



## Curriculum vitae

<p>Prof. em. – Institut für Philosophie Technische Universität Darmstadt Residenzschloss 1 64283 Darmstadt Germany</p>	<p><i>Adjunct Professor:</i> University of South Carolina <i>Guest Professor:</i> Peter the Great St. Petersburg Polytech <i>President-Elect</i> Society for Philosophy and Technology</p> <p><b>IANUS Peacelab</b> – IANUS-Verein für friedensorientierte Technikgestaltung e.V.</p>
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### Education

- Werner-von-Siemens-Gymnasium Bad Harzburg (Abitur, 1976) and Sandia High School, Albuquerque, NM (Foreign Exchange Student, 1973/74)
- Leibniz Kolleg Tübingen (studium generale, 1976/77)
- Universität Tübingen (Philosophy, 1976/77)
- Universität Hamburg (Philosophy, Modern German Literature, History of Science: M.A., 1981)
- Columbia University (Sociology of Science, Philosophy: Visiting Student 1981/82; Visiting Scholar with the Philosophy Department 1982/83; Visiting Scholar with the Center for Social Sciences 1984/85)
- Universität Hamburg (Philosophy: Dr. phil., 1986)

### Academic Positions

- Research Associate to Robert K. Merton. Columbia University (1983-85)
- Instructor. Leibniz Kolleg Tübingen (1985/86, 1987/88)
- Visiting Assistant Professor of Humanities and Philosophy. Virginia Polytechnic Institute and State University (1986/87)
- Instructor. Institut für Allgemeine Rhetorik der Universität Tübingen (1988)
- Visiting Assistant, Assistant, and Associate Professor of Philosophy. University of South Carolina at Columbia, SC (1988-2002; on leave 1991-93, 2000/01)
- Instructor, Universität Konstanz (1992/93)
- Adjunct Associate Professor, Department of Theatre and Speech, University of South Carolina (1999-2002)
- Consulting Faculty, Comparative Literature Program, University of South Carolina (1999-2002)
- Adjunct Associate Professor of Philosophy. University of South Carolina (2002-2008 and since 2011)
- Professor of Philosophy. Technische Universität Darmstadt (2002-2022)
- Visiting Centenary Professor in the Department of Philosophy. University of South Carolina (2008-2011)
- Alcatel Lucent-Fellow at the International Center for Studies of Culture and Technology (IZKT), Stuttgart University (summer term 2009)
- Co-ordinator Interdisziplinärer Studienschwerpunkt Wissenschafts- und Technikforschung: Normen, Ambivalenzen, Gestaltungsoptionen (Technische Universität Darmstadt, 2011-2022)
- Sprecher (head) of the research unit IANUS: Science Technology Peace (Technische Universität Darmstadt, 2015-2017)
- Guest Professor at Peter the Great Saint Petersburg Polytechnic University (since 2017)

- Visiting Professor at South China University of Technology, International School of Advanced Materials (ISAM), Guangzhou (2018/2019)

### Dramaturgical Work

- Director's Assistant at Staatstheater Braunschweig and Theater im Zimmer, Hamburg (on five occasions, 1973 to 1981)
- Freelance editor for the theatrical divisions of Rowohlt Verlag, Hamburg, and S. Fischer Verlag, Frankfurt (1977 to 1981, 1985/86)
- Dramaturg at the Tübinger Zimmertheater (1985/86, 1987/88)
- Dramaturg at the Stadttheater Konstanz (1991-93)
- Guest Dramaturg at the Niedersächsische Staatstheater Hannover (summers of 1994-1996, 1998 and 1999)
- Dramaturg at Theatre USC (2000, 2002)

### Publications

#### *Books, Reports, and Edited Collections*

- with James Klagge (eds.): *Ludwig Wittgenstein. Philosophical Occasions: 1912-1951*. (Indianapolis: Hackett Publishing, 1993, 542pp.; Spanish edition with Ángel García Rodríguez (co-ed.): *Ludwig Wittgenstein: Ocasiones filosóficas 1912-1951*, Madrid: Cátedra, 1997, 465pp.)
- with Davis Baird and R.I.G. Hughes (eds.): *Heinrich Hertz: Classical Physicist, Modern Philosopher. (Boston Studies in the Philosophy of Science, vol. 198, Dordrecht: Kluwer, 1998, 320pp.)*
- with Davis Baird (guest eds.): Special issue on Peter Galison's *Image and Logic*. (*Perspectives on Science*, vol. 7, number 2, 1999)
- with James Klagge (eds.): *Ludwig Wittgenstein. Public and Private Occasions*. (Lanham: Rowman and Littlefield, 2003, 417pp.); extracted edition: *Movements of Thought: Ludwig Wittgenstein's Diary 1930-1932 and 1936-1937* (Lanham: Rowman and Littlefield, 2023, 131pp.)
- as rapporteur for the High Level Expert Group "Foresighting the New Technology Wave": *Converging Technologies: Shaping the Future of European Societies*. (Luxemburg: Office for Official Publications of the European Communities, 2004, 63pp.)
- with Davis Baird and Joachim Schummer (eds.) *Discovering the Nanoscale*. (Amsterdam: IOS Press, 2004, 321pp.)
- *Wittgenstein's Tractatus: An Introduction*. (Cambridge: Cambridge University Press, 2005, 234pp.)
- with Joachim Schummer and Astrid Schwarz (eds.) *Nanotechnologien im Kontext: Philosophische, ethische und gesellschaftliche Perspektiven*. (Berlin: Akademische Verlagsgesellschaft, 2006, 433pp.)
- with Michael Friedman (eds.) *The Kantian Legacy in Nineteenth-Century Science*. (Cambridge: MIT Press, 2006, 370pp.)
- with Gerhard Gamm and Eva Schürmann (eds.) *Philosophie im Spiegel der Literatur: Zehn selbstkritische Lektüren*. (Hamburg: Felix Meiner, 2007, 184pp.)
- *Technikphilosophie zur Einführung*. (Hamburg: Junius, 2008, 184pp., second expanded edition 2015)
- with Stefan Gammel and Andreas Lösch (eds.) *Jenseits von Regulierung: Zum politischen Umgang mit der Nanotechnologie*. (Heidelberg: Akademische Verlagsgesellschaft, 2009, 186pp.)
- with Arianna Ferrari (eds.) *Reconfiguring Responsibility: Lessons for Nanoethics. (Part 2 of the Report on Deepening Debate on Nanotechnology, Durham: Durham University, 2009, 18pp.)*
- with Astrid Schwarz (eds.) *Das bunte Gewand der Theorie: 14 Begegnungen mit philosophierenden Forschern*. (Freiburg: Alber, 2009, 400pp.)
- with Phil Macnaghten (guest eds.): Special section „Engaging Narratives and the Limits of Lay Ethics“ (*Nanoethics* 4:2, 2010, pp. 133-189)

- with Martin Carrier (eds.) *Science in the Context of Application*. (Boston Studies in the Philosophy of Science, vol. 274, Dordrecht: Springer, 2010, 491pp.)
- with Hans Radder and Gregor Schiemann (eds.) *Science Transformed? Debating Claims of an Epochal Break* (Pittsburgh: Pittsburgh University Press, 2011, 240pp.); German translation *Strukturwandel der Wissenschaft: Positionen zum Epochenbruch*, (Weilerswist: Velbrück, 2014, 260pp.); Simplified Chinese edition (Nanjing University Press, Nanjing, 2021, 251pp.)
- with Nina Janich and Liselotte Schebek (eds.) *Nichtwissenskommunikation in den Wissenschaften: Interdisziplinäre Zugänge* (Frankfurt: Peter Lang, 2012, 341pp.)
- series editor *History and Philosophy of Technoscience* (Pickering and Chatto, then Routledge), 23 volumes, since 2013
- *Nanotechnology in its Societal Context* (Textbook Postgraduate Distance Studies, Technische Universität Kaiserslautern, 2015)
- with Petra Gehring, Christoph Hubig, Andreas Kaminski et al. (eds.) *Jahrbuch Technikphilosophie* (Zürich: diaphanes, 2 volumes 2015 and 2016; Baden-Baden: nomos, 6 volumes 2017 to 2022 and forthcoming)
- with Nicola Mößner (eds.) *Reasoning in Measurement* (Abingdon: Routledge, 2017, 262pp.)
- with Bernadette Bensaude-Vincent, Sacha Loeve, Astrid Schwarz (eds.) *Research Objects in their Technological Setting* (Abingdon: Routledge, 2017, 270pp.)
- with Jens-Ivo Engels (eds.) *Was heißt Kritikalität? Zu einem Schlüsselbegriff der Debatte um Kritische Infrastrukturen* (Bielefeld: transcript, 2018, 229pp.)
- with Daria Bylieva, Olga Shipunova, Violetta Volkova (eds.) *Knowledge in the Information Society* (Cham: Springer, 2020, 340pp.)
- with Daria Bylieva (eds.) special issues *Introductions, In the Beginning was the Word – The Word as a Technical Artefact, and Technologies in a Multilingual World (Technology and Language*, vols. 1:1, 2:1, and 3:3, 2020, 2021, and 2022, 127pp., 140pp., and 131pp.)
- with Daria Bylieva (eds.) *Technology, Innovation and Creativity in Digital Society* (Cham: Springer, 2022, 1003pp.)
- with Cheryce von Xylander (eds.) *Vollendete Tatsachen: Vom endgültig Vorläufigen und vorläufig Endgültigen in der Wissenschaft* (Bielefeld: transcript, 2022, 472pp.)
- with Daria Bylieva (eds.) *Technologies in a Multilingual Environment* (Cham: Springer, 2023, 548pp.)
- with Armin Grunwald and Martin Sand (eds.) *Hermeneutics, History and Technology – The Call of the Future* (Abingdon: Routledge, 2023, 215pp.)
- with Julia Mörtel and Oliver Schlaudt (eds.) *Indikatoren in Entscheidungsprozessen: Stärken und strukturelle Schwächen* (Cham: Springer, 2023, 218pp.)
- with Stefan Böschen and Carsten Reinhardt (eds.) *Wissenschaft in der Verlässlichkeitsfalle: Praktiken der Konstruktion von Relevanz und Neutralität (NAL-historica Nr. 82, 2023, 164pp.)*
- with Daria Bylieva (eds.) *The World of Games: Technologies for Experimenting, Thinking, Learning* (Cham: Springer, 2 volumes, 2024 and 2023, pp. 444 and 412)

#### Articles and Chapters

- with Robert K. Merton: Appendix of Sociohistorical Particulars. (In Robert K. Merton. The Fallacy of the Latest Word: The Case of "Pietism and Science". *The American Journal of Sociology*, vol. 89, 1984, pp. 1112-1118)
- Ernsthafter Zweifel und gründliche Skepsis: Lichtenbergs Konjunktive, Wahrheit und Wissenschaft. (*Photorin*, vol. 10, 1986, pp. 47-56)
- Comparing Incommensurable Theories: A Textbook Account from 1794. (*Studies in History and Philosophy of Science*, vol. 17, no. 2, 1986, pp. 231-246)
- Art and Aesthetics of the Enlightenment. (Script for a television production of NDR/North German Television, Hamburg: aired in June 1988, published in *Grundfragen der Philosophie: Was ist Aufklärung?* Munich: TR-Verlagsunion, 1988, pp. 37-55)
- "... denke immer du bist ein Mitglied des Rates": Lichtenbergs Imperativ und die französische Revolution in der Chemie. (In Jörg Zimmermann (ed.), *Lichtenberg: Streifzüge der Phantasie*. Hamburg: Dölling und Galitz, 1988, pp. 115-128)

- Fusion and Fission, Governors and Elevators. (In Edmund Byrne and Joseph Pitt (eds.). *Technological Transformation: Contextual and Conceptual Implications*. Dordrecht: Kluwer Academic Publishers, 1989, pp. 81-92)
- Persistent Propensities: Portrait of a Familiar Controversy. (*Biology and Philosophy*, vol. 5, 1990, pp. 379-399)
- Goodbye and Farewell: Siegel vs. Feyerabend. (*Inquiry*, vol. 33, 1990, pp. 317-331)
- with Davis Baird: Facts-Well-Put. (In Joseph Pitt and Elena Lugo (eds.), *The Technology of Discovery and the Discovery of Technology*, Blacksburg: Society for Philosophy and Technology, 1991, pp. 413-455; *British Journal for the Philosophy of Science*, vol. 45, 1994, pp. 37-77; German translation Wohl gesetzte Tatsachen (In Cheryce von Xylander and Alfred Nordmann (eds.) *Vollendete Tatsachen*, Bielefeld: transcript, 2022, pp. 143-190)
- Darwinians at War: Bateson's Place in Histories of Darwinism. (*Synthese*, vol. 91, nos. 1-2, 1992, pp. 53-72)
- Der Geist in der Maschine. (*Die Zeit*, September 3rd 1993, pp. 53f.)
- The Actors' Brief: Experiences with Chekhov. (*Theatre Research International*, vol. 19, 1994, pp. 134-142)
- Der Wissenschaftler als Medium der Natur. (In Karin Orchard and Jörg Zimmermann (eds.) *Die Erfindung der Natur*, Freiburg: Rombach, 1994, pp. 60-66)
- The Evolutionary Analysis: Apparent Error, Certified Belief, and the Defects of Asymmetry. (*Perspectives on Science*, vol. 2, 1994, pp. 131-175)
- with Hartmut Wickert: Shamanism Vilified and Redeemed: Sam Shepard's *States of Shock*. (*Imda review*, vol. 5, no. 3, 1994, pp. 1-5, vol. 6, no. 1, 1994, pp. 3-5; *Contemporary Theatre Review*, vol. 8:4, 1998, pp. 38-54)
- Community, Immortality, Enlightenment: Kant's Scholarly Republic. (*Proceedings of the Eighth International Kant Congress*, Milwaukee: Marquette University Press, 1995, vol. II, pp. 705-712)
- Political Theater as Experimental Anthropology: On a Production of Kleist's *Prinz Friedrich von Homburg*. (*New German Critique*, vol. 22, no. 3, 1995, pp. 17-34)
- Transforming Ambivalence: A Rôle for the Philosophy of Science in the Socialization of Scientists. (Proceedings of the *Third International History, Philosophy, and Science Teaching Conference*, Minneapolis: University of Minnesota, 1995, vol. 2, pp. 848-857)
- Ästhetische Arbeit. (In Michael Börgerding (ed.) *Operation Epsilon oder Wie die Deutschen doch noch ihre Atombombe erfanden*, Programmbuch No. 33, Hannover: Schauspiel Hannover, 1995, pp. 68-79)
- Blotting and the Line of Beauty: On Performances by Botho Strauss and Peter Handke. (*Modern Drama*, vol. 39, no. 4, 1996, pp. 680-697)
- with Hartmut Wickert: The Impossible Representation of Wonder: Space Summons Memory. (*Theatre Research International*, vol. 22, no. 1, 1997, pp. 38-48)
- "Everything Could Be Different": The *Principles of Mechanics* and the Limits of Physics. (In Davis Baird, R.I.G. Hughes, Alfred Nordmann (eds.) *Heinrich Hertz: Classical Physicist, Modern Philosopher*, Dordrecht: Kluwer, 1998, pp. 155-171)
- Heinrich Hertz - A Bibliography. (In Davis Baird, R.I.G. Hughes, Alfred Nordmann (eds.) *Heinrich Hertz: Classical Physicist, Modern Philosopher*, Dordrecht: Kluwer, 1998, pp. 281-305; cf. <http://www.ifs.tu-darmstadt.de/phil/nordmann/hertz.html>)
- Establishing Commensurability: Intercalation, Global Meaning, and the Unity of Science. (*Perspectives on Science*, vol. 7, no. 2, 1999, pp. 181-195)
- Blinded to History? Science and the Constancy of Nature. (In Martin Carrier, Gerald Massey, and Laura Ruetsche (eds.) *Science at Century's End: Philosophical Questions on the Progress and Limits of Science*, Pittsburgh and Konstanz: University of Pittsburgh Press/Universitätsverlag Konstanz, 2000, pp. 150-178)
- Heinrich Hertz: Scientific Biography and Experimental Life. (Essay review in *Studies in History and Philosophy of Science*, vol. 31, no. 3, 2000, pp. 537-549)
- The Sleepy Philosopher: How to Read Wittgenstein's Diaries. (In James C. Klagge (ed.) *Wittgenstein: Biography and Philosophy*, New York: Cambridge University Press, 2001, pp. 156-175)

