

Modern 3D-IP surveying. Practical techniques and short cuts. - Benefits, limitations and pitfalls.

8:30 Introduction, welcome and housekeeping

8:35 GGSSA - What is it? What is it for?

- Theo Aravanis

Basic principles

8:40 Electrical conduction in 3D - common misunderstandings - transmitter setup considerations

- Steve Collins

9:00 Receiver design and receiver electrode noise considerations

- Terry Richie

9:20 Data collection and initial processing

- John Paine

9:40 EM coupling - is it a problem?

- Peter Fullagar

10:00 to 10:30 Morning tea

Survey procedures and styles - 10 to 12 minute talks advocating survey styles

10:30 Introduction which factors are important in determining survey geometry

- Steve Collins

10:43 Dipole Dipole

- Simon Mann

10:56 Offset Dipole Dipole

- Kim Frankcombe

11:09 Combined inline/offset bipole-dipole

- Alex Copeland

11:22 Full 3D surveying

- Roger Sharpe

11:35 Large scale gradient array.

- Barry De Wet

11:48 Reconnaissance Vector IP

- Mike Haederle

12:01 Discussion

12:30 - 13:30 Lunch

Borehole surveys, do they work and what is achievable?

13:30 Introduction

- Steve Collins

13:40 Inversion of borehole data

- Loke Meng Heng

14:00 Case history - North Parkes

- Mike Haederle

14:20 Case history

- Kim Frankcombe

14:40 Borehole property measurement case histories

- Andrew Slood.

15:00 - 15:30 Afternoon tea

Processing, inversion and noise reduction.

15:30 Tweaking 3D inversion settings

- Loke Meng Heng

15:50 Depth of penetration of IP systems

- Kim Frankcombe

16:10 Opportunities for reducing transmitter power through advanced signal processing.

- Various

16:30 Using resistivity non-linearity (with respect to current density) for exploration.

- Bob White

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ADVANCING SAFETY IN GROUND GEOPHYSICS