

**PROGRESS  
OF  
KNOWLEDGE  
BY  
SIMULATION**

**WORKSHOP**

Axel Gelfert | Gabriele Gramelsberger

## TUESDAY | September, 27th, 15-18 | Workshop

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**Axel Gelfert** is associate professor of Philosophy of Science at the National University Singapore, where he is currently the convenor of the Science, Technology and Society (STS) Minor programme. In addition, he is an associate fellow at Tembusu College and an associate at NUS's Asia Research Institute (ARI). He holds a PhD in History and Philosophy of Science at the University of Cambridge and a Dipl.Phys. in Theoretical Physics from Humboldt University Berlin. His teaching areas are Philosophy of Science, Epistemology and History of Western Philosophy.

### Selected Publications

Gelfert, Mok: „Saving Models from Phenomena: A Cautionary Tale from Membrane and Cell Biology“. In: Stadler (Ed.) *Integrated History and Philosophy of Science. Proceedings of the 5th Conference*, Dordrecht: Springer, forthcoming

Gelfert: „The Ontology of Models“. In: Magnani, Bertolotti (Eds.) *Springer Handbook of Model-Based Science*, Heidelberg / New York: Springer, forthcoming

Gelfert: *How to Do Science with Models: A Philosophical Primer*. Dordrecht: Springer, 2016

Gelfert: *A Critical Introduction to Testimony*. London: Bloomsbury, 2014

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**Gabriele Gramelsberger** holds a PhD in philosophy and is senior researcher for Philosophy of Computational Sciences at MECS and the Technical University of Darmstadt. From 2009 to 2012 she was principal investigator of the cooperative research project Embodied Information - ‚Lifelike‘ Algorithms & Cellular ‚Machines‘ funded by the German Federal Ministry of Research. In 2008 she was guest researcher at Max Planck Institute for Meteorology Hamburg. From 2002 until 2007 she was a member of the research initiative Science Policy Studies of the Berlin-Brandenburg Academy of Science and Humanities. Her research interests are the influence of computation on science and society and the applicability of mathematics.

### Selected Publications

Gramelsberger, Bexter, Kogge (Eds.): *Synthesis. Zur Konjunktur eines philosophischen Begriffs in Wissenschaft und Technik*, Bielefeld: transcript, 2014

Gramelsberger: *From Science to Computational Sciences. Studies in the History of Computing and its Influence on Today's Science*. Berlin / Zürich: Diaphanes, 2011

Gramelsberger, Feichter (Eds.): *Climate Change and Policy. The Calculability of Climate Change and the Challenge of Uncertainty*. Berlin: Springer, 2011

Gramelsberger: *Computereperimente. Wandel der Wissenschaft im Zeitalter des Computers*. Bielefeld: transcript, 2010

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