

Michael Dentith and Stephen Mudge
THE LINDSAY INGALL MEMORIAL AWARD
Perth February 2015

CITATION (PREVIEW):

The Lindsay Ingall Memorial Award is intended for an Australian resident or former resident for the promotion of geophysics within the non-geophysical community, including geologists, geochemists, engineers, managers, politicians, the media or the general public. The award honours the memory of an ASEG founder, past President and Honorary Member, the late Lindsay Ingall for his capacity to cross geoscience boundaries, his ability to relate technically and effectively with other professionals, regardless of their own understanding of the principles of geophysics, and for his enduring commitment to assist geoscientists across Australia. It is awarded generally to an individual who has actively promoted geophysics to the wider community.

For this year, the award for the first time is made jointly to two prominent members of the ASEG, Michael Dentith and Stephen Mudge, for their combined effort in promoting geophysics to the wider community through their authorship of the new textbook *Geophysics for the Mineral Exploration Geoscientist* published by Cambridge University Press in 2014.

Mike Dentith is Professor of Geophysics at The University of Western Australia. He has been an active researcher and teacher of university level applied geophysics for more than 25 years, and he also consults to the minerals and petroleum industries. Mike's research interests include geophysical signatures of mineral deposits, petrophysics and terrain scale analysis of geophysical data for exploration targeting. Mike has also been a great contributor to the ASEG over many years, having been part of the technical papers committee for ASEG conferences in 1994, 2000, and again this year, and editor of the conference edition of *Exploration Geophysics* in 2000 and the ASEG Special Publications: *Geophysical Signatures of WA Mineral Deposits*, and *Geophysical Signatures of SA Mineral Deposits*. He has also been a board member of the ASEG Research Foundation since its inauguration to the present.

Steve Mudge has worked as an exploration geophysicist in Australia for more than 35 years, and currently works as a consultant in his own company Vector Research. He has worked in many parts of the world and has participated in a number of new mineral discoveries. Steve has a keen interest in data processing techniques for mineral discovery and has produced several publications reporting new developments. Through his series of "Excitations" articles on geophysical techniques that were published in ASEG's Preview magazine over several years, Steve was able to present an understanding of the techniques in a way that both geophysicists and geologists could readily comprehend. Steve has also been a board member of the ASEG Research Foundation since its inauguration to the present.

Whilst the new textbook explains how geophysics may be used in the search for mineral deposits, the importance of this contribution lies in the careful linking of

geology and geophysics. Mike and Steve advise that this book was specifically written for geologists who would like to know more about using geophysics and also for geophysicists who would like to know more about the interpretation of geophysical data. It presents modern practice in geophysics in a way that will undoubtedly assist exploration geologists to better communicate their aims and goals to geophysicists. At the same time, the book helps geophysicists to better understand the geological and commercial implications of their results. But above all, it is a book directed at the wider geological community to facilitate mutual understanding of both the benefits and pitfalls of geophysical surveying.

For Mike and Steve this book has been a labour of love. Their dedication to the project, extending over more than a decade, demonstrates a strong commitment and passion by both authors to educate the wider geoscientific community about the great benefits of applying geophysics in mineral exploration.

Like the career of Lindsay Ingall, this book succeeds comfortably in crossing traditional geoscience boundaries. The writers have shown that they also share Lindsay Ingall's capacity to relate technically and effectively with other professionals. Mike Dentith and Steve Mudge are worthy recipients of the ASEG Lindsay Ingall Memorial award.