- Representation vs. Interpretation: Divorcing Laws from Generalizations in Science. (In A. Beckermann and C. Nimtz (eds.) *Argument & Analyse — Sektionsvorträge*, Proceedings of the GAP-4 conference of the Gesellschaft für analytische Philosophie, published electronically at <<http://www.gap4.de>>, 2002, pp. 87-97)
- Noch einmal zu Lichtenberg und Wittgenstein — die gegenwärtige Quellenlage. (*Lichtenberg Jahrbuch 2001*, Saarbrücken: SDV, 2002, pp. 163-170)
- Und die im Lichte sieht man nicht? Nackte Tatsachen in der Wissenschaftskritik. (In Claus Zittel (ed.) *Wissen und soziale Konstruktion in Geschichte, Wissenschaft und Kultur*, Berlin: Akademie Verlag, 2002, pp. 47-65)
- Another New Wittgenstein: The Scientific and Engineering Background of the *Tractatus*. (*Perspectives on Science*, vol. 10:3, 2002, pp. 356-383)
- "I have Changed his Way of Seeing": Goethe, Lichtenberg, and Wittgenstein. (In Richard Raatzsch, Fritz Breithaupt, Bettina Kremberg (eds.) *Goethe and Wittgenstein — Seeing the World's Unity in its Variety* in *Wittgenstein Studien*, Frankfurt: Peter Lang, 2003, pp. 91-110)
- From 'Electricity minus' to '-E': Attempts to Introduce the Concept of Negative Magnitude into Worldly Wisdom. (In Fabio Bevilacqua and Lucio Fregonese (eds.) *Nuova Voltiana: Studies on Volta and his Times*, Pavia/Milano: Università degli Studi/Hoepli, vol. 5, 2003, pp. 1-13.)
- Die wunderbarste Wünschelrute: Wo Lichtenberg einen Spaß macht, liegt Goethes Problem verborgen. (*Lichtenberg Jahrbuch 2002*, Saarbrücken: SDV, 2003, pp. 33-50)
- Social Imagination for Nanotechnology. (In European Commission, Community Health and Consumer Protection, *Nanotechnologies: A Preliminary Risk Analysis*, Brussels: European Commission, 2004, at <[www.ec.europa.eu/comm/health/ph\\_risk/documents/ev\\_20040301\\_en.pdf](http://www.ec.europa.eu/comm/health/ph_risk/documents/ev_20040301_en.pdf)>, pp. 111-113)
- Nanotechnology's Worldview: New Space for Old Cosmologies. (*IEEE Technology and Society Magazine* 23:4, 2004, pp. 48-54); earlier version: Shaping the World Atom by Atom: Eine nanowissenschaftliche WeltBildanalyse. (In Armin Grunwald (ed.) *Technikgestaltung zwischen Wunsch und Wirklichkeit*, Berlin: Springer, 2003, pp. 191-199)
- Was ist TechnoWissenschaft? – Zum Wandel der Wissenschaftskultur am Beispiel von Nanoforschung und Bionik. (In T. Rossmann and C. Tropea (eds.), *Bionik: Aktuelle Forschungsergebnisse in Natur-, Ingenieur- und Geisteswissenschaften*, Berlin: Springer, 2004, pp. 209-218)
- with Udo Schwalke: Die technische und gesellschaftliche Einbettung der Nanotechnik. (*thema forschung*, 2/2004, pp. 44-50)
- Molecular Disjunctions: Staking Claims at the Nanoscale. (In Davis Baird, Alfred Nordmann, Joachim Schummer (eds.), *Discovering the Nanoscale*, Amsterdam: IOS Press, 2004, pp. 51-62)
- Heinrich Hertz. (In Dieter Hoffmann, Hubert Laitko, Staffan Müller-Wille (eds.) *Lexikon der bedeutenden Naturwissenschaftler*, München: Elsevier/Spektrum, vol. 2, 2004, pp. 205-207)
- Immanuel Kant: Kritik der reinen Vernunft. (In Gerhard Gamm and Eva Schürmann (eds.), *Von Platon bis Derrida: 20 Hauptwerke der Philosophie*, Darmstadt: Primus, 2005, pp. 117-143)
- Nanotechnology: Convergence and Integration – Containing Nanotechnology. (*9th Japanese-German Symposium: Frontiers of Nanoscience*, Bonn: Deutsche Gesellschaft der JSPS-Stipendiaten, 2005, pp. 105-119)
- The Passion for Truth: Lavoisier's and Lichtenberg's Enlightenments. (In Marco Beretta (ed.), *Lavoisier in Perspective*, München: Deutsches Museum, 2005, pp. 109-128)
- Noumenal Technology: Reflections on the Incredible Tininess of Nano. (In Joachim Schummer and Davis Baird (eds.) *Nanotechnology Challenges: Implications for Philosophy, Ethics and Society*, Singapore: World Scientific Publishing, 2006, pp. 49-72; originally in *Techné*, 8:3, 2005, pp. 3-23)
- The Present as the Only Reality: Picture Theory and Critique of Causality by Hertz and Wittgenstein. (*Time and History: Papers Contributed to the 28<sup>th</sup> Wittgenstein Symposium – Preproceedings*, Kirchberg: Österreichische Ludwig Wittgenstein Gesellschaft, 2005, pp. 223-225)

- Wissen und Arbeit: Die Dampfmaschine im 18. Jahrhundert. (In Thomas Müller-Bahlke (ed.) *Wissenschaft und Technik am Vorabend der Industrialisierung*, Halle: Mitteldeutscher Verlag, 2005, pp. 132-140)
- Balancing Acts: Key Science and Technology Foresight. (In Berit Johnne and Erik F Øverland (eds.) *Leve Med, Leve For? Vår Bioteknologiske Fremtid: Bioteknologi i Norge*, Oslo: Cappelen Akademisk Forlag, 2005, pp. 97-99; English edition in Berit Johnne and Erik F Øverland (eds.) *The Biotech Future: Scenarios from Norway*, Oslo: Cappelen Akademisk Forlag, 2007, pp. 99-101)
- From Metaphysics to Metachemistry. (In Davis Baird, Eric Scerri, Lee McIntyre (eds.), *Philosophy of Chemistry: Synthesis of a New Discipline*, in the series *Boston Studies in the Philosophy of Science*, Dordrecht: Springer, 2006, pp. 347-362)
- Unsichtbare Ursprünge: Herbert Gleiter und der Beitrag der Materialwissenschaft. (In Alfred Nordmann, Joachim Schummer and Astrid Schwarz (eds.), *Nanotechnologien im Kontext*, Berlin: Akademische Verlagsanstalt, 2006, pp. 81-96); English version: Invisible Foundations: Herbert Gleiter and the Contribution of Materials Science. (*Perspectives on Science*, 17:2, 2009, pp. 123-143)
- Personalisierte Medizin? Zum Versprechen der Nanomedizintechnik. (*Hessisches Ärzteblatt*, 67:5, 2006, pp. 331-333)
- Critical Realism, Critical Idealism, Critical Common-Sensism: The School and World Philosophies of Riehl, Cohen, and Peirce. (In Michael Friedman and Alfred Nordmann (eds.), *The Kantian Legacy in Nineteenth Century Science*, Cambridge: MIT Press, 2006, pp. 249-274)
- Vor-Schrift – Signaturen der Visualisierungskunst. (In Wolfgang Krohn (ed.), *Ästhetik in der Wissenschaft: Interdisziplinärer Diskurs über das Gestalten und Darstellen von Wissen*, Hamburg: Felix Meiner, 2006, pp. 117-129)
- Denkmuster hinter der Nanotechnologie: Die Welt als Baukastensystem. (*politische ökologie*, no. 101, 2006, pp. 20-23); English translation: First Choices: Talking about "Nanotechnology." (*Journal für Verbraucherschutz und Lebensmittelsicherheit/Journal of Consumer Protection and Food Safety* 3:4, 2008, pp. 249-251)
- Collapse of Distance: Epistemic Strategies of Science and Technoscience. (*Danish Yearbook of Philosophy*, 41, 2006, pp. 7-34)
- with Rudi Schmiede: Ambient Intelligence – ethische und gesellschaftliche Herausforderungen. (*thema forschung*, 1/2007, pp. 48-50)
- Entflechtung – Ansätze zum ethisch-gesellschaftlichen Umgang mit der Nanotechnologie. (In André Gzásó, Sabine Greßler, Fritz Schiemer (eds.) *nano – Chancen und Risiken aktueller Technologien*, Berlin: Springer, 2007, pp. 215-229)
- If and Then: A Critique of Speculative NanoEthics. (*NanoEthics*, 1:1, 2007, pp. 31-46)
- Design Choices in the Nanoworld: A Space Odyssey. (In Marian Deblonde, Lieve Goorden et al. *Nano Researchers Facing Choices* in Christiane Timmerman and Barbara Segaert (eds.) *The Dialogue Series*, Universitair Centrum Sint-Ignatius Antwerpen, vol. 10, 2007, pp. 13-30); German version: Gestaltungsspielräume in der Nanowelt: Eine Space-Odyssee. (In Dieter Korczak and Anton Lurf (eds.) *Nanotechnologie: Erwartungen, Anwendungen, Auswirkungen*, Kröning: Asanger, 2007, pp. 159-184)
- Knots and Strands: An Argument for Productive Disillusionment. (*Journal of Medicine and Philosophy*, 32:3, 2007, pp. 217-236)
- Träume vom Nanokosmos. (In Niels Boeing, Philipp Wolf, Dietmar Herdt (eds.), *Nanotechnologie, Gentechnologie, moderne Hirnforschung - Machbarkeit und Verantwortung*, Leipzig: Leipziger Universitätsverlag, 2007, pp. 95-103)
- Abgrund des Unverständnisses: W.G. Sebalds *Austerlitz*. (In Gerhard Gamm, Alfred Nordmann, Eva Schürmann (eds.) *Philosophie im Spiegel der Literatur*, Hamburg: Felix Meiner, 2007, pp. 165-183)
- Renaissance der Allianztechnik? Neue Technologien für alte Utopien. (In Beat Sitter-Liver (ed.) *Utopie heute: Zur aktuellen Bedeutung, Funktion und Kritik des utopischen Denkens und Vorstellens*, Fribourg: Academic Press Fribourg, 2007, vol 1, pp. 261-278)
- Heinrich Hertz (new perspectives). (*The Complete Dictionary of Scientific Biography*, Detroit: Scribner's, 2008, vol. 21, pp. 291-294)

- Trennungsarbeit: Die Geistes- und Technowissenschaften im Zeitalter der Begleitforschung (forum response to Andrew Jamison). (*N.T.M. International Journal of History of Natural Sciences, Technology & Medicine* 16, 2008, pp. 127-132)
- Technology Naturalized: A Challenge to Design for the Human Scale. (In Pieter E. Vermaas, Peter Kroes, Andrew Light, and Steven A. Moore (eds.) *Philosophy and Design: From Engineering to Architecture*, Dordrecht: Springer, 2008, pp. 173-184)
- with Matthew Kearnes: Commentary on “The Center for Responsible Nanotechnology Scenario Project.” (*Nanotechnology Perceptions* 4:1, 2008, pp. 65-71)
- Philosophy of Nanotechnoscience. (In G. Schmid, H. Krug, R. Waser, V. Vogel, H. Fuchs, M. Grätzel, K. Kalyanasundaram, L. Chi (eds.) *Nanotechnology*, vol. 1: G. Schmid (ed.) *Principles and Fundamentals*, Weinheim: Wiley, 2008, pp. 217-244); German version: Philosophie der Nanotechnowissenschaft. (In Stefan Gammel, Andreas Lösch, Alfred Nordmann (eds.) *Jenseits von Regulierung: Zum politischen Umgang mit der Nanotechnologie*, Heidelberg: Akademische Verlagsgesellschaft, 2009, pp. 122-148)
- “Getting the Causal Story Right”: Hermeneutic Moments in Nancy Cartwright’s Philosophy of Science. (In Stephan Hartmann, Carl Hoefer, and Luc Bovens (eds.), *Nancy Cartwright’s Philosophy of Science*, New York: Routledge, 2008, pp. 369-388)
- Singular Simplicity. (*IEEE Spectrum*, special issue on The Rapture of the Geeks: Separating Science from Fiction in the Technological Singularity, 45:6, 2008, pp. 60-63)
- Kitsch – zur Kritik technowissenschaftlicher Weltgestaltung. (In Thomas Koebner (ed.) *Ästhetische Existenz – Ethische Existenz: Ein zeitgenössisches Entweder-Oder?* Stuttgart: edition text + kritik, 2008, pp. 72-83, 263)
- No Future for Nanotechnology? Historical Development vs. Global Expansion. (In Fabrice Jotterand (ed.) *Emerging Conceptual, Ethical and Policy Issues in Bionanotechnology*, Dordrecht: Springer, 2008, pp. 43-63); earlier version: Wohin die Reise geht: Zeit und Raum der Nanotechnologie. (In Gerhard Gamm and Andreas Hetzel (eds.) *Unbestimmtheitssignaturen der Technik*, Bielefeld: transcript, 2005, pp. 103-123)
- Entrando en el mundo nano. (*Mundo Nano – Revista Interdisciplinaria en Nanociencia y Nanotecnología*, 1:1, 2008, pp. 81-85)
- The Mechanics of Representation and the Problem of Life: The Philosophy of Heinrich Hertz. (In Gudrun Wolfschmidt (ed.) *Heinrich Hertz and the Development of Communication*, Norderstedt: Nuncius Hamburgensis, 2008, pp. 211-232)
- Ignorance at the Heart of Science? Incredible Narratives on Brain-Machine Interfaces. (In Johann S. Ach and Beate Lüttenberg (eds.) *Nanobiotechnology, Nanomedicine and Human Enhancement*, Berlin: Lit-Verlag, 2008, pp. 113-132)
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- Wahrheit oder Verlässlichkeit: Eine unbequeme Alternative. (In Simone Jung, Steffi Hobuß, Sven Kramer (eds.) *Öffentlichkeiten zwischen Fakt und Fiktion*, Berlin: Verbrecher Verlag, 2023, pp. 21-48); based on: Verdientes und verspieltes Vertrauen: Gegen die Verkürzung der Wissenschaft auf ihre Verlässlichkeit. (In Stefan Böschen, Carsten Reinhardt, Alfred Nordmann (eds.) *Wissenschaft in der Verlässlichkeitsfalle*, *NAL-historica* Nr. 82, 2023, pp. 13-23)

- Eine Frage des Abstands: Zum Ding- und Weltverhältnis von Wissenschaft und Technowissenschaft. (In Marco Tamborini (ed.) *Die Ästhetik der Technowissenschaften des 21. Jahrhunderts*, Darmstadt: Wissenschaftliche Buchgesellschaft, 2023, pp. 247-253)
- Lost in the City: Lessons in Co-Ordination. (*The Journal of Philosophy of the City*, vol. 1:1, 2023, pp. 42-48)
- with Daria Bylieva: Entering the World Technologically – Early Encounters. (*Technologos* 2023 no. 4, pp. 34-47)
- News and Stories from the Multilingual World. (In Danuta Gabryś-Barker and Eva Vetter (eds.) *Modern Approaches to Researching Multilingualism: Studies in Honour of Larissa Aronin*, Springer, 2024, pp. 121-126)
- Philosophy of Multilingualism and Technology: From Representation to Accommodation. (In Danuta Gabryś-Barker and Eva Vetter (eds.) *Modern Approaches to Researching Multilingualism: Studies in Honour of Larissa Aronin*, Springer, 2024, pp. 11-23)
- Towards the Non-Mertonian Ethos of a Non-Mertonian Science: Situating the Research Value of Openness. (*NOvation*, no. 6, 2024, pp. 77-85)
- How to Make Peace: Alexander Kluge's Philosophy of Technology (forthcoming in Christian Schulte, Daniel Gönitzer, Yvonne Sobotka, Florian Telsnig (eds.) *Alexander Kluge-Jahrbuch* 11, Russian translation *Semiotic Studies* 2024 vol. 4:2, pp. 8-18)
- The Feeling for the World as a Limited Whole: Temperance. (forthcoming in Xavier Guchet (ed.) *Sciences en récits. Conversation avec Bernadette Bensaude-Vincent*, Les Editions de la Sorbonne)
- Prospective Modeling. (forthcoming in Meghan Bohardt, Konstantin Eckl, Tarja Knuuttila (eds.) *Modeling the Possible*, Routledge)

#### Reviews

- Johann Dvorak, *Edgar Zilsel und die Einheit der Erkenntnis*. (*Isis*, vol. 76, 1985, no. 2:282, p. 233)
- Isaac Levi, *Decisions and Revisions* and *Hard Choices*. (*Isis*, vol. 79, 1988, no. 2:297, pp. 310-312)
- Errol Harris and Peter Heath (transl. and eds.), F.W.J. Schelling, *Ideas for a Philosophy of Nature*. (*History of European Ideas*, vol. 12, 1990, pp. 566-568)
- Otto Sonntag (ed.), *The Correspondence between Albrecht von Haller and Horace-Benedict de Saussure*. (*The Quarterly Review of Biology*, vol. 67, no. 4, 1992, p. 510)
- Johan Callens, *Double Binds: Existentialist Inspiration and Generic Experimentation in the Early Work of Jack Richardson*. (*Theatre Research International*, vol. 20, no. 1, 1995, pp. 66f.)
- Bruno Latour, *Wir sind nie modern gewesen*. (*Die Zeit*, March 19th, 1996, p. 29)
- John Preston et al. (eds.), *Worst Enemy of Science? Essays in Memory of Paul Feyerabend*. (*Ethics*, vol. 112:1, 2001, pp. 197f.)
- Salvo D'Agostino, *A History of the Ideas of Theoretical Physics*. (*Studies in History and Philosophy of Modern Physics*, vol. 34, 2003, pp. 677-679)
- Jesper Lützen, *Mechanistic Images in Geometric Form: Heinrich Hertz's Principles of Mechanics*. (*Historia Mathematica*, vol. 34:3, 2007, pp. 349-352)
- with Hasok Chang, Bernadette Bensaude-Vincent, and Jonathan Simon: Ask not what philosophy can do for chemistry, but what chemistry can do for philosophy – Book Symposium on Bernadette Bensaude-Vincent and Jonathan Simon, *Chemistry – The Impure Science* (*Metascience*, vol. 19:3, 2010, pp. 373-383)
- Claus Zittel, *Theatrum philosophicum. Erfahrungsmodi und Formen der Wissensrepräsentation bei Descartes*. (*N.T.M. International Journal of History of Natural Sciences, Technology & Medicine*, vol. 19, 2011, pp. 219-221)
- Mark Bedau and Emily Parke (eds.), *The Ethics of Protocells: Moral and Social Implications of Creating Life in the Laboratory*. (*Artificial Life*, vol. 17:3, 2011, pp. 253–255)
- Michael Eckert, *Heinrich Hertz*. (*Isis*, vol. 104:1, 2013, pp. 172-173)
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- Léna Soler, Sjoerd Zwart, Michael Lynch, and Vincent Israel-Jost (eds.) *Science after the Practice Turn in the Philosophy, History, and Social Studies of Science*. (Notre Dame

