

Thursday, May 18 / 2023

9:00-9:30 – Room: Orangerie, Wassersaal

Opening Session: Aura Heydenreich, Klaus Mecke

9:30 – 10:30 Key-Note: Roman Frigg (Philosophy of Science, London School of Economics and Political Science): *Red Squares and Bouncing Balls - From Art to Science and Back Again*

10:30 – 10:45 Coffee break (Orangerie, Foyer)

10:45-12:15 Chair: Aura Heydenreich Room: Orangerie

Michael Friedman (History and Philosophy of Science, University of Tel Aviv)
Karin Krauthausen (Literature and Cultural Studies, Humboldt University, Berlin): *Model and Mathematics at the End of the 19th Century: between Materiality and Representation* → **Stream A**

Michael Herrmann (Philosophy of Computational Sciences, Universität Stuttgart): *Making Sense of Methodological Disagreement within Machine Learning* → **Stream B**

Liliane Campos (English Studies, Université Sorbonne Nouvelle) : *Microcosms as Models and Metaphors in Contemporary Eco-Fiction* → **Stream C**

12:15 – 12:45 Art & Science Exhibition / Presentation

Chair: Klaus Mecke Room: Orangerie

Thomas Asmuth (Digital & New Media Art, University of West Florida) and Sara Gevurtz (Animation, Auburn University): *Turbidity Paintings*

12 :45 – 14 :00 Lunch break

14:00-15:30 Chair: Karin Höpker Room: Orangerie

14:00 – 15:00 Key-Note: Winfried Menninghaus (Max Planck Institute for Empirical Aesthetics, Frankfurt a. M.): *More order and more chaos combined: Poetic diction and its effects on cognitive and aesthetic processing*

15:00 – 15.30 David Hommen (Philosophy, Heinrich-Heine-University, Düsseldorf): *Models, Metaphors, Metaphysics – A Wittgensteinian Approach to Knowledge in Art, Philosophy, and Science*

15:30 – 16:00 Coffee break (Orangerie, Foyer)

16:00-18:00 STREAM A Epistemology and Aesthetics: Materiality and Models

Chair: David Hommen Room: Orangerie

Danka Radjenović (Philosophy, University of Kaiserslautern-Landau): *(How) Do Models Exemplify? Some Thoughts on Wet Lab Models in the Life Sciences*

Jasmin Trächtler (Philosophy, Technical University Dortmund) *The Problem of Negation in Visual Models*

Mariano Martín Villuendas (Philosophy, University of Salamanca): *Conceptualizing a Pragmatist Artifactualism*

Lorenzo Sartori (Philosophy of Science, London School of Economics and Political Science): *Model Organisms as Representations*

16:00-18:00 STREAM B Brains and Computers: Digitization and Simulations

Chair: Sebastian Lemerle Room: Kollegienhaus 1.011 (Senatssaal)

Nicole Brandstetter (English Studies, University of Applied Sciences Munich): *Simulation, Duplication and the Moebius Strip - Literary Thought Experiments on Disengagement of Space, Time and Identity in Times of Digitalisation and AI*

Naomi Mandel (American Studies, Hebrew University, Jerusalem): *Hacking as Literary and Technological Reciprocity*

Iman Ferestade (Mechanical Engineering, Simon Fraser University Burnaby, Canada): *An Engineering-Inspired Account of Knowledge (Computer simulations)*

Liam Mullally (Cultural studies, University of London): *Reading JPEG: The JPEG-1 Specification as a Key Text in the Production of Digital Photographic Images?*

16:00-18:00 STREAM C Environment and Society: Ecosystems

Chair: Liliane Campos Room: Kollegienhaus 1.020

Matthew Eisler (History, University of Strathclyde, Glasgow): *Green Discourse, the Energy/Materials Ecosystem, and Technologies of Environmental Care*

Konrad Kopel: (History and Cultural Theory, University of Silesia, Katowice): *Models of worlding. An analysis of the first Polish Handbook of Modern Forestry as a Vehicle for Environmentalality*

Teun Joshua Brandt (Literary Studies, University of Groningen): *The Holobiotic Figure: Cultural Complexities of Holobiosis in Joan Slonczewski's Brain Plague*

18:00 Art & Science Exhibition / Presentation

Chair: Christine McWebb Room: Orangerie

Szilvia Ruszev (Media and Communication, Bornemouth University):

