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ontheoutcrop is a Geological Survey of New South Wales (GSNSW) e-newsletter. For more information about newsletter items go to: <http://www.dpi.nsw.gov.au/minerals/geological>

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UPCOMING EVENTS

22nd ASEG Conference & Exhibition, 26–29 February 2012, Brisbane

GSNSW staff will speak at the [ASEG Conference 2012](#) and release the preliminary data for the Grafton–Tenterfield airborne geophysical survey.

PDAC, 4–7 March 2012, Toronto, Canada.

GSNSW staff will represent NSW at the Team Australia booth at the [Prospectors & Developers Association of Canada \(PDAC\) international mining investment show 2012](#). GSNSW will also give pre-conference presentations on new mineral exploration opportunities in NSW at the Australian Mineral Exploration Investment Seminar in Vancouver.

Sydney Basin Symposium, 10–11 May 2012, Hunter Valley Gardens, Pokolbin

Information on the general program, field excursion and registration for [the Geology of the Sydney Basin Symposium 2012](#) is available on-line.

34th International Geological Congress, 5–10 August, 2012, Brisbane

The [International Geological Congress](#) (IGC) will showcase the Oceania region's geoscience strengths, innovations and natural wonders under the theme 'Unearthing our Past and Future'. Abstract submissions are being accepted and early bird registration is now available.

NEW PRODUCTS AND SERVICES

North and South Koonenberry solid geology maps

The [Koonenberry Belt 1:250 000 Solid Geology](#) is now available and is printed on separate north and south sheets using tough synthetic paper. The printed maps cost \$19.80 each and are also available as scanned images which can be downloaded from the [Geoscience Product Catalogue](#).

Contact: geoscience.products@industry.nsw.gov.au

Preliminary Moss Vale 1:100 000 geological map available

The [preliminary 1st edition of the Moss Vale 1:100 000 geological map](#) is available as a scanned image and as a print-on-demand hard copy.

Contact: geoscience.products@industry.nsw.gov.au

New commodity flyers

The [Mineral Systems Group](#) (MinSysNSW) is preparing new and updated commodity flyers that outline mineral exploration opportunities in NSW. The new flyers include iron, copper, gold, tin and bauxite. A special updated 'second edition' for rare earth elements is a priority.

Contact: Phil Blevin, Team Leader—Minerals, phil.blevin@industry.nsw.gov.au, 02 4931 6585

Advance orders for Grafton–Tenterfield airborne geophysical survey data

Advance orders are now being accepted for the Grafton–Tenterfield airborne geophysical survey data to be released at the [ASEG Conference](#) in Brisbane, 26–29 February, 2012. The data will include preliminary grids and images.

Contact: David Robson, Chief Geophysicist, regional.mapping@industry.nsw.gov.au, 02 4931 6717

Quarterly Note 137 — A Review of Cambrian and Ordovician stratigraphy in NSW

[Quarterly Note 137 \(free download\)](#) provides a reference to Cambrian and Ordovician rocks in NSW which will benefit the mineral exploration industry, geological mapping and research. The study includes a gap audit of areas with insufficient data to resolve age determinations and correlations, a list of obsolete or redundant rock units, a fold-out correlation of selected rock units, and an extensive bibliography.

Contact: Ian Percival, Principal Research Scientist, ian.percival@industry.nsw.gov.au, 02 4777 0315

PROJECT HIGHLIGHTS

Moss Vale Mapping Project

The [preliminary 1st edition of the Moss Vale 1:100 000 geological map](#) is available and the accompanying explanatory notes are approaching completion. The project has led to a better understanding of the Sydney Basin sequence and more detailed mapping of the Budawang Synclinorium, an important structural feature in the eastern Lachlan Orogen basement. The Sydney Basin mapping will assist with modelling of carbon capture and thermal energy potential in this part of the Sydney Basin. The mapping completes and complements the extensive mapping of the [Goulburn 1:250 000 map](#) to the west.

