

## W16: Magnetotellurics for Resource Exploration and Monitoring

<b>Coordinator(s)</b>	Graham Heinson, Alan Jones, Mike Dentith
<b>Date(s)</b>	Mon, Sep 02
<b>Time</b>	08:45 - 16:45
<b>Location</b>	Crown Perth
<b>Summary</b>	Magnetotellurics is finding new applications in exploration, particularly in mapping mineral systems from lithospheric source to deposit-scale. In the energy sector, the technique does not directly detect hydrocarbons, but plays a role in defining basin structure and for production monitoring. This workshop provides a state-of-the art review in terms of the technical and geological challenges.

### Schedule\*

#### Session 1

##### **What can MT do for you?**

General introduction (brief physics, practical aspects of surveying, state of the art data processing, where we are at with 3D inversion)

#### Session 2

##### **Exploring on the lithospheric-scale**

Why look big, what is being done globally and in Australia with AusLAMP, and implications for mineral exploration

#### Session 3

##### **Crustal-scale exploration**

Thermal and fluid implications from crustal maps for both mineral systems and sedimentary basins

#### Session 4

##### **Economic-scale mineral and energy resources**

Scale reduction and monitoring

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#### Terms and conditions

\* Schedule subject to change

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