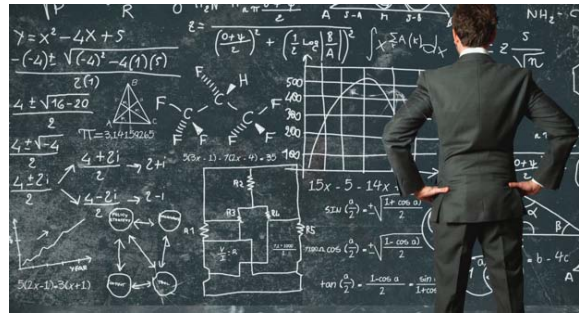


The Powerful Learning of Mathematics: Implications for Research, Practice and Policy



Dr. Calvin Wilkinson
Flinders University

The
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Australian
Institute for
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Free seminar

This seminar will address two main questions:

- (1) What is the 'math problem' when it comes to the teaching and learning of mathematics?
- (2) How can the 'math problem' be addressed meaningfully?

The 'math problem' is complex. In fact it is more complex than anyone envisioned. Drawing on ideas from Psychology, Sociology, Neuroscience, Philosophy, Education, and Mathematics, Dr. Wilkinson develops a simple understanding of the 'math problem', particularly in relation to the current Age in which we live, namely, the Conceptual Age which is an outgrowth of the Information Age.

If the teaching and learning of mathematics is limited to the activity of mathematical thinking, the educational outcome for students is the proverbial cul-de-sac. Consequently, a shift in paradigm is advanced which is both foundational and overarching. Powerful mathematical learners become increasingly mathematical through an ethical and creative dialogue that involves a composite of symbol processing and situated action that is relevant to our globalising world.

The seminar is summarized by identifying powerful mathematical learning as a system that can be examined logically and empirically, through the use of measurement principles and the employment of multi-level modelling strategies and causal structures.

When: **Tuesday, 17 November 2015, 7:00 - 8:30pm**

Where: ACER Adelaide Office
186B Pulteney Street, Adelaide SA 5000
(Nearest Parking: Flinders Street; Roper Street Car Parks)

Register: Juliet.Young-Thornton@acer.edu.au
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