



**Next HEDG event:
6 for 6.30pm,
Tuesday 25th August 2009,
Customs House, Newcastle**

Theme: mineral sequestration of CO₂

Tonight we will have six speakers presenting their research and the challenges associated with mineral sequestration.

1. Dr Judy Bailey, University of Newcastle
Why NSW needs mineral sequestration (10 minutes)
2. Monica Davis
A resource estimation of mineral sequestration potential in the northern Great Serpentine Belt (20 minutes)
3. Prof. Bogdan Dlugogorski, PRC for Energy
Basis for mineral sequestration of carbon dioxide (10 minutes)
4. Reydick Balucan, PhD student, PRC for Energy
Streamlining the sequestration reaction (10 minutes)
5. Hans Christoph Oskierski, MPhil student, PRC for Energy
Approaches to the formation of magnesite from natural reactions (10 minutes)
6. Tim Oliver, MPhil student, PRC for Energy
The Biological approach to CO₂ sequestration (10 minutes)

Drinks and nibbles at the bar from 6pm with the presentations from 6.30pm.
**For further details and to RSVP by Monday 24th August, contact
Phil Gilmore at phil.gilmore@dpi.nsw.gov.au**

Last presentation: 30th June 2009

Peter Buckley (Managing Director of Eastern Iron Limited) gave the last HEDG presentation on *The Maghemite "Mammoth" uncovered in NSW... Coming to terms with a different kind of Iron Ore*. Eastern Iron has been looking at potential iron resources associated with maghemite in lateritic material and palaeochannel systems in central and western New South Wales. Through an extensive drill program, a regionally extensive pisolitic iron has been discovered, which represents an uncemented form of Channel Iron Deposit (CID), a new iron deposit style, or 'NSW-CID'. NSW-CID occurs as a shallow free-digging gravel without goethite cement and therefore does not require drill, blast and stripping operations as it does in the Pilbara. Peter's talk encouraged much discussion of tonnage, recovery, grades, potential markets, mining methods, pisolite formation and composition amongst the 35-strong audience.



L/R: Bruce Staples (Mincom), Iain Paterson (GSNSW), Lindsay Gilligan (GSNSW), Peter Buckley (Eastern Iron Limited), John Watkins (GSNSW)



HEDG is sponsored by the NSW Department of Industry and Investment, and the Geological Society of Australia, Hunter Valley Branch



**Industry &
Investment**

2009 program

30th August The Friends of Grossmann House are celebrating a **Centenary of the local geology camps led by Sir Edgeworth David** on Sunday 30th August, 10am to 3pm at Brough House, Church Street, Maitland. There will be three talks from 11am (including Dr David Branagan) on Edgeworth David, the field camp and modern mapping methods, as well as memorabilia, geology and map displays. Edgeworth David was arguably Australia's most prominent geologist and a popular visitor to Maitland. Come along and experience the diversity of his contribution to the geological knowledge, economy and social history of the Maitland district. For bookings and details contact Janece or Lawrie (phone 4933 4450) or Grossmann House (phone 4933 6453).

11–17th October Earth Science Week
HEDG presentation — to be confirmed
Newcastle Foreshore Geological Ramble — to be confirmed

2010 advance notice

May: The Coalfield Geology Council of New South Wales in conjunction with the NSW Department of Primary Industries is presenting the **37th Symposium on the Geology of the Sydney Basin**. To be held in Pokolbin on 6–7th May 2010. For further details please contact the convenor: Marianne Harvey via: http://megms.com.au/index_files/sydbasin.htm or at <http://www.dpi.nsw.gov.au/minerals/info/symposium>

July: The Geological Society of Australia, with Geoscience Australia and the Australian National University are presenting the **Australian Earth Sciences Convention 2010** in Canberra, 4–8th July 2010. The call for abstracts is now open. Further details at [AESC — Australian earth sciences convention 2010 — Home Page](#).

HEDG is a regular speaker series for geoscience professionals, academics and students in Newcastle and the Lower Hunter Valley. Presentations are at Customs House, Newcastle, 6 for 6.30pm. For further information or suggestions on potential speakers / topics, please contact Phil Gilmore, phil.gilmore@dpi.nsw.gov.au

There is currently a surge in the activity of professional/amateur organisations in the Newcastle/Hunter Valley area. This is fantastic for all of us in the geosciences. Besides HEDG (GSA), the AusIMM (Hunter Region Branch) and the Amateur Geological Society of the Hunter Valley have frequent events and speakers. Please have a look at their websites listed below.

Geological Society of Australia (GSA),
Hunter Valley Branch

GSA provides an opportunity to keep in touch with scientific developments, present the results of work, and contribute to discussions on vocational and scientific topics. For further information on the GSA and GSA — Hunter Branch, visit our website <http://www.gsa.org.au>

Chair John Greenfield

Dep. Chair John Watkins

Secretary Phil Gilmore

Treasurer Phil Seccombe

Committee Simone Meakin, Peter Downes, Glen Phillips, Valerie Smith, Chris Woodfull

Other links:

Geological Survey of NSW:
<http://www.dpi.nsw.gov.au/minerals/geological>

NSW Department of Primary Industries:
<http://www.dpi.nsw.gov.au/>

Sydney Mineral Exploration Discussion Group
(SMEDG: <http://www.smedg.org.au>)

Amateur Geological Society of the Hunter Valley: <http://agshv.com>

AusIMM – Hunter Region Branch:
<http://www.ausimm.com.au/content/default.aspx?ID=213>