Neuro-Avantgarde

Friday, May 19 / 2023

9:00-10:30 ELINAS-PANEL

Chair: Dirk Vanderbeke Room: Orangerie

Jay Labinger (Chemistry, California Institute of Technology) - *Is the Importance of Metaphor, Models and Simulations in Science Best Exemplified by Chemistry?*

Klaus Mecke (Physics, University Erlangen-Nürnberg): *Narratives of Measurements, Models, and Events: How does Physics Work as an Empirical Science?*

Aura Heydenreich (German and Comparative Studies, University Erlangen-Nürnberg): *The Epistemic Functions of Interformation in Science and Literature: Einstein's Relativity Theory as a Case Study*

10:30 – 11:00 Uhr Coffee break (Foyer Orangerie)

11:00-13:00

Chair: Dirk Vanderbeke Room: Orangerie

Sarah Goeth (German Literature, Innsbruck University): *Analogy - A Figure of Mediation between Science and Art*

Leonhard Möckl (Max Planck Institute for the Science of Light, Erlangen): *On the Logical Position of the Hypothesis*

Peter Hull (English Studies, University of Erlangen-Nürnberg; Max Planck Institute for the Science of Light): *Liberating energy. Investigating Physicists' Use of Anthropomorphic Cognitive Metaphors when Modeling Matter-Energy Interactions in English and German*

11:00-13:00 STREAM A Epistemology and Aesthetics: Aesthetics and Science

Chair: Michael Friedman Room: Kollegienhaus 1.011 (Senatssaal)

Christine McWebb (French Studies, University of Waterloo): *Medieval Alchemy as Metaphoric Modelling for Polysemy in Jean de Meun's "Roman de la Rose"*

Jessica Stacey (Romance Studies, Freie Universität Berlin): *"Illusory chemistry": Analysis and Synthesis as Contested Models for Philosophical Thought in Eighteenth-Century France*

Emma de Beus: (English Literature, Queen's University Belfast) *Physics as Paradigm: Light in Literary Adaptation as Seen in „Hamlet“*

Ben Toth (Philosophy of Science, University of Lisbon): *A Common Model for Fictional and Scientific Narratives*

11:00-13:00 STREAM B Brains and Computers: Digital Humanities

Chair: Michael Herrmann Room: Kollegienhaus 1.020

Carolina Ferrer (Département d'études littéraires, Université du Québec à Montréal): *From Scientometrics to Criticometrics. Elaborating a Systemic Approach for Studying Literature through Metadata*

Rozalia Slodcyk (Philosophy, Independent Scholar, Warsaw, Poland) - *Models and Diagrams in Literary Research - Close Reading versus Distant Reading in Digital Humanities on the Example of Ekphrasis and Nocturne*

Daniel Raschke (*Literature, Media, Culture, Florida State University*): *Denoising Futurisms: Modeling Algorithmic Avant-Gardes*

Stefano Franceschini (American Literature, Roma Tre University): *"I had found my model of replication": Analogy and Musical Signification in Richard Powers's "The Gold Bug Variations"*

13:00 – 14:00 Lunch break

14:00-15:00 Chair: Klaus Mecke Room: Orangerie

Keynote: Amy Kind (Philosophy, Claremont McKenna College, California): Accuracy in Imagining

15:00 – 15:30 Robert Clewis (Philosophy, Gwynedd Mercy University, Pennsylvania): *Imagine that, Kant: Crossdisciplinary work on Awe and the Sublime*

15:30 – 16:00 Uhr Coffee break (Foyer Orangerie)

16:00-18:00 Panel - Literary Modelling and Energy Transition

Chair: Klaus Mecke Room: Orangerie

Veit Hagenmeyer (Energy Informatics, Karlsruhe Institute of Technology): *Modelling the Energy Lab 2.0*

Tobias Becker (Design and Design Theory, University of Siegen): *The Blind Spots of Modelling: Models in Arts and Science*

Eric Achermann (Early Modern Literature, History of Knowledge, University of Münster) *Models and Metaphors: A Topological Turn*

Robert Matthias Erdbeer (Modern German Literature, University of Münster) *Literary Modelling and Energy Transition. A Transdisciplinary Venture*

Friday, May 19 / 2023

16:00-18:00 STREAM B Brains and Computers: Consciousness

Chair: Nicole Brandstetter Room: Kollegienhaus 1.011 (Senatssaal)

Sébastien Lemerle (Sociology, Université Paris-Nanterre): *Biological Phenomena in Search of a Meaning: The Concept of Brain Plasticity as a Back-and-Forth Between Biology, Politics and Culture*

