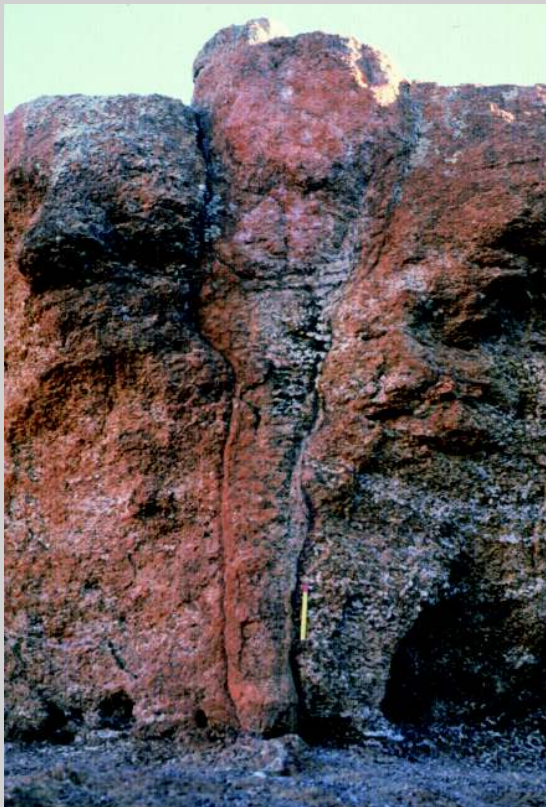


*These technical presentations will summarise recently published research by LEME, including PhD projects and industry-LEME collaborations that have had confidentiality lifted. All presentations are of direct relevance to mineral explorers.*

*LEME's role is to apply regolith science to the problems facing Australian mineral explorers. LEME researchers address the challenges of mineral exploration in areas of transported regolith, undertaking and developing a wide range of integrated projects that use multi-disciplinary approaches to look at three-dimensional architecture of the regolith. The projects focus on the time-dependent physical, chemical, biological and hydrological processes that control geochemical dispersion of minerals in the regolith.*

*For more information, please visit our website:*

<http://crclme.org.au>



*A ferruginous columnous structure in ferricrete*



**CRC LEME is  
an unincorporated  
joint venture between  
eight Core Parties:**

Australian National University,  
Curtin University of Technology,  
University of Adelaide,  
CSIRO Exploration & Mining  
and Land & Water,  
Geoscience Australia,  
Minerals Council of Australia,  
NSW Department of Primary Industries, and  
Primary Industry and Resources South Australia,

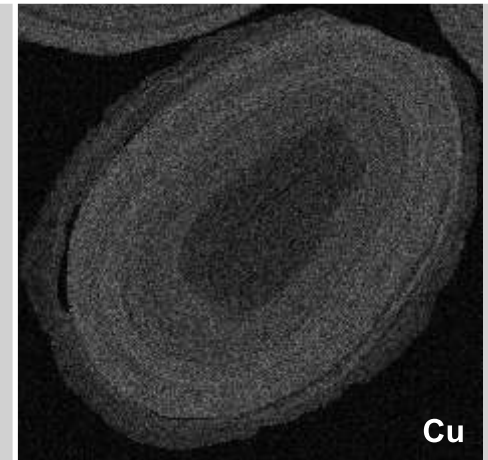
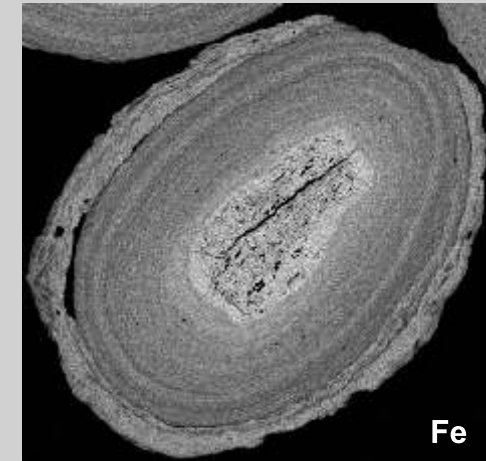
**established and supported under  
the Australian Government's Cooperative Research Centres Program**

# MINERALS EXPLORATION SEMINAR

Friday 11 August 2006

**Australian Resources Research Centre**

26 Dick Perry Avenue, Kensington (Technology Park, Perth) WA



*Metal distribution in palaeochannel pisoliths*

Convenor: ***Ravi Anand***, Program Leader:  
Mineral Exploration in Areas of Cover  
CRC LEME, CSIRO Exploration and Mining  
PO Box 1130, Bentley WA 6102  
Tel: 08 6436 8672  
[ravi.anand@csiro.au](mailto:ravi.anand@csiro.au)

