

“A CRUDE LOOK AT THE WHOLE”
4-6 March 2013

Nanyang Executive Centre (NEC)
60 Nanyang View, Singapore 639673

Conference Program

Sunday, 3 March

Venue: NTU Staff Club (50 Nanyang View, Singapore 639667)
Dress code: Smart Casual

6.30pm Welcome Reception

Monday, 4 March

8.15am Registration

9.00am Welcome
Jan W. Vasbinder, Director, Complexity Program, NTU

9.10am Opening Address
Bertil Andersson, President, NTU

Chair: W. Brian Arthur, Santa Fe Institute

9.25am Murray Gell-Mann
Trustee, Science Board and Distinguished Fellow, Santa Fe Institute

A Crude Look at the Whole: A Reflection on Complexity

10.55am Coffee Break

Chair: Ann Florini, SMU

11.15am Robert Axelrod
Walgreen Professor for the Study of Human Understanding, University of Michigan

A Theory of Meaning

12.45pm Lunch

Chair: Jan W. Vasbinder, NTU

1.45pm Helga Nowotny
President, European Research Council and Professor Emerita of Social Studies of Science, ETH Zurich

Curiosity, Innovation and Complexity

3.15pm Coffee Break

Monday, 4 March

Chair: Kevin Xiao, NTU

3.45pm Kristian Lindgren
Professor in Complex Systems, Department of Energy and Environment,
Chalmers University of Technology

Land-use, Economy and Complexity

5.15pm Adjourn

7.00pm Dinner co-hosted by Prof Bertil Andersson and Prof KK Phua, Director,
Institute of Advanced Studies, NTU

Venue: Raffles Marina Country Club (RMCC)
10 Tuas West Drive, Singapore 638404

Dinner is sponsored by the Institute of Advanced Studies.

*Two-way transport to Raffles Marina Country Club can be arranged.
Please let us know at the point of registration.*

*Buses will leave NEC (Guest Wing) for RMCC at 6:15pm.
Pick up from RMCC to NEC is at 9pm.*

*If you prefer to drive, parking is complimentary but do note that car park lots
are subject to availability and on a first-come-first-served basis.*

Tuesday, 5 March

Chair: Helena Gao, NTU

9.00am John Holland
 Professor of Computer Science & Engineering and Psychology, University of Michigan

Signals and Boundaries

10.30am Coffee Break

Chair: Su Haibin, NTU

11.00am Douglas H. Erwin
 Senior Scientist, Department of Paleobiology, National Museum of Natural History, Smithsonian Institution

Diversity and Repetition

12.30pm Lunch

Chair: Cheong Siew Ann, NTU

1:30pm Ying-Yi Hong
 Professor, Nanyang Business School, NTU

A Dynamic Constructivist Approach to Culture

3.00pm Coffee Break

Chair: Michael H. Lees, NTU

3.30pm Peter M. A. Slood
 Professor of Computational Science and Distinguished Research Professor, University of Amsterdam

A Complex World From a Virus' Point of View

5.00pm Adjourn

6.00pm Cocktail Reception
 Venue: NTU Staff Club

7:30pm Concert
 Venue: NTU Staff Club

Wednesday, 6 March

Chair: Chew Lock Yue, NTU

9.00am Simon Levin
Moffett Professor of Biology, Department of Ecology and Evolution, Princeton University

Collective Phenomena, Collective Motion, and Collective Action in Ecological Systems

10.30am Coffee Break

Chair: William Clune, NTU

11.00am Johan Rockström
Professor of Water Systems and Global Sustainability and Executive Director of Stockholm Resilience Centre, Stockholm University

Resilience for Human Development in the Anthropocene

12.30pm Lunch

Chair: Kerry Sieh, Earth Observatory of Singapore (EOS)

1:30pm Wang Xian Feng
Nanyang Assistant Professor, NTU and NRF Research Fellow, EOS

Isotope chemistry, climate change and the fate of the Chinese dynasties: Implications for the future of Asian societies

3.00pm Coffee Break

Chair: Jan W. Vasbinder, NTU

3.30pm Peter Ho
Senior Advisor of Centre for Strategic Futures
Chairman of Urban Redevelopment Authority, Singapore

A Crude Look at Governance and Complexity by a Former Civil Servant

5.00pm Closing Remarks by Jan W. Vasbinder

5:10pm End of Conference