Katharina Trettenbach (Ethics of Medicine, Tübingen University) / Joachim Peters (German Linguistics, University Erlangen-Nürnberg): *Of Brains in a Dish and Mini-Brains - Cerebral Organoids, Scientific Models and the Ethical Implications of Metaphors*

Dror, Otniel E. (Medical Anthropology, Hebrew University of Jerusalem): *The Insatiable Rat*

16:00-18:00 STREAM C Environment and Society: Evolution and Probability

Chair: Robert Clewis Room: Kollegienhaus 1.020

Johannes Müller (German Studies, Leiden University): *Adaptive Landscapes as Metaphors and Models*

Lilian Kroth (French Literature, University of Cambridge): *Modelling and Imagining 'Tipping Points'*

Ken Archer (Philosophy, AI Ethics at Twitch): *Probability and the Analogical Participation of Models in Intersubjective Goods*

Joshua Wodak (Environmental Humanities, Western Sydney University): *Probing the Vicissitudes of the Cosmos: The Limits of Knowability in Literary and Scientific Worldviews*

18:00 Art & Science Exhibition / Presentation

Chair: Hannah Star Rogers Room: Orangerie

Piera Benetti (Verona, Italy): *Interwined vision*

19:00 Conference dinner: Ristorante Parmigiano, Paulistraße 12, Erlangen

Saturday, May 20 / 2023

9:00-10:30 Chair: Aura Heydenreich Room: Kollegienhaus 1.011 (Senatssaal)

9:00 – 10:00 Key-Note Jens Eder (Narrative and Aesthetics of Audiovisual Media at Film University Babelsberg, Potsdam): Using Models in Narrative Practice: From Characters to Social Impact

10:00 – 10:30 Tudor Baetu (Philosophy, Québec University): *Animal Models of Consciousness*

10:30 – 11:00 Coffee break (Kollegienhaus, Room 0.024)

11:00-12:30 PANEL: Literature and the Public Sphere

Chair: Antonia Villinger Room: Kollegienhaus 1.011 (Senatssaal)

Antje Kley (American Studies, University Erlangen-Nürnberg): *Where Reason Fails: Literary Epistemologies of Death in the 21st Century*

Karin Höpker (American Studies, University Erlangen-Nürnberg): *Future Responsibilities and Affordances: Class, Catastrophe, and Ownership in Science Fiction*

Arunima Kundu (American Studies, University Erlangen-Nürnberg): *Mediating Blackness. The Afrofuturist Planetary Posthuman in Black Panther*

11:00-12:30 STREAM A Epistemology and Aesthetics: Scientific Representation

Chair: Karin Krauthausen Room: Kollegienhaus 1.019

Onerva Kianlinna (Aesthetics, University of Helsinki): *Simulationist versus Embodied Approaches in Aesthetics*

Gabrielle Reid (German Literature, Yale University): *Schelling on Simulation and the Construction of Reality*

Rosa Coppola (German Literature, Alexander von Humboldt-Stiftung, LMU Munich): *Artificial Models of Involuntariness. Max Bense's Cybernetic Poetry as Epistemic Creation of Futures?*

11:00-12:30 STREAM B Brains and Computers: Biomedicine

Chair: Tudor Baetu Room: Kollegienhaus 1.020

Desiree Foerster (Media and Culture Studies, Utrecht University): *New Phenomenologies of Pain and Disease through Experimentations with Digital Technologies in the Arts*

Sofia Varino (Cultural Studies, University of Potsdam): *The Logic of Prevention: Anticipatory Narratives, Concepts, Models and Metaphors in Covid-19 Biomedical Imaginaries*

Mohsen Forghani (Philosophy, University of Warsaw): *Force-Dynamic Structure: Cases of Theories of Humor and Hysteria*

12:30 – 14:00 Lunch-break

14:00-15:30 PANEL: Literature and the Public Sphere

Chair: Karin Höpker Room: Kollegienhaus 1.011 (Senatssaal)

Ruxandra Teodorescu (American Studies, University Erlangen-Nürnberg): *Beyond Binary – AI, SF, and the Moral Imagination*

Antonia Villinger (German Literature, University Erlangen-Nürnberg): *Post-Petro Imaginary and Utopian Social Enclave in Theresia Enzenberger's "Auf See" (2022)*

Elisabeth Reichel (American Studies, Osnabrück University): *Modeling Libertarian Collectives*

14:00-15:30 STREAM A Epistemology and Aesthetics: Metaphor and Analogy

Chair: Peter Hull Room: Kollegienhaus 1.019

Addison Neil (British Literature, Japan Women's University, Tokio): *Industrial Metaphor Transformed in Charles Dickens's "Dombey and Son" (1848) and "The Signal-Man" (1866)*.