Contact: Steve Trigg, Project Leader, regional.mapping@industry.nsw.gov.au, 02 6360 5361

Captains Flat–Michelago Geological Mapping Project

The [Captains Flat–Michelago Geological Mapping Project](#) aims to complete the 2nd edition mapping of the mineralised middle Silurian to Early Devonian rift basins of the southeastern Lachlan Orogen which are prospective for base metal volcanic hosted massive sulphide (VHMS) deposits. This project complements the mapping of the [Braidwood 1:100 000](#) and [Goulburn 1:250 000 map](#) sheet areas and follows the acquisition of detailed airborne geophysics over the southeastern part of NSW.

Contact: Joel Fitzherbert, Project Leader, regional.mapping@industry.nsw.gov.au, 02 4931 6734

Mount Oxley and Coolabah Geological Mapping Project

The [Mount Oxley and Coolabah Geological Mapping Project](#) straddles the tectonic boundary between the north–south trending Lachlan Orogen and the east–west trending Thomson Orogen. The area is prospective for different mineral systems particularly Girilambone-style copper, Siluro–Devonian Cobar copper–gold type deposits, and Triassic-granite related systems. The project will also provide information to the ongoing Cobar Penepplain land-use assessment study.

Contact: Phil Gilmore, Project Leader, regional.mapping@industry.nsw.gov.au, 02 4931 6533

Rare Earth Element study calls for industry involvement

The [Mineral Systems Group](#) (MinSysNSW) under the *New Frontiers* initiative, is focussing on rare earth elements including yttrium and related elements (tantalum, niobium, zirconium, tin) in response to recent industry interest in these commodities. Broken Hill pegmatites and related rocks are amongst the targeted NSW deposits for the study. MinSysNSW welcomes company engagement in the study.

Contact: Phil Blevin, Team Leader, phil.blevin@industry.nsw.gov.au, 02 4931 6585

RECENT EVENTS

Mineral Resource Audit identifies future extractive resources sources

Simon Francis, Senior Geoscientist with Land Use Assessment, spoke on 'Strategic Planning for Extractive Resources' at [The Institute of Quarrying Australia's \(IQA\) Annual Conference](#) in October in the Hunter Valley. He addressed the predicted shortfall between supply and demand for basic construction materials in the Sydney market; the GSNSW [Mineral Resource Audit](#)'s role in identifying and protecting industrial mineral resources; and the need for industry and government collaboration for sourcing adequate future construction materials.

Contact: Simon Francis, Senior Geoscientist, simon.francis@industry.nsw.gov.au, 02 4931 6707

GSNSW wins mapping award

GSNSW has received a major award from the New Zealand Cartographic Society for its [1:1 500 000 Metallogenic Map of NSW](#). The award was given for the innovative approaches to this type of map. The map shows the distribution of major NSW mineral districts with selected deposits as key mineral systems as identified in the GSNSW [mineral systems classification](#). The map gives an overview of commodities and prospective areas of NSW and is the first of a series of statewide and regional scale maps under development through the [Mineral Systems of NSW project](#).

Contact: geoscience.products@industry.nsw.gov.au

Mineral Exploration Assessment

GSNSW has obtained increased resources and deployed additional staff to Mineral Exploration Assessment to reduce the backlog.

Contact: Ian Clarke, Principal Geologist, ian.clarke@industry.nsw.gov.au, 02 4931 6715

STAFF MOVEMENTS

Cressida Gilmore has accepted the position of Team Leader, Land Use Assessment.

Chrissie Gerakiteys has resigned from her position as editor.

PRODUCTS AND ENQUIRIES

Internet product catalogue

The online [Geoscience Products Catalogue](#) includes over 240 hard copy maps and over 70 geoscience data packages (including geophysical data) on CD or DVD ROM.

Enquiries about purchasing products

Maps and data packages: geoscience.products@industry.nsw.gov.au: Tel: 02 4931 6503

Geophysical images and data: geophysics.products@industry.nsw.gov.au: Tel: 02 4931 6717

Counter sales: mineralpublication.orders@industry.nsw.gov.au Free call: 1300 736 122 Tel: 02 4931 6666

Online sales: <http://www.shop.nsw.gov.au/>

General enquiries about products and services

Contact: Michael Hallett, michael.hallett@industry.nsw.gov.au: Tel: 02 4931 6724

SUBSCRIPTIONS

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