- Philosophical Reviews: An Electronic Journal, June 2015, <https://ndpr.nd.edu/news/58957-science-after-the-practice-turn-in-the-philosophy-history-and-social-studies-of-science/>)
- Michael Heidelberger, Helmut Pulte, Gregor Schiemann (eds.) *Hermann von Helmholtz: Philosophische and Populärwissenschaftliche Schriften. (HOPOS The Journal of the International Society for the History of Philosophy of Science, vol. 8:2, 2018, pp. 495-497)*
  - Sacha Loeve, Xavier Guchet, Bernadette Bensaude-Vincent (eds.) *French Philosophy of Technology: Classical Readings and Contemporary Approaches. (Jahrbuch Technikphilosophie 2020, vol. 6, 2020, pp. 227-233)*
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## Presentations

- Wie Kunst sich zeigt: Bemerkungen zu John Dewey, Nelson Goodman, Arthur Danto und zu einer Theorie des Gestischen in der Kunst. (Zweites Hamburger Kolloquium Sprachen der Kunst, Juni 1984)
- Verstehen, Vergleichen, Entscheiden: Wissenschaftssprache und rationale Theorienwahl am Beispiel Lichtenbergs. (Lichtenberg Gesellschaft, Ober-Ramstadt, July 1984)
- Rational Choice and Rational Reconstruction. (Philosophy and Social Science Seminar at the Inter-University-Center Dubrovnik, April 1986; Science Studies Center, Virginia Polytechnic Institute and State University, May 1987)
- Subversives, Opportunists, and the Truth. (Virginia Tech Philosophy Club, November 1986)
- Sociological Definitions and the Definition of Sociology: Weber's Introduction of 'The Spirit of Capitalism'. (Sixth Max Weber Colloquium: Max Weber and the Politics of the Left and Right, William Paterson College of New Jersey, November 1986)
- Fusion and Fission, Governors and Elevators. (Fourth Biennial Conference of the Society for Philosophy and Technology, Blacksburg, Virginia, July 1987)
- Agreeable Knowledge: Opportunistic Action and Scientific Truth. (University of South Carolina, January 1989; South Carolina Society for Philosophy, January 1989)
- Priestley's Airpump: Instrument of Scientific Meaning. (South East American Society for Eighteenth Century Studies, March 1989; Society for the History of Technology, October 1989)
- Suspended Theater and Arrested Time: Chekhov and Slavkin in the West. (Conference on Theater USSR: Revolution and Tradition, December 1989)
- Response to: Harvey Siegel, "Farewell to Feyerabend." (APA Eastern Division, December 1989)
- Priestley and Lavoisier: The Industrious Production and Aesthetic Resolution of Facts. (South Carolina Society for Philosophy, February 1990; History of Science Society, October 1990)
- Priestley's Airpump in the Chemical Revolution. (Wofford College, April 1990; Science Studies Center, Virginia Polytechnic Institute and State University, April 1990; University of Hamburg, June 1990; Beckman Center for the History of Chemistry, Philadelphia, September 1990)
- "...with grim delight Primeval Silence reign'd with ancient Night": The Airpump in 18th-Century British Science. (Scientific Instrument Symposium, September 1990)
- Identity, Rationality, and Vocabularies of Motive: Karl Popper and the Sociology of Scientific Knowledge. (Society for Social Studies of Science, October 1990)
- with Martin Donougho: The World as Will, Novella, and Cinematic Representation - Schopenhauer/Mann/Visconti. (American Society for Aesthetics, October 1990)
- Prudence and Polarity: Franklin, Lichtenberg, Kant and the Concept of Negative Magnitude in Worldly Wisdom. (University of South Carolina, December 1990; South East American Society for Eighteenth Century Studies, March 1991; popular version at Stadttheater Konstanz, November 1992)
- The Aphoristic Argument of Wittgenstein's *Tractatus*. (South Carolina Society for Philosophy, February 1991)
- with Davis Baird: Striking Phenomenon Instruments: On the Relative Autonomy of Facts-well-Put. (Society for Philosophy and Technology, March 1991)

- Response to David Gooding, Karin Knorr-Cetina, and Matthias Dörries on "Instruments and the Production of Phenomena". (British-North American Joint Meeting CSHPS-HSS-BSHA, July 1992)
- The Actors' Brief: Experiences with Chekhov. (Conference on Approaches to Performance Analysis, September 1992)
- The Theater as a Space for Experimental Anthropology. (International Federation for Theatre Research, September 1992)
- Blotting and the Line of Beauty: Literary Ways of Scientific Worldmaking. (Society for Literature and Science, November 1993)
- with Hartmut Wickert: Shamanism Vilified and Redeemed: Sam Shepard's *States of Shock*. (Between the Margin and the Center: International Conference on Sam Shepard, Brussels, May 1993, reviewed in the *Village Voice*, September 14th 1993, pp. 103ff.)
- Community, Immortality, Enlightenment: Kant's Scholarly Republic. (South Carolina Society for Philosophy, February 1994; Eighth International Kant Congress, March 1995)
- Physics as a Vocation: Hertz's Choices in the *Principles of Mechanics*. (Conference on Heinrich Hertz, March 1994)
- Alone with Nature: Comments on Buchwald, Hertz, and the Limits of Physics. (History of Science Society, October 1994)
- "What can be shown, cannot be said": Technology and Civility in Scientific Experimentation. (Southern Society for Philosophy and Psychology, April 1995, also at Universität Leipzig, June 1998)
- with Hartmut Wickert: The Impossible Representation of Wonder: Space Summons Memory. (International Federation for Theatre Research, May 1995)
- Die Stellung des wissenschaftlichen Instruments in der Chemie Priestleys und Lavoisiers. (Kolloquium des Instituts für Wissenschaftsgeschichte, Georg-August-Universität Göttingen, June 1995)
- Arresting Philosophy. (Presidential Address, South Carolina Society for Philosophy, February 1996; published at [http://cms.ifs.tu-darmstadt.de/fileadmin/phil/nordmann/Navi\\_Index/Main/ArrestPhil/scsptalk.html](http://cms.ifs.tu-darmstadt.de/fileadmin/phil/nordmann/Navi_Index/Main/ArrestPhil/scsptalk.html))
- with Hartmut Wickert: Ende der Kritik, Beginn der Aufklärung: Aufführungsästhetische Reflektionen am Beispiel des Dokumentartheaters. (Deutsche Gesellschaft für Ästhetik, March 1996)
- Alienation and Care: On the Commodification of Health. (Conference on Money and Medicine, October 1996)
- Images of Science: A Lecture/Workshop/Slide Presentation on Sublime Experimenters and Serene Thinkers in the French Revolution of Chemistry. (Seminar at USC's Preston College, October 1996; Philosophy Club at Clemson University, November 1996)
- Rising from the Ashes: Totalitarian Science after Totalitarianism. (Conference on Totalitarianism and Modernity, February 1997; Society for Social Studies of Science, October 1997)
- Trembling at the Airpump: Joseph Priestley's Sublime Experiments. (American Society for Eighteenth-Century Studies, April 1997)
- Scientific Air-Pump Experimentation in the 17th and 18th Centuries. (Lecture at USC's McKissick Museum, April 1997)
- History and Contiguity: The Exclusion of Time from Lavoisian Science. (Pittsburgh-Konstanz Colloquium in the Philosophy of Science, October 1997, also at South and North Carolina Societies for Philosophy, February 1998)
- Undoing the Fifth Act: On the Subversion of Fatalistic Narratives by the Cooperative Strategies of the Theater. (American Society for Aesthetics, October 1997)
- Investigative Enterprises: Priestley, Lavoisier and their Experimental Cultures. (Seminar, History of Medicine and Science, Yale University, March 1998)
- The Limited World of Science: A *Tractarian* Account of Objective Knowledge. (Philosophy of Science Association, October 1998)
- Work and Sleep: Ought We be Reading Wittgenstein's Diaries? (Wittgenstein: Biography and Philosophy, March 1999)
- Die Kunst der wahren Beschreibung: David portraitiert Lavoisier. (Deutsche Gesellschaft für Ästhetik, May 1999)



- The Cabinet of Dr. Stockmann: Locating Agency on the Postmodern Stage. (International Federation for Theatre Research, Scenography Working Group, June 1999; earlier version presented at USC Workshop on Agency, March 1999)
- Establishing Commensurability: Intercalations, Global Meaning, and the Unity of Science. (International Conference on Incommensurability, June 1999)
- Bruno Latour and the Metachemistry of Science. (International Society for Philosophy of Chemistry, July 1999)
- From 'Electricity minus' to '-E': Semantic Innovation and the Dissolution of Controversy. (Conference on Alessandro Volta and the History of Electricity, September 1999)
- Archimedes and Kant in the Theater: Where in Space is a Critical Standpoint? (South and North Carolina Societies for Philosophy, February 2000)
- "In den Zeitungen steht, dass die Zeitungen lügen": Zur gesellschaftlichen Konstruktion des Wirklichkeitsverlusts. (Fachbereich Gestaltung at the Hochschule Wismar, May 2000)
- Goethe, Lichtenberg and Wittgenstein – Aphoristic Style, Scientific Experimentation, and Philosophical Method. (Conference on Goethe and Wittgenstein, June 2000)
- David, Lavoisier, and the Art of Representation. (British Society for the History of Science: Conference on Portraiture and Scientific Identity, National Portrait Gallery London, June 2000)
- Heinrich Hertz, Ludwig Wittgenstein, and the Problem of Life. (Conference of the History of the Philosophy of Science Working Group, July 2000; Pittsburgh Center for Philosophy of Science, October 2000; Institut für Philosophie, Universität Konstanz, November 2003; revised version: Darstellungsmechanik und Lebensproblem bei Heinrich Hertz, Institutskolloquium Philosophie, Universität Bielefeld, Januar 2007)
- The Grammar of Law: Biology as Philosophy of Nature. (Gesellschaft für analytische Philosophie, Bielefeld, September 2000)
- Comments on Richardson and Heidelberger. (Conference on Kant and the Exact Sciences, Boston, November 2000)
- Die im Lichte sieht man nicht? Nackte Tatsachen in der Wissenschaftskritik. (Technische Universität Darmstadt, February 2001)
- Pure Science in a Polluted Environment. (Conference on Taking Nature Seriously, Eugene, February 2001)
- Who Does the Work in the Artwork? (7th Performance Studies Conference, Mainz, March 2001)
- Der Hertz'sche Dipol 1884-1888. (Fachverband Physikgeschichte, Deutsche Physikalische Gesellschaft, Hamburg, March 2001)
- On the (Im)Possibility of Scientific Vitalism and the (Non)Necessity of a Science of Complexity. (South Carolina Society for Philosophy, Charleston, February 2002)
- Memories Arrested in Space: Andreas Gursky meets Jackson Pollock. (USC Comparative Literature Conference: The Future of Cultural Memory, February 2002)
- The Power of Anecdote: Heinrich Hertz's Philosophical Appeal to the History of Science (History of the Philosophy of Science Working Group, Montreal, June 2002)
- Die wunderbarste Wünschelrute: Wo Lichtenberg einen Spaß macht, liegt Goethes Problem verborgen (Lichtenberg Gesellschaft, Ober-Ramstadt, June 2002)
- Nanoscale Research: Application Dominated, Finalized, or "Techno-"Science (Europäische Akademie Autumn Conference on Nanotechnology Assessment, Bonn, September 2002)
- Shaping the World Atom by Atom (Conference Technikgestaltung zwischen Wunsch und Wirklichkeit, Darmstadt, October 2002)
- Absolute Größen (Inaugural lecture, Technische Universität Darmstadt, October 30, 2002)
- Die pflegewissenschaftliche Überbietung von Wissenschaft (4<sup>th</sup> International Interdisciplinary Symposium Nursing Science in Medical Context, Zurich, November 2002)
- Zur Wissenskultur der "technosciences" (Colloquium at the Sonderforschungsbereich Wissenskulturen, Frankfurt, January 2003)

- Laws, Lawlikeness, Generalizations: Continuities and Discontinuities. (South Carolina Society for Philosophy, March 2003)
- Molecular Disjunctions: Staking Claims at the Nanoscale. (Discovering the Nanoscale I and II, Columbia and Darmstadt, March and October 2003)
- Zu Bedingungen und Grenzen der Gestaltung von Technoscience. (Sondierungs-Workshop, Nachhaltige Gestaltung von Technik und Wissenschaft, TU Darmstadt, May 2003)
- Logischer Sozialismus für kollektives Wissen? Zum Wissensverständnis von Charles Sanders Peirce (Ernst-Schröder-Kolloquium, TU Darmstadt, May 2003)
- Einfall und Ausspruch: Aphorismus und Gedankenexperiment in Wittgensteins *Tractatus* (Institut für Philosophie, Universität Bielefeld, Juli 2003)
- Nancy Cartwright's Hermeneutics of Science and Nature (Gesellschaft für analytische Philosophie, Bielefeld, September 2003)
- The Passion for Truth: Lavoisier's and Lichtenberg's Enlightenments (Deutsches Museum Munich, September 2003; Lichtenberg Oberschule Berlin, February 2004; TU Darmstadt, April 2004)
- Was ist „technoscience“? Zum Kulturwandel der Wissenschaft am Beispiel von Nanoforschung und Bionik (TU Darmstadt, October 2003)
- Nanotechnology: Convergence and Integration (EuroNanoForum, Trieste, December 2003, abstract published at [www.euronanoforum2003.org/ENF2003proceedings/](http://www.euronanoforum2003.org/ENF2003proceedings/), oral presentations, section 2, manuscript published at <http://nsts.nano.sc.edu/papers/nordmann2004conv.pdf>)
- Volksfeinde: Zum feinen Unterschied zwischen Rechthaben und Besserwissen (IANUS lecture-series Gestaltung von Wissenschaft und Technik, Darmstadt, December 2003)
- Kants *Kritik der reinen Vernunft* (Lecture Series: Klassiker der Philosophie, TU Darmstadt, February 2004)
- New Space for Old Cosmologies: Imaging the World for Nanoscience (Conference on Imaging and Imagining Nanoscience and Nanoengineering, USC Columbia, March 2004)
- Converging Technologies: Perspectives and Challenges (Conference on Foresighting the New Technology Wave, Norwegian Academy of Science and Letters, Oslo, May 2004)
- Containing Nanotechnology (JSPS conference Frontiers of Nanoscience, Halle, May 2004; Institut für Technikfolgenabschätzung ITAS, Karlsruhe, May 2004)
- From Innovations to Breakthroughs and Back: How to Socialize Nanotechnologies (Conference on Nanotechnologies: Problems and Possibilities, Swedish Research Council, Stockholm, June 2004)
- Lügen die Naturgesetze – oder: Wie sollen wir die Wissenschaft verstehen? (Lecture Series: Was steckt dahinter? TU Darmstadt, June 2004)
- Wissenskultur vor Ort (Conference "Wissen und Lernen: Welche Wissenskultur braucht unsere Universität?", TU Darmstadt, June 2004)
- Selbstorganisation als Paradigma der Nanoforschung? (Workshop "Theorien der Selbstorganisation in Naturwissenschaft, Technik und Religion," Evangelische Akademie Hofgeismar, October 2004)
- Wissen und Arbeit: Die Dampfmaschine im 18. Jahrhundert (Conference "Arbeit und Bildung am Vorabend der industriellen Revolution," Mansfeld Museum, Hettstedt-Mansfeld, October 2004)
- Wohin die Reise geht: Unbestimmtheit als Qualität in der Selbstinszenierung der Technowissenschaften (Conference Unbestimmtheitssignaturen der Technik, Darmstadt, October 2004)
- Empty Promises? (Conference on Present Needs, Future Options: Issues and Topics for Transnational Foresight, The Hague, December 2004)
- A Diagnosis of Targeted Drug Delivery: Images of Efficiency in NanoMedicine (Nanoforum conference on NanoMedicine, Rome, November 2004, also at NanoEthics Conference, Columbia, March 2005)
- Was kümmert uns die Nanotechnologie?/Die Definitionen der Nanotechnologie. (popular lecture at Zonta Club, Goslar, January 2005; Ringvorlesung Nanotechnologie, Marburg, April 2005)

