

SKIN
Simulating Knowledge Dynamics
in Innovation Networks



SKIN 3 WORKSHOP

JOINING COMPLEXITY SCIENCE AND SOCIAL SIMULATION FOR POLICY

22/23 May 2014 | Eötvös Loránd University, Budapest

Thursday, 22 May 2014

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- 8.15** Registration
(Venue: ELTE Teachers' Club, Szerb Str. 23)
- 9.00** **WELCOME AND INTRODUCTION**
- **Petra Ahrweiler** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany
 - **Nigel Gilbert** | Centre for Research on Social Simulation CRESS, Surrey University, UK
 - **Andreas Pyka** | Chair for Economics of Innovation, Hohenheim University, Germany
 - **George Kampis** | Department of History and Philosophy of Science, Eötvös Loránd University, Budapest, Hungary
- 9.30** **KEYNOTE 1**
- **Erik Johnston** | Center for Policy Informatics, Arizona State University, USA):
Opening governance so complexity can flourish
- 10.15** Break
- 10.30** **SESSION I** (Chair: Petra Ahrweiler)
(Presentation: 20 min. + Discussion: 10 min.)
- **Özge Dilaver** | Surrey University, UK:
Things we can't know and those we can't tell: an agent-based approach to modelling uncertainty and tacit knowledge
 - **Muhamed Kudic/Matthias Müller/Andreas Pyka** | Stifterverband/Wissenschaftsmanagement of the city of Lübeck/Hohenheim University, Germany:
Towards a regionalized 'science-score card' approach – identification of knowledge-based regions and simulation of innovation policies
 - **Stephan Lingner** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany:
Visualisation of complex social dynamics. An introduction to the academy's approach of policy advice

- 12.00** Lunch Break
- POSTER PRESENTATIONS**
- **Bert Droste-Franke** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany:
Analysis of knowledge and innovation dynamics to develop support strategies for future viable energy systems
 - **Cara Kahl** | TU Hamburg-Harburg University, Germany:
Designing organizational routines from the bottom-up
 - **Elena Pugacheva** | Kiev National Pedagogical Dragomanov University, Ukraine:
Ukrainian scientists are looking for new innovation policy
 - **Glen E. Ropella** | Tempusdictum, Portland, USA:
Deep biomimesis
 - **Liu Shulin** | Sun Yat-sen University of China, Guangzhou, China:
Employment impact of innovations
- 13.15** **SESSION II** (Chair: Andreas Pyka)
- **Michael Beier** | University of Applied Sciences HTW, Chur, Switzerland:
What you see is not always what you get! How environmental dynamics, transparency, and types of knowledge-goods influence the development and value generation of innovation networks
 - **Cristina Ponsiglione** | University of Naples Federico II, Italy:
Bridging the SKIN model to the debate on territorial innovation systems: the proposal of an agent-based model of self-sustaining regional innovation systems

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14.15 THE NESS PRESENTATION

- **Jeffrey Johnston** | The Open University, Milton Keynes, USA, and **Paul Ormerod** | Volterra, London, UK

15.00 Break

15.30 SESSION III (Chair: Nigel Gilbert)

- **Fabian Adelt** | TU Dortmund University, Germany: *Simulation of the governance of complex systems (SimCo)*
- **Arno Dirlam** | Zurich University, Switzerland: *KNETWORK model*

16.30 End of presentations

17.00 SKIN Book Launch

(Venue: Petöfi Museum of Literature, Lotz room)

- Presentation of the new SKIN publication: **SIMULATING THE KNOWLEDGE DYNAMICS OF INNOVATION NETWORKS** (Petra Ahrweiler, Nigel Gilbert and Andreas Pyka)
- Guest Speaker: **Béla Kardon** | Head of Science Policy, Ministry of Human Resources, Hungary
- Performance: Music group **Tilalmas**

18.30 End of Book Launch

19.30 Conference Dinner

ABOUT


- This 2-days workshop organised by the **EA European Academy of Technology and Innovation Assessment** (P. Ahrweiler) as its annual conference with two co-organisers (N. Gilbert, A. Pyka) and one local host (G. Kampis) is bringing together two scientific communities to join forces in research on innovation policy modelling. Innovation intersects the concerns of complexity models and social simulation.
- The intention of the workshop is to explore how complexity models and simulation can be used to improve and inform the innovation policy-making process.

CONTACT

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- Organisational queries: skin3@ea-aw.de

FURTHER INFORMATION

- WWW: <http://cress.soc.surrey.ac.uk/skin/events/third-skin-workshop> or <http://www.ea-aw.de>

-  You are invited to twitter: **#skin3_2014**

Friday, 23 May 2014

8.30 Registration open

9.00 KEYNOTE 2

- **Bruce Edmonds** | Centre for Policy Modelling, Manchester Metropolitan University Business School, UK:
Towards integrating everything (well at least: ABM, data-mining, qualitative and quantitative data, networks and complexity science)

9.45 SESSION IV (Chair: Nigel Gilbert)

- **Michel Schilperoord** | University College Dublin, Ireland:
Start-ups when and where? Using the SKIN platform for modelling the birth of new companies
- **Benjamin Schrempf** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany:
Modelling general purpose technologies with SKIN
- **Abhijit Sengupta** | Essex University, UK:
Intellectual property framework and dynamics of technology change under sequential innovation

11.15 Break

11.30 SESSION V (Chair: Petra Ahrweiler)

- **Adiya Abisheva** | Swiss Federal Institute of Technology ETH, Zurich, Switzerland:
Swiss Politics Research
- **Manfred Paier** | AIT Austrian Institute of Technology, Vienna, Austria:
ABM supporting ex-ante impact assessment of national RTI policy: knowledge production in different sectorial contexts
- **Ben Vermeulen** | Hohenheim University, Germany:
The importance of supraregional collaboration for technological progress and the mediating role of the structure of technology

13.00 Lunch Break / Poster presentations (see Day 1)

14.00 SESSION VI (Chair: Andreas Pyka)

- **Martina Dünser** | AIT Austrian Institute of Technology, Vienna, Austria:
Regional specialization and knowledge output: an agent-based simulation of the Vienna life sciences
- **Margret Engelhard** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany:
Can synthetic biology act as a good model for innovation policy?
- **Felix Thiele** | EA European Academy, Bad Neuenahr-Ahrweiler, Germany:
Innovation in cancer research

15.30 Break

15.45 Final discussion and outlook

16.30 End of conference

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