

Deep Blue Minerals

The purpose of the workshop is to bring together industry, government and research scientists with interests in marine minerals. The workshop forms part of a due diligence study under the “Blue GDP” Theme of the Wealth From Oceans Flagship. Topics include:

- recent developments in the extension of Australia’s maritime boundary and continental shelf submission, and assessment of marine minerals by federal government agencies.
- up date on marine exploration and mining of minerals as diverse as carbonate sands, aggregate, massive sulfides and diamonds.
- state-of-the-art technologies such as robotics, concepts in remote mining, magnetic tensor gradiometry, sedimentological and discrete element modelling, video imaging and mapping.

Who should attend?

- Universities, Government Agencies and CSIRO Divisions who wish to potentially engage in the Wealth From Oceans Flagship Theme 3 “Blue GDP”
- Federal and State Agencies with responsibilities for marine minerals
- Industry professionals with interests in marine minerals

Hosted By

CSIRO Wealth from Oceans Flagship
CSIRO Exploration & Mining

Supported By

Geoscience Australia
National Oceans Office
Australian National University
Coastal CRC
Macquarie University
Sydney University
University of Western Australia
Adelaide Brighton Limited
Nautilus Minerals Limited
Neptune Resources Limited
Oceanica Consulting Pty Ltd
Placer Dome Oceania Limited
Quaternary Resources Pty Ltd
CSIRO Information & Communication Technology
CSIRO Industrial Physics
CSIRO Marine Research
CSIRO Mathematical & Information Sciences
CSIRO Petroleum Research
Sydney Mineral Exploration Discussion Group (SMEDG)

Convenors:

Tim McConachy
Chris Yeats
Tim McLennan
CSIRO Exploration and Mining

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CSIRO Wealth from Oceans Flagship
and
CSIRO Exploration and Mining

Present a Workshop on

Deep Blue Minerals

9.00 am– 4.45 pm
Wednesday 27th April 2005

Riverside Auditorium
CSIRO
11 Julius Avenue
North Ryde
NSW 2113

Program

Welcome and Introduction to Wealth from Oceans
Craig Roy (Director, Wealth from Oceans National Flagship)

National Context Setting

United Nations Law of the Sea: The New Australia
Jim Colwell & Phil Symonds (Geoscience Australia)

Australia's offshore minerals: an overview
Bill McKay, Yanis Miezitis, (Geoscience Australia) Neville Exon (Australian National University) & Ron Sait (Geoscience Australia)

National Oceans Office Initiatives: An Update
Barbara Musso (National Oceans Office)

Commercial Opportunities: Marine Exploration & Mining

Submarine massive sulfides: an update
Mike Johnston (Placer Dome)

International Seabed Authority draft polymetallic sulfide prospecting regulations: A model for domestic regulation or a model for confusion and uncertainty?
David Leary (Macquarie University)

Marine aggregate
John Hudson (Quaternary Resources Pty Ltd)

Marine carbonate mining
Bruce Hegge, Jenn Sabean (Oceanica Consulting Pty Ltd) & Gareth Ward (Cockburn Cement Limited)

Latest Technology & R&D Trends

Submarine fossil island arcs and spreading ridges east of Australia
Maria Sdrolias (Sydney University)

Magnetic tensor gradiometry: applications in seafloor mineral exploration and mapping
Cathy Foley, Phil Schmidt, Dave Clark & Jeanne Young (CSIRO Industrial Physics)

Advances in seafloor robotics
Simon Allen (CSIRO Marine Research) & Matthew Dunbabin (CSIRO Information and Communication Technology)

Concepts in remote mining and applications in the marine environment
Jock Cunningham (CSIRO Exploration & Mining)

Sediment modelling applications to seabed minerals
Cedric Griffith (CSIRO Petroleum Research)

Video imaging, mapping & interpretation of the seafloor
Euan Harvey (Univ. of Western Australia, Coastal CRC), Xiaoliang Wu & Norm Campbell (CSIRO Mathematical and Information Sciences)

Discrete element modelling applications: Where to on the seafloor?
Paul Cleary (CSIRO Mathematical and Information Sciences)

Plus: Plenary session on scope and value propositions for R&D. Volume of Extended Abstracts and copies of power point presentations; including separate updates on seafloor massive sulfides: by
(1) David Heydon (CEO, Nautilus Minerals Limited) &
(2) Simon McDonald (CEO, Neptune Resources)

Registration fee

(includes Volume of Extended Abstracts, CD of presentations, lunch, morning and afternoon tea, drinks afterwards)

\$50



Registration Form and Tax Invoice

CSIRO Exploration and Mining
ABN: 41 687 119 230

This form becomes a tax invoice upon receipt by CSIRO Exploration and Mining of the registration fee.

Deep Blue Minerals

Name:

Organisation:

Address:

Phone:

Email:

Other:

Registration Fee \$50.00

Credit Card Options -[Mastercard or Visa]
.....Exp Date

Cardholder Name:

Cardholder Signature

Cheque/money order: \$.....
[made payable to CSIRO]

Please return completed form and payment by 14 April 2005 to:

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