

# TC 3<sup>rd</sup> Biennial Symposium

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Rachel Thompson  
rachel.t@unsw.edu.au

## Highlights

- Prof Erik Meyer and Dr Mick Flanagan  
=> Epistemes. Variation Theory and teaching SCALE as a TC. Magnitude, Size, Distance and Time. Uncertainty.  
<http://www.dur.ac.uk/j.h.f.meyer/>  
<http://www.dur.ac.uk/education/staff/?id=1960>  
<http://www.ee.ucl.ac.uk/~mflanaga/>
- Profs Ray Land and Erik Meyer => TC and Issues of Interdisciplinarity

## Keynotes

<http://www.tv.unsw.edu.au/video/professor-david-perkins>

- Prof David Perkins
  - ⇒ TC Experiences: Moving Concepts from Object to Instrument to Action
  - ⇒ Looking at TC with a view to understanding the key elements that help us understand.
  - ⇒ Dual processing – slow vs fast cognition
    - ⇒ Object (Thinking about) SLOW
    - ⇒ Tool (Thinking with)
    - ⇒ Frames (Thinking from a sense of) FAST
  - ⇒ Where learning gets stuck – analyse this to understand how best to help students =

## A few interesting papers

- Scale in Biology (UNSW/Usyd). Lutze-Mann. Using 3D animations to illustrate cellular processes.  
<http://www.wehi.edu.au/education/wehi-tv/>
- Animation in Physics (UNSW)  
<http://www.animations.physics.unsw.edu.au/>