**PROGRAM**

**Friday 11 August**

- 8.50 am *Introduction*.....Steve Rogers/Ravi Anand
- 9.00 am *New insights into Northern Territory regolith*.....  
.....Ian Robertson
- 9.25 am *Yilgarn regional laterite geochemistry*.....  
.....Matthias Cornelius
- 9.50 am *Achieving the vision of 3-D regolith-alteration  
mineral maps of Australia*.....Tom Cudahy
- 10.15 am *Minimum probability methods to assess  
exploration techniques*.....Ryan Noble

**10.40 am Morning Tea**

- 11.10 am *How 'ore grade laterite gold deposits' form*.....  
.....Ravi Anand
- 11.35 am *Groundwater geochemistry for exploration*.....  
.....David Gray
- 12.00 pm *A new insight into gold grains as an exploration  
tool* .....Rob Hough
- 12.25 pm *Advances in automated regolith logging*.....  
.....Tim Munday

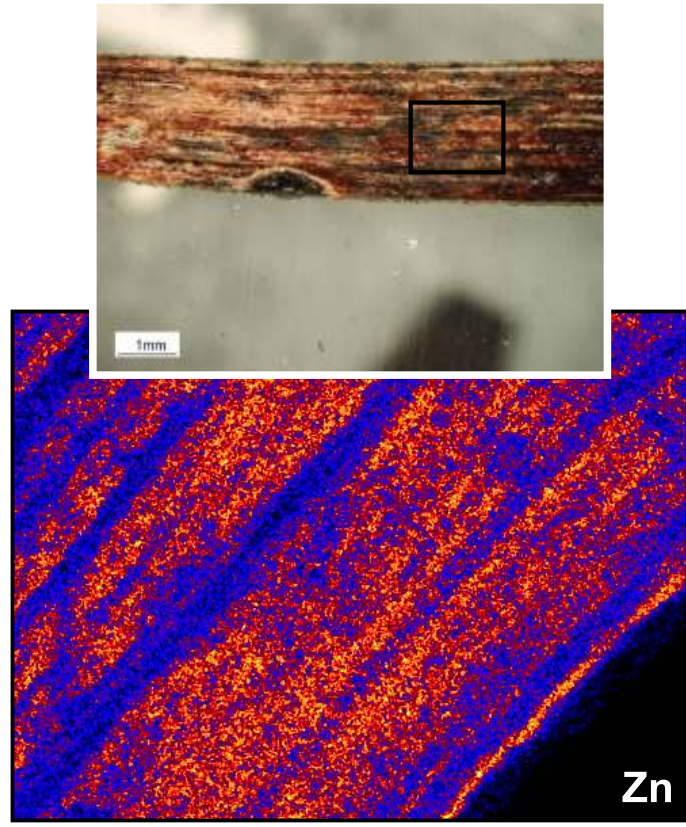
**12.50 pm Lunch**

- 1.30 pm *Spinifex anomalies over transported cover*.....  
.....Steve Hill
- 1.55 pm *Biogeochemical research for exploration*.....  
.....Ravi Anand
- 2.20 pm *Geomicrobiology, regolith and implications for  
exploration*.....Frank Reith
- 2.45 pm *Sequential extraction of metals adsorbed to  
charcoal* .....Yamin Ma

**3.10 pm Afternoon Tea**

- 3.30 pm *TEM signature of regolith*.....John Joseph
- 3.55 pm *Using airborne gravity gradiometry to find new  
gold deposits*.....Anton Kepic
- 4.20 pm *Seismic reflection for gold and nickel targets in WA*  
.....Anton Kepic

**4.45 - 6.00 pm Close - Social**



Micro PIXE quantitative map of Zn in a mulga leaf

**REGISTRATION FORM**

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*This document will be a tax invoice for GST when you make a payment, or when your credit card authorisation is processed.  
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**LEME MINERALS EXPLORATION SEMINAR  
11 August 2006**

Australian Resources Research Centre, Perth

**Delegate details**

Name.....  
 Position.....  
 Organisation.....  
 Address.....  
 .....Postcode.....  
 Phone.....Email.....

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FRIDAY 4 AUGUST 2006, thank you

Please fax completed form to: (08) 6436 8560  
 or post to: LEME MINEX Seminar August 06  
 CRC LEME Head Office  
 PO Box 1130, Bentley WA 6102.  
 Enquiries: Sue Game (08) 6436 8695  
 susan.game@csiro.au