- NanoVision(s) at Work – Directions for Convergence. (Nanotechnology – Science, Economy, and Society, Marburg, January 2005)
- Der Wissensbegriff der TechnoWissenschaften/On the Conception of Knowledge in Nanoscale Research: What do NanoScientists know? (fzbw Seminar, Darmstadt, January 2005, and NanoCulture Series, Columbia, March 2005)
- Das Theater der Evidenz – Zum Gegenstand der (Techno)Wissenschaft (Workshop Ästhetik in der Wissenschaft, Zentrum für interdisziplinäre Forschung, Bielefeld, February 2005)
- Die Hypothese der Wirklichkeit und die Wirklichkeit der Hypothese im Denken von Charles Sanders Peirce (Conference on Das Hypothetische in der Wissenschaft, Tübingen, February 2005, Ernst Schröder Zentrum, Darmstadt, July 2023)
- The Incredible Tininess of Nano (Adventure Museum and Conference on NanoEthics, Columbia, March 2005)
- International Perspectives on Socially Responsible Nanotechnology: Comparing American and European Experiences (Invited Lecture for NanoSemester at USC, Columbia, March 2005)
- Invisible Foundations: Herbert Gleiter and the Contribution of Materials Science. (Conference Nano before there was Nano, Chemical Heritage Foundation, Philadelphia, March 2005; revised versions at the annual meeting of the South Carolina Academy of Science, Columbia, March 2006; NanoCulture Series, Columbia, April 2006; CEA – Commission Energie Atomique, Paris, March 2007; iNano University of Aarhus, April 2007; Materials Science Colloquium, Darmstadt, July 2012)
- Securing Nanotechnology – Contemporary Perspectives on Emerging Ethical and Societal Issues. (Conference on New Technologies, Ministerie van Justitie, The Hague, April 2005)
- Einladung zur Nanotechnologie. (Science4Life Alumni Meeting, Frankfurt, April 2005)
- Versuchungen: Künstlerische Nutzung von bio- und nanotechnologischen Verfahrenstechniken und Formangeboten. (Ernst Bloch Zentrum, Ludwigshafen, May 2005)
- Versprechen der Nanomedizin: Philosophische und gesellschaftliche Perspektiven (NanoMedTech 2005, Bad Nauheim, June 2005; English version: The Promises of Nanomedicine, 2nd German-Swedish Seminar on Nanotechnology in Medicine and Bioengineering, Rostock, November 2005)
- TechnoScience als Herausforderung an die Wissenschaftskultur (lecture series Technoscience: Perspektiven der Schnittstelle von Wissenschaft und Technik, Wuppertal, June 2005; Fraunhofer Institut Euskirchen, January 2007)
- Beweis als Experiment bei Wittgenstein (conference Wissen und Logik, Darmstadt, June 2005)
- Nanowissenschaft und konvergente Technologien im Kontext einer neuen Wissenschaftskultur (symposium Nanotechnik und Mensch, Dortmund, July 2005)
- Technology Naturalized (invited plenary lecture, Society for Philosophy and Technology, Delft, July 2005)
- The Present as the Only Reality: Picture Theory and Critique of Causality by Hertz and Wittgenstein (28th International Wittgenstein Symposium, Kirchberg am Wechsel, August 2005)
- Renaissance der Allianztechnik? Neue Technologien für alte Utopien (workshop Utopie heute, Schweizerische Akademie der Geistes- und Sozialwissenschaften, Grenensee, September 2005)
- Schönschrift: Signaturen der Visualisierungskunst (Deutsche Gesellschaft für Ästhetik, September 2005)
- Preparing Nanotechnology for Politics (workshop Small Wonders – Big Questions, University of Copenhagen, October 2005; NanoBio-Raise seminar Applied Ethics and Strategic Communication, Oxford, March 2007)
- Ansätze der Converging Technologies in Europa und den USA (BMBF Zukunftsworkshop Mikro-Nano-Bio-Integration, Freiburg, October 2005)
- First and Last Things: The Signatures of Visualization-Artists (Technisierung/Ästhetisierung: Technological and Aesthetic (Trans)Formations of

Society, TU Darmstadt, October 2005; further developed at the Society for Literature, Science, and Arts SLSA, Amsterdam, June 2006)

- Introduction to Converging Technologies (EPTA conference The Next Technology Wave: Can Policy Keep Pace with Progress? The Case of Converging Technologies, Brussels, October 2005)
- Nanotechnology – Security and Stability (nanoSecurity 2005, Max Planck Institute of Microstructure Physics, Halle, October 2005)
- Uncertainties as Opportunities (Nanomaterials Workshop, ecetoc, Barcelona, November 2005)
- Ethische und gesellschaftliche Aspekte der Nanotechnologie (2. Nanotechnologieforum Hessen, Hanau; also at MatFoRM Tag, Darmstadt, November 2005)
- Social and Scientific Dynamics of Nanotechnology – an Overview (Innogen Seminar Series, Edinburgh, November 2005)
- Nanotechnische Weltgestaltung: Die Natur als Ingenieur, der Ingenieur als Künstler (Oswald-von-Nell-Breuning Symposium, Rödermark, December 2005; expanded version: Elektrische Figuren, molekulare Signaturen – Von Lichtenberg zur Nanotechnologie, Lichtenberg Oberschule Berlin, February 2006)
- Die Risikogesellschaft als Labor: Wissenschaftsphilosophische Fragen an die Nanotoxikologie (Arbeitskreis Chemische Nanotechnologie der Dechema, Frankfurt, January 2006)
- Converging Technology Applications for Active Ageing: Questions of Good Design (IPTS workshop on Brain-Machine and Brain-Computer Interfaces as Applications for Active Ageing, Seville, January 2006)
- Collapse of Distance: Epistemic Strategies of Science and Technoscience (invited plenary lecture, Danish Philosophical Association Annual Meeting, Copenhagen, March 2006; PSTEM seminar University of South Carolina, Columbia, March 2006; workshop Epistemische Bilder in Natur- und Bildwissenschaft – Interdisziplinäre Erkundungen, Zurich, April 2006; Institut für Philosophie, Universität Heidelberg, July 2006)
- Nanotechnologies in Context: Historical, Philosophical and Societal Perspectives (Clemson University, March 2006)
- Shifting Grounds: From Tomorrow’s People to Today’s Challenges (James Martin Institute World Forum, Oxford, March 2006)
- Naturalisierte Technik: Die unheimliche Intelligenz der “smart environments” (Lecture series Die digitale Herausforderung, Klagenfurt, May 2006)
- Kitsch: Zur Kritik technowissenschaftlicher Weltgestaltung (Symposium ethische/ästhetische Existenz, Mainz, May 2006)
- Technology at its best: Societal Demands for Health, Safety, and the Environment (ecetoc’s future strategy workshop, Brussels, May 2006)
- Le nanomonde – est-il le pays des merveilles? (Symposium La matière, le vivant, l’humain, Cité des Sciences, Paris, June 2006)
- Nanoforschungen: Zur Gegenwart einer Zukunftstechnologie (Veranstaltungsreihe Nanotechnologie und Nanowissenschaften – Chancen und Risiken, Vienna, June 2006)
- Entanglement and Disentanglement in the Nanoworld (TA NanoNed Day, Utrecht, July 2006)
- Blurred Visions of Phantom Machines (EASST, Lausanne, August 2006)
- Deepening Ethical Understanding of Nanotechnological Developments (NanoCap kick-off meeting, Amsterdam, September 2006)
- Disentangling Nanomedicine (ESFConference Nanomedicine, Sant Feliu de Guixols; revised version Nanoethics Network, Aarhus, September 2006)
- Design Choices in Nanospace [alternate title: 2006 – A NanoSpace Odyssey] (Nano Researchers Facing Choices, Antwerp, and Durham, October 2006)
- Wohin geht die Reise? Gesellschaftliche Herausforderungen der Nanotechnologie (Interdisziplinäre Studien Gemeinschaft, München, Oktober 2006)
- Proof as Experiment in Wittgenstein (conference Explanation and Proof in Mathematics, Essen, November 2006)
- Jenseits von Risiko – Gesellschaftliche und ethische Fragen im Umgang mit der Nanotechnologie (Hessen im Dialog: Nano, Gießen, November 2006)

- ELSA bites back? (conference Comparing ELSA, Basel, November 2006)
- A Rejoining of the Ways: Friedman, Heidegger, and Technoscientific Objectivity (workshop The Philosophy of Michael Friedman, Copenhagen, December 2006, workshop The Dynamics of Reason Reconsidered, Madrid, November 2007)
- Theories of NanoTechnoScience (France-Stanford Conference on the Societal and Ethical Implications of NBIC-Convergence, Avignon, December 2006)
- Alle Erinnerungen dieser Welt: Sebalds *Austerlitz* und andere Festungen gegen die Zeit (Symposium Geschichte, Autobiografie und Fiktion in Kunst und Literatur, Institut Mathildenhöhe Darmstadt, January 2007)
- NanoDialogues – Deepening Ethical Understanding (NanoDialogue Final Conference, European Parliament Brussels, February 2007)
- CTEKS – Towards a Social Science of Nature (Practis workshop, Spanish Research Council, Madrid, February 2007; Centre for the Study of the Sciences and the Humanities, Bergen, March 2007)
- NanoEthics Past and Present – New Materials, Miniaturization and Recurrent Promises of the Technological Fix (NanoCap Workshop Amsterdam, February 2007; Nanotecnologia, Sociedade e Meio Ambiente, IV Seminário Internacional, August 2007 by video-conference)
- Vorstellungsbilder – Was uns die Physik über Sprache und Erkenntnis zu sagen hat (Herder-Lichtenberg Tag, Herder Gymnasium Berlin, February 2007)
- Nanotechnology – fit to eat? (NanoBio-Raise 2nd Horizon-scanning Workshop Nanobiotechnology in Food and Environment, March 2007)
- Nature-Society-Technology – A Challenge of Interface Design (25th Visionary Seminar “Can technology cope with the challenges of the 21st century?“, IMEC, Leuven, March 2007)
- Knots and Strands: Disentangling Nano and Converging Technologies (Norwegian Research Council, March 2007)
- with Astrid Schwarz: Emerging Necessities: Reflections on the Power of NanoTechnoScience (workshop Deliberating Future Technologies: Identity, Ethics, and Governance of Nanotechnology, Basel, May 2007)
- Merkwürdige Nanotechnologie – Soziale Fantasie an der Grenze der Vorstellungskraft (Evangelischer Kirchentag Köln, June 2007)
- "Heute ist es anders als es früher war..." Wissenschaftsphilosophische Argumente (Ringvorlesung Argumente und Argumentation in der Gegenwartsphilosophie, Hamburg, June 2007; English version "An Age of Technoscience," PSTEM seminar University of South Carolina, Columbia, September 2007; short version conference Science in the Context of Application, Bielefeld, September 2007)
- No Future for Nanotechnology? Historical Progress vs. Global Expansion (Society for Philosophy of Technology, Charleston, July 2007)
- Molekulare Elektronik als neue Naturgeschichte (German Society for History of Medicine, Science, Technology DGGMNT, Wuppertal, September 2007)
- At the Limits of his Science: Heinrich Hertz between Philology and Philosophy (conference Heinrich Hertz and the Development of Communication, Hamburg, October 2007; extended version Ringvorlesung Naturforschung zur Sprache gebracht, Darmstadt, October 2007)
- The Incredible Shrinking Technology: 5 Exponate/10 Bemerkungen (Conference Reduce to the Max: Medienminiaturisierung im Fokus von Natur- und Kulturwissenschaften, Siegen, October 2007)
- Mit der Natur über die Natur hinaus? (Conference Nanobiotechnologien: Anthropologische und Philosophische Implikationen, Kassel, October 2007; PSTEM seminar University of South Carolina, Columbia, February 2009)
- A Social Science of Nature? Toxicology and the Foundations of Nanotechnology (NanoEthics Network, Aarhus, November 2007)
- nano – Zur Gegenwart einer Zukunftstechnologie (lecture-series, Volkswirtschaftliches Institut, Universität Lüneburg, November 2007; popular version Lions Club Goslar, December 2007; revised popular version Technoseum Mannheim, May 2010)

- National Identity: How does it Matter in Engineering Education? (Conference Integrating Engineering and Humanities in Higher Education, Darmstadt, March 2008)
- Goethe, Lichtenberg, Wittgenstein: A Picture Held Us Captive (Workshop Goethe-Lichtenberg-Wittgenstein: Philosophie, Psychologie, Sciences de la Nature, Paris, March 2008)
- The Contecs of Technology: Ontological Politics in the Convergence (Contecs Final Conference, European Commission, Brussels, April 2008)
- An Emerging Code for an Emerging Technology (EC Conference on Governance and Ethics of Nanotechnology, Brussels, May 2008)
- Liberating Properties: The Production of Nano in the Knowledge Economy (Workshop Nanotechnology in Society: Network to Society, Columbia, SC, May 2008)
- Technische Wunderwelt (Workshop Ubiquitous Computing – auf dem Sprung wohin?, Darmstadt, June 2008)
- Have we Just Moved into the Age of Technoscience? (Symposium Have we Just Moved into the Age of Technoscience, Dutch-Flemish Network for Philosophy of Science and Technology, Amsterdam, June 2008; Philosophy Department Colloquium Series, Columbia, SC, March 2009; Institut für Philosophie, Darmstadt, April 2009; STS Seminar Series Virginia Tech, Blacksburg, September 2009)
- „Der Ruhm eine neue Art von Eseln nach Deutschland gebracht zu haben, reizte mich eben nicht sehr“: Was hat Lichtenberg an der Technik interessiert? (Jahrestagung der Lichtenberg Gesellschaft, Ober-Ramstadt, July 2008)
- with Astrid Schwarz: Terms of Engagement and Shared Pleasures in Eco- and Nanotechnology (4S and EASST, Rotterdam, August 2008)
- Small is Beautiful in Smart Environments (NanoCap Working Conference, Darmstadt, September 2008)
- Was wissen die Technowissenschaften? (Deutsche Gesellschaft für Philosophie, Essen, September 2008; Deutsches Museum, Munich, November 2008; Physikalisches Kolloquium, Universität Paderborn, January 2009)
- Converging Technologies – how to steer (Workshop in the BMBF-Foresight-Process, Hamburg, October 2008)
- Nanomedical Challenges in a Social Horizon (Nanotechnology in Medicine – The Potential of Combined Medical and ELSI-Research, Akademien der Wissenschaften Schweiz, Bern, October 2008)
- Affording Affordance (PSTEM seminar, Columbia, SC, October 2008)
- Aufstieg und Fall des Nichts: Das *vacuum-in-vacuo* als politisches Experiment (lecture series Philosophie in Experimenten, Darmstadt, November 2008)
- Wissenschaft und Spitzentechnologien in der Wissensgesellschaft (workshop Entstehung und Verbreitung von Spitzentechnologien, Hamburgisches WeltWirtschaftsInstitut, November 2008)
- Blick von außen: Wie lässt sich der NanoDialog europäisch einordnen und weiterführen (NanoDialog 2006–2008: Ergebnisse und Empfehlungen, Bundesumweltministerium Berlin, November 2008)
- Experiment Zukunft: Kunst im Zeitalter der Technowissenschaften (lecture series Hochschule der Künste, Zürich, December 2008)
- The Place of Ethics in Nanomedical Ethics (Medical Humanities Luncheon Talks, Columbia, SC, February 2009)
- Conference Conclusion (NanoCap Conference Living and Working with Nanotechnologies, Brussels, April 2009)
- with Astrid Schwarz: The Political Economy of Nanotechnoscience (ESF/ZiF workshop Science and Values: The Politicisation of Science, Bielefeld, May 2009; PSTEM seminar, Columbia, SC, September 2009)
- Technikfolgenabschätzung als Technowissenschaft (Keynote at TA '09 Conference: Technikfolgenabschätzung im Zeitalter der Technowissenschaften, Vienna, June 2009; lecture for the IANUS group, Darmstadt, June 2009 )
- Beyond Regulation (Size Matters, NanoBioNet Workshop, Saarbrücken, June 2009)

- Die gesellschaftliche Orientierung der Nanotechnologie: Zukunftsfragen, Möglichkeitsräume, Problemstellungen (Workshop Nanotechnologie Quo Vadis, Evangelische Akademie Haus Villigst, June 2009)
- On the Robust Development of Nanotechnology (nanoconvention 2009, Zürich, July 2009)
- with Astrid Schwarz: Plenty of Room in Limited Space and Something is Created in Art and Science (Society for the Study of Nanoscience and Emerging Technologies, Seattle, September 2009)
- Conservation, Sustainability, Potentiality (4S, Washington DC, October 2009)
- Ethische und gesellschaftliche Dimensionen der Nanomedizin: Bericht vom NanoMed Roundtable (6. Nanotechnologieforum Hessen, Hanau, November 2009)
- Soft Machines (lecture series Sozialmaschinen, Darmstadt, November 2009)
- Zu viel des Guten? Zur Notwendigkeit von Nichtwissenskommunikation (2. Forum Wissenschaftskommunikation, Berlin, December 2009)
- Live long enough to live forever? Technoscientific Dreams of Sustainable Development. (Sixth International Conference on Technology, Knowledge and Society, Berlin, January 2010; lecture series Kapitalismus und Wissensgesellschaft, Darmstadt, May 2010)
- Philosophy of Technoscience. (Conference on The Future of the Philosophy of Science, Tilburg, April 2010)
- Die Hypothese unterscheidet sich vom Satz. (Workshop Wittgenstein übersetzen, Vienna, April 2010)
- The Shape of Knowledge about Nanoparticles: On the discrepancy between what we want and what we get. (Workshop Toward Regulation of Nanomaterials, South Bend, May 2010)
- What is your problem? Finding the path of least resistance. (Workshop Ethics on the Laboratory Floor, Twente, June 2010)
- Ethical and Societal Considerations. (NanoMed Roundtable Final Conference: Nanomedicine in Europe, European Parliament, Brussels, June 2010)
- Responsibility and Credibility. (Trustworthy Nanotechnology? Nanotrust workshop, Trondheim, June 2010)
- Biologie als Technologie. (Colloquium-Series of the Department of Biology, Darmstadt, July 2010)
- Technoscientific Objectivity: Objects, Facts, and Things in Science and Technoscience. (Seminar on Philosophy of Technoscience, University of Sao Paulo, August 2010; shortened version at EASST, Trento, September 2010)
- There is no time like the present: The whole story. (Winter School Good life better, Lübeck, October 2010; Philosophy Department, Aarhus University, May 2011; workshop Anthropologie und Lebenswissenschaft, Darmstadt, July 2011; Philosophy Department, Dalian University of Technology, August 2011; Society for the Study of Nanotechnology and Emerging Technologies, Phoenix, November 2011)
- Reclaiming the Agenda. (Delivering Global Promise Through the Life Sciences, OECD, Paris, December 2010)
- The ‚Character‘ of Nanotechnology. (Winter School Optoelectronics and Photovoltaics from Nanoparticles, Duisburg, December 2010)
- Crucial Experiments: Philosophical and Ethical Aspects of Climate Engineering. (European Research Course on Atmospheres, Grenoble, February 2011)
- Mundane Things in a Technoscientific World (Making/Craft/Designing Workshop, Akademie Solitude, Stuttgart, February 2011)
- The Two Systems of Systems Biology (Center for Functional Genomics, ETH, Zurich, February 2011)
- Between Conversation and Experimentation: American and European Approaches to Emerging Technologies (Workshop Investigating Contextual Proceduralism: Ethics, Technology and Governance, Brussels, March 2011)
- „Eine halb neue Erfindung mit einem ganz neuen Namen“: Lichtenbergs Bemerkungen zur Nanotechnologie (ChemPharm 2011 Making Connections, Darmstadt, April 2011)
- Keine Zeit für den Irrtum: Herausforderungen des Nichtwissens (Workshop Diskursmacht und Agenda-Setting, SciCoRe, Darmstadt, April 2011)

