KEGS Foundation Announcement

Geophysical Short Course

Integrated Interpretation of AEM Surveys

Presented by

Dr. James Macnae, RMIT, Australia

Inaugural Collett Distinguished Visiting Lecturer

University of Toronto

McLennan Physics Building, Room 110

Thursday, March 7, 2019, 8:30am to 12 pm

Advance registration strongly advised:

Professionals: Early bird $90; regular $100; at door $120

Veterans & retirees: $20 discount

Students: $20 (refundable)

Details & Registration: www.kegsfoundation.org

Lunch: Pizza & refreshments - sponsored by Abitibi Geophysics

Arranged by the KEGS Foundation

with the support of KEGS & UofT

Advancing geophysical education since 1999

www.kegsfoundation.org ***** **www.kegsonline.org**

GEOPHYSICAL SHORT COURSE

Integrated Interpretation of AEM Surveys:

Determination and Use of Appropriate Geophysical Models

Presented by

Dr. James Macnae, RMIT, Melbourne, Australia

Inaugural Collett Distinguished Visiting Lecturer in Geophysics

Thursday, March 7, 8:30 am – 12 pm

University of Toronto, McLennan Physics Building, 60 St. George Street, Room 110

Organized by the KEGS Foundation with the support of KEGS & U of T

Registration: Advance registration strongly advised – Venue capacity limited

Please register online using PayPal; See tab at top www.kegsfoundation.org

Professionals: **Early Bird: $90 (< Feb. 10)**
Regular Advance: $100 (< Mar. 2)
Late: $120 (Cash/cheque only at the door, subject to availability)
Veterans (> 70) and Retirees: $20 discount
$50 charitable tax receipt for all of the above

Students: Please register in advance ($20); refundable at end of course

Miscellaneous: Coffee and light snacks provided at mid-morning coffee break

Lunch (pizza and refreshments) generously sponsored by Abitibi Geophysics

Convenient access via TTC * Parking: university garage off Huron Street

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Course Outline

Integrated interpretation of airborne electromagnetic surveys: Determination and use of appropriate geophysical models

Presenter: Prof. James Macnae (RMIT University, Melbourne, Australia),
Inaugural Len and Genice Collett Distinguished Visiting Lecturer in Geophysics.

Content: This half-day course will cover:

1) The basics of geophysical electromagnetics (EM), time and frequency-domain
2) Airborne EM systems, trade-offs and recent advances
3) The physical limits of conductivity resolution with AEM
4) Detectable geology: Earth conductivity variations
5) Consideration of computed geophysical models, direct and inverse
    a. Stitched 1D for quasi-layered environments
    b. 2D and 2½D
    c. 3D, parametric and voxelated
6) Case histories: Using computed AEM models to guide geological interpretation: Successes, limitations and failures
7) Where might AEM be in 10 years?

For Dr. Macnae's biography and publications, please consult:

www.rmit.edu.au/contact/staff-contacts/academic-staff/m/macnae-professor-james

wiki.seg.org/wiki/James_Macnae

www.researchgate.net/profile/James_Macnae