch also grew, with the Environmental Sustainability Unit, responsible for the regulation of NSW mine and exploration rehabilitation, and the Royalties & Advisory Services Unit joining GSNSW. However, a large proportion of GSNSW's work has remained focussed on acquiring and delivering the best possible precompetitive geoscientific data to the industry, government and the community. This presentation will briefly discuss key GSNSW precompetitive data projects and products, other than those presented by other speakers at this evening's event.

### **Uncovering the Southern Thomson Orogen**

*Rosemary Hegarty, Senior Geoscientist, Geophysics & Modelling*

In 2017, after four years of planning, preparation, paperwork and pre-drilling analysis, seven holes were completed into the basement rocks of the NSW portion of the Southern Thomson Orogen. This presentation will deliver new insights into this classic *New Frontier* undercover terrane from the initial drilling results.

### **What's new in Coonabarabran? Latest results from airborne geophysics, geological mapping and collaborative drilling**

*John Greenfield, Director Geoscience Acquisition & Synthesis*

This presentation will summarise the results of a new GSNSW airborne geophysical survey over Coonabarabran with implications for the extension of the Macquarie Arc, new geological mapping for the evolution of the Warrumbungle Volcano, and some very unusual rocks discovered during collaborative drilling on Alice Queen's Looking Glass project. You will also hear how GSNSW is helping draw visitors to the Warrumbungle National Park.

### Basement intercepts under cover - Results of the Mendooran drilling project

*Dan Cronin, Geoscientist, Mineral Resource Assessment*

The Geological Survey of NSW is currently undertaking a regional reconnaissance, five hole drilling program to assess the coal resource potential of the Mendooran area. The sedimentary basin sequence is relatively thin in much of the area and to ensure all coal seams are intercepted the holes are planned to terminate in basement. Terminating the holes in basement provides the opportunity to acquire new data on the basement geology to assist mineral explorers in a region where there is prospectivity for gold and base metals, and relatively little historical metal exploration.

### Exploring your data - The new MinView

*Mark Armstrong, Acting Director Geoscience Information*

Nothing is more important to the mining and exploration industry than ready access to high quality geoscientific data. This presentation will highlight the features and benefits of MinView3, launched in mid-2017, from the perspective of a former exploration team leader who is new to the world of managing online data delivery systems.

### Quarterly Notes 150 - Celebrating almost 50 years of high-quality geoscientific communication

In April 1970, the Smithsonian Institution in Washington D.C. published the first edition of *Smithsonian* magazine. The first issue exceeded a circulation of 200,000, and was unique in that it encompassed science, arts and the humanities in a single magazine. Six months later, on 1 October, the first edition of *Quarterly Notes* was published by the Geological Survey of NSW. The first issue had a circulation of significantly less than 200,000 and featured articles on the age of the Billabong Creek Limestone and a synthesis of Narabeen Group nomenclature. Some 47 years later, both publications are still going strong, although *Quarterly Notes* hasn't quite met its stated target of being published on "...the first day of January, April, July and October each year."

*Quarterly Notes 150* is a retrospective issue that looks back at some of the significant events and changes that have occurred in geoscience and the Geological Survey since the first issue in 1970. GSNSW is proud to invite former Directors of the Survey to join us in launching the issue at our annual SMEDG showcase.