Su Min Kim (College of Liberal Studies, Seoul National University): *The Political Calculator in Jules Verne's „Lunar Stories“*

Katja Schmieder (American Studies, University of Leipzig): *Dust as Metaphor and Model in Philip Pullman's "His Dark Materials"*

14:00-15:30 STREAM B Brains and Computers: Neural Nets, Machine Learning, AI

Chair: Daniel Raschke Room: Kollegienhaus 1.020

Lucas Bang (Computer Science, Harvey Mudd College, California): *Abstractionism and Simulation in Software Development*

Koray Karaca (Philosophy, University of Twente): *Representational Requirements on Explainable Machine Learning Models*

Maximilian Noichl (Philosophy, University of Vienna / University of Bamberg): *How Localized are Computational Templates? A Machine Learning Approach*

15:30 – 16:00 Uhr Coffee break (Kollegienhaus, Room 0.024)

16:00-17:30 STREAM A: Epistemology and Aesthetics: Metaphor and Analogy

Chair: Sarah Goeth Room: Kollegienhaus 1.011 (Senatssaal)

Marie Teich (Max-Planck-Institut für Mathematik in den Naturwissenschaften, Leipzig): *A Metaphor Theory based on Etymological Network Structure Analysis*

Lee Siyeon (English Studies, Gwangju Institute of Science and Technology, Republic of Korea): *Through the Looking-Glass, and What Women Found There. Conway, Cavendish, and Specular Metaphors of Self-Knowledge for Early Modern Women*

17:30 – 19:00 Uhr ONLINE SESSION

Chair: Sarah Goeth Room: Kollegienhaus 1.011 (Senatssaal)

Olga Timurgalieva (Creative Media, City University of Hong Kong): *Yeast metaphors beyond machines*

Aditya Jha (Mathematics, Philosophy, University of Canterbury): *Modelling Temperature as a Continuous Function: Lessons from Thermal Physics*

Anand Abhinav (English Literature, Indian Institute of Technology, Kanpur, India) - *"Literature" of Science: Reading Science as an Institutionalised System of Knowledge in Contemporary Indian Fiction*

16:00-17:30 STREAM B: Brains and Computers: Posthuman Visions

Chair: Naomi Mandel Room: Kollegienhaus 1.019

Simona Bartolotta (English Literature, University of Oxford): *Thought Experiments, Literary Narrative, and Science Fiction: The Example of Isaac Asimov's Robot Cycle*

Terence Shih (English Studies, St. John's University, Taiwan): *Queering Romantic AI: The Shelleyan Wandering Jew in Asimov's Bicentennial Man*

Rachel Tay (Literary Studies, Duke University): *Next to Human: Proximity and/as Measure of (Post)Humanity*

16:00-17:30 STREAM C Environment and Society: Science and Literature

Chair: Valentin Weber Room: Kollegienhaus 1.020

Christian Thomé (Classical Philology, University of Wuppertal): *Spherical Geometry in Euclid's „Phaenomena“*

Laetitia Rimpau (German Literature, University of Wuppertal): *Scientific Knowledge as Ascent to the Light. On the Literary Method of Dante Alighieri and Johannes Kepler*

George Vlahakis (Physics and History of Science, Hellenic Open University, Athens): *Patterns of Science in 19th Century Greek literature*

19:00 – 19:30 Uhr SLSAeu Members Meeting 1.011 (Senatssaal)

Sunday, May 21 / 2023

9:00-11:30 Chair: Jay Labinger Room: Kollegienhaus 1.011 (Senatssaal)

Dirk Vanderbeke (English Studies, Schiller Universität Jena): *On the Coincidence of Change in Science and Culture*

Stephan Besser (Literary Studies, University of Amsterdam): *Conjuring a Sense of Order: Pattern as a Figure of Knowledge in Armin Nassehi's Theory of Digital Society*

Dominik Baumgartner (Theology, LMU München): *Theology between Models and Metaphors. A model-based scientific theology facing biblical narratives and personal belief*

Roland Bolz (Philosophy, Humboldt University Berlin): *Functional Similarities and Differences Between Analogical Thought in Literature and Science*

Hannah Star Rogers (Science and Technology Studies, University of Copenhagen): *The Politics of Knowledge: Art, Science, and Technology Studies*

11:2:30 - Concluding Session

Aura Heydenreich, Klaus Mecke