- Was ist synthetische Biologie? (SnyBioTA Workshop, Bremen, April 2011)
- Qualitativ anders? Wissenschaftsphilosophische Differenzierung des Forschungsbegriffs. (Führungskolleg der Leibniz Gemeinschaft, Berlin, May 2011)
- Technikgeschichte und Technikphilosophie der Wissenschaften (Gesellschaft für Wissenschaftsgeschichte, Vienna, May 2011)
- with Thorsten Kohl: Ethical Questions and the Novelty of Nanomedicine (ESF Summer School in Nanomedicine, Wittenberg, June 2011)
- Ian Hacking as Philosopher of Scientific Practice: *Representing and Intervening* Revisited (Society for the Philosophy of Scientific Practice, Exeter, June 2011)
- Technowissenschaftliche Wissensproduktion: Erkenntnis und Innovation zwischen Welterklärung und Prozessbeteiligung (Workshop Transdisziplinäre Arbeits- und Innovationsforschung, Dortmund, June 2011)
- with Astrid Schwarz: The Special and General Economy of Nanotechnoscience (Workshop on Nanotechnologies: Economic and Societal Perspectives, Karlsruhe, July 2011; Department of Philosophy, Dalian University of Technology, August 2011; University of South Carolina, October 2011)
- Knowing and Making in Impure Science (invited lecture, Congress of Logic, Methodology, and Philosophy of Science, Nancy, July 2011)
- The Beginning and End of Nanotechnology (Department of Philosophy, Dalian University of Technology, August 2011)
- From *Representing and Intervening* to a Philosophy of Technoscience (keynote lecture at the conference of the Chinese Society for the Philosophy of Science, Dalian, August 2011)
- Limits of Knowledge in an Expanding Universe: From Dead Matter to Smart Materials (Nano Impacts Group, Notre Dame, September 2011)
- Engineering Science and Technoscience (Second German-Dutch workshop on the Philosophy of Technology, Delft, October 2011)
- with Thorsten Kohl: Lost in Translation (Society for the Study of Nanotechnology and Emerging Technologies, Phoenix, November 2011)
- Einfall und Zusammensturz: Zum Unwillkürlichen bei Wagner und Kleist (lecture series Kleists Marionettentheater, Darmstadt, November 2011)
- Plastizität als Norm (Workshop Normierung in den Lebenswissenschaften, Bonn, November 2011)
- Sich die Dinge vom Leibe halten: Intersubjektive Tatsachen und Objektive Dinge (Department of Philosophy, RWTH Aachen, November 2011, lecture series Wozu Theorie? Leuphana University Lüneburg, December 2011)
- Born from Shame: Desiring the New Human (Bayreuth University, January 2012; Bioethics Workshop, Tübingen, February 2012; German version Vinosophia, Bamberg, June 2012)
- Zukunftsgestaltung und Sorge für die Welt (Bioethics Workshop, Tübingen, February 2012)
- Worte. Worte. Worte. (Workshop Fritz Mauthners Sprachkritik, Wuppertal, March 2012)
- Philosophy of Technoscience: The Production of Knowledge (Pufendorf Institute, University of Lund, March 2012)
- Aufklärung und Wissenschaft: Das Ende einer glücklichen Beziehung? (Universität Lübeck, April 2012)
- Wissenschaftsphilosophie, Technowissenschaftsphilosophie und Überlegungen zum 'Charakter' der Nanotechnologie (Firma Eckelmann, Wiesbaden, May 2012; GLH Gymnasium, Lüneburg/Melbeck, May 2012)
- (Im)Plausibility Squared (Workshop Ethics, Plausibility, and Innovation, JRC Ispra, May 2012; workshop Risk Effects and Affect, Bayreuth, November 2012)
- Conditions of Possibility: On the Philosophy and Regulation of Emerging Technologies (Workshop The Social Relevance of the Philosophy of Science, ZiF Bielefeld, June 2012)
- "What I cannot create, I do not understand"? The science and technology of synthetic biology (Visions of Synthetic Biology, Bremen, June 2012)
- Creative Control: The philosophical, scientific, and technological challenge of synthetic biology (CAS Synthetic Biology Conference, Munich, July 2012)



- Musik als Denken in Wirkungszusammenhängen. (Workshop Musik als begriffsloses Denken, Greifswald, July/August 2012)
- A World of Facts, a World of Things. (35<sup>th</sup> Wittgenstein Symposium, Kirchberg, August 2012)
- Goethe und Lichtenberg: Drei Stationen eines spannungsreichen Verhältnisses. (Goethe Gesellschaft, Bad Harzburg, September 2012)
- ‚Converging Technologies‘ Revisited. (NBIC2 workshop, Leuven, September 2012)
- Erhaltung und Erneuerung: Prinzipien wissenschaftlicher Haushaltsführung. (joint annual meeting Gesellschaft für Wissenschaftsgeschichte and Deutsche Gesellschaft für Geschichte der Medizin, Naturwissenschaft und Technik, Mainz, September 2012)
- Made by us but not of our making: Times of Design (EASST/4S conference, Copenhagen, October 2012)
- How to Express Things in Works: Envisioning Wittgenstein’s *Tractatus Technico-Philosophicus*. (Philosophy Departments, Central European University, Budapest, October 2012, Otto-von-Guericke Universität Magdeburg, January 2013, University of Bergen, January 2013)
- Zum philosophischen und gesellschaftlichen Charakter der Nanotechnologie (Expertengespräch Nanotechnologie, Mainz, November 2012)
- The Character of Nanotechnology: Sustaining an (Un)Limited World (Gordon Research Conference, Ventura, February 2013)
- Translating the Pharmacon (Philosophy Department/Medical Humanities Center, Aarhus, February 2013)
- How much Philosophy of Technology in the Philosophy of Science? (Gesellschaft für Wissenschaftsphilosophie, Hannover, March 2013)
- Beyond Friction: On Superlubricity and the Inverted Platonism of Technoscience (PSTEM seminar, Columbia, April 2013)
- Sachlichkeit: The Technician’s Attitude (Workshop Cognitive Attitudes and Values in Science, Notre Dame, June 2013)
- Das Gefühl der Welt als begrenztes Ganzes: Sachlichkeit (Conference Genesis, Geltung, Geschichte, Kiel, June 2013)
- Innovation and Design. Nanotechnology Ethics and Policy Education in a Global Context. (Panel contributions, Society for Philosophy and Technology, Lisbon, July 2013)
- Born from Shame: Engaging the Posthumanist Discourse. (Research Symposium Imagining the (Post-)Human Future, Karlsruhe, July 2013)
- Responsible Representation (SynBio 6.0, London, July 2013)
- Nanotribology and the Quest for the Frictionless Surface: How an Impossible Object Inspires Science and Engineering (ND Nano seminar, Notre Dame, October 2013)
- Entwicklung und Perspektiven der Wissenschafts- und Technikforschung (INSIST kick-off meeting, Bielefeld, October 2013)
- Beyond Friction: The Objects of Technoscientific Platonism (Society for Literature, Science, Arts, Notre Dame, October 2013; Society for the Study of Nanoscience and Emerging Technologies, Boston, October 2013; Fourth Sino-German Symposium on Philosophy of Science and Technology, Bielefeld, September 2014; History and Philosophy of Physics seminar series, laboratoire Sphere, Paris, December 2014)
- Grenzen und Grenzüberschreitungen technowissenschaftlicher Weltgestaltung: Nanotechnologie, Synthetische Biologie, Technikfolgenabschätzung (Ringvorlesung Umgang mit Technik, Universität für Bodenkultur, Wien, December 2013; Kolloquium des Instituts für Soziologie, Halle, Juli 2014))
- Working Knowledge oder How to express things in works (Institut für Philosophie, Universität Wien, February 2014; History of Science, University of Uppsala, March 2014; Philosophy and STS, Virginia Tech, Blacksburg, April 2014)
- Beyond conservation: Revisioning Critiques of Technological Reason (Workshop Technological Visions and Revisions, Harvard, Boston, April 2014)
- Wissenschaftsbegriffe für die Personalmanagementslehre (DGPF/Erfa-Workshop Wissenschaft und Praxis, Friedberg, May 2014)

- Design und Zeit (DGS Sektionsworkshop Bedeutung technischer Zukunftsvorstellungen, Duisburg, May 2014)
- Enhancing material nature: From dead matter to smart materials (Joint Summer School on „System Integration“, Munich, May 2014; Institut für Nanotechnologie, Karlsruhe, March 2017; workshop Health Implications of Technical Developments, St. Gallen, September 2017; Beijing University of Technology and South China University of Technology, Beijing and Guangzhou, September 2018; Exzellenzcluster livMatS Colloquium, Freiburg, Dezember 2022)
- What remains of nanoethics? (Workshop Nanoethics: Engaging with researchers, Paris, May 2014)
- Fleck und Linie: Bewegungsarten des Geistes (Jahrestagung der Lichtenberg-Gesellschaft, Ober-Ramstadt, Juli 2014)
- What is technoscience – and why do we need a Philosophy of Technoscience? (National University of Singapore, August 2014; Renmin University Beijing, September 2018; South China University of Technology, December 2018)
- Re-Skilling Expertise: From Co-Evolution to Co-Design (Workshop Expert Knowledge and the Public, Bielefeld, September 2014)
- The Fate of Convergence (Science Europe Workshop on The Convergence of Disciplines, Brussels, September 2014)
- Designs on Design (Workshop The Intrinsic Logic of Design, Züricher Hochschule der Künste, October 2014)
- Steigerung der stofflichen Natur: Von toter Materie zu smart materials, von Vorstellungsbildern zu Computermodellen (HNI Forum, Paderborn, October 2014)
- Four Horsemen and a Rotten Apple (Workshop Real World Nuclear Decision-Making, Washington, October 2014; S.NET conference, Bergen, October 2016)
- Deep Similarities (History of Science Society/Philosophy of Science Association, Chicago, November 2014)
- Der fruchtbare Augenblick: Zu einem Laokoon der Technik (Lecture Series Laokoon, Darmstadt, December 2014)
- Modellbildung in den Technowissenschaften (Carl von Linde Akademie, Munich, December 2014)
- IdeoTechnisierung (Workshop Regime des Technologischen, Zürich, January 2015)
- Rules of Thumb as Paradigms of Robust Knowledge (Workshop Robustness – Engineering Science, Rome, February 2015)
- Ein Laokoon der Technik? Zum Verhältnis von künstlerischem und technischem Werk (Conference Techne-Poiesis-Aisthesis, Deutsche Gesellschaft für Ästhetik, Hamburg, February 2015, Workshop Philosophie und Literatur, ETH Zürich, March 2015)
- Das letzte Mittel – Wo auch die besten Modelle keine Entscheidungshilfe darstellen (SciCore Workshop Unsicherheit als Herausforderung für die Wissenschaft, Darmstadt, March 2015)
- Pregnant Moments in Theoretical Kinematics (Pictures and Proofs Conference, Columbia SC, March 2015)
- Pregnant Moments and Comfortable Relations (Rethinking Lessing’s ‘Limits’: Approaches to the *Laokoon* on its 250<sup>th</sup> anniversary, Göttingen, April 2015; Leuphana University, Lüneburg, January 2016)
- Der Ursachenbär: Wittgensteins anthropologische Anthropologiekritik (Workshop Fines Hominis? Zur Geschichte philosophischer Anthropologiekritik, Darmstadt, May 2015)
- Varieties of Similarity (Society for Philosophy of Science in Practice, Aarhus, June 2015)
- Charles Sanders Peirce: Continuity, Probability, Measurement (The Making of Measurement Conference, Cambridge, July 2015)
- Design, Experiment, and the Performance of Novelty (keynote Experimenting with New Technologies in Society, Delft, August 2015)
- A Feeling for the World as a Limited Whole: Working Knowledge and Acknowledging (conference Risk and Hope, Aarhus, August 2015)
- Responsible Representation (Fifth Sino-German Symposium on Philosophy of Science and Technology, Dalian, September 2015)

- with Sabine Ammon and Danka Radjenovic: Designing the Bioeconomy (Synenergische Workshop: Creating Responsible Bioeconomies, Brussels, October 2015)
- Where is the Practice in the Practice Turn of the Philosophy of Science? (A Decade of Science and Technology Research: Past Insights & Future Challenges, IZWT Wuppertal, November 2015)
- What can happen? and What might come? (Society for Social Studies of Science, Denver, November 2015)
- Nanotechnology at the Limits of Science: Regulatory Implications (Center for Environmental NanoScience and Risk, USC, November 2015)
- The Advancement of Ignorance (Workshop TechnoScienceSociety, Munich, November 2015)
- Wittgensteins aphoristisches Gedankenexperiment im „Tractatus Logico-Philosophicus“ (Forum für Philosophie Frankfurt, November 2015)
- Charles Darwin und die synthetische Biologie (Lecture Series, Biology Student Union, Darmstadt, December 2015)
- Nanotechnologie – Chemie oder Alchemie? (Graduation Ceremony of the Department of Chemistry, Darmstadt, December 2015)
- Soziale Naturwissenschaft: Zur Geschichte der Wissenschaftsphilosophie an der TH und TU Darmstadt (Lecture Series Fachbereich Gesellschafts- und Geschichtswissenschaften, Darmstadt, April 2016)
- Technologies of Evidence (Philosophy of Science Colloquium Series, LMU Munich, May 2016)
- What is Technoscience (and why do we need a philosophy of technoscience)? Responsible Research and Innovation: Thinking about (Techno)Science and Society. Technology and Art. Science as a Vocation (four lectures at Peter the Great St. Petersburg Polytechnic University, St. Petersburg, April and May 2016)
- Peace as a value in responsible innovation (contribution to lecture series “Technology and Peace,” Center for Digital Technology and Management CDTM, Munich, May 2016)
- Working Knowledge (keynote lecture, Forum on Philosophy, Engineering & Technology fPET, Nuremberg, May 2016)
- Ökonomieprinzipien von Wissenschaft und Technowissenschaft (Sommerakademie Schweizerische Studienstiftung, Magliaso, September 2016)
- Reuleaux Lesen (Workshop Ernst Kapp und die Anthropologie der Technik, Weimar, September 2016)
- Schmerzmaschinen (Laokoon 2016, Züricher Hochschule der Künste, November 2016; Ringvorlesung Lem zwischen den Welten, Darmstadt, November 2016)
- The Laocoon Machine: Pregnant moments in theoretical kinematics (Conference Principles of Composition, Padua, December 2016)
- Bilder der Wissenschaft (Lions Club Darmstadt, February 2017)
- Open Source Biodiversifizierung: Synthetische Biologie und die Vergesellschaftung der Evolution? (Synthetische Biologie – Gesellschaftliche Bedeutung und Implikationen für die Biodiversitätsforschung, Naturkundemuseum Berlin, February 2017)
- The Evidence of Similarity: When theorists reenact experiments *in silico* (Séminaire d'histoire et de philosophie de la chimie, Laboratoire SPHERE, Paris, February 2017)
- Mastery through Calculation: The Pleasurable Lives of Science and of Technoscience (Workshop Community and Identity in the Technosciences, Vienna, February 2017)
- Technical Translations: Steel Parts, Plastic Pipe, Metal Wheel, Electric Motor, Drive Belts, Rubber Wheels, Bearings (keynote lecture, conference Wittgenstein and Philosophy of Technology, Vienna, March 2017)
- Kunst Wissen Technik (acatech Impulsworkshop: Kunst und Technik – zwischen Innovation & Kommunikation, Munich, March 2017)
- Sachlichkeit (Workshop Die Farben des Tastens, Kunstuniversität Linz, March 2017)
- Darstellungsmechanik: Henrich Hertz zwischen Kant und Wittgenstein (Karl-Franzens-Universität, Graz, March 2017)
- The PreHuman - Participation in the Liveliness of Things (workshop On the Methods and Ethics of Posthuman Approaches, Aarhus, April 2017)

