Program

Wednesday Oct 7th 2009 (Venue: Haus der Geschichte)			
6.00 pm	Reception and address of welcome Petra Gehring and Mikael Hård (TU Darmstadt)		
7.00 pm	1st keynote address: Paul N. Edwards (University of Michigan): Versions of the Atmosphere: Climate Models, Data Models, Global Space and Time		
Thursday Oct 8th 2009 (Venue: Fraunhofer IGD)			
8.00 am	Registration		
8.30 am	Introduction: Josef Wiemeyer (TU Darmstadt)		
9.00 am	2nd keynote address: Oskar von Stryk (TU Darmstadt): Models and Simulation in Engineering: Dynamics of Motion and Robot Intelligence		
10.30 am	coffee break		
11.00 am	Stream I - E1	Stream II - P1	Stream III- A1
13.00 pm	lunch break		
14.00 pm	3rd keynote address: Amy Hillier (University of Pennsylvania): Mapping Social Patterns: The Making and Unmaking of Inequality		
15.30 am	coffee break		
16.00 pm	Stream I - E2	Stream II - P2	Stream III - A2
20.00 pm	dinner at Jagdhofkeller		
Friday Oct 9th 2009 (Venue: Fraunhofer IGD)			
9.30 am	Stream I - E3	Stream II - P3	Stream III - A3
11.30 am	lunch break		
12.30 pm	4th keynote address: Roland W. Scholz (ETH Zürich): Transdisciplinarity, System Sciences, and Prospective Modeling in Regional Transformation		
14.00 pm	panel discussion		
15.30 pm	end		

More Information

visit:

www.modelingspaces.com

Modeling Spaces – Modifying Societies

This conference aims to increase our understanding of the power and limitations of models, their construction and effects in the sciences and in fields of practice. It provides a forum for the discussion of qualitative and quantitative models composed of verbal propositions, numerical abstractions, and visualizations.

While it is beyond doubt that models create instrumental knowledge, the distinctive spatial dimension of models is open to discussion. Of particular interest are issues that cut across established scientific disciplines and analyze the boundaries between science, technology, society, and politics. The conference explicitly aims at bringing scientists and practitioners from outside the academy together.

Registration

Registration open now!
Please register before September 1,2009 at the conference website www.modelingspaces.com
conference fee: 130€ (150€ after Sep. 1st)

Venue

Fraunhofer-Institut für Graphische Datenverarbeitung

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International Conference 07 - 09.10.2009 organized by the graduate school "Topology of Technology"

TECHNISCHE UNIVERSITÄT DARMSTADT

topology of technology

Stream I - Epistemology and Reflection

E1 Simulation and Prototypes

- CarboMoG. An Instrument to Manage Carbon Flows
  Witold-Roger Poganietz, Forschungszentrum Karlsruhe
- A Model of Sustainability? (Biosphere 2)
  Sabine Höhler
  Swiss Federal Institute of Technology Zurich
- Computer Models Revisited
  Juan Manuel Durán, Universität Stuttgart

E2 Communicating Spatial Information

- Technology as Landscape – Digital Map as Wildfire Event
  Katrina Boulding, University of California San Diego
- Urban Planning and Urban Communication – A Model of Displacement
  Susan Drucker, Gary Gumpert Urban Communication Foundation
- Networking Place Models, Placing Social Change
  Maria Prieto, University of Camilo José Cela, Madrid

E3 Dealing with Uncertainties

- Model-based Climate Projections in Administrative Discourse
  Jannes Fröhlich, HafenCity Universität Hamburg
- The Dream Destroying Reality - Hydraulic Models in Archaeology
  Maurits Ertsen, Delft University of Technology
- A (Self-) Critical Thought on the Use of Modelling in Transdisciplinary Research. The Case of Environmental Risk Management
  Florian Keil, Stefan Liehr, Institute for Social-Ecological Research ISOE, Frankfurt

Stream II - Production and Planning

P1 Mode(l)s of Planning

- Rhizome Cities. Beyond Arborecent Structures in Urban Planning.
  Alfonso Valenzuela-Aguilera, University of California at Berkeley
- Models as Mediators of Design. The Case of BREEAM
  Liam Sharratt , University of Manchester
- Description and Construction. Early Theories on Zoning
  Christa Kamleithner, Berlin University of the Arts

P2 Retrieving Spatial Information

- Potential to Space Modeling Through Pedestrian Agent Simulation
  Toshiyuki Kaneda, Nagoya Institute of Technology
- Environmental Determinants of Non-motorized Behavior
  John Zacharias, Concordia University, Montréal
- Retrieving Hierarchical Information from Spatial Networks
  Rodrigo Mora: Technical University Federico Santa Maria, Valparaiso

P3 Participation and Spatial Planning

- Neighborhood Construction
  Margarita Greene, Pontificia Universidad Catolica de Chile, Santiago
- Simulating Future Land Use Change in Urban Regions
  Dagmar Haase, Helmholtz Centre for Environmental Research (UFZ), Leipzig
- Generating and Measuring Public Realm
  Christian Derix, Aedas architects R&D, London

Stream III - Application and Resistance

A1 Failed Futures

- Appetite for Destruction. Models and the Sciences of Construction in Early Francoist Spain
  Lino Camprubi University of California Los Angeles):
- The Cybernetic Vision of a Swiss Integral Concept for Transport (1972-77)
  Sandmeier, Stefan, Universität Basel
- Modeling Future Passengers of Public Transport in Santiago, Chile
  Sebastian Ureta, TU Berlin

A2 Spatial Power of Models

- Cities on the Verge of Spatial War
  Florentina Hausknotz, Universität Mannheim
- The Dynamics of Rural-to-urban Migration in an Evolutionary Model
  Cesar Garcia-Diaz, University of Antwerp
- Seeking Urban Order – Modernism and Segregation
  Sebastian Haumann, TU Darmstadt

A3 Sustainability and Stakeholders

- Computer-based Methods for a Socially Sustainable Urban and Regional Planning
  Reinhard König, Bauhaus-University Weimar
- Supporting Case Studies/Comparison with a Generic Model of Urban-rural Water Related Interdependencies
  Geraldine Abrami, Cemagref UMR G-EAU, Montpellier
- Water Supply Systems in the Context of Cybernetics and Sustainable Development
  Martin Zimmermann, TU Darmstadt