- „wo ... jeder Schnitzer gegen die Wahrheit auch ein Grammatikalischer wäre“ – Lichtenbergs Sprachdenken (Ringvorlesung Lichtenberg, Göttingen, April 2017)
- Images of Science. (two lectures at Peter the Great St. Petersburg Polytechnic University, May 2017)
- General Discussion (workshop Making the World Nuclear after Hiroshima, Stanford, May 2017)
- Compositional Knowledge (keynote lecture, workshop The Varieties of Knowing How, Universität Duisburg-Essen, July 2017)
- Psychoanalytisches Resümee. (Workshop Kritikalität, Darmstadt, July 2017)
- Tending the Working Order: Not just German Technopolitics (Colorado School of Mines, September 2017)
- Matters of Course (keynote lecture, S.NET Society for the Study of New and Emerging and Technologies, Phoenix, Arizona, October 2017)
- Grundbegriffe technowissenschaftlicher Grundlagenforschung (Workshop Perspektiven der Wissenschaftsforschung, Leopoldina, Halle, October 2017)
- with Armin Grunwald: Hermeneutic Technology Assessment – Why it is needed and what it might be (Contours of the Future Conference, Peter the Great St. Petersburg Polytechnic University, November 2017)
- Schwebende Fische und die Lust der Technik (Ringvorlesung Technik und Spiel, BTU Cottbus, November 2017)
- Works of Art and Nature: Ludwig Wittgenstein on the Grammar of Things (Conference Geschichte der Wissenschaftsphilosophie als Forschungsprogramm, Tübingen, December 2017)
- IANUS: Best Practice Modell für integrative Wissenschafts- und Technikforschung? (TU Berlin, February 2018)
- Similarity as Evidence (Models and Simulations 8, Columbia SC, March 2018)
- A Feeling for the Work as a Limited Whole: Wittgenstein, the Problems of Philosophy and the Problem of Technology (South and North Carolina Societies of Philosophy, Rock Hill SC, March 2018)
- Prinzip Öffentlichkeit (Ringvorlesung Wissenschaft und Technik im Zeichen der Fake News, Darmstadt, May 2018)
- Tugenden und Laster der Nanotechnologie (Schiff MS experimenta, Heilbronn, Juni 2018)
- Alignments – Mario Bunge’s General Black Box Theory and Contemporary Technoscience (Society for the Philosophy of Science in Practice, Gent, July 2018)
- Bildung für die Nichtwissensgesellschaft (Leibniz Kolleg Tübingen, August 2018)
- Lust der Technik / Technik der Lust (three short lectures, Lange Nacht der Museen, Lübeck, August 2018)
- Science, Technology, and Play (7th Sino-German Symposium in Philosophy of Science and Technology, Beijing, September 2018)
- The World of the Work: Taking the Spatial Constitution of Socio-Technical Systems Seriously (Poletayev Institute for Theoretical and Historical Studies in the Humanities, NRU Higher School of Economics, Moscow, October 2018)
- Engineering as a Vocation (Peter the Great St. Petersburg Polytechnic University, October 2018)
- Medical Research and Development in the Age of Digital Health (New Perspectives on Digital Health Ethics, Universität Duisburg-Essen, October 2018; Ringvorlesung Digitalisierung first! Bedenken second? Darmstadt, October 2018)
- The Plausible Implausibility of “Anticipating Social Impacts” (Integrity and Responsibility in Science, European Academy of Sciences Conference, Bielefeld, October 2018)
- Spielwerke, Spielwelten – Zur Genese und Ontologie spielerischer Objekte (Workshop Genese und Ontologie Technischer Spielobjekte, Universität Siegen, October 2018)
- Die Black Box – Organon der Nichtwissensgesellschaft (Workshop Datenintensive Wissenschaft, ITAS Karlsruhe, November 2018)

- The Economy of Technoscience (keynote at joint DFG-NSF workshop Technoscientific Constitutionalism: Exploring the Intersections of Science, Technology, and Constitutional Order, Washington DC, February 2019)
- The Education(s) of an Engineer in Vienna and Berlin: Ludwig Wittgenstein studies Boltzmann and Reuleaux (Conference on the History of Engineering Education, Saint Petersburg, February 2019)
- A Feeling for the Mechanism (Narrative Science Seminar, LSE London, February 2019)
- Science and Technology in Society: Recent Developments of European Policy (Peter the Great St. Petersburg Polytechnic University, March 2019)
- Technologies of Pleasure – Pleasures of Technology (Peter the Great St. Petersburg Polytechnic University, March 2019; plenary at the 9th International Congress on Technology, Science and Society, Madrid, October 2019; 13<sup>th</sup> International Museum Studies Conference on History of Science and Technology, Moscow, December 2019)
- There is Plenty of Room at the Bottom: Making Space in a Limited World (Poletayev Institute, Higher School of Economics, Moscow, March 2019)
- Pregnant Moments in the Course of Things (conference Mathematical Ability, Utrecht, April 2019)
- Ein Streifzug durch die Chemieggeschichte (11. NaWi Fachtag bei Merck, Darmstadt, May 2019)
- Engaging the Stewardship Race: How does Peace enter in? (conference Science-Peace-Security, Darmstadt, September 2019)
- The Ties that Bind (workshop EC DG Research and Innovation: Challenges for Responsible Innovation, Brussels, October 2019)
- Hermeneutics of Science (South China University of Technology, workshop on Problems, Frontiers and Approaches of Hermeneutics of Quantum Science and Quantum Technology, November 2019)
- Explainable AI and the Philosophy of Multilingualism (South China University of Technology, Guangzhou, November 2019; plenary at conference on the Integrated Development of Foreign Studies and Artificial Intelligence, Guangzhou, November 2019)
- Biologische Funktion und technisches Design – Evolution, Design und die Grenzen des Wissens in der Biotechnik (Fraunhofer workshop: Biologische Transformation – Interdisziplinäre Grundlagen für die angewandte Forschung, Berlin, November 2019; Vorträge zur Bio- und Medizinethik, Freiburg, January 2020)
- From Technology to Multilingualism – Navigating Multilingual Environments (plenary presentation XIX International Conference on Professional Culture of the Specialist of the Future, November 2019)
- Robotics and AI – Philosophical Reflections on Human-Machine Interfaces (Peter the Great Saint Petersburg Polytechnic University, November 2019)
- Mendeleev’s Toolbox – Signature Objects for Histories of Technology (plenary presentation 13<sup>th</sup> International Museum Studies Conference on History of Science and Technology, Moscow, December 2019)
- Nanotechnologie, Synthetische Biologie, künstliche Intelligenz – wozu eine Philosophie der Technowissenschaften? (Hochschule Furtwangen, January 2020)
- „The Responsibility of Engineers is Boundless” – A Debate for Engineering Students (Conference on the Integration of Engineering Education and Humanities, St. Petersburg Polytech, March 2020)
- Philosophy in Captivity (Wittgenstein’s Philosophy in Times of Crisis, online seminar series, June 2020, further commentary July 2020)
- Prospective Modelling (online Workshop: Modeling the Possible, University of Vienna, October 2020)
- with Janine Gondolf: Philosophy & SUSPHIRE: Best practice for bioeconomical RRI (European Biotechnology and Society Online Seminar Series, October 2020)
- Stanislaw Lem’s Strange New Worlds (University of Samara, online presentation, November 2020)
- Human Nature as an Object of Design? (Fudan University Shanghai, online presentation, November 2020)

- The Joke is on Us: Genres of Re-enactment as Strategies for Saliency (Biological Engineering Collaboratory online seminar series, November 2020)
- Publicity by Design (Die informierte Stadt – Bund deutscher Architektinnen und Architekten, recorded lecture, December 2020)
- Technoscience and Democracy (World Forum Science and Democracy, Brazil, online contribution, January 2021)
- Technische Zukünfte: Prognostisches und Hermeneutisches Technology Assessment (online symposium Vorausschauen, Vorausdenken, Vorausberechnen, Erlangen, February 2021)
- Technology Assessment and the Questions of Provenance - From the typewriter to the 3-D Printer (symposium Re-imagining the futures of 3D printing in society, Karlsruhe Institute of Technology, online keynote, March 2021)
- Wahrheit oder Verlässlichkeit? Eine unbequeme Alternative (lecture series Der Kampf um die öffentliche Meinung zwischen Fakt und Fiktion, Leuphana University, Lüneburg, online lecture April 2021); Reliability - Technical instead of Intellectual Control (conference Der Mensch in der Informationsgesellschaft, Samara University, online presentation, April 2021)
- From Translation to Accommodation: The Philosophy of Technology meets Multilingualism (Conference Language Education and Linguistics in Higher Education, Yaroslavl State Technical University, May 2021)
- The Grammars of Things: On the “Thing-Turn” in the Philosophy of Technology (Society for Philosophy and Technology, online Lille, June 2021)
- Sachlichkeit und Objektivität im Erkenntnisprozess (pflegekongress21, Wien, September 2021)
- Creativity and Innovation - Concepts in Tension (XXI International Conference on Professional Culture of the Specialist of the Future, Saint Petersburg, October 2021)
- Morphologische Freiheit? Betrachtungen zur Gestaltbarkeit des Menschen (Workshop Beyond Human: Transhumanismus, Medizin und die Grenzen der Menschlichkeit, Bonn October 2021)
- Mimesis and Composition (Anthropology and Technology Conference, Aarhus, November 2021)
- Humanoid and Machinic AI - Problems of Trustworthiness (Workshop KI und Governance, online Karlsruhe and Shanghai, November 2021, Guangdong University of Foreign Studies, Guangzhou, June 2023)
- The Ethos of Science and Technoscience and the Spirit of Capitalism (Workshop Commercial Influences on Research, Bielefeld, November 2021)
- Dimensions of Trustworthiness. (Lecture Series on Trustworthy AI, online Shanghai, November 2021)
- Hermeneutics of Science and Technology: Contradiction in Terms or Improbable Notion? (hybrid Workshop Hermeneutics of Science and Technology, Darmstadt and Guangzhou, March 2022)
- Composition in Music and Mechanics: An Integrative Perspective on the Art of Engineering (Conference Integration of Engineering Education and the Humanities, Saint Petersburg, April 2022)
- Keine Rede von Technisierung? Der Sog der Zukunft, der Schock des Alten (workshop Technik denken, Karlsruhe, April 2022)
- Working Knowledge. (Workshop Mimesis and Composition, Padova, April 2022)
- We should die of (Promethean) Shame but it is the Shame that dies (workshop Philosophy and Literature, Zurich, June 2022)
- So near and yet so far: Escaping to the CAVE (French-German workshop on Ethics of Extended Reality, Paris, June 2022)
- Gut Ding will Weile haben: Uhrenstürmerei in einer getakteten Welt (workshop Indikatoren – gezählt, gewogen, entschieden? Schader Stiftung Darmstadt, June 2022)
- Works and Worlds. (EASST conference The Politics of Technoscientific Futures, Madrid, July 2022)
- The Philosophy of Multilingualism - Finding the Way (12th International Conference on Third Language Acquisition and Multilingualism, Zagreb, September 2022)

- History as a Resource for Technology Assessment: Forschungskulturbewertung (Käthe Hamburger Kolleg *Forschungskolleg*, Aachen, October 2022)
- Wie und wieso entsteht (neue) Technik? (Ringvorlesung Technik der Zukunft-Zukunft der Technik, Hochschule Darmstadt, November 2022)
- Technologies in a Multilingual World (Professional Culture of the Specialist of the Future, Saint Petersburg, November 2022)
- doing peace - aus der Perspektive des IANUS-Peacelab (Institut für Friedensforschung und Sicherheitspolitik Hamburg, December 2022)
- Technology and the Ambivalent Experience of a Limited World (Samara, April 2023)
- “Data is the New Oil?” How it happened – from a philosopher’s point of view? (South China University of Technology, Guangzhou, June 2023; Ernst Schröder Zentrum, Darmstadt, February 2024; University of Science and Technology of China, Hefei, May 2024)
- Lichtenberg’s Dream and the Challenge of Hermeneutics (International Workshop Hermeneutics of Science and Technology, Guangzhou, June 2023)
- with Daria Bylieva: Written Motions: Choreographed Movements in Mechanical Engineering and Biomechanics (Society for Philosophy and Technology, Tokyo, June 2023)
- Kairos and the Art of Precision: On Alexander Kluge (Graduate School of Humanities, Kobe University, June 2023)
- Technology and the Felicitous Interplay of Things: On Gernot Böhme (KOIAS Lecture, Kobe University, June 2023)
- Epistemic Techno-Politics: Grand-Scale Minimizing vs. Patchwork Satisficing (Sino-German Workshop, Cottbus, June 2023)
- with Daria Bylieva: Language as a Cage - Conceptual and Digital Dimensions (Conference Language, Mind and Computation in the Era of Cognitive Technologies, Piatigorsk, September 2023)
- Scenarios, Fictions, and Imagined Possibilities in Science, Engineering, and Education (Conference Professional Culture of the Specialist of the Future, Saint Petersburg, November 2023)
- Lessings Laokoon: Eine Frage des Mitleids (Goethe Gesellschaft, Bad Harzburg, March 2024)
- Working Knowledge (University of the Chinese Academy of Science, Beijing, April 2024)
- Mining Models/Model Mining (Workshop for Philosophy and Engineering Science, Institute of Philosophy, Chinese Academy of Science, Beijing, April 2024)
- ChatGPT, the End of Authorship, and the Challenge of Responsible Representation (Conference AI Ethics: A Cross-Cultural Dialogue, Shanghai-Fudan, April 2024)
- Scientific and Technical Objectivity: Two Avenues towards Peace *and* Responsible Representation and the Advancement of Ignorance (lectures at the School of Philosophy/The Institute of Technology Ethics for Human Future, Fudan University, April and May 2024)
- Economies of Science and of Technoscience (Philosophy, Chinese Academy of Social Science, Shanghai, May 2024)
- Works as Worlds? Making Sense of an Idea (Third Workshop on Hermeneutics of Science and Technology, Wuhu-Anhui, May 2024)
- Kant als Experimentalphilosoph (colloquium series, Institut für Philosophie, Universität Mainz, May 2024)
- Technology and Language and Reality (workshop Sprache und Wirklichkeit, Düsseldorf, June 2024)

## Theses

- Wissenschaftsbegriff und aphoristische Darstellung bei Georg Christoph Lichtenberg. (Masters Thesis, Hamburg, 1981, 76pp.)
- Abduction, Dispositions, and Alternatives in Science: On the Rational Reconstruction of Scientific Negotiation. (Doctoral Dissertation supervised by Lothar Schäfer, Hamburg, 1986, 313pp. – available at <http://tuprints.ulb.tu-darmstadt.de/id/eprint/3605>)

## Manuscripts

- Deduktion, Induktion, Abduktion: Spielarten der Logik (218pp.)
- Sociological Definitions and the Definition of Sociology: Max Weber's Introduction of 'The Spirit of Capitalism'. (48pp.)
- Immanuel Kant. (Fifteen lectures, 204pp.)
- History and Philosophy of Science. (Six lectures, c. 90pp.)
- Phenomenology, Technology and Changing Conceptions of Nature: A Conference-Report. (22pp.)
- Novelty and Consilience in Scientific Argumentation: Natural Ontological Attitudes. (58pp.)
- "What can be shown cannot be said": Technology and Civility in Scientific Experimentation. (40pp.)
- The Cabinet of Doctor Stockmann: Locating Agency on the Postmodern Stage. (20pp.)
- Archimedes and Kant in the Theater: Where in Space is a Critical Standpoint? (15pp.)
- Laws, Lawlikeness, Generalizations: Continuities and Discontinuities. (22pp.)
- Die pflegewissenschaftliche Überbietung von Wissenschaft. (15pp.)
- Effective Moments and Suitable Relations (on Lessing's *Laocoön*). (11pp.)

## Activities

- Founding editor of *Lichtblick*, a journal of and for philosophy students at Hamburg University, contributing *inter alia* a series of articles on literature and philosophy of science (Handke, Novalis, Shakespeare, Ionesco and Lewis Carroll)
- with Christiane Schildknecht: organized two days of presentations at the Stadttheater Konstanz on Georg Christoph Lichtenberg (contributed an intellectual portrait of Lichtenberg to the local paper *Südkurier*, November 15th, 1992)
- Co-ordinator of departmental colloquium-series (1994-1997)
- South Carolina Society for Philosophy: Vice-President and organizer of annual conference in Columbia (1994/95), President (1995/96)
- Faculty Associate at Preston Residential College, University of South Carolina (Chair of Advisory Committee, 1997-2000)
- with Meili Steele and David Whiteman: organized week-long public forum "Consumers, Spectators, or Citizens? The Audience of Politics, Mass Media, and the Arts" in Columbia, SC, November 1995 (contributing an editorial for *The State*, November 8th, 1995, and an article to *The Point*, vol. 6, no. 73, November 1995)
- Organizer of week-long seminar by Manfred Frank "'Infinite Approximation': The Philosophical Origins of Early German Romanticism," April 2000 (supported by a grant from the South Carolina Humanities Council)
- Occasional referee for *Synthese*, *Techné*, *Inquiry*, *Perspectives on Science*, *Science as Culture*, *Science Technology and Human Values*, *Philosophy of Science*, *Journal of the History of Philosophy*, *University of Chicago Press*, *Cambridge University Press*, *Deutsche Forschungsgemeinschaft*, *Canadian Research Council*, *Norwegian Research Council* and others
- Lichtenberg Gesellschaft: President (2003-2009), organized six annual conferences, 2004 to 2009, contributed conference reports to *ALG Umschau* Nr. 33, September 2004, pp. 6f.; Nr. 37, December 2006, pp. 4-5; Nr. 41, March 2009, pp. 42-44
- Organized "Kants Himmelfahrt," two lectures, panel discussion and staged reading, TU Darmstadt February 12, 2004
- with Ulrich Kohlenbach and Rudolf Wille: Organizer of the conference "Logik und Wissen," Darmstadt, June 2005
- Co-organizer of the conference "Technisierung/Ästhetisierung: Technological and Aesthetics (Trans)Formations of Society," TU Darmstadt, October 2005
- Chair of session at the twentieth biennial meeting of the Hegel Society of America, USC Columbia, October 2008
- Contributor workshop "Experimentalisierung des Politischen," ICI Berlin, November 2008



- with Tom Burke and Heike Sefrin-Weis organizer of the BiCoDa and Three Rivers Philosophy Conference 2015 at the University of South Carolina “Pictures and Proofs” (Columbia, March 2015)
- with Danka Radjenovic organizer of workshop „Anthropologie und Philosophie: Auf den Spuren des mittleren Wittgenstein“ (Darmstadt, May 2015)
- organizer of IANUS workshop „Nuclear Condition(s): Politics, Technology, Philosophy“ (Darmstadt, February 2016)
- faculty member of graduate school (GK) KRITIS – Kritische Infraststrukturen in Städten (TU Darmstadt, since 2016)
- organized one-day workshop with Helmut Pape and Ivan Mladenov on recent contributions to Peirce scholarship (Darmstadt, November 2016)
- with Annette Ripper organizer of IANUS workshop “Sicherheitskulturen: Safety and Security im Technologienvergleich” (Darmstadt, February 2017)
- with Natalia Nikiforova organizer of workshop and compact seminar “Philosophy and Technology in Pre- and Post-Revolutionary St. Petersburg” (St. Petersburg, September 2018)
- with Andrey Grinev and Anna Rubtsova: program committee of the 19<sup>th</sup> conference “Professional Culture of the Specialist of the Future” and guest editors of the special section “Interdisciplinary Perspectives on Professional Culture in a Changing Environment” in *Education Sciences*, vol. 9: 2 and 3, 2019)
- with Birgit Stammberger and Serjoscha Ostermeyer: organized session „Grenzspiele – Künstlerisches Forschungshandeln und experimentelle Speicherformate an den Grenzen des Wissens“ (Kulturwissenschaftliche Gesellschaft, Koblenz, September 2019)
- organized pre-conference workshop: IANUS @ 30+ Anniversary (conference Science-Peace-Security, Darmstadt, September 2019)
- with Birgit Stammberger: organized session „Who Knows?“ (conference *Jenseits des Menschen*, Kulturwissenschaftliche Gesellschaft, Graz, May 2022)
- with Ute Gahlings, Andreas Kaminski, Gregor Schiemann et al.: organized conference „Philosophie als Kritik und Lebenspraxis: Zur Aktualität der Philosophie Gernot Böhmes“ (Darmstadt, January 2023)
- with Mathias Gutmann: Probleme der Technikphilosophie (Podium, Hans-Heinz-Holz Conference „Perspektiven der Technikphilosophie heute,“ May 2023)

#### *Science Studies & Philosophy of (Techno)Science*

- Consultant to the English translation of Wolf von Engelhardt and Jörg Zimmermann. *Theory of Earth Science*. (Cambridge University Press, 1988)
- Panelist in a session on Testing Psychoanalytic Theory at the symposium *Freud: Impact on 20th Century Thought*, University of South Carolina, School of Medicine, November 1989
- Participant in NEH summer-seminar on the Philosophy of Biology (Richard Burian and Marjorie Grene, organizers), summer of 1989
- Travel-grant to the Beckman Center for the History of Chemistry, September 1990
- with Davis Baird: Organizer of symposium on Instruments and the Production of Phenomena at British-North American Joint Meeting CSHPS-HSS-BSHA, served as chair and commentator, July 1992
- with Davis Baird and R.I.G. Hughes: Organized an interdisciplinary and international conference on “Heinrich Hertz: Classical Physicist, Modern Philosopher” in Columbia, SC, March 1994 (supported by an NEH conference-grant)
- Convener and secretary of USC's Science Studies Group, an informal interdisciplinary association primarily of faculty members USC, 1994-2002, 2009
- with Davis Baird: Organized panel-discussion with Alan Sokal "Science in the Real World: Physical Reality and its Social Deconstructions" (contributed a response to Sokal "In Defense of Science Studies" and a note to the *USC Times*, February 1997)
- Organized panel discussions at USC on Chaos in the Sciences and Humanities, with Lee Silver on Genetic Engineering, with Strachan Donnelley on Environmental Ethics and Philosophy of Nature (contributed comments on "The Ecological Handicap of Science"), with Richard Lewontin on Dialectical Biology (contributed as discussant), with Thomas

Meagher on Micro- vs. Macroevolution, with Kenneth Schaffner and James Gordon on alternative or complementary medicine (1997-2000)

- In collaboration with USC's Honors College and Preston Residential College, co-ordinated a series of courses, colloquia, and seminars on *Darwin Across the Disciplines*, Spring 1999
- with Davis Baird: Organized a symposium on Peter Galison's *Image and Logic* at the meeting of the Society for the Social Studies of Science, October 1998
- Organized a symposium with Michael Heidelberger on Scientific Experimentation at the annual meeting of the South Carolina Society for Philosophy (contributed commentary), February 1999
- with Christopher Preston and Ina Roy: Discussion of Feyerabend and "Science in a Free Society" in the Teaching for Social Justice seminar series of USC's Women's Studies Program, March 2000
- Organized symposium "The Scientific Background of Wittgenstein's *Tractatus*" for the conference of the History of the Philosophy of Science Working Group, Vienna, July 2000
- Fellow at the Pittsburgh Center for the Philosophy of Science, 2000/2001
- with Michael Friedman: Organized conference on "Kant and the Exact Sciences" at MIT's Dibner Institute for the History of Science and Technology, November 2000
- with Christopher Preston: Organized panel "From Estuary to Laboratory – and back?" involving undergraduate researchers at the conference Taking Nature Seriously (supported by Provost's Instructional Development Grant), February 2001
- with Davis Baird, RIG Hughes, and George Khushf: Planning grant for an envisioned Center for the Philosophy and Ethics of Complexity and Scale (CPECS), *Focal Points of Excellence*, VP of Research, USC, 2001/2002
- Chair and introduction at the concluding discussion "Carnap and the Significance of Analytical Philosophy" of the conference "Rudolf Carnap - From Jena to L.A.: The Roots of Analytical Philosophy," September 2001
- Organized panel "Vitalism Revitalised" at the meeting of the North and South Carolina Societies for Philosophy, February 2002
- with Davis Baird et al. NIRT-grant (Nanoscale Interdisciplinary Research Team) "Philosophical and Social Dimensions of Nanoscale Research," National Science Foundation, 2002/2003
- with Davis Baird et al.: Organized interdisciplinary workshop "Reading Nanoscience," Columbia, August 2002
- with Davis Baird and Joachim Schummer: Organized a pair of conference "Discovering the Nanoscale," March 2003 in Columbia, SC, and October 2003 in Darmstadt, Germany
- Rapporteur for the High Level Expert Group "Foresighting the New Technology Wave," European Commission, December 2003 to September 2004, contributed two presentations to final conference in Brussels: "Widening the Circles of Convergence: Vision and Strategy for CTEKS" and "EuroSpecs – European Design Specifications for Converging Technologies"; provided a review of "Technologies for Dealing with Technology"
- Workshop „Pfle gewissenschaft und Wissenschaftsphilosophie,“ Vereinigung der Pflegeexpertinnen- und Experten Schweiz, January 2004
- Associate Member of the NanoCenter, University of South Carolina, since January 2004
- with Joachim Schummer, Katrin Große, Sabine Bernschneider-Reif: Organized lecture series at the TU Darmstadt on history of chemistry and pharmacy, summer term 2004
- Member of European Commission (Community Health and Consumer Protection), expert group "Nanotechnologies: A Preliminary Risk Analysis," March 2004
- Contribution to the discussion "Ist nun alles pötzlich alles nano? Phantastische Visionen versus nüchterne Forschungspraxis," ETH Zurich, May 2004, abstract published in Johannes Fehr, Matthias Michel, Barbara Orland (eds.) *Wissenschaft kontrovers*, Zurich: Chronos, 2005)
- Member of Program Committee, Conference of the History of the Philosophy of Science (HOPOS) Working Group, June 2004

- Panelist in a session on “Chances and Risks of Nanotechnologies” at the *7th International Conference on Nanostructured Materials* in Wiesbaden, June 2004
- with Astrid Schwarz: organized science café “Wissenschaft Querdenken: Nanotechnologie zwischen Vision und Fiktion” in Darmstadt, October 2004
- Organized panel “Simulation, Instrumentation, and Representation at the Nanoscale,” Philosophy of Science Association, November 2004
- Response “Images of Science/Images of Control” to lecture by Don Eigler at the conference “Images of Science,” Amsterdam, December 2004
- Contributor to concluding panel at the conference “Das Bild in der Wissenschaft,” Berlin, December 2004
- Participant in workshop on converging technologies, VDI/VDE-IT, Berlin, January 2005
- Panelist in discussion of NBIC convergence at the NanoEthics conference in Columbia, South Carolina, March 2005
- with Jochen Hennig and Horst Bredekamp, organizer of the working group and conference “Bildwelten der Nanotechnik: Imaging Nanospace” at the Zentrum für interdisziplinäre Forschung (ZiF), Bielefeld, May 2005 (published conference report “Bildwelten der Nanoforschung” in *GIT Labor-Fachzeitschrift* 49:8, 2005, pp. 626-628)
- Panelist “Nanokosmos – Technik zwischen Faszination und Furcht”, ZEIT Forum der Wissenschaft, Berlin, June 2005
- Panelist “Non-market Forces affecting Nanotechnology: Nanotech and Society”, NanoEquity 2005, Frankfurt, June 2005
- Organizer of forum “Novel Social Challenges Posed by Key Technologies” at the conference “Thinking with Einstein: The Responsibility of Science for Peace in the 21st Century,” Berlin, October 2005 (published introductory essay “Mehr soziale Fantasie” in *Freitag*, no. 41, Oct. 14, 2005, p. 18, republished in Stephan Albrecht, Reiner Braun, Thomas Held (eds.) *Einstein weiterdenken: Thinking Beyond Einstein*, Frankfurt: Peter Lang, 2006, 97-100)
- Chaired session at Mini-Conference on the Philosophy of Scientific Images, American Philosophical Association, Pacific Division, Portland, March 2006
- Discussion of Philosophy of Science in the Age of Technoscience, Philosophy Club, Ricarda-Huch-Schule Dreieich, June 2006
- Panelist “Nanotechnologie zwischen Nutzen und Risiken”, Zentrum für Angewandte Kulturwissenschaft und Studium Generale, Universität Karlsruhe, July 2006
- Head of the Office for interdisciplinary NanoTechnologyStudies (nanobüro) at the Center for Interdisciplinary Technology Studies, Darmstadt Technical University, May 2006 to December 2010
- with Martin Carrier, organizer of panel “Science in Application” at the GAP (Gesellschaft für analytische Philosophie), Berlin, September 2006; authored introduction for GAP 6 Proceedings
- with Martin Carrier, Wolfgang Krohn, Gregor Schiemann, and Peter Weingart, organizer and leader of the research group “Science in the Context of Application: Methodological Change, Conceptual Transformation, Cultural Reorientation” at the ZiF (Center for Interdisciplinary Research), Bielefeld, October 2006-September 2007
- Partner and member of management team in NanoCap (EC-funded research project), 2006-2009 with Stefan Gammel and Astrid Schwarz: prepared Ethics Portfolio ([www.nanooffice.eu/portfolio](http://www.nanooffice.eu/portfolio))
- Partner in DEEPEN (EC-funded research project), 2006-2009
- Member of the working group on converging technologies and human functional enhancement, NanoBio-Raise (EC-funded project), contributor to the December 2007 report Donald Bruce (ed.) *Human Enhancement? Ethical Reflection on Emerging Nanobio-technologies*, 2006-2007
- „Modelle regulatorischer Einbettung von Innovationsprozessen am Beispiel der Nanotechnologie“ (BMBF-funded project), 2006-2008; with Andreas Lösch and Stefan Gammel: Organizer of workshop “Regulatorische und institutionelle Herausforderungen der Nanotechnologie,” Darmstadt, June 2007; publication „Beyond Regulation?“ in *nano – The Magazine for Small Science* 14, October 2009, pp. 29-31

- Panelist at workshop "Converging Science and Technologies: Research Trajectories and Institutional Settings," Vienna, May 2007
- with Astrid Schwarz: Organized lecture series "Naturforschung zur Sprache gebracht," Darmstadt, winter term 2007/08 (contributed presentations on Heinrich Hertz and Herbert Gleiter)
- Interview "Die Philosophie des grauen Schleims (Schöne, neue Nanowelt)" (Niels Boeing, interviewer) in *Die Zeit*, Nov. 15, 2007, also at [www.zeit.de/2007/47/P-Nordmann-Interview](http://www.zeit.de/2007/47/P-Nordmann-Interview)
- Commentary on papers by Bernadette Bensaude-Vincent and Michel Morange at workshop "Pour une évaluation critique des bionanotechnologies," Paris, January 2008
- Partner in EthicSchool (EC-funded project, 2007/08), organizer of summer school on ethics of converging technologies, Romrod, September 2008; DVD "Ethics of Nanotechnology and Converging Technologies" developed at Radboud University, distributed through Malsch TechnoValuation, Utrecht, 2009
- Contributed interview to DVD "Allein mit der Natur: Heinrich Hertz – Experiment und Theorie", Hamburg (Agnes Handwerk), 2008
- Produced draft for a set of briefing papers on nanomedicine (NanoBio-Raise, Delft, 2008)
- Discussant at NanoBio-Raise-Panel (EuroBio2008, Paris, October 2008)
- with Astrid Schwarz, opening discussion on temporality of nanoethics (Global Justice in the Development of Nanotechnologies, Aarhus, October 2008)
- Partner in ObservatoryNano (EC-funded project), 2008-2012
- Partner in NanoMed Roundtable (EC-funded project), 2009-2010
- Panelist on human-machine-interfaces (BMBF Foresight Process "Die Zukunft ist angekommen," Bonn, June 2009)
- with Nina Janich and Liselotte Schebek: "Ich weiß, was ich nicht weiß?" Anerkennung und Einbeziehung von Nichtwissen in den Natur- und Ingenieurwissenschaften (funded by TU Darmstadt initiative for interdisciplinary projects); publication „Weniger ist manchmal mehr," *Wissenschaftsjahre 2000 bis 2009: Erfahrungen und Perspektiven der Wissenschaftskommunikation* (Berlin: BMBF, 2009, pp. 23-24)
- Contribution to Expedition Zukunft – Science Express: How Science and Technology change our Life (mobile Science Center, see catalogue München: Max Planck Gesellschaft, 2009)
- program committee member: First Annual Meeting of the Society for Nanoscience and Emerging Technologies (Seattle, September 2009)
- with Martin Carrier, Michael Dickson, Ann Johnson, et al.: Convenor of the first workshop of the BiCoDa Alliance for the History and Philosophy of Technoscience (Columbia, October 2009)
- chaired session "Beyond Risk: Negotiating Nanotechnology 'In-the-Making'" (4S, Washington DC, October 2009)
- Fellow at the Forum interdisziplinäre Forschung (FiF), Technische Universität Darmstadt, 2009-2011
- Participated in discussions of geo-engineering at ERCA 2010 (European Research Course on Atmospheres); contributed remarks on "Geoengineering in Context: Philosophical and Ethical Aspects" (Grenoble, February 2010)
- with Mihail Roco, co-chaired working-session on International Convergence: Regulation, Standardization, R&D Collaboration, Ethical Issues, Societal Support at EU-US Workshop "Long-term Impacts and Future Opportunities for Nanotechnology" (Hamburg, June 2010); rapporteur on "Innovative and Responsible Governance of Nanotechnology for Societal Development" in Mihail Roco, Chad Mirkin, Mark Hersam (eds.) *Nanotechnology Research Directions for Societal Needs in 2020*, Springer, 2010, pp. 439f.
- with Bernadette Bensaude-Vincent and Astrid Schwarz: Genesis and Ontology of Technoscientific Objects (ANR and DFG-funded project, 2010-2013)
- with Paulo Roberto Martins, television interview on collective experiments with nanotechnology, AllTV, Sao Paulo (August 2010)
- with Ingrid Ott: Organizer and Chair of the Second Annual Meeting of the Society for Nanoscience and Emerging Technologies (Darmstadt, September/October 2010)

- with Cheryce von Xylander, “Vollendete Tatsachen” (lecture series, Darmstadt 2010/2011)
- radio feature by Martin Bernhofer „Die Nichtwissensgesellschaft: Vom Umgang mit Grenzen und Lücken des Neuen Wissens“ (Dimensionen: Die Welt der Wissenschaft, Österreichischer Rundfunk I, December 15, 2010)
- panelist at 1<sup>st</sup> Duisburger NanoDialog (December 2010)
- with Astrid Schwarz: contribution to the workshop Imag(in)ing Nanotechnology, Bergen (January 2011) and the roundtable What World do Nanoimages afford? (Society for the Study of Nanotechnology and Emerging Technologies, Phoenix, November 2011)
- with Astrid Schwarz: organized workshop “Ontologie von Forschungsgegenständen” (Darmstadt, April 2011)
- with Martin Carrier and Michael Dickson, organized BiCoDa conference “Research in its Technological Setting” (Bielefeld, June/July 2011)
- with Martin Ziegler, “Krise der Wissenschaft?” (lecture series, Darmstadt 2012)
- with Sonja Schmid, interdisciplinary transatlantic workshop “Energy Options in Technical and Cultural Contexts” (Kloster Eberbach, May 2012)
- with Martin Ziegler, “Das Akademische Viertel” interdisciplinary luncheon discussion series (Darmstadt, ongoing since 2012)
- with Oliver Schlaudt, conference organization “Dimensions of Measurement” (Bielefeld, March 2013)
- panelist “STS perspectives on emerging technologies” and “Ethics on the laboratory floor” (Society for Nanoscience and Emerging Technologies, Boston, October 2013)
- Partner in the EU-funded Synenergene project on Responsible Research and Innovation in Synthetic Biology (2013-2017)
- with Florian Müller-Plathe “Chemische Kriegsführung Erster Weltkrieg bis syrischer Bürgerkrieg“ (four interdisciplinary discussions, Darmstadt, January/February 2014)
- contributions to workshops “Raw Materials Day” and „Die Zukunft des Papiers“ (Darmstadt, May 2014)
- participant in Delphi study and workshop on Synthetic Biology, North Carolina State University (Raleigh, June 2014)
- with Sabine Ammon and Jan Schmidt organizer of “Technikphilosophie im Dialog: 3<sup>rd</sup> Dutch/German Workshop on Philosophy of Technology” (Darmstadt, June 2014)
- with Sabine Ammon, Harald König and Tobias Robischon organizer of Synenergene workshop at the Schader Forum “Responsible Research and Innovation in Synthetic Biology” (Darmstadt, June 2014)
- with Nina Janich course on “Wissenschaft als Beruf”, Sommerakademie des Max-Weber-Programms/Studienstiftung (Ftan, August 2014)
- commentator session on Computer Guidance and Decision Making for Safe and Sustainable Nanomaterials (S.NET 2014, Karlsruhe, September 2014)
- input statement on responsible research (workshop Nachhaltigkeit im Dialog, Schader Stiftung Darmstadt, November 2014)
- with Annamaria Carusi organized symposium “Similarities Reconsidered: How Achievements of Similarity License Inferential and Constructive Moves in Research Practice” (Society for the Philosophy of Science in Practice, Aarhus, June 2015)
- with Ilke Ercan and Lara Huber organized panel “Charles Sanders Peirce: The Limits of Measurement and the Measurement and Limits” (The Making of Measurement Conference, Cambridge, July 2015)
- with Armin Grunwald organized session “The Hermeneutics of Anticipation” (Society for Social Studies of Science, Denver, November 2015)
- with Armin Grunwald and Martin Sand organized workshops “Access to the Future: The Hermeneutic Turn in Technology Assessment” (ITAS, Karlsruhe, January 2016 and April 2018)
- contributed statement “Zur gesellschaftlichen Verankerung der SynBio Forschung” to a parliamentary hearing of the TAB on Synthetische Biologie, Genome Editing, Biohacking – Herausforderungen der neuen Gentechnologien (September 2016)
- organized panel “Handle with care: Making the world safe for technology”; panelist at concluding session (S.NET 2016, Bergen, October 2016)

- organized panel “The Truth of Fictions” (Society for Literature, Science, and the Arts, Atlanta, November 2016)
- contributed to discussion paper Andreas Lösch et al. “Technikfolgenabschätzung von soziotechnischen Zukünften,” published as Diskussionspapier des Instituts für Technikzukünfte Nr. 3 (Karlsruhe, December 2016)
- with Fabio Grigenti organizer of conference “Principles of Composition: Towards a Laocoon for Works of Technological Art” (Padua, December 2016)
- with Beatrix Süß, Heinz Köppl et al.: CompuGene - Computer-aided Engineering of Synthetic Genetic Circuits (LOEWE project, TU Darmstadt, 2016-2018)
- participant of “Hermeneutics of the Future and Sociotechnical Imaginaries: A Conversation with Alfred Nordmann and Sheila Jasanoff” (Boston, February 2017)
- with Tarja Knuutila and Thorsten Kohl: organizer of Winter School “Varieties of Modeling in Technoscience: The Case of Synthetic Biology” (Darmstadt, March 2017)
- organizer of Sino-German workshop “Philosophy of Science and Philosophy of Technology Perspectives on an Uneasy Relationship” (Darmstadt, June 2017)
- with Sabine Ammon organizer of “The Grammar of Things” (conference of the Society for Philosophy and Technology, Darmstadt, June 2017)
- workshop with René von Schomberg organized at Schader Stiftung “Wissenschaft und Technik für Frieden und Sicherheit /Science and Engineering for Global Peace - A Makerspace for Responsible Innovation”; with Thea Riebe and Christian Reuter: Responsible Research and Innovation: Interdisziplinärer Workshop von IANUS und Schader-Stiftung (*Wissenschaft und Frieden* 36:3, 2018, pp. 60-61) (Darmstadt, April 2018)
- „Any sufficiently advanced technology will be indistinguishable from magic”:  
Visioneering the Future, Panel Discussion of Stanley Kubrick’s 2001 – A Space Odyssey (Darmstadt, April 28, 2018)
- Matinee Atomsemiotik (SWR2 Radio Interview, June 24, 2018)
- with Janine Gondolf, Thorsten Kohl, Marco Tamborini: organizer of Summer School “Varieties of Experimentation and Measurement in Technoscience: The Case of Synthetic Biology” (Darmstadt, September 2018)
- discussion with Wu Guolin at the Fourth IASSTP Workshop of Philosophy (South China University of Technology, Guangzhou, December 2018)
- with Diego Orzaez, Nicola Patron, Heribert Warzecha, et al.: Susphire – Sustainable Production of Pheromones for Insect Pest Control in Agriculture (ERA CoBioTech project, 2018-2020)
- with Christian Reuter and Thea Riebe: DualUse IT Research of Concern – Bewertung von Dual-Use Risiken in der Softwareentwicklung (FiF Projekt TU Darmstadt, 2019-2020)
- participation in workshop „Künstliche Photosynthese – den gesellschaftlichen Dialog fortführen“ (acatech, Berlin, January 2019)
- with Karoline Disser: organized workshop „Prandtl und die Folgen: Theorie und Praxis der angewandten Mathematik“ (TU Darmstadt, March 2019)
- with Stefan Böschen and Carsten Reinhardt: organized conference “Wissenschaft in der Verlässlichkeitsfalle? Praktiken der Konstruktion von Relevanz und Neutralität” (Leopoldina Centre for Science Studies, Halle, April 2019)
- summary and commentary at the workshop “Climate Engineering: Opportunities and Challenges for Responsible Research and Anticipatory Governance” (DFG Priority Programme on Climate Engineering, Berlin, May 2019)
- participation in SkyLimits stakeholder workshop on the regulation of drone aerial traffic (Wissenschaft im Dialog, Berlin, June 2019)
- with René von Schomberg, Konrad Ott: organized workshop on Citizen Science (Naturkundemuseum Berlin, June 2019)
- Philosophy of Nanoscience and Synthetic Biology – Understanding the Technosciences (summer-course at Renmin University, Beijing, July 2019)
- IANUS peacelab at the lab<sup>3</sup> makerspace (presentations “Reverse Engineering für eine friedenspolitische Technikgestaltung” Maker Faire Hannover, August 2019; “Hacking for Peace” TedX Talk, October 2020), since 2019

- with Natascha Adamowsky, Fabio Grigenti, Astrid Schwarz et al.: Padua Summer Schools on Philosophy and Cultural Studies of Technology “Playgrounds: Ars, Techné, and the Socialization of People and Things,” “Technology and Magic,” and “Animal Technologies“ (September 2019 and 2022, October 2023)
- founder and president IANUS-Verein für friedensorientierte Technikgestaltung e.V. (since 2020)
- contributions to ZEIT-online “Solidarität: ‘Mit Kreativität können wir Corona besiegen‘“, “Corona-Pandemie: Wollt ihr alle nur kleine Pünktchen sein?“, „Sars-CoV-2: Wie können wir uns Luft verschaffen?“ and „Als ginge es nur um Weihnachten“ (25.3., 12.4., 3.6. and 26.11.2020), ZEIT print edition „Die Igel der Nation: Universitäten in der Pandemie“ (6.5.2021), „Solidarität auf Umwegen“ (30.12.2021)
- with Birgit Stammberger: organized session „Bevölkerungs- und Bürgerwissenschaft: Wissenskulturelle Grenzgänge in der Corona-Krise“ (conference B/Ordering Cultures, Frankfurt/Oder, October 2020)
- with Johannes Kabisch: Unsterbliche Ideen für ewiges Leben (workshop at the Schader Stiftung, Darmstadt, June 2021)
- with WU Guolin and LUO Dong: Hermeneutics of Science and Technology (Sino-German and Darmstadt-Guangzhou workshop, March 2022; international workshop in Guangzhou, June 2023)
- with Fabio Grigenti: organized workshop Mimesis and Composition (University of Padova, April 2022)
- organized lecture series *Komposition*, April to July 2022
- with LIU Yongmou and Carl Mitcham: “Zero-COVID Editorial lacks balance,” letter to the Editor of *Science* vol. 377: 6603, July 15, 2022, pp. 270f.
- with Sonja Daum: „Biodiversity and Peace“ (poster presentation at conference of the European Citizen Science Association, Berlin, October 2022)
- with Kathrin Hadasch and Sonja Daum et al.: organized Arthropothon „Auf Augenhöhe“ - Labor für friedlich biodiverses Mensch-Insekt Zusammenleben (Biohackathon in the context of the BioDivKultur project at lab3 in Darmstadt, May 2023)
- with Mathias Gutmann and Martin Küpper: Panel Discussion „Probleme der Technikphilosophie“ (Hans Heinz Holz-Tagung, Gesellschaft für dialektische Philosophie, Vienna, May 2023)
- President-Elect, Society for Philosophy and Technology, 2023-2025
- with Sadegh Mirzaei, Colin Milburn, Franc Mali, Olga Markic, and Felix Raczkowski: International Seminar “Playful Knowledge: Knowing the World through Games” (Pocakovo, Slovenia, August 2023 and June 2024)
- with Armin Grunwald and Martin Sand: Colloquium “Hermeneutics, History, and Technology: The Call of the Future” (Delft, December Colloquium, December 2023)
- with Oliver Schlaudt: Organized workshop “Science and Engineering for Peace – Das Scheitern einer Idee?” (Koblenz, January 2024)

#### *Aesthetics, Theater, and the Arts*

- Review of a translation of Rilke's *Neue Gedichte* in *Bloomsbury Review*, October 1985
- Translations of children's books, popular novels, a play
- Numerous publications as dramaturg at the Tübinger Zimmertheater, Stadttheater Konstanz, Schauspiel Hannover, and USC Department of Theatre and Speech (including a substantial essay on the conception of human agency in Storm and Stress Drama)
- Curator of the art-gallery at the Tübinger Zimmertheater (1988/89)
- "Absence and Presence in Chekhov's *Three Sisters*," "The *Gestus* of Brecht's *Three-Penny-Opera*," and "Brecht's Realism of Choice: The Case of *Mother Courage*" (Symposia at the Department of Theatre and Speech, University of South Carolina, 1989, 1990, and 1995)
- Co-chair of international symposium *Theater USSR: Revolution and Tradition*, University of South Carolina, December 1989
- Films at the Nickelodeon (Coordinator of community-courses in association with local arts-cinema, 1990-1992; course on the Art of Cinematography, 1994)
- Review of an art-exhibit by Jochen Flinzer in *ZYMA Art Today*, September/October 1992

- with Hartmut Wickert: *Operation Epsilon oder Wie die Deutschen doch noch ihre Atombombe erfanden*, documentary play/literary collage in repertory at Schauspiel Hannover, November 15th, 1995, through June 1996 (contributed a text on the principles of textual composition: "Wortlaute" in Michael Börgerding, ed., *Operation Epsilon...*, Programmbuch No. 33, Hannover: Schauspiel Hannover, 1995, pp. 7-13)
- President of Columbia Film Society/Nickelodeon Theatre (1996/97)
- Editor and writer of weekly electronic newsletter/column *Nick News* (ninety-nine issues, 1997-99)
- Moderator of panel discussion on Heiner Müller's aesthetics and politics, Schauspiel Hannover, June 1996
- Organizer of panel "The Play of Tragedy" at the annual meeting of the American Society for Aesthetics, October 1997
- with Marianne Ward and Matt Miller: Presentation at the University of Houston on the Maymester Course "Theater in the Public Sphere: Art and Public Life in Germany" (by invitation of the Goethe Institute), November 1998
- Panelist at discussion with Anna Rosmus on 'The Nasty Girl' (Beyond Nuremberg conference at USC), November 1999
- Organized symposium "Epistemology, Critique, and the Strategies of the Theater: Discussion of Fredric Jameson's *Brecht and Method*" at the joint meeting of the North and South Carolina Societies for Philosophy, February 2000
- with Ed Madden: Cultural Moments: Race, Gender, and Sexual Identity (film criticism seminar for the South Eastern Media Institute), July 2000.
- Organized panel "Questions of Scale: The Human Measure of Memory and Agency" for USC's Comparative Literature Conference "The Future of Cultural Memory," February 2002
- Organizer of reading from Lessing's *Nathan the Wise*, organizer of and contributor to panel "Nathan in Performance", South East American Society for Eighteenth Century Studies, March 2003
- Contribution "Inszenierung" to the architectural exhibit and catalogue *Sichten und Sieben: Katalog zur Jahresausstellung des FB Architektur der TU Darmstadt*, Darmstadt: Technische Universität, 2003, p. 109
- Participant (video-taped interview) in the performance-piece "Every Computer is Red" (based on a novel by Stanislaw Lem, directed by Hannah Groninger), ZKM Karlsruhe and HAU theatres Berlin, March 2005
- with Manfred Mack, Horst Schäfer, and Anita Kielbasa: Program of reading of Polish Aphorism, annual conference of the Lichtenberg Gesellschaft, Görlitz, July 2005
- Participant in the symposium "Kunst-Garten-Paradies" (part of the Vogelfrei 6 art exhibition, contributed a presentation on "Zengärten der Polymerphysik und andere künstliche Paradiese"), Darmstadt, September 2005
- with Gerhard Gamm and Eva Schürmann: Organized lecture series "Philosophie und Literatur," Darmstadt, winter term 2005/06 (contributed a presentation on W.G. Sebald's *Austerlitz*)
- Contribution to exhibition catalogue "Andreas Gursky: Architektur/ Architecture," Institut Mathildenhöhe Darmstadt (München: Hatje Crantz, pp. 86-90), 2008
- *Natur, Technik, Macht*, presentation and discussion Schader Stiftung (Waldkunst, August 2016)
- with Hartmut Wickert, Dieter Mersch, et al. organizer of theory and art festival *Laokoon 2016* at the Züricher Hochschule der Künste (November 2016)
- Discussion Philosophy and Film: „Mein Bruder heißt Robert und ist ein Idiot“ (Rex Kino Darmstadt, January 2019)
- organized workshop on Literature and Philosophy (Darmstadt, March 2019)
- with Ryan Wittingslow, Sabine Ammon, Sadegh Mirzaei: Organized workshop "Ways of Worldmaking: Nelson Goodman and the Languages of Technology and Art" (Oßmannstedt, January 2024)
- Pink Mouse: Media Opera World Premiere and Symposium (panelist, Leuphana Universität, March 2024)



### Advisory and Editorial Boards

- Chair of the Advisory Panel for the NIRT-grant “Philosophical and Social Dimensions of Nanoscale Research,” University of South Carolina, 2003-2006
- Member of the scientific advisory board for the Nano Dialogue project of the European Commission, 2005-2007
- Member of the scientific advisory board for the exhibition "Nano-Labor/Zentrum für Neue Technologien" by the Deutsches Museum, Munich, 2005-2007
- Member of the Executive Committee of the International Nanoscience and Society Network (INSN), 2006-2009
- Member of the Steering Committee of the Nanoethics Network, Aarhus University, 2006-2009
- Member of the editorial board for the Wittgensteiniana book series, 2006-2018
- Member of the editorial board for *NanoEthics* (Springer), since 2006
- Member of the Executive Committee, Society for the Study of Nanoscience and Emerging Technologies, 2008-2011
- Member of the editorial board for *Revista Redbioética/UNESCO*, since 2010
- Member of the editorial board *Philosophy of Engineering and Technology* book series (Springer), since 2010
- Member of the editorial board of the *Revista Internacional de Tecnología, Conocimiento y Sociedad*, since 2011
- ITA (Innovations- und Technikanalyse) Beraterkreis, BMBF, 2017-2021
- Kulturwissenschaftliche Gesellschaft (KWG), with Birgit Stammberger and Serjoscha Ostermeyer head of the section on epistemic cultures (Wissenskulturen), since 2018
- with Daria Bylieva Chief science editor *Technology and Language*, peer-reviewed online journal, [www.soctech.spbstu.ru](http://www.soctech.spbstu.ru), since 2020
- member of the Jury The Golden Trezzini Awards. Since 2023